

Utah State University

Utah State University 2026-2027 Catalog

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College of Arts and Sciences

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The College of Arts and Sciences includes the following:

We offer over 180 degrees across our departments and centers: A full listing of available academic programs can be found in the **USU Degree Finder.**

Departments

- Art + Design
- Biology
- Chemistry & Biochemistry
- Communication & Media
- English
- History, Cultures & Ideas
- Mathematics & Statistics
- Music
- Physics
- School of Social Sciences
- Social Work
- Theatre Arts
- World Languages & Cultures

Other Units

- Aerospace Studies/Air Force ROTC
- Bingham Research Center
- Caine School of the Arts
- Center for Anticipatory Intelligence
- Center for Intersectional Gender Studies and Research
- Center for the Study of American Constitutionalism
- Community and Natural Resources Institute
- Data Science and Artificial Intelligence Center
- Heravi Peace Institute
- I-System Institute for Transdisciplinary Studies
- Military Science/Army ROTC
- Mountain West Center for Regional Studies
- Production Services
- Transforming Communities Institute
- Utah Public Radio

Overview

The College of Arts & Sciences is at the heart of Utah State University's land- and space-grant mission. Through transformative learning experiences, we serve learners at all levels of post-secondary education including concurrent enrollment students, undergraduates, graduate students, and lifelong learners. We foster discovery and creativity through rich academic experiences that prepare students to meet tomorrow's challenges, drive innovation in research and the arts, and make meaningful contributions to our communities.

The College of Arts & Sciences is a vibrant hub where students are inspired to explore, lead, and make an impact. At the heart of Utah State University's land- and space-grant mission, the college brings together science, humanities, and the arts to empower students with durable skills, hands-on experiences, and lifelong knowledge. Through transformative learning opportunities, we serve learners at all levels—concurrent enrollment students, undergraduates, graduate students, and lifelong learners—fostering discovery, creativity, and a spirit of collaboration. Our faculty, staff, and students advance knowledge, spark innovation, and pursue artistic excellence while engaging meaningfully with our communities. Together, we prepare students to face tomorrow's challenges and chart their own unique paths forward.

Academic Support

Academic Advising

Academic advisors in ArtSci provide personalized support to help students navigate their academic journey. They assist with course planning, degree progress, and connecting students to experiential learning opportunities such as internships, research, and study abroad. Academic advisors also guide students in exploring career paths, accessing campus resources, and overcoming challenges to ensure their success from enrollment through graduation. To schedule an appointment with an academic advisor, please go to this website: https://artsci.usu.edu/advising/.

Financial Support

Scholarships

The College of Arts and Sciences offers more than **450 scholarships** annually to undergraduate and graduate students. More information can be found on the College's scholarships website at **https://artsci.usu.edu/student-resources/scholarships/**.

Experiential Learning

The College of Arts and Sciences excels in experiential learning through studio and lab work, capstone projects, internships, practicums, service learning, and study abroad opportunities that promote global engagement. These experiences deepen students' understanding, foster professional and transferable skills, enhance engagement, and strengthen career readiness. For more information on these opportunities please visit: **https://artsci.usu.edu/student-resources/scholarships/experiential-learning/**

Admission and Graduation Requirements

Students accepted in good standing by the university are eligible for admission to the college containing the arts and sciences. Because of limitations of faculty or space, a few departments within the college, such as **Graphic Design, Interior Architecture and Design**, limit enrollment in their professional programs. See the departmental sections in this catalog and the department head for information regarding these limitations and/or requirements in addition to the university graduation requirements.

College of Engineering

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College of Engineering

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Mission Statement & Goals

The College of Engineering fosters a creative and inclusive learning environment where students and faculty are empowered with the knowledge and experience to become the leaders in engineering who will improve tomorrow's economy, environment, and society by:

- Developing as ethical professionals who understand engineering in its societal context
- Learning modern engineering/science principles and their application in conducting experiments and analyzing data
- Gaining experience in working on engineering problems and designing solutions to meet desired needs
- Acquiring skills in communicating effectively and working in teams
- Understanding the importance of lifelong professional development and learning

Accreditation and Assessment

The College of Engineering is committed to assessing the quality of its academic departments and programs to prepare graduates to enter critical STEM fields in the global workforce. Faculty members in the College are committed to ensuring their students obtain the knowledge and skills needed for success in their chosen fields.

Assessment of student learning, with a focus on continuous improvement, enables the College to implement programmatic and curricular actions to improve the quality of students' educational experience.

The College of Engineering is accredited by subject to ABET accreditation policies.

1.0 Academic Departments and Programs

Founded over 100 years ago, the College of Engineering at Utah State University (hereafter referred to as USU or university) is recognized throughout the Intermountain West as a leader in teaching, research, and innovation. Through rigorous academic programs, cutting-edge research opportunities, and professional development activities, students gain the vision and skills to advance society, drive economic progress, and improve the quality of life across the nation and the world. The College offers 6 ABET-accredited undergraduate degrees and 21 graduate degree programs. Students experience hands-on application of engineering and design principles through industry partnerships and world-class labs and facilities. The faculty and staff in the College of Engineering are committed to students' success by providing exceptional teaching, research, advising, and mentorship opportunities for students.

The College of Engineering has five academic departments with four-degree levels: Bachelor of Science (B.S.), Master of Science (M.S.), Master of Engineering (M.E.), and Doctor of Philosophy (Ph.D.). For specific programs, see the table below:

Department	BS	Minors	MS	ME	PhD
Engineering Education			X		X
Biological Engineering					
Biological Engineering	X		X	X	X
Biomanufacturing			X		
Civil and Environmental Engineering					
Civil Engineering	X				
Civil and Environmental Engineering			X	X	X
Irrigation Engineering			X		X
Electrical and Computer Engineering					
AI Engineering	X				
Computer Engineering	X		X	X	
Electrical Engineering	X	X	X	X	X
Space Systems Engineering			X		
Mechanical and Aerospace Engineering					
Aerospace Engineering			X		X
Mechanical Engineering	X	X	X		X
Mechanical Engineering with Aerospace Emphasis	X				
Space Systems Engineering			X		
Composite Materials and Structures			X		
School of Computing					
Computer Science	X	X	X		X
Data Science			X		

1.1 Undergraduate Programs

An undergraduate education in engineering is based on a strong foundation in math and science. Coursework in the social sciences and humanities provides an interdisciplinary approach enabling students to make informed decisions, become creative problem solvers, and expand their vision of design in their given field. Students working toward undergraduate degrees receive unparalleled classroom education, research experience, and mentorship from nationally and internationally renowned faculty.

1.1.1 Undergraduate Requirements

Standards and requirements ensure students can successfully progress in their designated programs. It is the responsibility of the student to understand and follow all current standards necessary to fulfill degree requirements. The advisors in the Engineering Advising Center in the College of Engineering can help students understand how to meet all academic requirements.

1.1.2 Undergraduate Advising

The academic advisors in the College of Engineering provide personalized guidance for developing and achieving meaningful educational and professional goals. The advising team is committed to helping students plan their academic path for successful and timely graduation. Students are encouraged to meet with their designated academic advisor annually or more frequently for course selection, program planning, and fulfilling academic and graduation requirements.

Undergraduate students are encouraged to visit the Advising Center website for information or to schedule an appointment.

2.0 Admission to the College of Engineering

Students are evaluated based on previous academic performance and assigned their academic standing in the College of Engineering after applying to USU. A student may be accepted into an academic department in the College of Engineering in either the:

- Engineering Foundations Program or
- Pre-Professional Program

See program-specific information in the Engineering Foundations Program Admission and Pre-Professional Program Admission sections below.

NOTE: Students not meeting admissions requirements of the university or College of Engineering may be denied admission. If a student is concerned their standing in the College has been incorrectly assigned, they should contact the Engineering Advising Office. The College of Engineering follows the university policy for academic appeals (Student Standards of Conduct).

2.1 Admission for First-Year Students

Incoming, first-year students will be admitted directly into the Engineering Foundations Program when admitted to USU. To help you in choosing the right major, all incoming engineering students have a common first-year experience. The yearlong Engineering Foundations program is unique to USU. This new curriculum better prepares students to find the engineering degree path that fits their goals. If during the program you decide to change your engineering major, there is no penalty for changing your mind, and you won't have to start over with a new set of classes.

In order to complete the Engineering Foundations Program during your first 2 semesters, students will need to have experience in algebra, geometry, trigonometry, chemistry, physics, English and be prepared to enroll in calculus. Students not prepared to enroll in calculus can take a summer semester following their first year that consists of taking MATH 1220/Calculus II and PHYS 2210/Physics 1 in order to stay on a 4-year track.

Students can earn university credits by receiving appropriate scores on the College Level Examination Program (CLEP) tests or through Advanced Placement (AP) exams.

Coursework (including transfer credit) that is more than 10 years old and is required by the major may be disallowed by the student's department.

2.2 Admission for Transfer Students

Students transferring to an engineering major from another USU program or other institute of higher education will be placed into different engineering majors depending on their completion status of the engineering foundation courses and status of their GPA. The table below shows where students will be placed based on completion status of foundational courses and different GPA categories:

TABLE 2.2			
ENGINEERING *FOUNDATIONS OR PRE-PROFESSIONAL COURSES STATUS	**ADMISSION STATUS**		
Foundations courses incomplete	Admitted to College of Engineering		
Foundational courses completed but do not meet required **foundations GPA	Admitted to College of Engineering		
Foundational courses completed and met required **foundations GPA	Admitted to Pre-Professional Engineering Program		
Pre-Professional courses completed but do not meet required ***pre-professional GPA	Admitted to Pre-Professional Engineering Program		
Pre-Professional courses completed and met required ***pre-professional GPA	Admitted to Pre-Professional Engineering Program until 15 credits are completed at USU within the required GPA (does not apply to current USU students)		

*Foundations Courses: ENGR1010 ENGR EXPLORATION, ENGR1400 ENGR COMPUTER PROGRAMMING, MATH1210 CALCULUS I (QL), MATH1220 CALCULUS II (QL), CHEM1210 PRIN OF CHEMISTRY I, CHEM1215 CHEMICAL PRINCIPLES LAB I, PHYS2210 PHYS SCI AND ENGR I (QI)(BPS), PHYS2215 PHYS SCI AND ENGR LAB 1

**Foundations GPA: Required admission GPA for the pre-professional program can be referred to on table 2.2

***Pre-Professional GPA: Required admission GPA for the professional program can be referred to on table 4.1

2.2.1 Articulation of Transfer Credits

After students are accepted into the Engineering Program, transfer credits are evaluated according to the articulation agreements in place for most universities. If the course material covered is not the same, transfer credits may not be accepted as engineering courses even if the number of credits for courses are the same. In the event no articulation agreement is in place, the USU department responsible for the course evaluates and assigns the transfer credits. Courses taken on the quarter system are evaluated according to the university policy for quarter credit conversion; credits transferred from a quarter calendar system will receive 0.667 semester credits for every quarter credit earned. Coursework (including transfer credit) that is more than 10 years old and is required by the major may be disallowed by the student's department. The final decision on accepting credits for a degree resides with the academic department that awards the degree.

Transfer students coming to USU with an Associate of Science degree from a regionally accredited institution may be deemed as having satisfied the General Education portion of USU's University Studies Requirements. In general, transfer students will still need to satisfy the Depth Education portion of University Studies. In addition, since not all Associate of Science degrees granted by institutions outside of Utah include an American Institutions course (a State of Utah requirement), students may need to complete a Breadth American Institutions (BAI) course while at USU.

2.2.2 Acceptance into the Professional Program for Transfer Students

The Professional Engineering Program refers to the major-specific courses in the junior and senior years of each degree program. Transfer students must apply to the Professional Engineering Program using the Admission/Permission Application for the Professional Program. A final decision on admission into the Professional Engineering Program will not be made until after the applicant has completed at least 15 semester credits of acceptable engineering, math, and science coursework at USU with the required GPA. Some of this coursework may include upper-division classes taken by permission. Transfer students who have completed the Pre-Professional Engineering Program courses at another institution may apply to the Professional Engineering Program after they have been accepted into the Pre-Professional Engineering Program.

3.0 The Engineering Foundations Program

All incoming, first-year students to USU will begin in the foundations program. This is designed to help students choose the right major and have a common first-year experience. This new curriculum better prepares students to find the engineering degree path that fits their goals.

Any student who has been accepted to Utah State University can enroll in the Engineering Foundations first-year experience. You can find Utah State University's admission requirements here: Apply to Utah State University | Admissions | USU

In order to complete the Engineering Foundations Program during your first 2 semesters, students will need to have experience in algebra, geometry, trigonometry, chemistry, physics, English, and be prepared to enroll in calculus. Students not prepared to enroll in calculus can take a summer semester following their first year that consists of taking MATH 1220/Calculus II and PHYS 2210/Physics 1 in order to stay on a 4-year track.

No matter your field of study you plan to go into within the college of engineering, the foundational courses are the same. The requirements to move on from the engineering foundation courses are the same for each department and are as follows:

- 2.80 overall GPA within the foundations courses (foundations GPA)
- C- or better in all foundations courses
- Completion of all foundations courses: ENGR1010 ENGR EXPLORATION, ENGR1400 ENGR COMPUTER PROGRAMMING, MATH1210 CALCULUS I (QL), MATH1220 CALCULUS II (QL), CHEM1210 PRIN OF CHEMISTRY I, CHEM1215 CHEMICAL PRINCIPLES LAB I, PHYS2210 PHYS SCI AND ENGR I (QI)(BPS), PHYS2215 PHYS SCI AND ENGR LAB 1

Students in the Engineering Foundations Program who have completed the Foundations Courses listed above and have met the minimum requirements listed may apply to the Pre-Professional Engineering Program. Students not meeting the minimum requirements will not be able to enroll in sophomore engineering courses and will need to repeat courses until all minimum requirements are met. If a student does not wish to continue to reach the minimum requirements or continue in the program they are invited to declare an alternate major. If students disagree with the denial, they may file and academic appeal. The college of Engineering follows the Utah State University's policy for academic appeals (Student Standards of Conduct).

3.1 Academic Intervention Plan for Engineering Foundations Students

Students who are not making progress in the Foundations Courses or do not meet the minimum Foundations Courses GPA or who need to repeat any individual Foundations Course more than two times will need to meet with their advisor to develop an Academic Intervention Plan before moving forward. The Academic Intervention Plan is intended to help the student attain technical competency before progressing any further in their major. The plan may require the student to take fewer courses in the subsequent semester and postpone enrolling in particular engineering courses.

4.0 The Pre-Professional Engineering Program

The Pre-Professional Engineering Program is designed to help students obtain the academic knowledge and skills to be successful during the junior and senior years of their degree program. Courses in the Pre-Professional Engineering Program include math, science, and fundamental engineering courses. Each engineering major has distinct Pre-Professional Engineering Program requirements that must be satisfied to qualify for the Professional Engineering Program. Department-specific requirements are described in the engineering degree maps found in the USU Catalog.

The College of Engineering has additional standards beyond the university's minimum academic standards. Satisfying university requirements does not guarantee students are meeting Pre-Professional Engineering Program requirements. Students in good standing according to university requirements (maintain a USU GPA of 2.0 or higher) must also meet the departmental entrance requirements for admission into a Professional Engineering Program.

4.1 Academic Intervention Plan for Pre-Professional Engineering Students

Students who are not making progress in the Pre-Professional program or do not meet the minimum Pre-Professional GPA or who need to repeat any individual Pre-Professional course more than two times will need to meet with their advisor to develop an Academic Intervention Plan before moving forward. The Academic Intervention Plan is intended to help the student attain technical competency before progressing any further in their major. The plan may require the student to take fewer courses in the subsequent semester and postpone enrolling in particular engineering courses.

4.2 Admission to the Professional Engineering Program from the Pre-Professional Engineering Program

To apply for admission into the Professional Engineering Program, students must complete all Pre-Professional Engineering Program courses and meet the major-specific admission requirements identified in the table below and described in the engineering degree maps. Only students currently in the Pre-Professional Engineering Program can apply to the Professional Program, and they may only apply to the Professional Engineering Program that is consistent with their current declared major. To be considered for the Professional Engineering Program, students must complete the Admission/Permission Application for the Professional Program. After their application is evaluated, students are notified of acceptance or denial into the Professional Engineering Program.

If students disagree with the denial, they may file an academic appeal. The College of Engineering follows the university policy of academic appeals (Student Standards of Conduct). The College will not entertain more than one academic appeal per student for admission into the Professional Engineering Program. Students should contact their designated academic advisor for questions and assistance in applying to the Professional Engineering Program. Transfer students who have completed the Pre-Professional Engineering Program courses at another institution may apply to the Professional Engineering Program after they have been accepted into the Pre-Professional Engineering Program.

Students should apply to the Professional Engineering Program midway through the semester they will complete all Pre-Professional Engineering Program courses. Students may request permission to take a limited number (not to exceed 15 credits) of upper-division (junior and senior) courses if they:

- are within 10 credit hours of completing the necessary Pre-Professional Engineering Program requirements
- have submitted a Professional Engineering Courses application for permission
- have 0.20 above the major's minimum required GPA
- are registered for all remaining Pre-Professional Engineering courses

Students requesting authorization to take upper-division (junior/senior) courses must have a Pre-Professional Engineering Program GPA at least 0.20 points higher than their major's minimum required Pre-Professional Engineering Program GPA. The final decision for granting permission to take upper-division (junior/senior) classes before formal admission to the Professional Engineering Program rests with the designated academic advisor and the Associate Dean of Engineering for Academics.

TABLE 4.1 REQUIREMENTS FOR ADMISSION TO THE PROFESSIONAL ENGINEERING PROGRAM FROM THE PRE-PROFESSIONAL PROGRAM			
Department	Minimum Pre-Professional GPA*	Number of Allowable Repeats in the Pre-Professional Engineering Program**	Minimum Allowable Grade in Pre-Professional Engineering Program Courses
Biological Engineering	2.30	3	C-
Civil & Environmental Engineering	2.50	3	C-
Electrical & Computer Engineering	2.80	3	C-
Mechanical & Aerospace Engineering	2.80	3	C-
School of Computing	2.50	3	C-

*Department catalog pages list the courses included in the Pre-Professional Engineering Program and the courses used to calculate the Pre-Professional Engineering Program GPA. Although ENGL 2010, Intermediate Writing, is required in the Pre-Professional Engineering Program, it is not used to calculate the Pre-Professional Engineering Program GPA for all majors except Civil & Environmental Engineering. A final decision on admission into the Professional Engineering Program will not be made until after the applicant has completed at least 15 semester credits of acceptable engineering, math, and science coursework at USU with the required GPA. Some of this coursework may include upper-division classes taken by permission. After a student enrolls in courses at USU, only USU coursework is included when calculating engineering-specific GPAs. Non-USU engineering coursework continues to factor into repeat and minimum grade requirements.

**The repeated course requirement includes courses that are audited or receive a Passing grade. Retaking a course multiple times counts as multiple repeats. If a student surpasses the number of repeated courses, they will need to enter an academic intervention plan (refer to 4.1)

5.0 Professional Engineering Program

The Professional Engineering Program refers to the major-specific courses in the junior and senior years of each degree program. The Professional Engineering Program includes required courses and technical elective courses on advanced engineering topics. The Professional Engineering Program curriculum of each major has been designed by department faculty to meet the expectations of ABET accreditation standards, graduate programs, and professional societies.

Enrollment in upper-division engineering courses (3000-level and above) is available only to students who have been accepted into the Professional Engineering Program or an appropriate graduate program. Once admitted, students in engineering majors are assigned a faculty mentor who can help them select technical elective courses and identify areas of interest appropriate to a student's career goals.

Engineering courses are also available to students in majors outside of the College of Engineering if their major includes engineering courses as part of the required curriculum. Before these students can be authorized to take the required engineering course(s), they must pass the course prerequisites with a C- or better.

The minimum upper-division GPA, the allowable number of repeated courses, and an allowable number of credits with a "D" grade vary for each Professional Program Engineering major. Department requirements are listed below:

TABLE 5.0 DEPARTMENTAL ACADEMIC REQUIREMENTS FOR THE PROFESSIONAL ENGINEERING PROGRAM				
	Allowable Credits with a "D" Grade	Allowable Number of Repeats	Minimum Allowable Professional Program GPA**	Number of Allowable Courses with "P" Grade
Biological Engineering	0	3	2.00	0
Civil & Environmental Engineering	10	3	2.00	0
Electrical & Computer Engineering	10	3	2.00	0
Mechanical & Aerospace Engineering	0	1 per course	2.00	0
School of Computing	0	No Limit	2.50	0

*The allowable repeated course requirement includes courses that are audited or receive a Passing grade. Retaking a course multiple times counts as multiple repeats.

**Courses taken for Pre-Professional Engineering Program requirements and University Studies courses are not included in this GPA calculation.

5.1 Professional Engineering Program Intervention and Ineligibility

A student may be required to develop an Academic Intervention Plan in the Professional Program for the following reasons:

- The student exceeded the allowed hours of D for their specific major
- The student exceeded the allowed number of repeats for their specific major
- The student's Professional Program GPA dropped below the required minimum allowable professional program GPA

A hold is added to the student's account to prevent them from registering in future semesters. To have the hold removed, students must meet with their engineering advisor to review Professional Program requirements and make a plan to correct the existing academic standard violations and return to good standing in the Professional Engineering Program.

Students in the Professional Engineering Program who are no longer eligible for graduation have their status changed to preparatory engineering until they declare a new major.

6.0 Graduation Requirements

Students are eligible for graduation when the following criteria are met:

- Completion of all Professional Engineering Program requirements
- Completion of all university degree requirements university degree requirements

- Successful completion of the FE Exam (Civil & Environmental Engineering and Biological Engineering only)

Students may apply for graduation anytime during their senior year; however, to be considered for graduation for a specific semester, students must apply by the deadline specified on the Registrar's Office website. It is recommended students meet with their advisor at least two semesters before graduation to verify the correct courses will be completed in the final year.

7.0 Undergraduate Scholarships

Utah State University offers a variety of scholarships specifically for incoming students, both first-year and transfer students. Some scholarship opportunities for incoming students do not require any action on the student's part to be considered. When students apply to the university for admission, they are automatically considered for these awards, which are generally based on academic performance such as GPA and ACT scores. Other awards may require a separate application for consideration.

Additionally, the College of Engineering awards endowed scholarships annually on a competitive basis to first-year students as well as current and transfer students. Online applications are accepted each year between January 1 and January 31.

8.0 Undergraduate Research Opportunities

Utah State University's Undergraduate Research Program is the second oldest in the nation. Students have the opportunity to work closely with research faculty and to pursue their own research projects. College of Engineering students are encouraged to obtain research experience through the Undergraduate Research Fellows Program (URF), Undergraduate Research & Creative Opportunities Grants (URCO), and Engineering Undergraduate Research Program (EURP). For information on these research programs, visit the Undergraduate Research Opportunities website. Additionally, faculty members often accept undergraduate research assistants to assist on funded research projects, and students are encouraged to contact faculty directly regarding participation in research projects.

See the Research Centers and Labs section for more information.

9.0 Undergraduate Student Resources

The College of Engineering provides specialized academic, extra-curricular, and hands-on resources free of charge to help ensure academic and professional success.

9.1 Engineering 360°

Engineering 360° is an innovative program designed to enrich a student's engineering education and equip them with the skills needed for a standout professional career. It serves as a comprehensive guide to enhance the engineering student's academic journey and prepare them for the future.

9.2 Student Clubs and Organizations

College of Engineering students are encouraged to enhance their leadership, communication, and teamwork skills by participating in college-wide and departmental student clubs and organizations. Participation in student clubs provides opportunities for networking, research, professional development, and regional/national conferences and competitions.

Additionally, over 100 USUSA Clubs provide service, involvement, and academic opportunities to students across campus.

9.3 Student Success Resources

The College of Engineering enhances students' skill development and academic success through no-cost access to academic support services and hands-on facilities including the:

- Open-Access Computer Lab: Provides poster printing services and over 75 technical software programs.
- IDEA Factory: Through access to specialized equipment and machines, students can work with consultants in a hands-on environment to create personal and class-related projects.
- Metal Factory: Students can work on senior design and class projects through access to a wide variety of tools including fabrication tools, grinders, hand power tools, lathes, mills, presses, and welders. A conference room is also available for reservation.
- Engineering Tutoring Center: Engineering tutors with knowledge of a variety of math and engineering subjects provide one-on-one assistance to students through online or in-person appointments.
- Engineering Writing Center: Through one-on-one writing consultations, students refine their technical writing skills for class-related projects and homework.
- Engineering Design Lab: Provides access to 3D printing and over 75 technical software programs. Reservations can be made for an event or club use.
- Engineering Math Resource Center: The Math Resource Center is intended to provide resources to students for learning the principles of mathematics that will be essential for future careers in engineering.

9.4 Notice of Non-Discrimination

In its programs and activities, including in admissions and employment, Utah State University does not discriminate or tolerate discrimination, including harassment, based on race, color, religion, sex, national origin, age, genetic information, sexual orientation, gender identity, or expression, disability, status as a protected veteran, or any other status protected by university policy, Title IX, or any other federal, state, or local law.

Utah State University is an equal opportunity employer and does not discriminate or tolerate discrimination including harassment in employment including in hiring, promotion, transfer, or termination based on race, color, religion, sex, national origin, age, genetic information, sexual orientation, gender identity or expression, disability, status as a protected veteran, or any other status protected by university policy or any other federal, state, or local law.

Utah State University does not discriminate in its housing offerings and will treat all persons fairly and equally without regard to race, color, religion, sex, familial status, disability, national origin, source of income, sexual orientation, or gender identity. Additionally, the university endeavors to provide reasonable accommodations when necessary and to ensure equal access to qualified persons with disabilities.

For further information regarding non-discrimination, please visit the Office of Equity or contact the university's Title IX Coordinator.

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10. Concurrent Bachelor's/Master's Program

The Concurrent Bachelor's/Master's (BS/MS) Program allows engineering students to begin taking graduate-level classes during the final year of their undergraduate program, which permits students to complete requirements for both the BS degree and the MS degree simultaneously. Since many graduate courses are taught during alternate years, students in this program have a greater selection of graduate courses. After completing BS degree requirements, students in the Concurrent Program can

earn a Master of Science degree in one additional year. Both the Bachelor of Science and the Master of Science degree can generally be earned with 150-156 total credits, although a Plan C MS degree requires 3 additional credits. During the second year of the Concurrent Program when the student is within 21 credits of completing both degrees, students will pay graduate tuition and fees. Students in the Concurrent Program are eligible for loans but not grants.

Each College of Engineering department has unique requirements for Concurrent Program eligibility. To be considered for admission into the Concurrent Program, students must:

- Complete a bachelor's degree graduation application
- Contact the department to determine eligibility (see the department graduate program coordinator for assistance with the application process)
- Apply and be admitted to the USU School of Graduate Studies
- Take the GRE and submit scores to the School of Graduate Studies
- Submit the Program of Study to the graduate committee and School of Graduate Studies for approval
- Submit a Split Registration Form each semester enrolled in the Concurrent Program
- Select an approved faculty advisor to determine the coursework in the Program of Study
- Select a graduate committee, which must be approved by the School of Graduate Studies

Once admitted to the Concurrent Program, students must maintain a 3.00 or higher GPA in courses approved for the Concurrent Program. If the student's GPA falls below the 3.00 GPA requirement, the student is ineligible for the Concurrent Program and cannot enroll in graduate courses.

11. Graduate Programs

Through involvement in cutting-edge research and participation in courses taught by nationally recognized faculty, students who earn graduate degrees in engineering become world-class leaders and researchers in high-level, specialized positions in their chosen fields of study. Faculty are committed to the success of their graduate students and work closely with them as mentors in both research pursuits and career advisement.

The College of Engineering offers 21 graduate programs leading to Master of Engineering (ME), Master of Science (MS), and Doctor of Philosophy (PhD) degrees. Master of Science degrees have three plans:

- Plan A: Research, Thesis, and Coursework
- Plan B: Project, Report, and Coursework
- Plan C: Coursework Only

The following table outlines the graduate program offerings in the College of Engineering. Please see the departmental graduate program coordinator for more information regarding program requirements.

GRADUATE PROGRAMS					
	Master of Science (MS) Plan A	Master of Science (MS) Plan B	Master of Science (MS) Plan C	Master of Engineering (ME) Plan C	PhD
Biological Engineering					
Biological Engineering	X	X	-	X	X
Biomanufacturing	X	X			
Civil & Environmental Engineering					
Civil & Environmental Engineering	X	X	-	X	X
Irrigation Engineering	X	X	X	-	X
Electrical and Computer Engineering					
Electrical Engineering	X	X	-	X	X
Computer Engineering	X	X	-	X	-
Space Systems Engineering	-	-	X	-	-
Electrical and Computer / Master of Business Administration (MBA)	-	-	-	X	-
Engineering Education	X	X	-	-	X
Mechanical and Aerospace Engineering					
Mechanical Engineering	X	X	X	-	X
Aerospace Engineering	X	X	X	-	X
Space Systems Engineering	X	-	-	-	-
Composite Materials and Structures	-	-	X	-	-

For information about graduate programs and specific admission requirements, see the following departmental websites:

- Biological Engineering
- Civil and Environmental Engineering
- Electrical and Computer Engineering
- Engineering Education
- Mechanical Engineering, Aerospace Engineering, and Space Systems Engineering

11.1 Application Deadlines

Graduate school application deadlines are department or program specific. Once received by Utah State University, the time to process an application may take six to eight weeks. When an application is complete, it is forwarded to the department or program for review. To apply for admission to a graduate program, students must submit their completed application by the following deadlines. Incomplete applications will not be considered for admission.

APPLICATION DEADLINES BY DEPARTMENT, COLLEGE OF ENGINEERING*				
	Fall Enrollment/Admission		Spring Enrollment/Admission	
	Domestic Applicants	International Applicants	Domestic Applicants	International Applicants
Biological Engineering	March 15	February 15	July 15	June 15
Civil and Environmental Engineering	January 15	January 15	October 1	October 1
Electrical and Computer Engineering	January 1 (1st review) May 1 (2nd review)	January (1st review) May 1 (2nd review)	July 1 (1st review) Sept 1 (2nd review)	July 1 (1st review) Sept 1 (2nd review)
Engineering Education	February 1	February 1	n/a	n/a
Mechanical and Aerospace Engineering	Last Day of February	Last Day of February	August 30	August 30

*Application dates listed are for full funding consideration.

11.2 Graduate Admission Requirements

For admission to a graduate program, potential students are required to:

- Complete the online application and pay the non-refundable $55 fee through the School of Graduate Studies
- Possess a BS degree OR a MS/ME degree from an accredited college or university
- Meet departmental requirements for minimum GPA for the student's last 60 credit hours (identified below by academic department)
- Provide official transcripts from previously attended colleges or universities, including Utah State University
- Take the Graduate Record Examination (GRE) and submit scores. NOTE: some degree programs have eliminated the GRE requirement; see the table below for GRE requirements
- Submit three letters of recommendation that address the applicant's potential for success in the proposed graduate program
- Provide a statement of purpose (as required by the specific department

Specific departmental requirements are identified in the table below:

MS/ME AND PHD ADMISSION REQUIREMENTS (X INDICATES REQUIRED ITEMS)						
	Minimum GPA for last 60 semester credit hours*	Official Transcripts	GRE	Letters of Recommendation (3)	Statement of Purpose	Resume/Curriculum Vitae (CV)
Biological Engineering	3.00	X	-	X	X	-
Civil and Environmental Engineering	3.00	X	-	X	-	-
Electrical and Computer Engineering	3.00	X	-	X**	X	X
Engineering Education	3.00	X	-	X	X	-
Mechanical and Aerospace Engineering	3.30	X	-	X**	-	-

*For courses taken on the quarter system, the last 90 credit hours are evaluated.

**Letters of recommendation are not required for students with a BS in Engineering from USU.

***Letters of recommendation are not required for students with a BS in Mechanical Engineering from USU.

11.3 International Student Graduate Admission Requirements

In addition to the admission requirements listed in the table above and other department-specific requirements, all applicants whose native language is not English must provide university-level English proficiency. Students who have completed two years of college in one of the countries listed below and at an institution in which instruction was in English are considered proficient in the English language and will not be required to provide additional evidence of English language proficiency:

- Australia
- Canada (except Quebec Province)
- New Zealand
- United Kingdom
- United States

The School of Graduate Studies' English language requirement may be satisfied in several ways (see below). Test scores must be sent to the School of Graduate Studies by the testing agency.

- TOEFL score of at least 79 (Internet-based), 213 (computer-based), or 59 (paper based)
- International English Language Testing System (IELTS) score of at least 6.0 overall
- Pearson Test of English (PTE) overall score of at least 53
- Completion of a degree from a university in an English-speaking country
- Utah State University's Intensive English Language Institute (IELI) placement exam score of at least 146.

NOTE: English proficiency test scores are valid for two years. Proof of English language proficiency is rarely waived.

11.4 Financial Aid and Graduate Assistantships

Utah State University provides options to help students finance their education through graduate tuition awards and graduate assistantships, fellowships, and scholarships. Graduate students may be eligible to receive graduate tuition awards for the resident and/or nonresident portion of tuition through the following graduate tuition awards:

- Alumni Legacy Waiver
- Research Nonresident Tuition Waiver
- Nonresident Tuition Waiver

Other financial aid opportunities include:

- Supplemental Language Tuition assistance for graduate students who are required to take language credits
- Federal College Work-Study (FAFSA application required)
- GI Bill benefits (for information, visit the USU Veteran's Affairs website

Graduate students in research-oriented degree programs may have the opportunity to work on paid, part-time research projects with the College of Engineering faculty. Research Assistantships are awarded on a competitive basis from the individual grants of major professors. For more information on research assistantships, scholarships, fellowships, and grants, visit the departmental websites below:

- Biological Engineering
- Civil and Environmental Engineering
- Electrical and Computer Engineering (contact the departmental Graduate Program Coordinator for funding information)
- Engineering Education
- Mechanical and Aerospace Engineering

11.5 Graduate Advising

Graduate program coordinators (GPCs) play a key role in supporting the success of graduate students throughout their program of study. GPCs are a critical link between students' academic department and the School of Graduate Studies. GPCs assist graduate students with deadlines, program of study completion, and thesis/dissertation requirements. Graduate program coordinators work with graduate students from program acceptance to graduation and are the first point of contact for questions or concerns.

11.6 Major Professor and Graduate Committee

Once admitted to a graduate program, the student selects a major professor and graduate committee, which must be approved by the School of Graduate Studies. The proposed master's program of study must be approved by both the student's graduate committee and the School of Graduate Studies. The student's major professor acts as a mentor and provides guidance through the graduate program. Major professors can:

- Recommend courses to include in the program of study
- Help define research projects and research questions
- Provide feedback on written materials
- Assist in preparation of proposals, theses, dissertations, and dissertation defenses
- Assist in preparation for comprehensive exams (Ph.D. students only)

The student and major professor should identify prospective graduate committee members based on their potential contributions to the student's academic and research program. The graduate committee will approve the program of study, direct comprehensive exams (if required), supervise and provide feedback on research, and conduct the student's defense. It is the responsibility of the student to approach potential committee members regarding their participation and role within the committee as well as the student's proposed work.

11.7 Student Registration Status

A full-time matriculated graduate student must be one of the following:

- Registered for 9 or more graduate credits
- Registered for 6 or more graduate credits if employed as a graduate assistant for 15 hours per week or more
- Registered for 3 graduate credits with all required coursework completed and only the research component of the degree remaining (the student's Program of Study must have been submitted to the School of Graduate Studies)
- Registered for at least 3 graduate credits during the semester of the final thesis/dissertation defense or, in a non-thesis degree program, the last semester of coursework required on the student's Program of Study

11.8 Program Academic Rules and Policies

Graduate students are expected to know the requirements and standards of their specific program and to assume full responsibility for meeting the following requirements:

- All students are required to maintain an overall GPA of 3.00 or better for all courses listed on their official program of study
- Graduate students must also maintain at least an overall 3.00 GPA for ALL courses taken at Utah State University, including any extra courses of personal interest and required make-up courses
- Make-up courses must be taken for a grade and cannot be taken for pass/fail
- If at any time a student's overall GPA for those courses listed on the official program of study falls below a 3.00, the student will be placed on academic probation by the USU School of Graduate Studies
- In any semester while the student is on probation, if the GPA for that semester falls below 3.00, the student may be suspended as a candidate for an advanced degree
- No USU scholarship funding or tuition waiver will be available during the suspension
- Reinstatement to the degree program or a change from non-degree to degree seeking status will require a petition to the Department Head for approval
- Pass (P) grades are accepted only for seminars, special problems, interdisciplinary workshops, theses or dissertation research, and continuing graduate advisement
- Students must have authorization from their academic major advisor to enroll in more than 18 credits a semester

11.9 Program Forms

Graduate students are responsible for the timely submission of all program forms at specific points in the program of study. All academic forms for Master of Science degrees (Plans A, B, and C) as well as Doctoral degrees can be found on the School of Graduate Studies website. Submission instructions are on each form. Forms must be submitted and approved at the appropriate time or authorization to defend a thesis or dissertation will not be granted. For information about academic forms, students should contact their graduate program coordinator.

Students are required to submit a Program of Study (POS) form to the School of Graduate Studies by the end of the second semester for Master of Science degrees and by the end of the third semester for Doctoral degrees. The Program of Study is a contract between the student, the student's graduate committee, and the School of Graduate Studies outlining the courses the student will take to meet the School of Graduate Studies requirements and complete the degree program. Revisions to a Program of Study can be made by contacting the Graduate Program Coordinator who will update the courses; major professors and department heads will receive the revision for approval.

11.10 Residency Requirements

Utah law requires students who have not previously acquired a residency at a Utah school of higher education to maintain a physical presence in Utah for 12 continuous months and meet other criteria as outlined on the Admissions website. The following alternatives and exemptions may apply:

A 12-month physical presence in Utah is not the only route to gaining residency. Alternatives to the Utah law are identified on the admissions website.

Exemptions exist for students who are active duty U.S. Military service members or veterans OR are a dependent of active duty U.S. Military service members or veterans. An online application must be submitted

Deadlines and instructions are found on the admissions website. The Admissions Office also hosts Information sessions to answer questions about the residency process.

11.11 Transfer Credits

Provided Utah State University residency requirements are or will be met, a student's graduate committee may recommend the transfer of graduate credits earned at another accredited institution under the following conditions:

- The credits **must not** have been used for another degree
- No more than 12 semester credits taken at Utah State University or another institution prior to matriculation at Utah State University may be used in a program of study for a graduate program at Utah State University
- Credits with Pass (P) grades may be transferred only with committee approval; some College of Engineering departments do not allow credits with a P grade
- Transfer credits do not count toward required residency credits
- Transfer credits are subject to approval of the supervisory committee and the Vice Provost of Graduate Studies
- Transfer credits are subject to the same time limit as Utah State University course credits
- Transfer credits will be shown on official Utah State University transcripts upon completion of the degree

11.12 Waiving Courses

Students who have previously taken a course similar to a core course in the program of study at a different institution may petition to waive that course to take another course. Prior approval must be obtained by the:

- Student's major professor
- Instructor of the course at Utah State University
- Students' graduate committee

Students must submit the following documents in consideration of the waiver:

- Syllabus of previous course taken, which is reviewed against the syllabus of the core course. The course instructor determines if the two classes are similar enough to qualify for a waiver
- Documentation of the final grade from the course. Student must have obtained a minimum grade of B for the class to qualify
- Supplemental materials as requested

Please note the following requirements regarding course waivers:

- Courses waived must be made up with a core class
- Students who are granted waivers must still earn the total credit hours required for their academic program
- Courses such as special topics and independent study will not be accepted
- Two course waivers maximum are allowed per student

11.13 Auditing Courses

Admitted students may register to audit a class, dependent on space, resource availability, and instructor approval. No credit or grade points will be granted. The regular tuition and course fees will be assessed. At no future time may students request or receive credit for the audited course by any other means than by officially registering for the course and doing the required work. Audit requests, approved by the instructor, must be submitted to the Registrar's Office, and tuition and fees must be paid before class attendance is permitted. Students are not permitted to register as auditors prior to the first day of classes for any given semester. The instructor's authorization must be submitted within three business days of being signed.

Students who are registered for a class and would like to change to an audit registration may do so through the Adding Classes deadline, which also coincides with the **Last Day to Drop without Notation on Transcript**. Students who drop after this period must receive a W (withdrawal) grade and may not register as an auditor.

11.14 Continuous Graduate Registration

Graduate students using university facilities or faculty time must be registered for a minimum of 3 graduate credits every semester (except summer semester) until completion of all degree requirements, except, in some cases, the semester of final thesis or dissertation approval (see below). Students employed as graduate assistants or graduate instructors during all semesters, except for summer semester, must be registered as full-time matriculated students. More than 3 credits of continuous registration may be required by a department. Continuous registration may be met with courses, seminars, independent study, research credit, or 6990 or 7990 (Continuing Graduate Advisement). The continuous registration requirement goes into effect the semester a student matriculates in the School of Graduate Studies.

A graduate student who is not using university facilities or faculty time may meet the continuous registration requirement by paying the Continuous Registration Fee of $100 per semester (not necessary for summer semester). This alternative requires a written request from the department head, including verification that the student is not using university facilities and/or faculty time. International students usually do not qualify to pay the Continuous Registration Fee because of immigration regulations.

The semester a student defends (or redefends) a thesis, Plan B paper, or dissertation or takes final oral examinations, he or she must be registered for at least 3 credits. Doctoral and master's Plan A, Plan B, and Plan C students will be given until the last day of the next semester (known as a "grace" semester) following the defense to finish degree requirements, and Plan C students will be given until the last day of the next semester after coursework completion to finish degree requirements. If a student has

not completed all degree requirements by the end of the grace semester, the student must pay a $100 Late Completion Fee for each semester following the grace semester. If working with faculty involves more than routine submission of the thesis or dissertation to the assistant dean, registration for 3 or more credits is required. After one year, re-defense may be required.

11.15 Academic Honesty and Research Misconduct

Maintaining the highest standards of academic honesty and research ethics is especially important at the graduate level, where students are expected to do original, scholarly work in preparation for future professional and academic roles. Academic dishonesty is defined in The Code of Policies and Procedures for Students at Utah State University (revised September 2009) Article VI, Section 1 to include cheating, falsification of information, and plagiarism. Violations of this policy will subject the offender to the university disciplinary procedures as outlined in Article VI, Section 3 of the Student Code, with the penalties or disciplinary measures to include one or more of the following:

- Probation: continued participation in an academic program predicated upon the student satisfying certain requirements as specified in a written notice of probation. Probation is for a designated period of time and includes the probability of more severe disciplinary penalties if the student does not comply with the specified requirements or is found to be committing academic integrity violations during the probationary period. The student must request termination of the probation in writing.
- Performance of community service.
- Suspension: temporary dismissal from an academic program or from the university for a specified time, after which the student is eligible to continue the program or return to the university. Conditions for continuance or readmission may be specified.
- Expulsion: permanent dismissal either from an academic program or from the university.
- Assigning a designation with a course grade indicating a violation involving academic integrity. Conditions for removal may be specified, but the designation remains on the student's transcript for a minimum of one year provided, however, once the student's degree is posted to the transcript, the designation may not be removed thereafter.
- Denial or revocation of degrees.

Research is a vital part of the education of any graduate student, and appropriate scientific and research conduct is required. An allegation of scientific misconduct involving funded research is handled through the Office of Research. If the research is not externally sponsored, the allegation is handled following The Code of Policies and Procedures for Students at Utah State University.

Research misconduct may be determined during a student's program or after the program is completed. If a student is found guilty of research misconduct, the penalty may include correction and reanalysis of data and/or rewriting of the thesis or dissertation, with resubmission and re-defense of the thesis or dissertation, and/or loss of financial assistance. If the misconduct is found to have been knowingly or deliberately committed, the penalty may include dismissal from a program or revocation of an awarded degree.

11.16 Time Limit

A Master of Science degree must be completed within six years of entering the degree program; a PhD degree must be completed within eight years of entering the degree program. Coursework that is more than eight years old may not be used for a graduate degree unless it is revalidated. If permitted by the departmental or interdepartmental degree program policy, a supervisory committee may allow revalidation, following a plan developed by the supervisory committee and approved by the Vice Provost of Graduate Studies. The results must be verified in writing to the Vice Provost by the student's major professor or other person(s) responsible for the revalidation. Work experience cannot be substituted for out-of-date coursework or used for revalidation, except where that work experience can be documented to have involved the use of current knowledge and application of material currently covered in the course.

Graduate credits from another institution that exceed the eight-year limit at the time of degree completion may be transferred to a Utah State University graduate degree only if the student's supervisory committee provides justification acceptable to the Vice Provost of Graduate Studies. The revalidation procedures described above will apply.

11.17 Institutional Training

Graduate students are required to complete specific training and have access to other opportunities to enhance academic and professional skills while networking with professors and peers outside the classroom. Graduate program coordinators and the School of Graduate Studies can provide more information regarding these trainings, including required trainings.

- New Graduate Student Orientation (required): Orientation may be held face-to-face or in the form of a Canvas course.
- Research Scholars Orientation: Typically occurs a week before the beginning of classes in the fall semester and immediately following the New Graduate Student Orientation. If in-person attendance is not possible, students can watch a video through Canvas and take a quiz.
- Fall Research Scholars Forum: Typically occurs during the fall semester. A Canvas video and quiz are available for students not able to attend in person.
- Spring Research Scholars Forum: Typically occurs in the spring semester. A Canvas video and quiz are available for students not able to attend in person.
- Responsible Conduct of Research Module (online): provided by the Collaborative Institutional Training Initiative (CITI).
- FERPA Training: Graduate students who will be participating as a teaching assistant in a course and will be handling grades are required to complete the online FERPA training.
- Student Sexual Misconduct Prevention Training: All incoming graduate students are required to take this online course during their first semester at USU.
- Employee Sexual Harassment Prevention Training. Graduate students who are Teaching Assistants or otherwise employed at the university are required to complete an online employee sexual harassment prevention training.
- USU 7920 Teaching Assistant Workshop for Graduate Teaching Assistants: This workshop is a zero-credit course mandatory for all graduate teaching assistants. Students must be registered before their funding will be processed. This class is online and is offered every semester. Graduate TAs are required to take this course only once.
- USU 6900 Research Integrity for Graduate Research Assistants and Undergraduate Researchers: The Research Integrity course provides an introduction to key topics of Responsible Conduct of Research, which helps students and researchers understand their responsibilities related to proper research conduct and the regulations that ensure research is scientifically sound, ethical, and safe. This understanding is critical for any career in scholarly research, whether in academics, government, or industry. The following students are required to complete the Research Scholars Certification program:
    - Graduate and undergraduate students as well as postdoctoral fellows who are supported through National Science Foundation funding
    - Trainees supported by some categories of grants from NIH, including training grants, development grants, and dissertation grants
    - Trainees supported through NIFA grants administered by the USDA

11.18 Degree Completion

It is the responsibility of each student to ensure that all degree requirements have been met and procedures are complete for their degree to be awarded. Graduate requirements vary based on the specific graduate degree and are time sensitive. Students are encouraged to work closely with their major professor and graduate program coordinator to ensure submission of forms, defense deadlines, and thesis or dissertation requirements are met.

12. Student Resources

The College of Engineering provides specialized academic, extra-curricular, and hands-on resources free of charge to help ensure academic and professional success.

12.1 Research Centers and Labs

The College of Engineering supports USU's mission as one of the nation's premier land-grant and space-grant universities through extensive groundbreaking research and innovation. Undergraduate and graduate students have the opportunity to work with acclaimed faculty in cutting-edge, funded research across all engineering departments. Research Centers and laboratories include the:

- Utah Water Research Laboratory (UWRL): Located on the Logan River, the UWRL provides research, testing, and training related to hydraulics, modeling, water resources planning, and management, and environmental and natural systems engineering.
- ASPIRE Engineering Research Center: ASPIRE, the only active ERC in Utah, is meeting the nation's electrified transportation challenges by facilitating electrification across all vehicle classes.
- Sustainable Waste-to-Bioproducts Engineering Center: The Center's goal is to develop new bio-based sustainable engineering technologies that convert waste into bioproducts
- Utah Transportation Center: One of 22 federal funded Tier II University Transportation Centers in the nation, the Center works to advance the understanding of transportation systems and infrastructure using state-of-the-art design tools and best practices in planning, design, operations, and management.
- Center for Space Engineering: Comprised of a multidisciplinary group of faculty who conduct research and engineering development through the Space Dynamics Laboratory (SDL), a unit of the USU Research Foundation. SDL works with the Department of Defense, scientific community, and industry in providing powerful remote and in situ sensing solutions as well as supporting NASA's vision to "reveal the unknown for the benefit of humankind."
- Thermohydraulics and Material Properties (TMP) Research Center: USU's TMP Center plays a major role regionally in nuclear engineering research and education through 11 active research faculty with interests in materials characterization and thermal hydraulics.
- Center for Advanced Imaging LADAR: A multidisciplinary team of faculty from engineering and physics conducts research and development of techniques to exploit imaging LADAR data.
- Sant Innovation Laboratories: This 44,000 square-foot space houses up to 20 state-of-the-art engineering labs, a class-1000 clean room, and USU's premier makerspace, the IDEA Factory.

13. Notice of Non-Discrimination

In its programs and activities, including in admissions and employment, Utah State University does not discriminate or tolerate discrimination, including harassment, based on race, color, religion, sex, national origin, age, genetic information, sexual orientation, gender identity, or expression, disability, status as a protected veteran, or any other status protected by university policy, Title IX, or any other federal, state, or local law.

Utah State University is an equal opportunity employer and does not discriminate or tolerate discrimination including harassment in employment including in hiring, promotion, transfer, or termination based on race, color, religion, sex, national origin, age, genetic information, sexual orientation, gender identity or expression, disability, status as a protected veteran, or any other status protected by university policy or any other federal, state, or local law.

Utah State University does not discriminate in its housing offerings and will treat all persons fairly and equally without regard to race, color, religion, sex, familial status, disability, national origin, source of income, sexual orientation, or gender identity. Additionally, the university endeavors to provide reasonable accommodations when necessary and to ensure equal access to qualified persons with disabilities.

For further information regarding non-discrimination, please visit the Office of Equity or contact the university's Title IX Coordinator.

FACULTY - College of Engineering Faculty

College of Veterinary Medicine

Location: Veterinary Medical Education (VME), Room 271 Administrative Suite
UMC: 5605
Phone: (435) 797-2515
E-mail: vetmed@usu.edu
Website: https://vetmed.usu.edu
Faculty and Staff Directory: https://vetmed.usu.edu/directory/index

Dean: Dirk Vanderwall, VME 278, (435) 797-9438, dirk.vanderwall@usu.edu

Associate Dean for Academic Programs: Heloisa Rutigliano, VME 260, (435) 797-9877, heloisa.rutigliano@usu.edu

Associate Dean for Clinical Programs: Kerry Rood, VME 250, (435) 797-1882, kerry.rood@usu.edu

Associate Dean for Research: Chris Davies, VME 272, (435) 797-1900, chris.davies@usu.edu

Department Head: Ralph Meyer, VME 386, (435) 797-1774, ralph.meyer@usu.edu

Academic Departments and Degrees:

Dean's Office, College of Veterinary Medicine: DVM degree

Department of Veterinary Clinical and Life Sciences (VCLS): MS, PhD, MPH degrees
https://vetmed.usu.edu/vcls/

Other Units:

Utah Veterinary Diagnostic Laboratory
https://www.usu.edu/uvdl/

The College of Veterinary Medicine (CVM) was approved by the state legislature in 2022 and admitted its inaugural cohort of 42 veterinary students in August 2025, at which time the college became provisionally accredited by the American Veterinary Medical Association-Council on Education. In the summer of 2026, the college moved into the new Veterinary Medical Education (VME) building, allowing the class size to increase to 80 veterinary students. The objective of the CVM is to positively impact every Utahn, and its mission to do that is clear and ambitious: To provide a state-of-the-art professional veterinary medical education leading to completion of the Doctor of Veterinary Medicine (DVM) degree; engage in leading-edge basic and clinical biomedical research; and serve the public and veterinary profession through continuing education, disease control, and outreach to serve the needs of animals and people in Utah and beyond. The CVM is dedicated to graduating exceptional veterinarians who are not only skilled practitioners but also compassionate professionals ready to take on the challenges of animal health with confidence and competence.

The CVM aims to serve the veterinary profession by addressing the state's evolving animal and public health needs. CVM graduates will bring their training and expertise to every corner of the state (and beyond), ensuring that both urban and rural communities benefit from advanced veterinary care. Rural development and sustainability are at the heart of its mission. By fostering veterinary skills and knowledge, the CVM will support the livestock production and equine industries, ensuring these important sectors continue to thrive and contribute to our state's economy and deeply rooted heritage. In addition, with its commitment to innovative veterinary and biomedical research, the CVM and USU more broadly will be increasingly involved in discoveries that improve animal health, advance medical knowledge, and contribute to Utah's growing biomedical industry. Through its Department of Veterinary Clinical and Life Sciences (VCLS), the CVM offers MS and PhD degrees in Biomedical Sciences, and graduate students in those programs engage in cutting-edge research across 7 different areas. Guided by their major professor, graduate students in the program work on research projects that include clinical investigation, basic research and development, and other related activities to prepare them for career options in a variety of scientific fields. In collaboration with the S.J. & Jessie E. Quinney College of Agriculture & Natural Resources, the CVM offers a fully online Master of Public Health (MPH) degree with an emphasis in Veterinary Public Health.

Through the Utah Veterinary Diagnostic Laboratory (UVDL), which is a partnership with the Utah Department of Agriculture and Food, the CVM is on the front lines of protecting animal health throughout Utah and the broader Intermountain Region. The purpose of the UVDL is to provide timely, in-depth, cost-efficient, veterinary diagnostic services to safeguard animal health, protect the agricultural economy, and shield the public against zoonotic diseases (diseases transmissible from animals to humans). By fulfilling those roles, the UVDL serves practicing veterinarians, personnel in regulatory state and federal governmental positions, public health officials, and animal owners.

FACULTY - College of Veterinary Medicine Faculty

Emma Eccles Jones College of Education and Human Services

Dean: Alan L Smith
Location: Emma Eccles Jones Education Building, Room 109
Phone: (435) 797-0634 | **E-mail:** amber.summers@usu.edu
Website: cehs.usu.edu

Executive Associate Dean: Shawn Whiteman, Education 109, (435) 797-9184, shawn.whiteman@usu.edu
Associate Dean for Research: Stephanie Borrie, Education 453A, (435) 797-1388, stephanie.borrie@usu.edu
Associate Dean for Graduate Studies: Jody Clarke-Midura, Education 213, (435) 797-0571, jody.clarke@usu.edu
Associate Dean for Faculty Development and Clinical Programs: Gretchen Peacock, SCCE 457, (435) 797-0721, gretchen.peacock@usu.edu
Associate Dean for Accreditation and Undergraduate Studies: Sylvia Read, Education 101, (435) 797-2714, sylvia.read@usu.edu

Academic Departments and Degrees

The Emma Eccles Jones College of Education and Human Services has the following departments, which offer the degrees shown:

Human Development and Family Studies - CERT, BS, BA, MS, MHDFS, MMFT, PhD
Kinesiology and Health Science - BS, MS, MEd, MHP, MFP, MPH, PhD
Instructional Technology and Learning Sciences - BS, MA, MEd, MS, EdS, PhD
Nursing - CERT, AAS, BSN, RN to BSN (online program)
Psychology - BS, BA, MEd, MS, EdS, PhD
Speech and Hearing Sciences - BS, BA, MS, MA, MEd, AuD, PhD
Special Education and Rehabilitation Counseling - BS, BA, MEd, MS, MRC, EdS, EdD, PhD
Teacher Education and Leadership, School of - CERT, BS, BA, MEd, MS, EdS, EdD, PhD

In addition, the college offers the following degrees:

General Studies - Human Services Major - BS, BA
Interdisciplinary Human Services Studies Major - BS, BA

The Emma Eccles Jones College of Education and Human Services provides preparation programs for prospective teachers, counselors and other professional personnel in education, and professionals in human services areas as well as corporate settings. Students are urged to refer to the more detailed descriptions of departmental programs, majors, and areas of specialization contained in this catalog.

The Emma Eccles Jones College of Education and Human Services participates in the Interdisciplinary Studies Major and General Studies Major, which offers flexibility for qualifying students who cannot identify an existing degree that meets their needs.

Accreditation

Utah State University is accredited by the Association for Advancing Quality in Educator Preparation and approved by the Utah State Board of Education. Students who are licensed to teach in the State of Utah may qualify for licensure in other states and the District of Columbia. Additional program accreditations include: Accreditation Commission for Education in Nursing, American Psychological Association, Commission on Accreditation for Marriage and Family Therapy Education, Council on Academic Accreditation in Audiology and Speech-Language Pathology, Council for the Accreditation of Counseling and Related Educational Programs, and Council on Education for Public Health.

University Studies Requirements

All students graduating from the Emma Eccles Jones College of Education and Human Services must complete the USU University Studies Depth Requirements.

Admission Requirements to Teacher Education

Students wishing to enter the teacher education programs at Utah State University must formally apply for admission and be approved by the Office of the Associate Dean of Accreditation and Undergraduate Studies as well as by the department in which the teaching major is being offered. All applicants are required to pass a criminal background check, meet minimum course grades for prerequisites and throughout the program and exit with a 3.00 overall GPA. Individual departments may also have additional admission requirements. Students are not permitted to enroll in the teacher education professional core classes prior to being admitted to a teacher education program.

Detailed information about admission to teacher education programs should be obtained from a departmental advisor or from the Office of the Associate Dean for Accreditation and Undergraduate Studies.

Teacher Licensing

The Dean of the Emma Eccles Jones College of Education and Human Services is assigned responsibility for the development, approval, and administration of teacher licensing requirements for students.

The Emma Eccles Jones College of Education and Human Services currently offers preservice teacher preparation leading to licensure in over 40 different areas, including early childhood education, elementary education, secondary education, and special education. In addition, advanced programs leading to professional licensure are available for administrators, supervisors, school counselors, school psychologists, school library media specialists, speech-language pathologists, audiologists, educators of the deaf, and specialists in special education. In addition, early childhood, elementary, and special education candidates must take the Utah Foundations of Reading test order to be recommended for licensure.

Facilities

The Edith Bowen Laboratory School is an elementary charter school on the university campus, serving as a research, demonstration, and teacher preparation site. The school enrolls approximately 300 K-6 children annually.

The Emma Eccles Jones Early Childhood Education and Research Center provides educational experiences and resources for teachers and parents that reflect the most current understanding of the social, emotional, physical, and cognitive needs of children in pre-kindergarten, kindergarten, and the primary grades.

Sound Beginnings at Utah State University is an early education program that provides home and center-based services to children with a diagnosed hearing loss whose families want their children to learn to listen and speak.

The Sorenson Legacy Foundation Center for Clinical Excellence (SCCE) provides services for mental health, speech and hearing, and developmental assessment and treatment. It also houses the ASSERT preschool program, the Up to 3 program, the Aggies Elevated program, and housing and financial counseling programs. Integration of clinics and laboratories strengthens interdisciplinary research and enables clinical training as well as supporting clinical services.

The Institute for Disability Research, Policy, and Practice is Utah's university center for excellence in developmental disabilities. Its programs offer students opportunities to participate in multidisciplinary education, research, and service. Students complete clinical and field experiences and may receive financial support through assistantships, internships, stipends, or employment.

The Center for the School of the Future collaborates with education, business, and government to influence policy and practice with the goal of equity for student learning outcomes. The Center also serves as a clearinghouse for validated practices, research findings, educational services, and teaching resources for the improvement of education in pre-kindergarten, kindergarten, and the primary grades.

FACULTY - Emma Eccles Jones College of Education and Human Services

Jon M. Huntsman School of Business

Dean: Douglas D. Anderson
Location: Huntsman Hall 488
Phone: (435) 797-0887 | **FAX:** (435) 797-3929
Website: huntsman.usu.edu

Senior Associate Dean and Professor: Frank Caliendo, HH 484, (435) 797-2963, frank.caliendo@usu.edu

Associate Dean for Academic Affairs and Associate Professor: Brad Lindsey, HH 483, (435) 797-4126, brad.lindsey@usu.edu

Assistant Dean for Student Affairs: Kristyn Allred, GLLB 311, (435) 797-1558, kristyn.allred@usu.edu

Director of FJ Management Center for Student Success: Ruth Loveland, EBB 309, (435) 797-2272, ruth.loveland@usu.edu

Master's Programs Contact:

- MBA, Brad Winn, EBB 315B, (435) 851-2002, brad.winn@usu.edu
- MFE, Todd Griffith, EBB 610, (435) 797-9098, todd.griffith@usu.edu
- MSE, Lucas Rentschler, EBB 508, (435) 797-2397, lucas.rentschler@usu.edu
- MDATA - MIS Specialization, Zsolt Ugray, EBB 716, (435) 797-8132, zsolt.ugray@usu.edu
- MDATA - Economics & Finance Specialization, Todd Griffith, EBB 610, (435) 797-9098, todd.griffith@usu.edu
- MHR, Chris Hartwell, EBB 302A, (435) 797-5782, chris.hartwell@usu.edu
- MMIS, Zsolt Ugray, EBB 716, (435) 797-8132, zsolt.ugray@usu.edu
- MAcc, Devon Erickson, EBB 808, (435) 797-2993, devon.erickson@usu.edu

Academic Departments

The Jon M. Huntsman School of Business includes the academic departments listed below. Information about degrees and curriculum options are listed in the departmental sections of this catalog.

Data Analytics and Information Systems Department
Economics and Finance Department
Management Department
Marketing and Strategy Department
School of Accountancy

Degrees Offered

Majors: Bachelor of Science (BS) and Bachelor of Arts (BA) in Accounting, Data Analytics, Economics, Finance, Information Systems, Management, and Marketing.

Undergraduate Minors: Accounting, Business, Consulting, Economics, Entrepreneurship, Finance, Hotel Management, Human Resource Management, International Business, Leadership and Management, Management Information Systems, Marketing, Marketing Design, Operations and Supply Chain Management, People and Organizations, Personal Financial Planning, Quantitative Finance, Real Estate, and Technical Sales Management.

Graduate Programs: Master of Accounting (MAcc), Master of Business Administration (MBA), Master of Data Analytics (MDATA), Master of Science in Economics (MSE), Master of Financial Economics (MFE), Master of Human Resource (MHR), and Master of Management Information Systems (MMIS).

Student Opportunities (Experiential Learning and Clubs)

The Huntsman School provides students a wide variety of opportunities to gain business experience, make meaningful connections, and put their ever-increasing knowledge to the test outside the classroom. Students benefit from participating in Huntsman School clubs, engaging with some of the many programs, centers, and experiences offered in the Huntsman School, attending Focused Friday events, and completing internships which provide valuable hands-on experience.

Accreditation

Huntsman School of Business programs in business and accounting are accredited by AACSB International—The Association to Advance Collegiate Schools of Business. AACSB is the premier accrediting association for business and accounting programs.

Assessment

Full details of the learning objectives, assessment plan, student outcomes, and evidence of continuous improvement for these programs of study can be found here.

Mission

Our mission is to develop leaders of distinction in commerce and public affairs.

Vision

As we make strategic decisions in the Jon M. Huntsman School of Business, we aspire to see our investments pay off in the lives of our students. When our students graduate, they will be prepared to add immediate value to the organizations where they work and to practice ethical and responsible leadership in the organizations and community where they choose to serve.

Our students will be identified by the following:

- A strong commitment to ethical leadership
- A sense of purpose and place engendered by global vision
- An ability to create and leverage value through their understanding of entrepreneurial processes
- A mastery of applied and conceptual analytical frameworks

Purpose

Our purpose is to be an engine of growth for our community, the state, the nation, and the world, and to be a career accelerator for our students.

Financial Assistance

The Huntsman School offers a variety of scholarships to undergraduate students. Each graduate program has unique scholarships, fellowships, assistantships, and waivers that are available. Details about offerings are available at http://huntsman.usu.edu/scholarships

Undergraduate Program Requirements

Admission and Graduation Requirements

First-Year and Transfer Students can be admitted to the Huntsman School of Business based on USU's Admission Requirements.

Current USU students in good standing qualify for admission to the Huntsman School of Business and to majors within the Huntsman School.

Huntsman School Admission Details: https://huntsman.usu.edu/undergraduate/apply

Enrollment Restrictions

Many Huntsman School courses have prerequisites and other restrictions requiring adherence. Before registering for courses within the Huntsman School, students should refer to course listings in this catalog or consult with their advisor to ensure they have completed the necessary prerequisites.

USU Credits and Business Credits

At least 30 of the last 60 semester credits must be taken from Utah State University, at least 20 of which must be completed in upper-division courses, of which at least 10 credits must be completed in courses required by the student's major. At least 50 percent of the Huntsman School of Business credits required for a Huntsman School of Business degree must be taken from the Utah State University Huntsman School of Business or its departments, which include: Data Analytics and Information Systems Department; Economics and Finance Department; Management Department; Marketing and Strategy Department; and School of Accountancy.

Optional P/D+, D, F Grade Restriction

This option is not available for any required courses for majors and minors in the Huntsman School of Business.

Huntsman School of Business Stop-out Policy

Students with a break in attendance of Huntsman School of Business programs in excess of one year will be subject to the Huntsman School and departmental requirements in effect at the time of their return.

Graduation

To earn a bachelor's degree in a Huntsman School of Business major, a student must have a C or better in HSB business acumen courses and an overall GPA of 2.0 and a 2.5 major GPA. In addition, at least 50 percent of the required Huntsman School of Business credits must be earned from coursework taken from the Utah State University Huntsman School of Business. Students must satisfy all university, Huntsman School, and departmental major requirements to be eligible for graduation. Refer to appropriate sections of this catalog for details.

Minors in Other Business Subjects

Minors are available in other business subjects, as indicated in departmental sections of this catalog.

FACULTY - Jon M. Huntsman School of Business

School of Graduate Studies Catalog | 2026-2027 Academic Year

Vice Provost of Graduate Studies: David Feldon
Associate Vice Provost of Graduate Studies: Susannah French

Location: Old Main Building 164
Phone: (435) 797-1189
Website: School of Graduate Studies

Graduate Degrees and Majors
For a list of graduate programs offered at Utah State University, please review the Degree Finder.

NOTE: Within the text of this Catalog, the abbreviation SGS denotes School of Graduate Studies.

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Section 1. Graduate School Admissions Policies

It is expected that all graduate admissions applications submitted by the program's deadline will be reviewed by the department.

1.1 Application Requirements

The following items **must** be received by the School of Graduate Studies before an applicant's graduate admission application (this application process is the same for graduate certificates) will be considered complete:

A Bachelor's Degree

A bachelor's degree (or, for some doctoral programs, a master's degree), that is or will be completed before the student matriculates in the academic department, from an accredited U.S. college or university or a similarly recognized international university is required for admission to a graduate program.

Three-year bachelor's degrees from accredited or similarly recognized institutions are accepted with the approval of the academic department and the School of Graduate Studies Admissions Director.

Note for International Applicants: The School of Graduate Studies does not accept Higher National Diplomas (HNDs).

A 3.0 or Higher Grade-Point Average

The School of Graduate Studies will calculate GPAs based on the applicant's **cumulative undergraduate GPA**. 30 graduate credits will be taken from an earned graduate degree or degree in progress. **NOTE**: We do not use post-baccalaureate credits to calculate a GPA.

Application Fee

The School of Graduate Studies requires a **$55 ($25 for graduate certificates) nonrefundable application fee** that must be paid electronically via debit/credit card at the time of the application submission. Any other payment method **will not** be accepted.

Refunds are not given for incomplete applications or for non-admittance to a graduate program.

NOTE: Paying the application fee does not guarantee admission to a graduate program.

Application fees will be waived for McNair Scholars and active USU Honors students.

Application Fee Waivers

The School of Graduate Studies does not give out application fee waivers to applicants.

Supplemental Application Materials:

Three Letters of Recommendation

If the applicant has been enrolled in school during the last five years, at least two of the letters must come from individuals who are familiar with and can make an authoritative assessment of the applicant's recent academic performance. The School of Graduate Studies cannot fill out or edit a letter of recommendation request form. The School of Graduate Studies must receive letters of recommendation from the recommender directly and cannot accept copies submitted by the applicant.

Official Transcripts

For admission, the School of Graduate Studies requires official transcripts from each previously attended college and/or university (except Utah State University).

This includes official college transcripts for any concurrent enrollment credit earned if it is not already on the applicant's undergraduate transcript.

Transcripts are considered official when they are:

Sent directly to the USU School of Graduate Studies by mail (see mailing address below) from the applicant's previous institution(s). Sent directly to the USU School of Graduate Studies by email from the applicant's previous institution(s) to graduateadmissions@usu.edu

Submitting Official Transcripts

If an applicant is accepted into a program and matriculates at USU, official copies sent directly from each issuing institution to the School of Graduate Studies will be required within the first semester of attendance. Any student that does not provide official transcripts within the allotted timeframe will have a hold put on their student account by the end of their first semester, preventing future course registration. **This hold will be removed when the School of Graduate Studies receives the student's official transcript with the degree verification.**

Note for International Applicants: Transcripts **not in English** must be accompanied by a notarized translation.

The USU School of Graduate Studies will need a copy sent to us from the applicant's institution, and if the institution does not translate them, then the applicant will need to have a copy sent to a certified translation company.

Companies such as WES and SPANTRAN are frequently used by International Applicants for notarized translation and certifications. Applicants cannot submit transcripts that they translated by themselves, or that were not translated by their school, or a certified translation company and have them considered official.

USU alumni do not need to provide USU transcripts; the School of Graduate Studies will pull them for the applicant.

Any exceptions to the official transcript policy will be based on a departmental review of the applicant's circumstances and materials.

Methods to Submit Official Transcripts

Official transcripts from the applicant's previous institution(s) can be sent to **Utah State University School of Graduate Studies** through mail or email. The applicant or student may also have their official transcripts submitted through the electronic clearinghouse or the official transcripts may be dropped off in person by the applicant or student in a sealed, unopened envelope from the previous institution(s) (see below).

Official transcripts can be mailed to:

Utah State University

School of Graduate Studies
0900 Old Main Hill
Logan, UT 84322-0900

Official transcripts can be emailed to:

graduateadmissions@usu.edu

If by electronic clearinghouse:

Please select: Utah State University School of Graduate Studies Logan, UT, U.S.

Official transcripts may be brought in person by the applicant or student:

The official transcripts in a **sealed, unopened envelope from the previous institution(s)** may also be dropped off by the applicant or student in person, to the School of Graduate Studies Office in the Old Main Building, room 164.

For questions regarding official transcripts, please contact the Utah State University Graduate Admissions Office at graduateadmissions@usu.edu

English Language Proficiency for International Applicants

International applicants are required to submit proof of proficiency in the English language.

Applicants who have completed two or more years of college in one of the countries listed on the Graduate Admissions Policies & Procedures website, and the primary language of instruction is English, are considered proficient in the English language and will not be required to provide additional evidence of English language proficiency.

For applicants that did not attend a minimum of two years in one of the countries listed on the website, the English proficiency requirement can be fulfilled in a few ways:

Applicants that attended schools in countries outside of the list that have English as the official language of instruction may request a letter from their previous institution's registrar's office and have it sent directly to the School of Graduate Studies.

This requirement can also be fulfilled if English is clearly listed as the language of instruction on an official transcript.

Applicants can take one of the approved English Proficiency exams listed below. Applicants should request that the testing agency send official exam scores directly to Utah State University.

TOEFL internet-based (iBT) exam score of 79 or paper-based exam score of 550.

The institution school code for Utah State University is 4857. *

IELTS score of 6.5 overall band score with a minimum of 5.0 on each subscale. *

The Michigan English Test (MET) score of 55.

Cambridge English Exam results of B2 First, C1 Advanced, or C2 Proficiency score of 176.

The School of Graduate Studies accepts Duolingo English test scores as a measurement of English language proficiency. NOTE: Duolingo English Test (DET) score of at least 105.

*All language scores must be official and sent to Utah State University from the testing center where the student took the exam. The Office of Global Engagement and the School of Graduate Studies Admissions Team will be able to access it from there. Scores more than 2 years old are not accepted.

Note on I-20 Applications (International Applicants):

The process for the I-20 begins with the Office of Global Engagement **after** a student is admitted and accepts their offer of admission through their application portal. Because of immigration regulations, international students cannot be admitted to provisional matriculation.

Please contact the Office of Global Engagement with further questions about the I-20.

NOTE: Some degree programs may have additional application requirements. Applicants should refer to their intended program for questions about any required tests, minimum required scores, statement of purpose, any accepted test score alternatives (such as a portfolio), and any other required application materials.

1.2. Application Deadlines

Graduate admissions application deadlines are program specific.

1.3. Application Procedures

Graduate admissions applications are submitted online in the application portal.

1.4 Application Edits

Edits to a graduate admissions application **can only be made before** an application is sent to the department for review. To make changes, applicants can send an email to graduateadmissions@usu.edu. **NOTE:** Once the application has been sent to the department, the School of Graduate Studies is no longer able to make changes to the application.

1.5. Closing Inactive Applications

Applications that have had no activity for 90 days (approximately three months) after the application due date are considered inactive and will be closed. Once an application is closed, it cannot be reopened or considered for future application seasons.

If for any reason an application will not be complete within the three-month period, applicants should contact graduate admissions to ask for a deferment of their application.

It is the applicant's responsibility to defer their application in order to keep it open for another term.

1.6. Using Old Application Materials

The School of Graduate Studies requires all applicants to submit new application materials for each application submitted. This includes transcripts, letters of recommendation, and test scores. **NOTE:** Only official transcripts will be transferred if they are within two years of being submitted to the School of Graduate Studies.

1.7. Deferment

Deferments are available for students who 1.) need to delay their admission to the university or for 2.) those who need to extend their application period.

Students who have accepted their offer of admission and have been admitted to the university have the option to defer their start date. General acceptance into a program may be deferred for up to 1 year. Any amount of time beyond that is subject to approval by the Department, and the Vice Provost for the School of Graduate Studies.

Note for International Applicants: Please be aware that deferment for more than one year may require you to obtain a new I-20. For questions about a deferment as an international student, please contact the Office of Global Engagement.

To obtain a start-date deferral, students must contact their graduate program coordinator. Students have until the end of the semester of their entry term to defer their start date. If they do not take classes or request a deferral before this date, they will have to reapply in the next application cycle for a USU graduate program. Unfinished applications are closed 90 days after the end of the desired entry term. Once an application has been closed, applicants are required to reapply.

Leaves of absence are also available for students who have already completed classes at USU but need to take a break from their graduate program.

Section 2. Graduate Assistantships

A variety of assistantship opportunities are available to graduate students, and all are offered through individual colleges and departments. Students should check with their department to see what assistantships are available. All graduate assistantships entail a stipend and typically includes tuition support, and they are classified as P03 positions within the university employment system. However, different types of assistantships have differing elements, detailed below. Minimum stipend and compensation requirements are determined by the School of Graduate Studies.

2.1. Graduate Assistantship Position Overview

Graduate Assistantships are broken down into a few different positions:

Graduate Research Assistant

Graduate Trainee (Clinical, Library)

Graduate Teaching Assistant

Graduate Instructor

These positions are defined as follows:

Graduate Research Assistant

A graduate research assistant is a graduate student assigned to work under faculty guidance on one or more research projects. Research assistantships are granted through departments. Payment is a living stipend for the period of training. It is not an hourly rate or compensation for work.

Responsibilities:

Work on research projects under faculty guidance. Responsibilities cannot include clinical work or those expected of a teaching assistant, instructor, or grader.

Payment Structure and Performance:

Lump sum stipend disbursed according to the university pay schedule. RAs demonstrating poor performance may be evaluated negatively. Supervisors must provide clear feedback on problematic performance and provide guidance for performance improvement. RAs cannot have their stipend or tuition support rescinded, cancelled, or modified, regardless of absences or performance quality. Further, work associated with a research assistantship cannot be required past the semester of assistantship. However, a research assistantship does not need to be renewed following a semester of poor performance.

If a GRA resigns or otherwise voluntarily initiates termination of their assistantship prior to the scheduled date of position completion for the semester, disbursement of stipend will stop on the date that the resignation or student-initiated termination takes effect. Beginning on the effective date, the student will no longer be considered a trainee, so their total stipend awarded to support living expenses during the training period will be recalibrated to reflect their proportionate participation.

Absence Policy:

Excused absences mirror university hourly employee leave standards. A 0.5 FTE GRA is entitled to 12 hours of excused absences per semester. A 0.25 FTE GRA is entitled to 6 hours of excused absences per semester. Additional absences may be excused at the discretion of the supervisor provided that such decisions are made equitably for all assistants reporting to the supervisor.

Stipulations:

Complete required trainings, including Responsible Conduct of Research.

Health insurance (auto-enrolled in subsidized plan). Limited to 20 work hours per week during the academic year, unless granted a waiver by SGS up to 10 additional hours per week.

Required Terms:

Semester-based appointments only (Fall, Spring, Summer). First day of work = first day of semester; last day of work = last day of semester. NOT obligated to work during non-academic periods or university holidays. May choose to work more than required hours at own volition but cannot be negatively evaluated for choosing not to do so. Assistantship time and effort are separate from activities for which academic credit is received. Time and effort allocated to writing for publication may or may not be considered part of the assistantship. This should be determined in advance by the supervisor and the student.

Graduate Trainee

A Graduate Traineeship (GTR) is for a student to apply theoretical knowledge to real-world practice and gain hands-on experience. Work is done under the direction of an experienced faculty member. Payment is a living stipend for the period of training. It is not an hourly rate or compensation for work.

Responsibilities:

Work is done under the direction of an experienced faculty member in a clinical setting for which supervised professional experience is a foundational component of training in the profession.

Responsibilities cannot include research or the duties of a teaching assistant, instructor, or grader.

Payment Structure and Performance:

Lump sum stipend disbursed according to the university pay schedule.

Trainees demonstrating poor performance may be evaluated negatively. Supervisors must provide clear feedback on problematic performance and provide guidance for performance improvement. In consultation with the department head, trainees with extremely poor performance or poor performance that persists after good faith efforts at feedback and remediation by the supervisor are complete may not have their assistantship renewed for the following semester. Students do not need to repay either tuition or stipend.

If a GTR resigns or otherwise voluntarily initiates termination of their traineeship prior to the scheduled date of position completion for the semester, disbursement of stipend will stop on the date that the resignation or student-initiated termination takes effect. Beginning on the effective date, the student will no longer be considered a trainee, so their total stipend awarded to support living expenses during the training period will be recalibrated to reflect their proportionate participation.

Absence Policy:

Excused absences mirror university hourly employee leave standards. A 0.5 FTE GTR is entitled to 12 hours of excused absences per semester. A 0.25 FTE GTR is entitled to 6 hours of excused absences per semester. Additional absences may be excused at the discretion of the supervisor provided that such decisions are made equitably for all assistants reporting to the supervisor.

Stipulations:

Complete required trainings. Health insurance (auto-enrolled in subsidized plan). Limited to 20 work hours per week during the academic year, unless granted a waiver by SGS up to 10 additional hours per week.

Terms:

The Department has discretion over start and end dates. May be required to start before semester and/or continue work after the semester. Start dates for a semester may be no earlier than the day following the last day of the prior semester, and end dates may be no later than the day prior to the first day of the following semester (e.g., a GTR for Fall semester can encompass, at maximum, dates from the day after the close of the preceding Summer semester to the day before first day of the Spring semester).Must report during assigned employment period. All university holidays apply.

Graduate Teaching Assistant

A graduate teaching assistant (GTA) is a graduate student assigned to assist one or more faculty with instruction. A GTA may lecture in a course occasionally, tutor students, or assist in some other teaching capacity, such as teaching a lab or recitation session under faculty supervision. A position that entails only grading without instructional responsibilities (i.e., grader) is not eligible to be a GTA.

Responsibilities:

Assist faculty with instruction. Lectures occasionally, tutor students. Leads lab/recitation sessions under faculty supervision. Helps to prepare courses before semester begins. Responsibilities cannot include those of a research assistant or trainee.

Payment Structure and Performance:

Paid according to the university pay schedule as an employee. TAs demonstrating poor performance may be evaluated negatively. Supervisors must provide clear feedback on problematic performance and provide guidance for performance improvement. In consultation with the department head, TAs with extremely poor performance or poor performance that persists after good faith efforts at feedback and remediation by the supervisor are complete may be removed from their position. Removal will entail a stop in pay, but tuition support cannot be rescinded. Students do not need to repay either compensation already received or tuition in the event of termination.

Absence Policy:

Excused absences mirror university hourly employee leave standards. A 0.5 FTE GTA is entitled to 12 hours of excused absences per semester. A 0.25 FTE GTA is entitled to 6 hours of excused absences per semester. Additional absences may be excused at the discretion of the supervisor provided that such decisions are made equitably for all assistants reporting to the supervisor.

If absences are able to be anticipated (i.e., not used for illness or emergent medical issue), then they must be scheduled in advance with the supervisor and coordinated to ensure TAs' responsibilities are met to the greatest extent possible. If absences are not able to be anticipated (e.g., due to illness or other emergency), TAs will communicate with their supervisor as soon as possible to inform them of the absence and anticipated return.

Assistantship Stipulations:

Complete required trainings, including CEUS 7901 and 7902.

Health insurance (auto-enrolled in subsidized plan). Limited to 20 work hours per week during the academic year, unless granted a waiver by SGS up to 10 additional hours per week.

Terms:

The Department has discretion over start and end dates. May be required to start before semester (e.g., for class preparation). Start dates for a semester must be after the last day of the prior semester, and end dates must be no later than the deadline for submitting course grades.

Must report during assigned employment period. Teaching Assistant Consensual Relationship Policy applies (see below). All university holidays apply. Can be suspended or terminated.

Graduate Instructor

A graduate instructor (GI) is a graduate student who is the instructor of record for one or more courses for an entire semester.

Responsibilities:

Teaches a course (1) at the undergraduate level; or (2) at the master's level if, and only if, the instructor holds a master's degree at the time of instruction. Responsibilities cannot include those of a research assistant or graduate trainee.

Payment Structure and Performance:

Paid according to the university pay schedule as an employee. Graduate instructors demonstrating poor performance may be evaluated negatively. Supervisors must provide clear feedback on problematic performance and provide guidance for performance improvement. In consultation with the department head, graduate instructors with extremely poor performance or poor performance that persists after good faith efforts at feedback and remediation by the supervisor are complete may be removed from their position. Removal will entail a stop in pay, but tuition support cannot be rescinded. Students do not need to repay either compensation already received or tuition in the event of termination.

Absence Policy:

Excused absences mirror university hourly employee leave standards. A 0.5 FTE GI is entitled to 12 hours of excused absences per semester. A 0.25 FTE GI is entitled to 6 hours of excused absences per semester. Additional absences may be excused at the discretion of the supervisor provided that such decisions are made equitably for all assistants reporting to the supervisor.

If absences are able to be anticipated (i.e., not used for illness or emergent medical issue), then they must be scheduled in advance with the supervisor and coordinated to ensure GIs' responsibilities are met to the greatest extent possible. If absences are not able to be anticipated (e.g., due to illness or other emergency), GIs will communicate with their supervisor as soon as possible to inform them of the absence and anticipated return.

Assistantship Stipulations:

Complete required training, including CEUS 7901, 7902, and 7903.

Health insurance (auto-enrolled in subsidized plan). Limited to 20 work hours per week during the academic year, unless granted a waiver by SGS up to 10 additional hours per week.

Terms:

The Department has discretion over start and end dates. May be required to start before semester (e.g., for class preparation). Start dates for a semester must be after the last day of the prior semester, and end dates must be no later than the deadline for submitting course grades.

Must report during assigned employment period. Teaching Assistant Consensual Relationship Policy applies (see below). All university holidays apply. Can be suspended or terminated.

2.2. Eligibility

To be eligible for a 20 hour/week (0.5 FTE) assistantship, full-time enrollment is required (6+ credits during coursework; 3+ after coursework with Full Time at 3 Credits form).

To be eligible for a 10 hour/week (0.25 FTE) assistantship, full-time enrollment is not required.

2.3. Conditions & Stipulations

Students with Multiple Assistantships

Students may hold multiple assistantships at once as long as the total hours per week across all positions does not exceed 20 (or 30 with a waiver from the School of Graduate Studies). Each assistantship must be processed separately with its own Electronic Personnel Action Form (EPAF). For example, a student with both 0.25 FTE (10 hours weekly) of GRA and 0.25 FTE (10 hours weekly) of GTA would have two separate EPAFs submitted by the supervising department(s)—one for the GRA and one for the GTA.

Graduate Student Health Insurance

All graduate students on a 0.5 FTE assistantship are required to have health insurance. Utah State University automatically enrolls students on a 0.5 FTE assistantship in a subsidized health insurance plan. Students may request to waive out of the subsidized graduate insurance if they have their own insurance coverage that has been approved by the Student Health Insurance Coordinator.

Students who do not opt out by the deadline will be required to pay the premiums for the duration of the plan. Please contact the Student Health Insurance Coordinator at ship@usu.edu for more information.

All Graduate Research Assistants, Graduate Trainees, Graduate Teaching Assistants, and Graduate Instructors must work at least one month during the semester to qualify for the graduate health insurance plan. If a student's assistantship or traineeship ends before the completion of one month, the student does not qualify for the plan, and no premium is assessed to either the student or the department. Once a student meets the 1month minimum, they are eligible for coverage for the entire semester, and both the student and the hiring department are responsible for the full semester premium. If a department terminates a GTA or graduate instructor before the end of the semester, the department remains responsible for its full portion of the premium. If a student resigns or self-terminates before the end of the term, the department is still obligated to pay the full departmental share for that semester.

Departments that require students to sign a Subsidized Graduate Insurance Agreement may recover the departmental portion directly from the student; however, the School of Graduate Studies does not collect these funds on behalf of departments.

Credit Limit

Graduate students with assistantships cannot register for more than 12 credits per semester.

Teaching Assistant Consensual Relationship Policy

Based on USU Policy 4006.9.1, the university's educational mission is promoted by professionalism. Professionalism is fostered by an atmosphere of mutual trust and

respect. Actions that harm this atmosphere undermine professionalism and hinder fulfillment of the university's educational mission. Trust and respect are diminished when those in positions of authority abuse or appear to abuse their power. Those who abuse or appear to abuse their power in such a context violate their duty to the university community.

Graders, graduate teaching assistants, and graduate instructors exercise power over students, whether in giving them praise or criticism, evaluating them, making recommendations for their further studies or their future employment, or conferring any other benefits on them. Amorous relationships between graders, graduate teaching assistants, or graduate instructors and other students are not acceptable to the university when the grader, graduate teaching assistant, or graduate instructor has professional responsibility for the student. Such situations greatly increase the chances that the grader, graduate teaching assistant, or graduate instructor will abuse their power and sexually exploit the student. Voluntary consent by the student in such a relationship is suspect, given the fundamentally asymmetric nature of the relationship. Moreover, other students and faculty may be affected by such unprofessional behavior because it places the grader, graduate teaching assistant, or graduate instructor in a position to favor or advance one student's interest at the expense of others and implicitly makes obtaining benefits contingent on amorous or sexual favors. Therefore, the university will view it as unprofessional conduct if graders, graduate teaching assistants, or graduate instructors engage in amorous relations with students in certain situations, even when both parties appear to have consented to the relationship.

No grader, graduate teaching assistant, or graduate instructor shall have an amorous

relationship (consensual or otherwise) with a student who is enrolled in a course in which the grader, graduate teaching assistant, or graduate instructor has responsibilities related to any of those roles.

Section 3. Student Classifications

3.1. Matriculated Graduate Students

Matriculated Graduate Students are those accepted by a department, with the approval of the Vice Provost of Graduate Studies, into a graduate degree program. A student may be accepted on a **conditional** basis.

Conditional acceptance is granted when a student has prerequisites that need to be addressed.

The conditions and deadline for satisfying these requirements must be provided to the student by the department to which the student is accepted. Failure to meet these conditions may result in termination from the program.

A **full-time matriculated graduate student** must be one of the following:

Registered for 9 or more graduate credits.

Registered for 6 or more graduate credits if employed as a graduate assistant for 15 hours or more per week.

Registered for 3 graduate credits* meeting one of the following:

- All coursework is complete, with only the research component (thesis or dissertation) remaining.
- The semester of final thesis, Plan B paper/project, or dissertation defense.
- The last semester of coursework required on the student's Program of Study for non-thesis students.

***Students registered for 3 credits must have an approved Program of Study and an approved Full-Time at 3 Credit (FT3) form.**

A graduate student on academic warning or probation has failed to make adequate progress in their degree program. Individual departments are responsible for determining and communicating the specific conditions and timeline for correcting the academic deficiencies.

This information will be provided to the student in writing and must be approved by the department head. Failure to meet these conditions by the specified deadline may result in the student's removal from the degree program.

3.2. International Graduate Students

An international student must be admitted to a degree program and hold a valid F-1 or J-1 visa before enrolling in classes at Utah State University. A student on an F-1 or J-1 visa must maintain full-time student status throughout the degree program. For more information, please contact the Office of Global Engagement.

Section 4. General Regulations for Graduate Study

Each graduate student and graduate program coordinator/director are responsible for knowing and following the policies, regulations, procedures, and timelines of the School of Graduate Studies and of their program. The School of Graduate Studies is responsible for communicating any new or updated policies or procedures to both graduate program coordinators/directors and students. Graduate program coordinators/directors are responsible for ensuring that up-to-date information regarding policies and procedures is communicated to their graduate students. Students are responsible for understanding any new and updated information.

4.1. Required Sexual Misconduct Prevention Training

All Utah State University students **are required** to complete the Student Sexual Misconduct Prevention Training each academic year.

NOTE: If students are also employed on campus, then they must complete the required employee sexual misconduct prevention training, **in addition to** the student sexual misconduct prevention training.

New graduate students can sign up for a training in Learn Blue.

Continuing graduate students can access the training directly on the training website.

Students who do not complete this training will receive a **registration hold** and will not be able to register for the following semester. **NOTE:** The hold will be removed once the training has been completed. Please contact the Civil Rights & Title IX Office at training@usu.edu with any questions regarding this required training and its deadline.

4.2. Grades, Credits, & Course Number Acceptability

4.2.1. Course-Level Numbering and Acceptability

7000-7989 are doctorate-level courses. With supervisory committee and instructor approval they may be used in a master's program.

6000-6989 are master's-level courses. With supervisory committee approval they may be used in a doctoral program. A minimum of 18 credits may be used on an approved program of study.

5000-5990 are advanced, upper-division courses. A maximum of 12 credits may be used on an approved program of study.

4.2.2. Auditing Courses

For information regarding auditing a course, please review the Auditing Classes section of the USU General Catalog.

4.2.3. Special Topics & Independent Study Courses

Departments may create their own policies regarding special topics and independent study courses, provided they do not conflict with any University or Graduate School policies.

4.2.4. Semester Credit Limit

Students must have authorization from their department to enroll in more than 18 credits a semester and submit the Registration Action Form request for approval.

4.2.5. Minimum Grades and Credit Acceptability

Graduate students are required to maintain at least a 3.0 GPA for degree-program courses. Grades of C- or lower will not be accepted for a graduate degree. Programs have the right to require a higher minimum grade. Please review individual program catalog pages for minimum grade requirements.

4.2.6. Incomplete (I) - Grade Policy

Incomplete (I) Grade policy information can be referenced directly in the USU General Catalog.

4.2.7. Temporary (T) - Grade Policy

Temporary (T) Grade policy information can be referenced directly in the USU General Catalog.

4.2.8. Pass (P) - Grade Policy

Pass (P) will be accepted only for seminars, special problems, thesis, or dissertation research, and continuing graduate advisement.

4.2.9. Correspondence Course Credits

Distance Education correspondence (independent study) courses are not accepted for graduate degrees.

4.3. Split Form Policy

Undergraduate students at Utah State University who, are in good academic standing and intend to pursue a graduate degree, may file a Split Form. **NOTE:** This form requests to reserve up to **12 semester credits** from their undergraduate record for a future graduate degree.

4.3.1. Split Form Eligibility and Requirements

To get a Split Form approved, a student must a.) apply for undergraduate graduation, b.) be enrolled in at least one required undergraduate class. c.) have a cumulative undergraduate GPA of 3.0 or higher in the semester the form is submitted. d.) apply and pay the application fee to the School of Graduate Studies (see SGS Catalog Section 1: Graduate Admissions Policies above). e.) receive the instructor's permission to register for graduate courses.

4.3.2. Important Considerations

Graduate Admission is Not Guaranteed: Approval of a Split Form does not guarantee admission into the School of Graduate Studies.

Graduate Matriculation: A transitional student will not be officially matriculated into a graduate program until their bachelor's degree has been completed.

No Double-Counting: A course cannot be applied toward the undergraduate and graduate degree.

Deadline: The Split Form must be submitted **before** the student's bachelor's degree is completed and officially posted on their transcript.

4.3.3. Split Form Course Transcripts

By default, undergraduate courses (0010–4990) are posted to the undergraduate transcript.

Graduate courses (6000–7990) are posted to the graduate transcript. The posting of 5000-5990 level courses will not count towards a graduate degree unless it is included on an approved split form and the course level has been changed by the Office of the Registrar.

4.3.4. Requesting the Split

Undergraduate students who meet the qualifications must submit a Split Form to the School of Graduate Studies to specify which courses should be "split out" for their graduate degree.

4.4. Transfer and Nonmatriculated Credits

4.4.1. Transferring Graduate Credits

Credit Limit: Master's and doctoral students may transfer **a maximum of 12 graduate** semester credits from other accredited institutions into a graduate program at Utah State University.

Source: These credits may include those earned with a "P" grade.

Transfer Restrictions: Credits cannot have been used toward another degree.

Approval Process: All transfer credits require approval from both the student's supervisory committee (major professor if a supervisory committee is not required) and the Vice Provost of Graduate Studies. For credits with a "P" grade, committee approval is specifically required.

Transcript Display: Approved transfer credits will appear on the official Utah State University transcript upon completion of the degree.

4.4.2. Transferred Nonmatriculated Credits

These stipulations apply to transferred nonmatriculated credits: **no more than 12 semester credits taken at Utah State University or another institution prior to matriculation at Utah State University may be used in a program of study, if approved by the student's supervisory committee**. **NOTE:** This is not applicable to certificates.

4.5. Concurrent Graduate Degrees

Students may pursue concurrent master's degrees or concurrent master's and doctoral degrees. This requires approval from the cooperating departments and the Vice Provost of Graduate Studies.

4.5.1. Admissions Process

Apply to the First Program: A student must first submit a standard application (see SGS Catalog Section 1: Graduate Admissions Policies) and be admitted into their first graduate degree program.

Apply for Concurrent Status: Once admitted to the first program, the student may apply for a second degree program by submitting a Concurrent Degrees form to the School of Graduate Studies.

Meet the Deadline: For the degrees to be considered concurrent, admission to the second degree program must be finalized before the end of the second semester in the first degree program.

4.5.2. Concurrent Degree Credit Overlap Limit

A **maximum of 9 credits** may overlap between the two degree programs **with departmental approval**. This overlap allows a student to complete both degrees with up to 9 fewer total credits for the second degree than would otherwise be required for two separate degrees.

4.5.3. Credit Application

Allocated courses will not be applied to both degrees. Shared (concurrent) credits may not be applied to both degrees. The first degree will be awarded upon completion of its full minimum credit requirement. The second degree will reflect the approved credit overlap, and the shared coursework will not be listed on its Program of Study.

4.5.4. Concurrent Master's-Master's Degree Programs

In special cases, a student may concurrently complete the requirements for two master's degrees, in the same or in different departments, with fewer than the total credits required, provided that the following conditions are met:

· The student must submit a Concurrent Degrees request and be accepted into the second program or prior to completing 50% of the credits required for the first program.

· For students doing two professional degrees or one professional degree and one research degree (M.S. or Ph.D.) there are no special rules for the construction of supervisory committees beyond what is normal in each program.

· Students doing concurrent research degrees will have two supervisory committees, one for each program.

· The major professor for one degree program must be a member on the committee for the other degree program.

· The other committee members for the two supervisory committees need only follow SGS and program guidelines and faculty may serve on both supervisory committees. *

***The Supervisory Committee form and Program of Study must be in accordance with the School of Graduate Studies and program requirements.**

For questions about policies regarding Supervisory Committees, please review SGS Catalog Section 6 below.

4.5.5. Concurrent Doctoral-Master's Degree Programs

In special cases, a student may complete concurrently all requirements for a doctoral degree and a master's degree with fewer than the total credits required by both programs, provided that the following conditions are met:

· The student must submit a Concurrent Degrees request and be accepted into the second program or prior to completing 50% of the credits required for the first program.

· For students doing two professional degrees or one professional degree and one research degree (M.S. or Ph.D.) there are no special rules for the construction of supervisory committees beyond what is normal in each program.

· Students doing concurrent research degrees will have two supervisory committees, one for each program.

· The major professor for one degree program must be a member on the committee for the other degree program.

· The other committee members for the two supervisory committees need only follow SGS and program guidelines and faculty may serve on both supervisory committees. *

***The Supervisory Committee form and Program of Study must be in accordance with the School of Graduate Studies and program requirements.**

For questions about policies regarding Supervisory Committees, please review SGS Catalog Section 6 below.

4.5.6. Concurrent Doctoral-Doctoral Degree Programs

Students are not permitted to enroll concurrently in two doctoral programs when both programs require the completion of a dissertation.

· Two scholarly dissertations would place overlapping demands on research, scholarly output, and faculty oversight that are not compatible with the institution's expectations for original, independent doctoral-level work. However, a capstone project with an applied emphasis for a professional doctorate and a traditional dissertation with a scholarly emphasis reflect complementary rather than overlapping objectives.

· Students are permitted to enroll concurrently in two doctoral programs when one program requires a dissertation and the other requires a practicum or capstone, provided that the following conditions are met:

· In these cases, the nature of the practicum or capstone—being applied, supervised professional practice rather than a major research study—does not conflict with the scholarly requirements of producing an original dissertation. The scope and objectives of the practicum/capstone and the dissertation may not overlap.

· The student must submit a Concurrent Degrees request and be accepted into the second program or prior to completing 50% of the credits required for the first program.

· Students doing concurrent doctoral degrees will have two supervisory committees, one for each program.

· The major professor for one degree program must be a member on the committee for the other degree program.

· The other committee members for the two supervisory committees need only follow SGS and program guidelines and faculty may serve on both supervisory committees. *

***The Supervisory Committee form and Program of Study must be in accordance with the School of Graduate Studies and program requirements.**

For questions about policies regarding Supervisory Committees, please review SGS Catalog Section 6 below.

4.6. Graduate Student Leave of Absence

A leave of absence may be granted under the following conditions:

· Illness, required military service, and other extenuating circumstances acceptable to the department head and the Vice Provost of Graduate Studies.

· Lack of availability of courses.

· Participation in a planned program based primarily on summer semester courses.

· For the second or third condition to apply, the student must have an approved Program of Study.

To request a leave of absence, a Leave of Absence request must be approved by the department head and submitted to the School of Graduate Studies. A leave of absence may be the basis for extending the time limit to complete a degree, but not to extend the time limit for course validity. A student needing to extend an approved Leave of Absence should contact their Graduate Program Coordinator.

Should the reason for leave change, a new submission and approvals are required. **International students should note** that taking a leave of absence will affect their immigration status. For questions, international students should contact the Office of Global Engagement.

Students who take a leave of absence from the university should note that this will affect the status of their federal or private student loan status. Students will need to contact their loan servicer for more information.

Prior to requesting a leave of absence, students are responsible for dropping courses in accordance with all university calendar deadlines and procedures. All students on a leave of absence will maintain their IT access for one year beginning the semester that they take a leave of absence.

Any additional time after the allotted one year will need special permission from the student's home department and the School of Graduate Studies. **Time spent on a leave of absence does not count toward the six-year time limit for completing a master's degree, as set by the School of Graduate Studies.** The duration of the leave will be subtracted from the time calculated from the original matriculation date.

Example: If a student begins their master's program in Fall 2020 and takes a one-year leave of absence from Fall 2022 to Fall 2023, their six-year completion window will be extended to Fall 2027 instead of Fall 2026.

NOTE: This policy does not apply to the eight-year revalidation policy, which is outlined separately in SGS Catalog Section 4.10.2. below.

4.7. Continuous Enrollment

· To maintain full-time status graduate students are required to be registered for the appropriate number of credits in both fall and spring semesters. Graduate students are considered to be active in summer even when not registered for credits.

· **Note for International Students:** Summer is considered a vacation semester for students who were enrolled in spring and intend to enroll the following fall semester. International students must be enrolled full-time in the summer if summer is their first or last semester.

· Full-time enrollment can mean different things: 9 credits (at least 6 of which must be in-person for international students), 6 credits with a .37 - .5 FTE assistantship, at least 3 of which must be in-person, or 3 credits with an approved Full Time at 3 Credits (FT3) form, all of which must be in-person.

· If less than 3 credits are needed to graduate, then international students who need full-time status must enroll in a minimum of 1 in-person credit with an approved Reduced Course Load (RCL) form.

· A Reduced Course Load (RCL) form cannot be used after the completion of the grace semester (for more information about the grace semester, please see SGS Catalog Section 4.8. below).

· If International Students have any questions about the Full-Time at 3 Credits (FT3) form or the Reduced Course Load (RCL) form, they should contact the Office of Global Engagement.

4.8. Grace Semester

Doctoral and master's students will be given until the last day of the next semester (spring, summer or fall) following a successful defense to complete remaining degree requirements. This is the "grace semester" and does not require students to be registered for credits unless needed to remain compliant with F-1 or J-1 visa criteria.

If a student has not completed all degree requirements by the end of the grace semester, the student must register for at least one (1) credit in any semester during which degree requirements will be completed, including a second defense. International students should consult with the Office of Global Engagement regarding SEVIS regulations to determine how many credits they are required to take to remain compliant with F-1 or J-1 visa criteria.

If all degree requirements, including the submission of a final thesis, Plan B paper/project, or dissertation to USU Libraries, are not complete by the conclusion of the grace semester, then the student must defend the thesis, Plan B paper/project, or dissertation a second time. See definitions of minor and major revisions and their relationship to the need to defend a second time described in SGS Catalog Section 12.5: During the Final Defense. The major professor, with support of all members of the supervisory committee, may submit an appeal to the Vice Provost of Graduate Studies, justifying why the student should not be required to defend the thesis, Plan B paper/project, or dissertation a second time.

4.9. Complete Withdrawal from the University

4.9.1. For Matriculated and Enrolled Graduate Students

To initiate a complete withdrawal from a graduate program, email the School of Graduate Studies at gradforms@usu.edu, the student's A-number will be needed. The withdrawal date is in accordance with the registration calendar.

4.9.2. For Newly Admitted Students

If the student has not yet registered for courses or have only applied, they must contact graduateadmissions@usu.edu to withdraw. To re-enroll, these students must formally reapply to the School of Graduate Studies and resubmit all supplementary documents for departmental review.

4.9.3. Prior to Withdrawing

Students are responsible for dropping their individual courses in compliance with university deadlines and procedures. This is required before the university will process a complete withdrawal.

Note for International Students: International students should note that taking a complete withdrawal from the university will affect their immigration status. For questions, international students should contact the Office of Global Engagement.

NOTE: Students who take a complete withdrawal from the university should note that this will affect the status of their federal or private student loan status. Students will need to contact their loan servicer for more information.

4.9.4. Deadlines

Once final examinations for a semester have begun, a complete withdrawal is no longer possible. Students who do not complete the withdrawal process by the deadline will receive grades and academic credit earned for their courses, which will be included on their transcript.

4.9.5. Readmission

A student who completely withdraws must be formally readmitted to the university before re-enrolling.

4.10. Graduate Degree Time Limit & Coursework Revalidation

4.10.1. Graduate Degree Time Limit

Master's Degrees

A master's degree must be completed **within six years** of entering the degree program.

Additional time may be requested by the student's committee and submitted to the Vice Provost of Graduate Studies for review.

Doctoral Degrees

A doctorate degree must be completed **within eight years** of entering the degree program.

Additional time may be requested by the student's committee and submitted to the Vice Provost of Graduate Studies for review.

4.10.2. Coursework Revalidation

· Coursework **more than eight years old** at the time of degree completion may not be used for a graduate degree unless it is revalidated.

· If permitted by the departmental or interdepartmental degree program policy, a supervisory committee may develop and submit a revalidation plan to the Vice Provost of Graduate Studies for approval. Revalidation entails some activity which demonstrates the student's current knowledge of the full scope of the course's content as specified in the syllabus.

· Committees have wide latitude in the types of activities proposed for revalidation (e.g., essay, project, oral exam). However, no program benchmark assessment (e.g., qualifying exam, comprehensive exam, thesis/Plan B paper or project/dissertation proposal) may be used for revalidation.

· The plan and determination must be verified in writing and include the Vice Provost of Graduate Studies and the student's major professor or other person(s) responsible for the revalidation. Work experience cannot be substituted for out-of-date coursework or used for revalidation, except where current work experience can be documented to have involved the use of current knowledge and application of material currently covered in the coursework, as documented in the original course syllabus.

· Graduate credits from another institution exceeding the eight-year limit at the time of degree completion may be transferred to a Utah State University graduate degree only if the student's supervisory committee provides a justification acceptable to the Vice Provost of Graduate Studies.

· The revalidation procedures described above apply.

4.11. Academic Nepotism

A faculty member is not to participate in admission or graduate assistant employment decisions, serve as major professor, or serve on the supervisory committee of a relative, including a person with whom the faculty member has or has had an amorous relationship. Graduate students may enroll in classes taught by a relative only under special conditions. For information, contact the department head or the School of Graduate Studies.

4.12. GPA Policy & Low-GPA Notification for Graduate Students

Graduate students are required to maintain at least a 3.0 GPA for degree-program courses.

It is a department's right to require a higher GPA. Please check the program's catalog for specific GPA requirements. The School of Graduate Studies will notify GPCs, GPDs, and/or Department Heads of students whose cumulative or overall GPA is below 3.0 at the completion of fall and spring semesters. The department will then notify and coordinate with the students to ensure their future success. If a student's institution GPA remains below 3.0 for two consecutive semesters, the student may be placed on probationary status, and their graduate program may be terminated.

4.13. Matriculation of Faculty

Except under unusual circumstances, it is the policy of the university not to grant graduate degrees to its own faculty members, where the degree satisfies a prerequisite for appointment or advancement in rank. Requests for exceptions must be individually considered and approved by the provost based on appropriate recommendations. Please see Faculty Policies for more information.

4.14. Monitoring of Progress

The student's department and the School of Graduate Studies monitor the progress of graduate students. For continued participation in a graduate program, a student must complete all requirements in a timely manner. In reviewing a student's progress, several factors will be considered, including demonstrated ability to develop a thesis proposal, independence in the conduct of research, performance on comprehensive examinations, GPA, and special program requirements. Satisfactory progress also involves maintaining the standards of professional ethics and integrity expected in the student's discipline.

Section 5. Research and Intellectual Property

5.1. Regulatory Approval & Responsible Conduct

All University research involving human subjects, animal subjects, radiation materials, recombinant DNA, biohazardous materials, certain highly toxic chemicals, restricted foreign parties, or export-controlled items must be reviewed and approved by the appropriate University committee(s) before the research is started.

Graduate students are, with the assistance of their advisors, responsible for obtaining the necessary approval for their research. Verification of regulatory approval must be submitted to the School of Graduate Studies before the student's master's Thesis/Project Approval Form or doctoral Application for Candidacy can be approved.

For further information, please contact Research Integrity and Compliance.

5.1.1. Responsible Conduct of Research (RCR)

· All research degrees (doctoral, MS/A, and MFA) are required to complete the Responsible Conduct of Research course offered on the CITI website. Doctoral degrees include Ph.D., Au.D., Ed.D., and DVM.

· RCR training is also required for any students who are supported by funding from some federal agencies (NSF, USDA-NIFA).

· Graduate students who are supported by funding from the NIH are required to complete a face-to-face component through the Division of Research Integrity and Compliance.

· If a Master's Plan B paper/project requires research, the student's Committee will require completion of the RCR CITI Training.

· Completion of RCR training is required as part of the initial Supervisory Committee Approval (SCAF) form for master's and doctoral students (for more information, please review SGS Catalog Section 6: Supervisory Committees below).

For more information about the Responsible Conduct of Research Training, please check out the USU RCR website.

5.2. Academic Honesty and Research Misconduct

Maintaining the highest standards of academic honesty and research ethics is especially important at the graduate level, where students are expected to do original, scholarly work in preparation for future professional and academic roles.

Academic dishonesty is defined in The Code of Policies and Procedures for Students at Utah State University Article VI, Section 1 to include cheating, falsification of information, and plagiarism. Students who violate any item of the above policy will be subject to the University disciplinary procedures as outlined in Article VI, Section 3 of the Student Code.

5.2.1. Research Misconduct

Research misconduct is defined as fabrication, falsification, or plagiarism in proposing, performing, or reviewing research, or in reporting research results.

Fabrication means making up data or results and recording or reporting them.

Falsification means manipulating research materials, equipment, or processes, or changing or omitting data or results such that the research is not accurately represented in the research record.

Plagiarism The appropriation of another person's ideas, processes, results, or words without giving appropriate credit. Plagiarism includes the unattributed verbatim or nearly verbatim copying of sentences and paragraphs from another's work that materially misleads the reader regarding the contributions of the author. It does not include the limited use of identical or nearly identical phrases that describe a commonly used methodology. Plagiarism does not include self-plagiarism or authorship or credit disputes, including disputes among former collaborators who participated jointly in the development or conduct of a research project.

Research Misconduct does not include honest errors, differences of opinion, or publication disputes. Research is a vital part of graduate education; therefore, appropriate scientific and research conduct is not only expected, but required.

Allegations of research misconduct involving funded research are handled through the Office of Research. If the research is not externally sponsored, allegations are handled following The Code of Policies and Procedures for Students at Utah State University. Research misconduct may be determined either during or after a student's program.

Students found guilty of research misconduct may face penalties including:

· (1) correction and reanalysis of data

· (2) and/or rewriting of the thesis or dissertation, with resubmission and a new defense required,

· (3) and/or loss of financial assistance.

· If the misconduct is found to have been knowingly or deliberately committed, the penalty may include dismissal from a program or revocation of an awarded degree.

5.2.2. Reporting Suspected Research Misconduct

USU employees or students who learn of potential Research Misconduct are encouraged to submit a claim for appropriate review.

Claims can be submitted through:

USU's Research Integrity and Compliance Office

435-797-0485

compliance@usu.edu

USU's Ethics & Compliance Hotline

A Dean, Director, or Department Head, who has a duty to pass the claim to the Research Integrity & Compliance Office

5.2.3. How are Research Misconduct Allegations Reviewed?

The Research Integrity & Compliance Office maintains Research Misconduct Procedures.

These procedures meet federal standards and are reviewed and approved by the Office of Research Integrity within Health & Human Services. All allegations will undergo an assessment phase as soon as possible, and if sufficient credible evidence is present, will move to an inquiry and/or investigation phase. **NOTE:** Because the definition of Research Misconduct is narrow, not all allegations may fall under Research Misconduct. Non-Research Misconduct improprieties will be referred to other offices on campus as appropriate (Human Resources, Provost, etc.).

5.3. Appeals Procedure

Graduate students with grievances relating to academic matters may appeal to the Vice Provost of Graduate Studies following the steps and procedures outlined in The Code of Policies and Procedures for Students at Utah State University.

NOTE: For any questions related to Responsible Conduct of Research (RCR) and Research Misconduct, please contact the Research Integrity & Compliance Team.

Section 6. Supervisory Committees

All full-time faculty and staff at USU eligible to serve on Supervisory Committees must be members in good standing of the USU graduate faculty.

Individuals who are affiliated with other institutions or have limited USU affiliations (e.g., adjunct instructors, emerita and emeritus faculty) can be appointed to serve as committee members on an ad hoc basis through a separate process, which requires approval from the appropriate Department Head and the Vice Provost for Graduate Studies.

6.1. Master's Plan A and Plan B

A completed initial Supervisory Committee Approval form should be submitted to the School of Graduate Studies for final approval **by the end of the student's second semester**.

· As part of the initial Supervisory Committee Approval (SCAF) form, completion of Responsible Conduct of Research (RCR) CITI Training is required for all MS/A (thesis), MA, and MFA students.

· It is also required for all students funded by NIH, NSF, or USDA-NIFA.

· If a Plan B paper/project requires research, the student's Committee will require completion of the RCR CITI Training.

· The School of Graduate Studies does not require proposal defenses for Plan B papers/projects **that do not include empirical research**

· Additionally, the training may be recommended for any master's student if their committee determines it is appropriate for the student's thesis or project.

· RCR CITI Training must be completed **before** the initial SCAF form is submitted.

· **NOTE:** If the SCAF form does not have all required committee roles filled and the completed RCR training (if required), it will be denied.

See SGS Catalog Section 5.1.1., for further information about the Responsible Conduct of Research requirement or contact Research Integrity and Compliance.

A master's degree supervisory committee must include **at least three members** who hold a master's degree or higher and are members of the USU Graduate Faculty. If the degree is a Plan A, all members must have completed a thesis or dissertation.

· **The major professor must be from within the student's department. At least one member** must represent the student's area of specialization, **and at least one member** must be from outside the home department or specialization area and a member of the USU Graduate Faculty in good standing.

· **NOTE:** For special accommodations, the department must receive approval from the Vice Provost of Graduate Studies.

· It is permissible for one member of the committee to be affiliated with an outside institution, affiliated with USU on a part-time basis (e.g., adjunct faculty), or an emeritus or emerita; this individual can only be added to a committee with the permission of the appropriate Department Head and the Vice Provost for Graduate Studies.

While it is the expectation that all members of a thesis or Plan B paper/project committee uphold these values, the specific role of the outside member of a thesis or Plan B paper/project committee is to ensure the success of the thesis/Plan B paper or project process for the student with regard to three primary goals:

· A fair, ethical, and humane process for the student.

· Rigorous academic and intellectual experience that yields meaningful insights accessible to the disciplinary and broader communities.

· And safeguarding against "group think" or tacit expectations that may not be intuitive or evident to the student.

Within School of Graduate Studies and departmental requirements, the supervisory committee for a master's degree does the following:

· Determines courses for the student's Program of Study.

· Conducts any required departmental qualifying examinations.

· Supervises the student's thesis research, Plan B paper/project, or other degree project.

· Conducts the defense or final examination.

NOTE: The defense or final examination must be scheduled through the School of Graduate Studies. The major professor, who serves as the chairperson of the committee, usually directs the thesis, Plan B paper/project, or other degree project.

· A faculty member should not serve on a supervisory committee if, for any reason, they will not be available for committee meetings.

· All committee members must attend the defense at the date and time registered with the School of Graduate Studies.

· Members of the committee are permitted to participate remotely with both audio and video interaction. Students should work with their committee members to arrange defense participation and details prior to submitting an Appointment for Thesis/Project/Dissertation Defense form.

· Changes to a supervisory committee must be documented and approved by submitting a Supervisory Committee Revision form to the School of Graduate Studies and **cannot be made during the six weeks prior to the defense** without a written request from the Department Head and approval of the Vice Provost of Graduate Studies.

· No committee member should agree to proceed with a defense until they have carefully read and approved the thesis or Plan B paper/project.

· Co-Advisors can be from any department but cannot also serve as the committee member from outside the department or specialization area.

· After the final defense of a Plan A thesis, the student should submit their finalization paperwork and finished manuscript to the School of Graduate Studies for review.

· Plan B papers/projects **are defended but are not formally reviewed** by the School of Graduate Studies, nor signed by the Vice Provost of Graduate Studies. Instead, they must be submitted directly to USU Libraries and uploaded to the **institutional repository**. See Plan B Report/Creative Project Submission Form. Once accepted, **USU Libraries personnel will notify** both the student and the School of Graduate Studies.

· Once approved, the manuscript will either be uploaded to USU's institutional repository or, if the student wishes to embargo their work, submit their physical manuscript to USU Libraries. USU Libraries personnel will notify the student and the School of Graduate Studies once the manuscript is accepted.

6.2. Doctoral Degrees

A completed initial Supervisory Committee Approval form should be submitted to the School of Graduate Studies for approval **by the end of the student's third semester**.

· As part of the initial Supervisory Committee Approval (SCAF) form, completion of Responsible Conduct of Research (RCR) CITI Training is required for all doctoral students and any master's student whose committee deems it appropriate for their student to take.

· It is also required for all students funded by NIH, NSF, or USDA-NIFA.

· RCR CITI Training must be completed **before** the initial SCAF form is submitted.

· **NOTE:** If the SCAF form does not have all required committee roles filled and the completed RCR training will be denied.

See SGS Catalog Section 5.1.1., for further information about Responsible Conduct of Research requirement or contact Research Integrity and Compliance.

· A doctoral supervisory committee must include **at least five members** who hold a terminal degree (e.g., Ph.D., other doctorate, or terminal master's degree such as an M.F.A.). The committee must consist of a major professor from inside the student's department, and at least **three members from within the student's department** and **at least one member who is a member of the USU Graduate Faculty with an appointment outside either, the department or, interdepartmental degree-granting program, in which the student is enrolled; all of these individuals must be members in good standing of the USU graduate faculty.**

· **NOTE:** For special accommodations, the department must receive approval from the Vice Provost of Graduate Studies.

· It is permissible for one member of the committee to be affiliated with an outside institution, affiliated with USU on a part-time basis (e.g., adjunct faculty), or an emeritus or emerita; this individual can only be added to a committee with the permission of the appropriate Department Head and the Vice Provost for Graduate Studies.

· All committee members must have completed a dissertation or thesis requirement similar to that which the graduate student is completing.

While it is the expectation that all members of a dissertation committee uphold these values, the specific role of the outside member of a dissertation committee is to ensure the success of the dissertation/thesis process for the student with regard to three primary goals:

· A fair, ethical, and humane process for the student.

· Rigorous academic and intellectual experience that yields meaningful insights accessible to the disciplinary and broader communities.

· And safeguarding against "group think" or tacit expectations that may not be intuitive or evident to the student.

Within the School of Graduate Studies and departmental requirements, the doctoral supervisory committee does the following:

· Determines courses for the student's Program of Study.

· Oversees any qualifying examinations and comprehensive examination, unless another departmental or program procedure is in place. *

· Approves the dissertation proposal.

· Supervises the student's research and preparation of the dissertation.

· Participates in or conducts departmental annual reviews.

· Conducts the final oral examination.

NOTE: The major professor is the chairperson of the committee and usually directs the student's research. Continuation in a doctoral program is contingent upon the availability of a major professor.

*Some departments or interdepartmental programs administer qualifying examinations. Each program has the responsibility of administering comprehensive examinations. The School of Graduate Studies does not have a policy regarding the nature of student comprehensive exams. Departments may dictate their own policies on this matter, provided that they do not violate University and School of Graduate Studies policies.

· A faculty member should not serve on a supervisory committee if, for any reason, they will not be available for committee meetings. All committee members must attend the defense at the date and time registered with the School of Graduate Studies.

· Members of the committee are permitted to participate remotely with both audio and video interaction. Students should work with their committee members to arrange defense participation and details prior to submitting an Appointment for Thesis/Project/Dissertation Defense form.

· Changes to a supervisory committee must be documented and approved by submitting a Supervisory Committee Revision form to the School of Graduate Studies and **cannot be made during the six weeks prior to the defense** without a written request from the Department Head and approval of the Vice Provost of Graduate Studies.

· No committee member should agree to proceed with a defense until they have carefully read and approved the dissertation.

· After the final defense of a dissertation, the student should submit their finalization paperwork and finished manuscript to the School of Graduate Studies for review.

· Once approved, the manuscript will either be uploaded to USU's institutional repository or, if the student wishes to embargo their work, submit their physical manuscript to USU Libraries. USU Libraries personnel will notify the student and the School of Graduate Studies once the manuscript is accepted.

6.3. Concurrent Research Degrees and Supervisory Committees

· Students doing concurrent graduate degrees will have two supervisory committees, one for each program (please see SGS Catalog Section 4.5.4. for concurrent master's-master's degree programs, Section 4.5.5. for concurrent doctoral-master's degree programs, and Section 4.5.6. for concurrent doctoral-doctoral degree programs, for further information about concurrent degree programs and supervisory committees).

· The major professor for each degree program must be a member of the supervisory committee for the other program. The other committee members for the two supervisory committees need only follow SGS and program guidelines and faculty may serve on both supervisory committees.

· The Supervisory Committee form and Program of Study must be in accordance with the School of Graduate Studies and program requirements.

6.4. Committee Members from Outside of the Department

It is the expectation that all members of a thesis/Plan B paper or project/dissertation committee uphold these values, the specific role of the committee member from outside of the department is to ensure the success of the thesis/Plan B paper or project/dissertation process for the student with regard to three primary goals:

· A fair, ethical, and humane process for the student.

· A rigorous academic, and intellectual experience that yields meaningful insights accessible to the disciplinary and broader communities.

· And safeguarding against "group think" or tacit expectations that may not be intuitive or evident to the student.

NOTE: The role of committee members from outside the department can only be filled by a member of the USU graduate faculty in good standing. While an individual from outside USU may be added to the committee, they are not eligible to fulfill the formal "outside committee member" role. All committee members, including members from outside of the department, must be approved by the Dean of the College, Department Head, and the Vice Provost of the School of Graduate Studies.

6.5. Committee Members from Outside the University

Committee members from outside the university may serve as a member at large of the committee. They are not eligible to serve as a committee chair or outside member. All committee members, including members outside the university, must be approved by the Dean of the College, Department Head, and the Vice Provost of the School of Graduate Studies.

6.6. Adjunct Faculty

An adjunct faculty member may serve as a member at large of the committee with approval from the Dean of the College, Department Head, and the Vice Provost of the School of Graduate Studies. Adjunct faculty may not fill the role of "Outside Committee Member."

6.7. Emerita/Emeritus Faculty

Emerita/emeritus faculty may continue to serve as committee members or major professors on any committee on which they serve at the time they become emeritus. Emerita/emeritus faculty may shift from chair to member after they leave their normal faculty role, but they may not shift from member at large to chair or shift from member at large to outside member. They may serve as committee members on committees formed after they become emeritus, but not as major professor or outside member.

NOTE: The Department is responsible for ensuring that Emeritus/Emerita faculty retain an A# and IT access.

6.8. Faculty Who Leave Utah State University for Another Academic Institution or Job

Faculty who leave USU for another institution may continue to serve as committee members on graduate student committees upon the request of the department and with approval from the Vice Provost of Graduate Studies. The faculty member is responsible for updating their email in Banner, in order to receive notifications.

On graduate student committees where the departing member is the major professor, there must be a new major professor or a co-major professor who is a member of the graduate faculty in good standing at USU.

Section 7. Program of Study (POS)

7.1. Purpose

The Program of Study (POS) is a formal document outlining the student's graduate coursework. It must meet specific credit requirements based on the student's degree and prior education.

7.2. Program of Study Requirements

Credit Requirements:

Doctoral (with a prior master's degree): At least 18 semester credits at the 6000-level or above.

Doctoral (without a prior bachelor's degree): At least 30 semester credits at the 6000-level or above.

Master's: At least 18 semester credits at the 6000-level or above.

NOTE: A Program of Study is not required for Graduate Certificates.

For questions about graduate degree requirements, please refer to SGS Catalog Section 8 for master's degrees and Section 10 for doctoral degrees.

Coursework Restrictions:

Excluded Credits: Courses below the 5000-level, undergraduate prerequisites, and audited courses cannot be included.

Non-Acceptable Credits: The following are not acceptable for a graduate degree program:

· Continuing graduate advisement

· Individual home study

· Military science

Audited Courses: These cannot count towards a degree program or full-time status.

7.3. Submission Deadline

Master's Degrees: A master's student's Program of Study should be submitted to the School of Graduate Studies for approval **by the end of the second semester, after the Supervisory Committee Form (SCAF) has been submitted and approved**. **NOTE:** Master's Plan C Students do not submit Supervisory Committee Forms.

Doctoral Degrees: A doctoral student's Program of Study should be submitted to the School of Graduate Studies for approval **by the end of the third semester, after the Supervisory Committee form has been submitted and approved**.

7.4. Approval

The student's major professor, department head, committee members, and the School of Graduate Studies will receive an email notification from USU's ServiceNow to review and approve the Program of Study. Once all approvals are obtained, the student and their GPC will receive a final email from ServiceNow with confirmation that the Program of Study was approved.

7.5. Revisions

All changes to the Program of Study (POS) must go through the Program of Study revision approval process. If a student needs assistance with revising their Program of Study, they should contact their Graduate Program Coordinator.

For questions about how to create or revise a Program of Study, students should contact their Graduate Program Coordinator.

NOTE: Students should not wait until their final semester to submit required forms, as doing so may delay graduation. Timely submission is essential to ensure all degree requirements are met without complications.

Section 8. Master's Degree Requirements

Master's Degree Plan Types:

Plan A: The Master's Plan A option requires students to prepare and defend a thesis, which is a significant piece of original research or a new perspective on existing knowledge.

Plan B: The Master's Plan B option requires the completion and defense of a paper or project, depending on the specific department and program requirements.

Plan C/Professional: The Master's Plan C/Professional may be required to enroll in research credits, but thesis credits are not accepted on a Program of Study or applied towards a degree.

Credit Hours Requirement:

The minimum requirement for a master's degree is **30 semester credits**. Certain programs may have higher credit requirements for some master's degrees.

Residency Requirement:

The School of Graduate Studies does not have any academic residency requirements for graduate students, but departments and colleges may impose residency requirements in their programs as they see fit.

Thesis Requirements:

Master's Plan A: Students must complete **a minimum of 6 and a maximum of 15 semester credits** of thesis research (course 6970) as part of their Program of Study.

Master's Plan B: Master's Plan B students must complete **a minimum of 2 semester credits** of thesis research (course 6970); however, **no more than 3 semester credits of thesis research credits** may be included in an approved Program of Study.

Some degree programs may require **creative project credits** in addition to, or instead of, research credits.

NOTE: Registration for thesis credits should correspond with the semesters during which the research is actively conducted, and faculty supervision is provided.

Plan B Paper or Project Overview:

The Plan B paper/project is typically a **literature review**, developed through:

- Conceptualizing an area of inquiry.
- Planning a systematic search.
- Analyzing or critiquing the gathered information.

The resulting summary and conclusions should **enhance the student's understanding of the discipline.**

Publication Policy for Degree Completion:

- The School of Graduate Studies recognizes that scholarly publications are a vital component of graduate training and may be essential for post degree success. Publications or manuscripts of which the student is a co-author may be included if the committee determines that the student made a substantial intellectual contribution to the work.
- Permission to include a publication or manuscript in a thesis/project does not depend on the order of authorship.
- Any included publication or manuscript must be a logical component of the overarching theme or themes addressed by the entire thesis, which, as a whole, must represent the student's individual and original effort.
- The student is responsible for obtaining reprint permission from the copyright holder for any published works included as part of the thesis.
- A program or faculty mentor may require manuscripts to be submitted for publication as part of its degree completion requirements. However, because publication timelines are often subject to external factors, actual acceptance/publication of a manuscript cannot be a degree requirement, and time to degree cannot be extended to accommodate publication of a manuscript.

8.1. Receive Approval on Thesis or Plan B Paper/Project Research Proposal

Students should finalize their thesis or Plan B paper/project topic and present a formal research proposal to their supervisory committee for review and approval.

Action: Students should schedule a proposal meeting with their committee once their topic and research plan are clearly defined.

NOTE: Approval of the thesis or Plan B paper/project proposal is required before significant research or data collection begins.

8.2. Thesis/Project Proposal Approval (TPA) Form

Purpose

· All Master's Plan A and Plan B students should submit a Thesis/Project Approval (TPA) form to confirm they have successfully defended their thesis or Plan B paper/project proposal with committee approval before the final defense. The School of Graduate Studies does not require proposal defenses for Plan B papers/projects **that do not include empirical research**.

· This form is also used to document that the student has obtained any necessary regulatory approval (IRB, IACUC, etc.) (see SGS Catalog Section 5.1 above) and completed any safety trainings necessary. The form should therefore be submitted after the student's committee approves the thesis/project research proposal, and prior to the student conducting their research.

· For updates on IRB regulations and to determine whether a student's research requires IRB approval, view USU's IRB webpage.

· The student, their major professor, committee members, Department Head, and IRB/IACUC (if needed) will receive an email notification from ServiceNow, to review and approve the Thesis/Project Approval form. Once all signatures are obtained electronically, all parties will receive a final email from Service Now with a completed form.

· The student's thesis or Plan B paper/project defense is scheduled after the Thesis/Project Proposal Approval form is accepted **(see SGS Catalog Section 12.2 below for more information about all required forms needed prior to a student's thesis or Plan B paper/project proposal defense)**.

Submission Deadline

· Master's students are encouraged to submit the Thesis/Project Approval (TPA) form **by the end of their second semester, after submitting and receiving approval for the Supervisory Committee Approval Form (SCAF) and the Program of Study (POS),** (see SGS Catalog Section 6.1., for information about the SCAF form, and SGS Catalog Section 7.3., for information about submitting the POS form)**, a successful thesis/project proposal defense, all regulatory approval is in place, and any other required forms for the proposal defense have been submitted and accepted.**

· Verification of regulatory approval must be submitted to the School of Graduate Studies before the student's Thesis/Project Proposal Approval can be approved.

Section 9. Post-Master's Professional Degrees & Graduate Interdepartmental Degrees and Certificates

Post-Master's Professional Degrees:

Educational Specialist (EdS) programs, are designed for students who seek to improve their professional skills and knowledge beyond the master's degree. The minimum requirement for each of these degrees is 30 semester credits beyond the master's degree and 60 credits beyond a bachelor's degree.

Graduate Interdepartmental Degrees and Certificates:

Utah State University offers a number of interdepartmental graduate degrees. A full list of interdepartmental degrees and certificates is available through the School of Graduate Studies Degree Finder.

Section 10. Doctoral Degree Requirements

Credit Hours Requirement:

30 to 60 academic credits beyond a master's degree. **60 to 90 academic credits** beyond a bachelor's degree.

Specific credit-hour requirements vary by department. Students should consult their department for detailed program expectations.

Residency Requirement:

The School of Graduate Studies will not have any academic residency requirements for graduate students, but departments and colleges may impose residency requirements in their programs as they see fit.

Dissertation Credit Requirements:

A minimum of **12 dissertation credits (7970)** for students entering **with a master's** degree.

A minimum of **18 dissertation credits (7970)** for students entering **with a bachelor's** degree.

Dissertation credits should be taken during the semesters when the actual dissertation work is being conducted, and faculty supervision is provided.

Publication Policy for Degree Completion:

The School of Graduate Studies recognizes that scholarly publications are a vital component of graduate training and may be essential for post degree success. Publications or manuscripts of which the student is a co-author may be included if the committee determines that the student made a substantial intellectual contribution to the work.

· Permission to include a publication or manuscript in a dissertation does not depend on the order of authorship.

· Any included publication or manuscript must be a logical component of the overarching theme or themes addressed by the entire dissertation, which, as a whole, must represent the student's individual and original effort.

· The student is responsible for obtaining reprint permission from the copyright holder for any published works included as part of the dissertation.

· A program or faculty mentor may require manuscripts to be submitted for publication as part of its degree completion requirements. However, because publication timelines are often subject to external factors, actual acceptance/publication of a manuscript cannot be a degree requirement, and time to degree cannot be extended to accommodate publication of a manuscript.

Professional Doctoral Degrees – Au.D., Ed.D., and DVM

In addition to research-based doctoral degrees (e.g., Ph.D.), the university offers professional doctoral degrees such as:

· **Doctor of Audiology (Au.D.)**

· **Doctor of Education (Ed.D.)**

· **Doctor of Veterinary Medicine (DVM)**

These degrees differ from traditional research doctorates in the following ways:

· **Focus:** Professional doctorates emphasize advanced practice, clinical training, and application of knowledge in professional settings, rather than original research.

· **Capstone Requirements:** Instead of a dissertation, these programs may require a clinical project, portfolio, or other culminating experience.

· **Credit Requirements:** Credit requirements vary by program and may not follow the same dissertation credit model as Ph.D. programs.

· **Timeline:** Professional doctorates may follow a different academic calendar or progression model, often with integrated internships or residencies.

· Students pursuing Au.D., Ed.D., or DVM degrees should consult their program's handbook and Graduate Program Coordinator for detailed requirements, timelines, and completion procedures specific to their degree.

10.1. Comprehensive Examinations

Some departments or interdepartmental programs may require qualifying examinations in addition to comprehensive examinations.

Action: Students should check with their program for specific exam requirements and timelines.

Passing comprehensive exams is a major, required milestone toward candidacy and **should generally be completed by the end of the second year**. The School of Graduate Studies does not have a policy regarding the nature of student comprehensive exams, but it does require them. Departments may dictate their own policies on this matter, provided that they do not violate University and School of Graduate Studies policies.

10.1.1. Receive Approval on Dissertation Research Proposal

Students should finalize their dissertation topic and present a formal research proposal to their supervisory committee for review and approval.

Action: Students should schedule a proposal meeting with their committee once their topic and research plan are clearly defined.

NOTE: Approval of the dissertation proposal is required before significant research or data collection begins.

10.1.2. Application for Candidacy Submission and Approval

Purpose

· Submission of the Application for Candidacy (ACCD) Form is a significant point in the doctoral student's program because the Major Professor, Supervisory Committee, and Department Head thereby attest that the student is ready to conduct independent dissertation research—although successful completion is not guaranteed.

· This form is also used to document that the student has obtained any necessary regulatory approval (IRB, IACUC, etc.) (see SGS Catalog Section 5.1 above) and completed any safety trainings necessary. The form should therefore be submitted after the student's committee approves the dissertation research proposal, and prior to the student conducting their research.

· For updates on IRB regulations and to determine whether a student's research requires IRB approval, view USU's IRB webpage.

· Students are permitted to enroll in dissertation credits in their last semester of coursework after they have successfully passed their comprehensive exams and received final approval for their application for candidacy.

Submission Deadline

- Doctoral students are encouraged to submit this form **by the end of their second year, as soon as their dissertation proposal is approved, all regulatory approval is complete, the student passes their comprehensive exams, and any other required forms for the proposal defense have been submitted and accepted** (see SGS Catalog Section 12.2 below for more information about all required forms needed prior to a student's dissertation proposal defense). **NOTE:** The Supervisory Committee Approval Form (SCAF) and the Program of Study (POS), should already be submitted and approved **by the end of the doctoral student's third semester** (see SGS Catalog Section 6.2., for information about the SCAF form, and SGS Catalog Section 7.3., for information about submitting the POS form).
- Verification of regulatory approval must be submitted to the School of Graduate Studies before the student's Application for Candidacy can be approved.
- The student, their Major Professor, Committee Members, Department Head, and IRB/IACUC (if needed) will receive an email notification from ServiceNow, to review and approve the Application for Candidacy form. Once all signatures are obtained electronically, all parties will receive a final email from Service Now with a completed form.
- **NOTE:** The Application for Candidacy (ACCD) Form should be submitted **at least three months prior to the student's final defense.**

Section 11. Graduate Certificates

11.1. Definition

· A graduate certificate is a post-bachelor's or post-master's certificate which must be less than 30 credits per Policy R402. It is stackable if, after its completion, it is eligible to meet degree completion requirements for a subsequent graduate degree or certificate. Students enrolled in a graduate certificate (i.e., post-bachelor's or post-master's certificate) program are considered graduate students under Utah State University policy.

11.2. Graduate Certificates

· These certificates are either post-bachelor's or post-master's credentials and include only courses at the 5000 level or above. Students must hold a bachelor's degree prior to admission into the certificate program. These certificates may be stacked into a graduate degree or certificate if designated as stackable. Degree programs that accept stackable graduate certificates to meet degree requirements must specify which certificates they accept and how each will count toward degree requirements. However, stackable certificates cannot offset more than the total number of credits in the certificate at or above the 6000-level plus up to 12 credits at the 5000-level. Certificate programs are subject to same policies, procedures, and standards as graduate degree programs, including all university admissions and awarding policies (e.g., GPA, degree verification, program of study). Certificate programs may adopt more stringent GPA requirements than the School of Graduate Studies requires.

11.3. Graduate Certificate Stackability

· Every graduate certificate must be officially designated as either "stackable" or "not stackable" in the R401. If it is stackable: Every student must go through a separate admissions process, unless currently enrolled in the certificate program at the time of adoption of this policy. If it is not stackable: Students do not need to apply separately if they are already enrolled in a graduate degree program at the university (concurrent enrollment form required).

· If a student wishes to apply a stackable graduate certificate to a graduate degree, it must be applied to the degree's program of study within six years of certificate completion. Course revalidation requirements apply only prior to certificate completion. Once the certificate is awarded, revalidation does not apply.

· Once a graduate certificate is awarded, the certificate may be included on a program of study toward a degree which names the certificate. Courses can be applied to a degree individually only before the certificate is completed (e.g., a student chooses to matriculate into a graduate degree program without completing the certificate and applies the courses to the degree's program of study). The date of completion is the date the credential is posted to the transcript.

· Graduate courses included in a program of study for a degree program may be simultaneously applied to a non-stackable certificate.

Section 12. Thesis, Dissertation, Plan B Paper or Project

A graduate student does not automatically graduate with their degree once they defend or submit their thesis, dissertation, or Plan B paper/project. All other program and university requirements must be successfully fulfilled (for reference, please see SGS Catalog Section 8 for Master's Degrees or Section 10 for Doctoral Degrees). The deadline for completing degree requirements is the last day of the semester at 5:00pm. Students with further questions, may contact their Graduate Program Coordinator.

12.1. Publication Requirements

Before beginning work on a thesis, dissertation, or Plan B paper/project, graduate students should review the School of Graduate Studies Publication Guide and are encouraged to attend a Thesis and Dissertation Information Session, held in-person and via Zoom.

Master's Plan A and PhD students need to have a citation style guide/formatting guide/target journal for the overall paper or for each chapter. A citation style guide/manual is contingent on academic discipline. It dictates the information necessary for a citation and how the information is ordered, as well as punctuation and formatting.

Theses, projects, or dissertations may be prepared in either monograph or multiple-paper format.

· **Monograph Format:** This, the 'traditional' format, consists of a multi-chapter document that uses the same style throughout.

· **Multiple-Paper Format:** A thesis or dissertation using this format consists of at least two chapters, typically written as independent papers, preceded by an introductory chapter that sets the context for the research, and followed by a summary and conclusions chapter that integrates all the studies.

The content of a thesis, project, or dissertation must be approved by the student's supervisory committee in two (2) stages: a proposal defense and a final defense.

· A thesis/project/dissertation proposal delineates the scope of scholarly work for a thesis, project, or dissertation. Once the committee approves the proposal in the proposal defense, the document is considered a binding agreement between the student and the committee regarding expectations for the final thesis, project, or dissertation.

· A final thesis/project/dissertation defense consists of a student delivering a presentation on the substance of their final thesis, project, or dissertation document and responding to questions or concerns raised by the committee. Following a successful defense, only minor edits to the document might be expected.

· As thesis/project/dissertation proposals and final documents are developed, drafts of sections should be submitted periodically to the major professor for critique.

· Committee members should be consulted, especially on sections that involve their special expertise.

Preparation of a Plan A thesis, Plan B paper/project, or dissertation is the culminating learning experience for a graduate student.

· The quality of the manuscript or project, which should represent the student's own best work, is the responsibility of the student.

· Monitoring the quality of the Plan A thesis, Plan B paper/project, or dissertation and mentoring the student in writing are responsibilities of the major professor, with the assistance of the supervisory committee.

· Editing by anyone other than the major professor and the supervisory committee should be limited to mechanics, such as spelling and grammar.

Publications or manuscripts of which the student is a co-author may be included if the committee determines that the student made a substantial intellectual contribution to the work.

· Permission to include a publication or manuscript in a thesis, project, or dissertation does not depend on the order of authorship.

· Any included publication or manuscript must be a logical component of the overarching theme or themes addressed by the entire thesis, project, or dissertation, which, as a whole, must represent the student's individual and original effort.

· When reprint permission is required, the student is responsible for obtaining said permission from the copyright holder for any published works included as part of the thesis, project, or dissertation, and the manuscript must adhere to stated attribution and citation requirements.

· A program may require manuscripts to be submitted for publication as part of its degree completion requirements. However, actual publication of a manuscript cannot be a degree requirement, and time to degree cannot be extended to accommodate publication of a manuscript.

12.2. Proposal Defense Requirements

Any proposal defense held without following the proper procedures as listed in this catalog may be invalid. All committee members **must** attend the proposal defense at the date and time registered with the School of Graduate Studies. While in-person defense is preferred and recommended, members of the committee may participate remotely with both audio and video interaction.

Students should work with their committee members to arrange defense participation and details prior to submitting an Appointment for Thesis/Project/Dissertation Proposal Defense (AFP) form. **The form must be submitted at least 10 workdays prior to their proposal defense.**

· If the Appointment for Thesis/Project/Dissertation Proposal Defense (AFP) is not fully approved before the date of defense, the defense is not official and will need to be rescheduled.

· If necessary, an appeal can be made to the Vice Provost for Graduate Studies.

· Once an Appointment for Thesis/Project/Dissertation Proposal Defense (AFP) has been approved by the committee and the School of Graduate Studies, any changes to the date, time, and/or location require the submission and approval of a new Appointment for Thesis/Project/Dissertation Proposal Defense (AFP).

A proposal defense must include a vote to either pass or fail a proposal. Any changes made to the scope of the proposal during the proposal defense must be recorded in writing prior to the vote of the committee. If the proposal passes, it is considered to include the written change of scope. The student and all members of the committee must retain a copy of the text documenting a change in scope.

Proposal defenses cannot be suspended or cancelled once underway. The only possible outcomes of the proposal defense are a pass or fail decision by the committee. If the student fails the proposal defense, they may schedule a second defense in coordination with their major professor once the feedback from the supervisory committee during the first defense is addressed in a revised proposal document.

The results of the proposal defense and any additional requirements are recorded on the Record of Thesis/Project/Dissertation Proposal Defense (ROP) form, which is submitted to the School of Graduate Studies by the student's Graduate Program Coordinator.

All **Master's Plan A and Plan B students** should submit a Thesis/Project Approval (TPA) form to confirm they have successfully defended their thesis or Plan B paper/project proposal with committee approval before the final defense. **NOTE:** The School of Graduate Studies does not require proposal defenses for Plan B papers/projects **that do not include empirical research**.

· This form is also used to document that the student has obtained any necessary regulatory approvals (IRB, IACUC, etc.) (see SGS Catalog Section 5.1 above) and completed any safety trainings necessary. The form should therefore be submitted after the student's committee approves the thesis/project research proposal, and prior to the student conducting their research.

· For updates on IRB regulations and to determine whether a student's research requires IRB approval, view USU's IRB webpage.

· Verification of regulatory approval must be submitted to the School of Graduate Studies before the student's Thesis/Project Approval (TPA) can be approved.

· The student, their major professor, Committee Members, Department Head, and IRB/IACUC (if needed) will receive an email notification from ServiceNow, to review and approve the Thesis/Project Approval form. Once all signatures are obtained electronically, all parties will receive a final email from Service Now with a completed form.

· The student's thesis or Plan B paper/project defense is scheduled after the Thesis/Project Proposal Approval form is accepted.

Master's Plan A and Plan B students are encouraged to submit the Thesis/Project Approval (TPA) form **by the end of their second semester, after submitting and receiving approval for the Supervisory Committee Approval Form (SCAF) and the Program of Study (POS)** (see SGS Catalog Section 6.1., for information about the SCAF form, and SGS Catalog Section 7.3., for information about submitting the POS form)**, a successful thesis/project proposal defense, all regulatory approval is in place, and any other required forms for the proposal defense have been submitted and accepted.**

For **doctoral students**, the submission of the Application for Candidacy (ACCD) Form is a significant point in the student's program because the Major Professor, Supervisory Committee, and Department Head thereby attest that the student is ready to conduct independent dissertation research—although successful completion is not guaranteed.

· This form is also used to document that the student has obtained any necessary regulatory approvals (IRB, IACUC, etc.) (see SGS Catalog Section 5.1 above) and completed any safety trainings necessary. The form should therefore be submitted after the student's committee approves the dissertation research proposal, and prior to the student conducting their research.

· For updates on IRB regulations and to determine whether a student's research requires IRB approval, view USU's IRB webpage.

· Verification of regulatory approvals must be submitted to the School of Graduate Studies before the student's Application for Candidacy can be approved.

· Students are permitted to enroll in dissertation credits in their last semester of coursework after they have successfully passed their comprehensive exams and received final approval for their application for candidacy.

Doctoral students are encouraged to submit this form **by the end of their second year, as soon as their dissertation proposal is approved, all regulatory approval is complete, the student passes their comprehensive exams, and any other required forms for the proposal defense have been submitted and accepted. NOTE:** The Supervisory Committee Approval Form (SCAF) and the Program of Study (POS), should already be submitted and approved **by the end of the doctoral student's third semester** (see SGS Catalog Section 6.2., for information about the SCAF form, and SGS Catalog Section 7.3., for information about submitting the POS form).

· The student, their Major Professor, Committee Members, Department Head, and IRB/IACUC (if needed) will receive an email notification from ServiceNow, to review and approve the Application for Candidacy form. Once all signatures are obtained electronically, all parties will receive a final email from Service Now with a completed form.

· **NOTE:** The Application for Candidacy (ACCD) Form should be submitted **at least three months prior to the student's final defense.**

12.3. Final Defense Requirements

Any final defense held without following the proper procedures as listed in this catalog may be invalid. Full-time students must be registered for **at least 3 credits** during the semester in which they defend their thesis, dissertation, or Plan B paper/project.

Domestic students may be registered for 1 credit during their defense semester; however, they will hold part time status. Students receiving financial aid are likely to be required to maintain full time status, so it is strongly advised to check with the Office of Student Financial Support before electing to take only 1 credit.

International students must be registered for 3 credits if they defend in Fall or Spring semesters with an approved Full-Time at 3 Credits (FT3) form. However, they may register for 1 credit if they are defending in the summer semester with an approved Reduced Course Load (RCL) form in their SEVIS record, and their program's policy allows for it.

· **NOTE: A Reduced Course Load (RCL) form can only be used one time and therefore cannot be used after the completion of the grace semester (see SGS Catalog Section 4.8.).**

· If International Students have any questions about the Full-Time at 3 Credits (FT3) form or the Reduced Course Load (RCL) form, they should contact the Office of Global Engagement.

When the final defense is scheduled during a semester break, the student must enroll for at least 3 credits the following semester.

All defenses are public. All committee members **must** attend the defense at the date and time registered with the School of Graduate Studies. While in-person defense is preferred and recommended, members of the committee may participate remotely with both audio and video interaction. Students should work with their committee members to arrange defense participation and details prior to submitting an Appointment for Thesis/Project/Dissertation Defense (AFD) form.

Students should review their official committee to make sure it is correct. Changes in the membership of a supervisory committee **cannot be made during the six weeks prior** to the defense without a written request from the department head and approval of the Vice Provost of Graduate Studies. For questions about Supervisory Committees, please review SGS Catalog Section 6 above.

No committee member should agree to proceed with a defense until they have carefully read and agreed with the defensibility of the dissertation. The final defense should be scheduled by the student after all courses and the thesis, Plan B paper/project, or dissertation are completed.

12.4. Before the Final Defense

Students should determine when they need to have their degree in hand. The student should work with their Major Professor, Committee, and GPC, to determine a timeline for their thesis, Plan B paper/project, or dissertation completion. The submission deadline and the degree conferral date can be reviewed on the Graduate School Deadlines page.

· In order to meet the deadlines, students should submit their documents no later than 3 weeks before the last day of the semester.

· We cannot guarantee that paperwork will be processed in time to award a degree in the current semester if all materials are not submitted in final form by the submission deadline.

· All graduate degrees will be awarded within 45 days of the degree conferral date.

Students should submit their thesis, plan B paper/project, or dissertation to each committee member at least 4 weeks prior to their defense date for review.

Students should meet with their GPC to review and do the following:

· Conduct a final review of their official forms to make sure they are correct.

· SCAF and POS forms are approved and accurate.

· Discuss any departmental requirements.

· Review their official degree and plan type and ensure they are correct in Banner.

· Discuss how the defense room is reserved.

· Reserve a room.

Students must submit their Appointment for Thesis/Project/Dissertation Defense (AFD) form **at least 10 workdays prior to their defense.**

· When students fill out the AFD form, they will need to review their official committee to make sure that it is correct.

· Students should check on the progress of approvals for their AFD follow up with GPC and/or committee members to make sure it is approved in a timely manner.

· If the Appointment for Thesis/Project/Dissertation Defense (AFD) is not fully approved before the date of defense, the defense is not official and will need to be rescheduled. If necessary, an appeal can be made to the Vice Provost for Graduate Studies.

· Once an Appointment for Thesis/Project/Dissertation Defense (AFD) has been approved by the committee and the School of Graduate Studies, any changes to the date, time, and/or location require the submission and approval of a new Appointment for Thesis/Project/Dissertation Defense (AFD).

12.5. During the Final Defense

Students must be registered for at least 3 credits the semester they first defend a thesis, Plan B paper/project, or dissertation, or take final oral examinations.

The oral examination of the thesis, Plan B paper/project, or dissertation is a defense of a final document.

· Only minor changes, usually editorial, should be required following the defense. These changes must be completed by the end of the grace semester. Changes that take longer than the duration of the grace semester to complete will be assumed to be major and require a new defense.

· If all revisions are not complete by the end of the grace semester following a successful defense, then the major professor, with support of all members of the supervisory committee, may submit an appeal to the Vice Provost of Graduate Studies, justifying why the student should not be required to defend the thesis, Plan B paper/project, or dissertation a second time.

· If major changes are required, a defense of the revised document should be held. The student must be registered for at least 1 credit during the semester of a new defense.

During the defense, the student defends their thesis, Plan B paper/project, or dissertation and answers questions about the research or related topics.

· The results of the defense and any additional requirements are recorded on the Record of Thesis/Project/Dissertation Defense (ROD) form, which is submitted to the School of Graduate Studies by the student's Graduate Program Coordinator.

· All members of the supervisory committee must approve and sign the thesis, Plan B paper/project, or dissertation. In the event of lack of unanimity, the matter is taken to the Vice Provost of Graduate Studies.

Any final examination held without following the proper procedures may be invalid.

· If all degree requirements are not complete by the end of the grace semester following a successful defense, then the major professor, with support of all members of the supervisory committee, must submit an appeal to the Vice Provost of Graduate Studies, justifying why the student should not be required to defend the thesis, Plan B paper/project, or dissertation a second time.

· Students must register for at least 1 credit the semester of their second defense.

12.5.1. Votes on Graduate Student Supervisory Committees

To be considered successful, it is expected that all members of a supervisory committee will approve the Ph.D. dissertation proposal or M.S. thesis proposal during a proposal defense. Likewise, it is expected that all members of the supervisory committee will approve the final Ph.D. dissertation, M.S. thesis, or Plan B paper/project for the final defense to be considered successful. However, for the final defense of a doctoral dissertation, a defense can be successful with a vote of 4 members in favor and 1 against or abstaining.

In all cases, the vote of each member of the committee during the defense constitutes their approval or disapproval of the proposal, thesis, Plan B paper, or dissertation. All members of the committee are required, as a condition of committee membership, to sign the forms associated with a successful defense, regardless of the member's individual vote. Committee members' signatures reflect concurrence that all policies and procedures of the thesis, Plan B paper/project, or dissertation proposal or final process were followed.

Any instances of a thesis or Plan B paper/project receiving only 2 votes in favor (out of 3) or a dissertation receiving 3 votes in favor (out of 5) that cannot be resolved by discussion of the committee shall be referred to the Vice Provost of Graduate Studies for resolution.

12.6. After the Proposal or Final Defense

The student should be informed of the defense results at the conclusion of the defense. The major professor or designated committee member should inform the GPC of the results of the defense as soon as possible. The GPC will then submit the Record of Thesis/Project/Dissertation Proposal Defense (ROP) or Record of Thesis/Project/Dissertation Defense (ROD) in ServiceNow, and the committee will verify the results of the defense. The student should discuss the ownership of data and authorship rights with their committee. Master's Plan A and Doctoral students should review and submit the Format & Style form and Authorship & Copyright form, and Title Page.

12.6.1. Grace Semester

Master's and doctoral students will be given until the last day of the next semester (spring, summer or fall) following a successful defense to complete remaining degree requirements.

This is the "grace semester" and does not require students to be registered for credits unless needed to remain compliant with F-1 or J-1 visa criteria. **NOTE:** International students who have questions about F-1 or J-1 visa criteria, should contact the Office of Global Engagement.

For more information about the grace semester, please review SGS Catalog Section 4.8. above.

12.7. Thesis & Dissertation Review and Submission Process

Following the successful final defense of a thesis or dissertation, the student is responsible for completing any necessary edits, proofreading, and having it read and approved by the department before it is submitted to the School of Graduate Studies for review or, if it is a Plan B paper/project, deposited in the institutional repository. When the student is completely done editing their thesis/dissertation, they should have their GPC or departmental reviewer submit it for review to the School of Graduate Studies.

Once the document has been approved by the School of Graduate Studies, a final copy, including a title page that has been signed by all committee members, must be submitted online to the School of Graduate Studies for the Vice Provost's signature.

After the defense, the following forms should be submitted in Service Now:

(All forms can be found on the Service Now platform)

- Dissertation/Thesis Format and Style/ETD form
- Authorship and Copyright form
- Embargo Request form (optional)
- Title Page

The student's paper cannot be checked into the School of Graduate Studies queue for review until all the required forms are submitted and approved, their GPC has uploaded their completed thesis/dissertation to their review file, and their GPC has emailed the Graduate School Thesis/Dissertation Reviewer indicating that everything is in their file.

Students should also review final semester information for other deadlines and requirements.

Emails generated through Service Now will be sent to the student/GPC indicating when the forms have been completed, when to upload the student's paper, when the student has been added to the queue, and when the student's paper has been processed by USU Libraries.

- All papers in the queue are processed in the order in which they are added. **NOTE:** Requests for expedited reviews will be reviewed on a case-by-case basis with no guaranteed approval.
- Students should allow at least three weeks for the initial review of their thesis or dissertation once it has been added to the queue (time to the initial review will vary based on the number of papers in the queue).
- If the student formatted chapters in accordance with a particular journal, please also submit to the School of Graduate Studies a sample(s) of target journal styles in PDF format.

Once a student's thesis, dissertation, or Plan B paper/project has been finalized by the School of Graduate Studies and/or approved for deposit in USU's institutional repository, the School of Graduate Studies will verify that all degree requirements have been met.

NOTE: Absolutely no changes will be accepted to the thesis or dissertation after it is accepted for deposit into USU's institutional repository.

Students requesting an embargo are required to deposit a physical copy of their paper with USU Libraries. The student will receive an email from USU Libraries (**sent to their official USU email address**) with instructions to complete this step. USU Libraries will notify the student and the School of Graduate Studies once the manuscript is accepted. The School of Graduate Studies will contact the student to let them know if anything on the Completion Checklist is incomplete. **Theses and dissertations must be submitted at least 3 weeks before the end of the semester.** Please review the School of Graduate Studies Submission Deadlines.

12.8. Plan B Project Submission Process

Plan B papers/projects must:

- Follow **the same format specifications** as theses and dissertations (see Section 12.1. above).
- Reflect equivalent standards of scholarship, though they may be less intensive and not require the same level of originality as a Plan A thesis.
- Following the defense, some departments and programs require students to deposit Plan B papers/projects into the institutional repository. Major advisors are required to review and approve the submission, but the paper is not formally reviewed by the School of Graduate Studies or signed by the Vice Provost for Graduate Studies.
- Once a student's Plan B paper/project has been finalized by the School of Graduate Studies and/or approved for deposit in USU's institutional repository, the School of Graduate Studies will verify that all degree requirements have been met.
- **NOTE:** Absolutely no changes will be accepted to the Plan B paper/project after it is accepted for deposit into USU's institutional repository.
- Students requesting an embargo are required to deposit a physical copy of their paper with USU Libraries. The student will receive an email from USU Libraries (**sent to their official USU email address**) with instructions to complete this step.
- USU Libraries will notify the student and the School of Graduate Studies once the manuscript is accepted.

Submission and Review

- Plan B papers/projects **are defended but are not formally reviewed** by the School of Graduate Studies, nor signed by the Vice Provost for Graduate Studies.
- Instead, they must be submitted directly to USU Libraries and uploaded to the **institutional repository**. See Plan B Report/Creative Project Submission Form.
- **Plan B papers/projects, must be submitted at least 3 weeks before the end of the semester.** Please review the School of Graduate Studies Submission Deadlines.
- Once accepted, **USU Libraries personnel will notify** both the student and the School of Graduate Studies.

12.9. Embargo Policy

If a student elects to embargo their work, they must submit an embargo request form to initiate the process, and the form and all additional steps must be complete by the School of Graduate Studies degree completion deadlines. An embargo means that the student's work will be unavailable to read online for 5 years.

- A thesis, Plan B paper/project, or dissertation must not contain material that cannot be disclosed publicly. However, it is occasionally in the University's best interest to delay disclosure of the contents of a thesis, Plan B paper/project, or dissertation while patenting and/or commercial development possibilities are investigated or for a period of report review by a funding agency.
- In such cases, electronic publication of a thesis, Plan B paper/project, or dissertation through submission to the institutional repository and to ProQuest (UMI) may be delayed without delaying awarding the student's degree.
- Embargo of a thesis, Plan B paper/project, or dissertation must be approved by the student's advisor, department head, and the Vice Provost of Graduate Studies.

· In addition, a printed copy of the thesis, Plan B paper/project, or dissertation must still be submitted to USU Libraries in accordance with the School of Graduate Studies degree completion deadlines.

· A copy of the publication delay policy and the procedure for requesting an embargo may be found on the USU Libraries website and the Merrill-Cazier Library website.

· If a student is unsure whether to embargo or not, please have them contact USU Libraries via email at digitalcommons@usu.edu.

Section 13. USU Graduate School Deadlines

For submission deadlines, and degree conferral dates, please review the Graduate School Deadlines page.

Section 14. Graduation Application Requirement

All graduate students – regardless of plan type – must complete a graduation application for the correct semester in which they intend to graduate. **Note:** A $15 fee must be paid when the graduation application is submitted for each degree program.

Reminder: Graduate students may submit only one graduation application per program.

14.1. Graduation Date Adjustments

Graduation dates will be manually updated by the Graduate School Registrar when the student's degree is finalized. If a student has the wrong semester listed, the Graduate Program Coordinator must provide a list to the Graduate School Registrar so corrections can be made.

14.2. Diploma & Degree Awarding

In order to officially graduate and receive a diploma, graduate students must:

· Complete all graduate degree requirements. **NOTE:** To review graduate degree requirements, please see SGS Catalog Section 8 for Master's degrees and Section 10 for Doctoral degrees.

· Submit a graduation application.

Once all graduation requirements have been met, students can expect to have their degree awarded **within 45 days of the degree conferral date**.

Section 15. Reasons Graduate Students Will Be Denied for Graduation

To ensure timely graduation, students must meet all academic and administrative requirements. Below is a list of common reasons a student may be denied graduation:

15.1. Missing Requirements

Unmet degree or credit requirements. To be awarded a graduate degree, students must fulfill all degree requirements. No verified degree from previous institution(s). Official transcripts must show degree earned and conferral date.

NOTE: Official transcripts should be received by the School of Graduate Studies (SGS) no later than the student's first semester to avoid a hold on their account (see SGS Catalog Section 1: Graduate Admissions Policies).

Missing Required Forms – Master Plan A

· Supervisory Committee (SCAF) Form

· Program of Study

· Appointment for Thesis/Project/Dissertation Proposal Defense (AFP)

· Thesis/Project Approval (TPA)

· Record of Thesis/Project/Dissertation Proposal Defense (ROP)

· Appointment for Thesis/Project/Dissertation Defense (AFD)

· Authorship & Copyright

· Format and Style

· Title Page

· Graduation Application

· Record of Thesis/Project/Dissertation Defense (ROD)

Missing Required Forms – Master Plan B

· Supervisory Committee (SCAF) Form

· Program of Study

· Appointment for Thesis/Project/Dissertation Proposal Defense (AFP)

· Thesis/Project Approval (TPA)

· Record of Thesis/Project/Dissertation Proposal Defense (ROP)

· Appointment for Thesis/Project/Dissertation Defense (AFD)

· Plan B Report/Creative Project Submission Form

· Graduation Application

· Record of Thesis/Project/Dissertation Defense (ROD)

Missing Required Forms – Master Plan C

· Program of Study

· Graduation Application

Missing Required Forms – Doctorate

- Supervisory Committee (SCAF) Form
- Program of Study
- Appointment for Thesis/Project/Dissertation Proposal Defense (AFP)
- Application for Candidacy (ACCD)
- Record of Thesis/Project/Dissertation Proposal Defense (ROP)
- Appointment for Thesis/Project/Dissertation Defense (AFD)
- Authorship & Copyright
- Format and Style
- Title Page
- Graduation Application
- Record of Thesis/Project/Dissertation Defense (ROD)

For more information about required academic forms, please visit the Academics and Forms page on the School of Graduate Studies website.

15.2. Registration Issues

The student is registered for classes in the following semester

15.3. Thesis/Plan B Paper or Project/Dissertation Issues

Thesis, Plan B Paper/Project, or Dissertation not defended (see SGS Catalog Section 12., for information about requirements related to a thesis, Plan B paper/project, or dissertation defense).

15.4. Grade Issues

- GPA below 3.0 on the Program of Study.
- Unresolved Temporary (T) grades – must be changed by Faculty.
- Unresolved Incomplete (I) grades – must be changed by Faculty.

For questions about graduate degree requirements, please review SGS Catalog Section 8 for Master's degrees, and Section 10 for Doctoral degrees.

Section 16. Graduation

16.1. Commencement Participation

Graduate students who graduate during the summer semester are eligible to participate in spring commencement of that academic year. For questions about commencement and convocation, please review the Utah State University Commencement page.

16.2. Graduate Student Diplomas

Diplomas for degrees conferred by the School of Graduate Studies are prepared by the main Utah State University Registrar's Office at the end of each semester once degrees are awarded. For further questions, please review the Frequently Asked Questions (FAQs) Page on the USU Registrar's website.

16.3. Graduate School Transcripts

The School of Graduate Studies does not issue official or unofficial copies of transcripts. Students and alumni may request their transcript records through the main Utah State University Registrar's Office.

16.4. Letters of Completion

Graduate students who have fulfilled all degree requirements before the end of the semester may request a letter from the School of Graduate Studies verifying degree completion for employment purposes.

Students may request a letter of completion by emailing the Graduate Registrar. A request for a letter of completion may take up to 24-48 work hours to complete. **NOTE:** Letters of completion will not be issued until a student's thesis/dissertation has been reviewed by the SGS Thesis/Dissertation Reviewer and is ready to be transferred to USU Libraries for final processing. Master's Plan B Students must have submitted their paper/project to USU Libraries.

S.J. & Jessie E. Quinney College of Agriculture and Natural Resources

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Departments and Academic Programs

The **S.J. & Jessie E. Quinney College of Agriculture and Natural Resources** offers over 200 academic programs in the following 12 departments: A full listing of available academic programs can be found in the USU Degree Finder.

- Animal, Dairy, and Veterinary Sciences (ADVS)
- Applied Economics (APEC)
- Applied Sciences, Technology, and Education (ASTE)
- Aviation Technology (AVTE)
- Environment and Society (ENVS)
- Geosciences (GEO)
- Landscape Architecture and Environmental Planning (LAEP)
- Nutrition, Dietetics, and Food Sciences (NDFS)
- Plants, Soils, and Climate (PSC)
- Technology, Design, and Technical Education (TDTE)
- Watershed Sciences (WATS)
- Wildland Resources (WILD)

Overview

The S.J. & Jessie E. Quinney College of Agriculture and Natural Resources (QANR) at Utah State University embodies the university's land-grant mission through its commitment to education, research, and community engagement. With more than 250 faculty members, the college provides outstanding educational opportunities in over 200 degree and certificate programs across the Logan campus and statewide system. The Quinney College's academic offerings are unusually diverse for a single college, spanning agriculture, natural resources, and applied sciences, yet every department shares a commitment to innovative experiential learning, hands-on research, and interdisciplinary collaboration.

The Quinney College integrates applied research, teaching, and outreach to prepare students to address complex local and global challenges in a wide range of areas including sustainable agriculture, ecosystem management, water and land management, food security, technological innovation, and much more. Faculty and students collaborate through programs such as USU Extension and the Utah Agricultural Experiment Station, translating research into practical solutions for communities throughout the state. Through immersive field experiences, internships, and research opportunities, students gain the skills and knowledge necessary to become leaders in their fields. By fostering innovation, service, and sustainability, the Quinney College continues to advance Utah State University's land-grant mission and shape the next generation of professionals who will improve lives, protect natural resources, and support resilient communities locally, nationally, and globally.

Admission Requirements

Undergraduate students accepted in good standing by Utah State University are eligible for admission to the Quinney College. Certain professional programs, including Professional Pilot, Outdoor Product Design and Development (OPDD), and Dietetics, among others, have limited enrollment and specific admission requirements. Applicants should consult individual program listings in the USU Catalog for detailed admission criteria and graduation requirements.

Academic Support

Academic Advising

Academic advisors in the Quinney College provide personalized support to help students navigate their academic journey. They assist with course planning, degree progress, and connecting students to experiential learning opportunities such as internships, research, and study abroad. Academic advisors also guide students in exploring career paths, accessing campus resources, and overcoming challenges to ensure their success from enrollment through graduation. To schedule an appointment with an academic advisor, please go to this website: https://qanr.usu.edu/advising/

Financial Support

Scholarships

The Quinney College provides more than **$1.5 million in scholarships** annually to undergraduate and graduate students. Additional funding opportunities are available through assistantships, **internships and experiential learning programs** supported by the college, state agencies, and federal partners. More information can be found on the College's scholarships website at https://qanr.usu.edu/students/scholarships.

Graduate Assistantships

Graduate students may receive financial assistance through **research and teaching assistantships** awarded by individual departments. Students are encouraged to contact their **major professor** or **graduate program coordinator** for details regarding available opportunities.

Graduate Fellowships

Fellowships and tuition waivers are awarded to incoming graduate students on a competitive basis. Interested students should consult their **major professor** or **department office** for specific information.

Student Opportunities

Undergraduate Research

The Quinney College provides an outstanding environment for **undergraduate research**. Students interested in pursuing research projects should consult their **academic advisor**, a **faculty mentor**, or an **associate dean** to identify opportunities aligned with their interests.

Student Leadership and Engagement

Beyond coursework and research, the Quinney College places a strong emphasis on leadership development and community engagement. Undergraduate students have opportunities to serve as College Ambassadors or participate in the College Student Council, while graduate students can get involved through the Graduate Student Council. The College also encourages students to join student clubs and professional organizations, offering valuable avenues for professional growth, networking, and service.

Academic Policies and Practices

- "A" Pin Award
- Academic & Registration Calendars
- Academic Grievances
- Academic Honesty/Integrity
- Academic Record Adjustment (ARA)
- Academic Renewal
- Academic Standing
- Accounts Receivable Procedures
- Adding Courses
- Admission: Graduate Students
- Admission: Undergraduate Students
- Assumption of Risk
- Attendance and Excused Absences
- Auditing Classes
- Catalog Year Policy
- Changes in Registration: Dropping, Withdrawing, and Late Semester Requests
- Civil Rights & Title IX Office
- Complete Withdrawal from the University
- Concern and Resolution Resources for Online Courses
- Conflicts with Beliefs, Alternative Course Requirements
- Course Fees
- Course Numbering System Overview
- Credits Awarded for Courses
- Credits, Maximum and Minimum Required for Degree
- Delinquent Financial Accounts
- Disability Related Accommodations
- Disruptive Classroom Behavior
- Dual and Composite Majors
- Email Communication Policy
- Exceptions to General Education Requirements
- Faculty Standards of Conduct
- Family Educational Rights and Privacy Act (FERPA)
- Federal Funds - Repayment
- Final Examination Policies
- Financial Aid Regulations
- Foreign Language Examinations
- Full-time Status
- General Education Requirements
- Global Engagement
- GPA Hours and Quality Points
- Grades - Posting
- Grading Deadlines
- Grading Policy
- Graduate Degrees, Concurrent
- Graduate Degree Requirements
- Graduation, Applying for
- Honor Roll (Dean's List)
- Incomplete (I) Grade
- International Undergraduate Student Admission and Programs
- Judicial Obligations
- Major Policy, Undeclared
- Math Placement | ALEKS PPL (Preparation, Placement, and Learning)
- Military Credit
- Nonattendance Policy
- Notification of Leave
- Pass (P), D+, D, F Option
- Payment Plan
- Placement Tests and Credit by Examination
- Prerequisites, Approval and Enforcement
- QL/QI Accommodation
- Registration Requirement
- Repeated Courses
- Research Approval
- Research Misconduct
- SAT Math to ACT Math Concordance Table
- Scholastic Honors at Graduation

- Student Records
- Student Right-to-Know and Campus Security Act
- Student Standards of Conduct
- Temporary (T) Grade
- Transcripts
- Transfer Credit
- Tuition, Fees, and Refunds
- Tuition Surcharge for Excessive Credits
- Undergraduate Degree Enrichment
- Undergraduate Academic Credential Requirements
- University Honors Program
- University-initiated Leave of Absence
- University Research
- University Studies Depth Requirements
- Valedictorian Selection Criteria
- Waitlisting
- Western Regional Graduate Programs (WRGP)

Aerospace Studies Department

Aerospace Studies

Department Head: Lieutenant Colonel Jessica Mathews
Location: Military Science Building, Room 107
Phone: (435) 797-8723
FAX: (435) 797-8677
E-mail: afrotc.det860@usu.edu
Website: afrotc.usu.edu

Undergraduate Programs

Objectives

Air Force ROTC provides educational experiences that develop skills and attitudes vital to the career of an Air Force officer. The purpose of the courses within AFROTC is to give an understanding of the mission and the global responsibilities of the United States Air Force. The academic phase develops background in national and international affairs to help understand and evaluate world events.

In addition, the curriculum includes experiences designed to stimulate and develop an interest in the Air Force (e.g., orientation flights and visits to Air Force bases); opportunities to apply the principles of leadership, human relations, management, and staff work in practical situations; and other related experiences.

Upon completion of an undergraduate degree of the student's choosing and the Air Force ROTC program, the cadet will commission as an officer into the Air Force or Space Force.

Requirements

GPA Requirements
All previous coursework attempted will be used to calculate the ROTC institution GPA. Cadets must have an institution GPA of 2.0 or greater to remain as an active cadet in Air Force ROTC. In order to be nominated for scholarship, to compete for an enrollment allocation or to contract, institution GPA must be above a 2.5.

Physical Fitness, Mental, and Medical
All students must meet the physical fitness standards provided by the Air Force and medical standards for general military service through the Department of Defense Medical Examination Review Board before being selected for Field Training.

Age Limitations
Pilot and navigator category applicants must enter undergraduate flying training prior to age 32. Other applicants must receive an enrollment allocation before reaching age 39. The maximum age restriction may be waived for individuals scheduled for commissioning after age 39, but prior to age 42. By law, scholarship recipients must be under age 30, as of December 31 of the calendar year during which commissioning is scheduled. **Title 10, *United States Code*, Section 2107 does *not* provide for waivers.**

Veterans

Veterans may apply for the Air Force ROTC program if they meet the academic, physical, medical and age qualifications.

Commitment

Most officers have a four-year commitment. However, pilots have a commitment of ten years after pilot training, and combat systems operators, air battle managers and remotely piloted aircraft pilots have a commitment of six years after their training. Cadets are not committed to joining the Air Force unless they have finished Field Training (Summer after Sophomore year) or receive an AFROTC scholarship.

Future Educational Benefits

During their senior year, a cadet may request a delay to active duty to continue studies toward a graduate degree. The length of the delay depends upon the student's request and the Air Force needs.

Through a variety of Air Force programs, officers may continue their education after going on active duty. Most bases have extensive on base graduate college programs. ROTC graduates may be eligible for the Montgomery GI Bill®, *the post 9/11 GI Bill*® and/or the Tuition Assistance Program to pursue a graduate degree.

The Air Force Institute of Technology provides full-time graduate study for selected officers. Some classes are taught in residence at the institute's campus at Wright-Patterson Air Force Base in Ohio, and others are taught at civilian universities.

Many officers make the Armed Forces their career, but some use the skills and training obtained in military service for civilian jobs. Most private businesses and government agencies require the same basic skills that are needed for jobs in military service. Air Force training and experience provide excellent leadership skills and can be a valuable asset in obtaining civilian employment.

Additional Information

For additional details about requirements for the Aerospace Studies program, see the official AFROTC Detachment 860 webpage at usu.edu/aerospace/

Scholarships and Financial Opportunities

Air Force ROTC scholarships are available on a competitive basis in four-, three-, and two-year awards. These scholarships provide up to full tuition, laboratory and incidental fees, plus a $900-per-year allowance for textbooks. The High School Scholarship Program (HSSP) for high school students is announced annually through the Air Force ROTC website at: afrotc.com. This website contains information regarding eligibility requirements and application procedures, as well as an online application.

In College Scholarship Program (ICSP) (2.5 GPA): The ICSP is open to college freshmen and sophomores. This is open to students enrolled in the Air Force ROTC program. The detachment commander nominates eligible applicants for this scholarship. Nominees are rank-ordered based on their leadership abilities, grades, fitness, and overall participation in the Air Force ROTC program.

All students on contract (either on an Air Force ROTC scholarship or contracted in the Professional Officer Course) receive a tax-free stipend of $250-$500 for each month during the school year.

Uniforms and Texts

All Air Force ROTC texts and uniforms are furnished at no expense to the student.

Miscellaneous Information

Career Opportunities

To meet the challenges, keep up with technological advancements, and explore the opportunities of the ever-broadening horizons in the aerospace age, officers possessing a variety of skills are required by the Air Force. Interested students should contact the Aerospace Studies Department for information on the Air Force career opportunities related to their academic major.

**GI Bill® is a registered trademark of the U.S. Department of Veterans Affairs (VA). More information about education benefits offered by VA is available at the official U.S. government website at benefits.va.gov/gibill.*

FACULTY - College of Humanities and Social Sciences

Programs

Aerospace Studies - Minor

Courses

AS1010 - Heritage and Values - 1 - Credits
AS1020 - Heritage and Values - 1 - Credits
AS1110 - Leadership Laboratory I - 1 - Credits
AS1120 - Leadership Laboratory I - 1 - Credits
AS2010 - Team and Leadership Fundamentals I - 1 - Credits
AS2020 - Team and Leadership Fundamentals II - 1 - Credits
AS2110 - Leadership Laboratory II - 1 - Credits
AS2120 - Leadership Laboratory II - 1 - Credits
AS3010 - Leading People and Effective Communication I - 3 - Credits
AS3020 - Leading People and Effective Communication II - 3 - Credits
AS3060 - Physical Fitness Training - 1 - Credits
AS3110 - Leadership Laboratory III - 1 - Credits
AS3120 - Leadership Laboratory III - 1 - Credits
AS4010 - National Security and Preparation for Active Duty I - 3 - Credits
AS4020 - National Security and Preparation for Active Duty II - 3 - Credits
AS4110 - Leadership Laboratory IV - 1 - Credits
AS4120 - Leadership Laboratory IV - 1 - Credits

Animal, Dairy & Veterinary Sciences Department

Animal, Dairy and Veterinary Sciences

Department Head: Abby Benninghoff
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Phone: (435) 797-8649
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Associate Department Head of Academic Programs:
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Associate Department Head of Extension and Outreach:
Karl Hoopes, Agricultural Science 248C, (435) 797-2144, karl.hoopes@usu.edu

Undergraduate Advisors:
Tami Spackman, Agricultural Science 419, (435) 797-2150, tami.spackman@usu.edu
Allie East, Agricultural Science 418, 435-797-2194, allie.east@usu.edu
Caisa Shoop, Agricultural Science 420, (435) 797-4275, caisa.shoop@usu.edu

Overview

The Department of Animal, Dairy and Veterinary Sciences (ADVS) offers comprehensive educational programs at the certificate, associate, baccalaureate, master's, and doctoral levels. Our degree programs span diverse areas, including animal and dairy science, biotechnology, veterinary science, and equine science and management, with specialized graduate training in fields such as reproduction, nutrition, molecular genetics, and animal health and disease. Students benefit from hands-on, experiential learning opportunities in cutting-edge laboratories, research facilities, and field settings, preparing them for careers in agriculture, animal health, veterinary medicine, and beyond. Through integration of teaching, research, and Extension, the ADVS department fosters innovation, industry collaboration, and lifelong learning to meet local, national, and global challenges in animal and veterinary sciences.

Degrees Offered

Academic Certificates in Applied Animal Reproduction, Beef Cattle Management, Biotechnology, Dairy Cattle Management, Foundations in Animal Science, Humans and Animal-Assisted Interventions, Livestock Extension, and Sheep and Wool Production

Bachelor of Science (BS) in Animal and Dairy Science, BS in Biotechnology, BS in Equine Science and Management, and BS in Veterinary Science

Certificate of Completion (CC) in Ranch Horse Management

Institutional Certificate of Proficiency (ICP) in Equine-Assisted Services

Bachelor of Science (BS) in Animal and Dairy Science, BS in Biotechnology, BS in Equine Science and Management, and BS in Veterinary Science

Master of Public Health (MPH) in Veterinary Public Health

Master of Science (MS) and Doctor of Philosophy (PhD) in Animal, Dairy and Veterinary Sciences with graduate specializations: Animal Health and Disease, Animal Management, Animal Molecular Genetics, Animal Nutrition, and Reproduction and Development

Post-Bachelor's Certificate in Humans and Animal-Assisted Interventions

Undergraduate Minors in Animal Biotechnology, Animal and Dairy Sciences, Veterinary Science, and Equine Science

Full details of the learning objectives, assessment plan, student outcomes, and evidence of continuous improvement for these programs of study can be found at https://qanr.usu.edu/advs/assessment/.

ADVS Vision and Mission

Our mission is to advance animal, dairy, and veterinary sciences by integrating exceptional education, innovative research, and impactful Extension services. We provide experiential, hands-on learning opportunities that prepare students for diverse careers in animal-related fields. We foster a collaborative environment where undergraduates and graduate students engage in research that drives discovery and knowledge generation. Our applied research programs integrate with Extension outreach to address stakeholder needs, ensuring that the latest advancements in animal science benefit our community. By integrating research, teaching, and outreach, we contribute to lifelong learning, support industry growth, and foster community well-being, all while aligning with Utah State University's broader mission.

Our vision is to cultivate an environment where students, faculty, and industry partners work together to tackle the most pressing challenges in animal agriculture and veterinary science. We seek to inspire and equip the next generation of scientists and professionals with the skills and knowledge needed to lead the field while driving innovation in sustainable practices, animal health, animal models for human health, and community well-being. By integrating cutting-edge research, education, and outreach, we aim to shape the future of agriculture, contributing solutions that benefit Utah, the nation, and beyond.

Undergraduate Programs

Objectives

Our goal is to prepare students for success through exceptional, experiential, and inclusive learning opportunities that inspire growth and career readiness. To accomplish this objective, we will:

- Nurture a passion for animal, dairy, and veterinary sciences through dynamic learning experiences,
- Support students in identifying and achieving diverse career goals,
- Deliver forward-thinking curricula that address past, present, and future challenges across species and disciplines, and
- Enhance hands-on learning through internships, labs, and real-world experiences.

Description of Undergraduate Programs

Bachelor of Science Degree Programs

Our ADVS department offers four distinct Bachelor of Science degrees, each providing focused, hands-on training and academic preparation for careers in the dynamic fields of animal, dairy, and veterinary sciences. These programs are tailored to meet industry needs, prepare students for graduate or professional school, and develop future leaders who can drive innovation in animal science and agriculture.

B.S. in Animal and Dairy Science: The Animal and Dairy Science degree prepares students for diverse careers in animal and dairy agriculture, emphasizing sustainable practices through hands-on laboratory experiences and faculty-mentored research at USU's livestock facilities. Graduates are equipped for roles in production, government agencies, and agribusiness or can pursue advanced degrees in genetics, reproductive biology, nutrition, and management, aligning with our mission to advance agriculture through impactful education and research.

B.S. in Biotechnology: The Biotechnology degree combines theoretical and practical training, preparing students for diverse careers in biotechnology, including roles in healthcare, agriculture, pharmaceuticals, research, and government. Graduates gain a strong foundation to lead in biotechnological advancements or pursue advanced degrees.

B.S. in Equine Science and Management: The Equine Science and Management B.S. combines foundational science with specialized equine studies, offering students both classroom and hands-on learning in areas such as equine health, nutrition, management, and training. Guided by experienced faculty, students gain practical skills and industry connections, preparing them for diverse careers in the equine industry and supporting community well-being and economic growth through expertise in equine science.

B.S. in Veterinary Science: The B.S. in Veterinary Science is designed for students aiming to apply to veterinary schools, offering tailored coursework to meet diverse veterinary college requirements and optimize acceptance chances. This program also prepares graduates for careers in veterinary and animal healthcare or for advanced study in fields such as biological and healthcare sciences. Academic advising ensures each student's study plan aligns with their career goals and interests.

Undergraduate Certificate Programs

Undergraduate certificate programs are designed to provide students with focused, career-oriented skills and knowledge in a specific field, enhancing their employability and supporting workforce development.

Certificate of Completion in Ranch Horse Management: This certificate teaches students essential skills in equine care, ranching techniques, and stock handling, emphasizing safety, low-stress methods, and building effective horse-human partnerships for work in the ranching industry.

Institutional Certificate of Proficiency in Equine-Assisted Services: The Equine-Assisted Services Institutional Certificate of Proficiency (ICP) provides a foundational overview of the field of Equine-Assisted Services (EAS) in which horses are used in various therapies, learning environments, and adaptive equine sports and/or recreational lessons to benefit humans' mental, physical, and/or emotional health.

Applied Animal Reproduction – Academic Certificate: The Applied Animal Reproduction Academic Certificate equips students with specialized knowledge in reproductive anatomy, physiology, and technologies, including artificial insemination and breeding soundness exams, through hands-on coursework and experiential learning opportunities such as internships or research projects in applied animal reproduction.

Beef Cattle Management – Academic Certificate: The Beef Cattle Management Academic Certificate provides students with specialized training in beef production practices, nutrition, business management, and animal health, offering hands-on experience through in-person coursework and preparing them for careers in Utah's thriving beef cattle industry and related agricultural sectors.

Biotechnology – Academic Certificate: The Biotechnology Certificate provides students with specialized knowledge and hands-on experience in molecular biology and biotechnology techniques, including cell culture, molecular cloning, microscopy, and ethical considerations, preparing graduates for careers in agriculture, biotechnology, health sciences, and pharmaceutical industries.

Dairy Cattle Management – Academic Certificate: The Dairy Cattle Management Certificate provides students with specialized training in dairy production practices, herd health, nutrition, business management, and artificial insemination, offering hands-on experience to prepare graduates for careers in Utah's dairy industry and related agricultural sectors.

Foundations in Animal Science – Academic Certificate: The Foundations in Animal Science Academic Certificate provides students with a foundational understanding of animal science, including animal nutrition, livestock production systems, and hands-on management practices, offering a flexible entry point into animal agriculture careers or further education without committing to a full bachelor's degree.

Humans and Animal-Assisted Interventions – Academic Certificate: The Humans and Animal-Assisted Interventions Academic Certificate provides students with a strong foundation in the human–animal bond, animal welfare, and best practices for implementing animal-assisted interventions with diverse populations, preparing them for careers in mental health, social work, education, and allied health fields.

Livestock Extension – Academic Certificate: The Livestock Extension Academic Certificate prepares students for careers in Extension by providing specialized training in livestock production, management, leadership, and community programming, equipping them to effectively support Utah's agricultural communities through hands-on learning and real-world Extension practices.

Sheep and Wool Production – Academic Certificate: The Sheep and Wool Production Academic Certificate provides students with specialized training in sheep production practices, wool technology, animal nutrition, business management, and hands-on experience at a working sheep ranch, preparing them for successful careers in Utah's robust sheep and small ruminant industry.

Requirements for B.S. Degrees

Departmental Admission Requirements

- New freshmen: Admitted to USU in Good Standing
- Transfer students from other institutions or other programs at USU: 2.75 GPA

Departmental Standards

1. Attain a grade point average of at least 2.50 across all ADVS courses.
2. Courses required for the major may *not* be taken for a *pass/fail* grade, except for courses that are only offered as pass/fail.
3. Attain a GPA of at least 2.25 for all required courses for the major.

Undergraduate Program Assessment

The ADVS department assessment plan defines learning objectives for each of its undergraduate majors and certificates. These learning objectives are mapped to each of the required courses in each emphasis, so that they may be evaluated for their contribution to the program goals. Outcome measures have also been defined for each major and certificate, and a process has been implemented to conduct exit interviews with all graduating students in Animal, Dairy and Veterinary Sciences. Rate of admission to a professional veterinary medical program has been identified as a key critical outcome measure for the veterinary science major.

The ADVS department Undergraduate Curriculum Committee (UCC) oversees the assessment process, with input from the ADVS faculty annually. The UCC reports its assessment findings to the ADVS department head, as well as to faculty members, and incorporates these findings in its regular ongoing and periodic comprehensive reviews and revisions of the ADVS department undergraduate degrees and certificates.

Learning Outcomes for B.S. Degrees

Animal and Dairy Science, B.S. degree

Disciplinary knowledge

- Demonstrate foundational knowledge of core animal science concepts by identifying and explaining the anatomy, physiology, reproduction, nutrition, genetics, and health of common livestock species.
- Identify, apply, and analyze primary scientific literature to inform decisions associated with the latest advancements and best practices in animal production and management.
- Integrate knowledge of animal science disciplines and best management practices to optimize livestock production and enhance operational efficiency.

Skills and career competencies

- Apply critical thinking and problem-solving skills to address current and future challenges in animal science.
- Communicate effectively in written and oral formats and collaborate with peers to advocate for agricultural practices.
- Engage in exploratory and practical learning experiences, building competencies applicable to careers in animal science and related fields.

Biotechnology, B.S. degree

Disciplinary knowledge

- Apply fundamental knowledge of biological systems, physiology, genetics, biochemistry, and molecular biology to solve problems in biotechnology within animal agriculture and health sciences.
- Explain and evaluate the scientific principles underlying genetic engineering, molecular cloning, and cell culture techniques.
- Identify, apply, and analyze primary scientific literature to assess advancements in biotechnology applications in animal agriculture and health sciences.

Skills and career competencies

- Apply critical thinking and problem-solving skills to address ethical issues in biotechnology.
- Apply molecular, cellular, and microscopy techniques and evaluate their effectiveness in various research and industry settings.
- Collaborate and communicate effectively in written and oral formats on current biotechnology issues.
- Engage in exploratory and practical learning experiences, building skills applicable to careers in biotechnology for animal and human health sciences.

Equine Science and Management, B.S. degree

Disciplinary knowledge

- Demonstrate knowledge of core animal science concepts, focusing on equids, including anatomy, physiology, reproduction, nutrition, genetics, health, and welfare, with applications in equine science.
- Identify, apply, and analyze scientific literature on advancements in equine science to inform operations and implement best practices in equine management.
- Integrate knowledge of equine science and management practices to enhance horse production efficiency and operational outcomes.

Skills and career competencies

- Apply critical thinking and problem-solving skills to address current challenges in equine health, welfare, and management.
- Communicate effectively and collaborate with peers to promote sound equine management principles.
- Engage in practical learning experiences to develop skills applicable to careers in equine science and management.

Veterinary Science, B.S. degree

Disciplinary knowledge

- Demonstrate foundational knowledge in veterinary science by identifying and explaining the anatomy, physiology, reproduction, nutrition, genetics, and health of common companion animal and livestock species.
- Identify, apply, and analyze primary scientific literature to assess advancements in veterinary science and animal health, fostering an evidence-based approach to understanding complex issues in the field.
- Gain essential knowledge in veterinary science that prepares them to meet the academic demands of a doctoral veterinary medicine program.

Skills and career competencies

- Apply critical thinking and problem-solving skills to address challenges in veterinary science.
- Communicate effectively in written and oral formats and collaborate with peers to advocate for veterinary science practices.
- Exhibit professionalism, ethical integrity, and empathy, prioritizing animal health and welfare while respecting diverse perspectives within veterinary science.
- Engage in exploratory and practical learning experiences, building competencies applicable to careers in veterinary science and related fields.

Undergraduate Research Opportunities

Students interested in pursuing undergraduate research opportunities in the ADVS department should contact Tami Spackman (Agricultural Science 419, tami.spackman@usu.edu, 435-797-2150), for information and referrals.

University Honors Program

The University Honors Program offers students in all colleges and majors the unique opportunity to deepen their educational experience with hands-on practical applications of their academic knowledge. The Honors Program admits incoming, transfer, and existing USU students based on application. High-achieving students with at least one year remaining are encouraged to apply. See the University Honors Program catalog entry and website (honors.usu.edu) for more information.

Safety and Liability in Classes and Laboratories

Certain classes and laboratories involve a risk of bodily injury or of damage to clothing. Students should take appropriate precautions and wear suitable protective clothing. Some of the risks include handling or being near animals, slick floors or corrals, use of toxic or corrosive substances, and the use of sharp or breakable instruments and equipment. Students should take precautions to avoid fainting during demonstrations or work with animal tissues or operative procedures. Students must assume their

own liability protection for travel to and from classes, laboratories, and field trips. The university and its employees assume no liability in the performance of classroom or laboratory instruction or on scheduled field trips, or for other dangerous activities. The student, by voluntarily participating in these classes and activities, agrees to assume the risk and not hold USU or its staff liable.

Financial Support

In addition to the scholarships and other financial aid available through the university, the department awards designated scholarships to qualified students. The department employs students on a part-time basis to assist with its research and operate its animal facilities. The department also coordinates cooperative education and internship employment opportunities for students. For more information, contact the department.

Graduate Programs

Graduate Programs Director: Dr. Lee Rickords
Location: Agricultural Science 248B
Phone: (435) 797-2195
Fax: (435) 797-2118
Email: lee.rickords@usu.edu

Admission Requirements

Prior to applying, the potential applicant must have a qualified ADVS faculty member agree to accept them into their laboratory and be their major (supervisory) professor. Contact Dr. Lee Rickords with questions.

Applications are processed as received and are reviewed on an ongoing basis. It is highly recommended that applicants submit all materials early in the year if they will also be applying for a departmental assistantship, the separate application for which is due March 15 (see Financial Assistance section below). Accepted students may begin their program in fall, spring, or summer semester.

General Requirements

All prospective graduate students must apply through the School of Graduate Studies. Refer to the School of Graduate Studies website for admission requirements. Please note that all applicants must meet the following general admission requirements:

- A bachelor's degree from an accredited college
- A 3.0 GPA as calculated by the School of Graduate Studies. An official transcript must be sent directly to the School of Graduate Studies from each college or university previously attended (except USU).
- Student recommendation request forms (included in application materials) should be used to request three people to submit letters of recommendation directly to the graduate school. At least one letter of recommendation should be from a faculty member from whom the applicant has taken course work.
- International Students: Please visit the School of Graduate Studies website for requirements.

Department Requirements

Applicants must secure an ADVS faculty member to be their major professor before being accepted into a graduate program. The department strongly recommends the following:

- Applicants for a graduate program in ADVS should have completed a BS undergraduate program with courses similar to the science core of the USU Animal and Dairy Science BS degree. This background includes the following courses and their prerequisites:
    - BIOL 1610 and 1620 or their equivalents
    - CHEM 1210 and 1220 or their equivalents
    - MATH 1050 and STAT 2000 or their equivalents
- Applicants with deficiencies in these areas may be admitted to the graduate program subject to the completion of remedial course work specified by the department. Other preparatory courses may be specified by the student's supervisory committee.

Graduate Program Assessment

Our graduate program is dedicated to cultivating scholars and professionals who demonstrate academic excellence, research innovation, and professional competence. Our comprehensive assessment plan ensures students receive the support and resources needed to achieve their academic and career goals, from orientation through to graduation and beyond.

Orientation and Mentorship

New students participate in a structured orientation to familiarize themselves with program expectations, resources, and policies. A Memorandum of Understanding (MOU) outlines roles and responsibilities, establishing a foundation for success. Throughout their studies, students engage in a formal mentorship agreement that is reviewed annually to align academic, research, and career objectives.

Academic and Research Progress

Students follow a tailored Program of Study, completing coursework and seminars designed to build both foundational and specialized knowledge. Annual meetings with their Supervisory Committee, supported by progress reports and self-assessments, provide structured feedback on academic, research, and professional development milestones.

Skill Development and Evaluation

Graduate students refine their presentation skills through mandatory seminar participation and presentations at the ADVS Student Research Symposia. Doctoral and MS Plan A students undergo rigorous evaluations through candidacy exams, dissertation or thesis presentations, and committee assessments, demonstrating readiness for independent research and professional roles.

Professional Engagement and Career Readiness

We encourage students to present at conferences and publish in peer-reviewed journals, promoting scholarly impact and professional growth. Career placement data and alumni surveys inform our program's effectiveness in preparing graduates for diverse careers in academia, industry, and public service.

Our holistic assessment plan ensures continuous improvement and demonstrates our commitment to excellence in graduate education, guiding our students to meet and exceed the ultimate criteria for success.

Learning Outcomes for Graduate Degrees

PhD Students in Animal, Dairy, and Veterinary Sciences

1. **Scholarly Work**

- Demonstrate mastery of fundamental and advanced concepts in the field by effectively applying them to analyze and address complex research questions.
- Access, synthesize, and integrate information to produce a comprehensive overview of current knowledge and trends in the field.
- Critically evaluate the contributions, validity, and impact of foundational and current published literature in the field.
- Formulate an original research question and apply innovative study design and data collection methodologies to address it.
- Interpret data accurately, assess methodological limitations, and draw evidence-based conclusions supported by research findings.

2. **Contribution to the Discipline**

- Conduct research that advances understanding or generates new insights in the field, demonstrating a meaningful contribution to scholarly knowledge.
- Produce high-quality research with the potential for publication in leading scientific journals, with the goal of achieving multiple publications derived from dissertation findings.
- Engage in research that addresses significant questions in the discipline, contributing to the broader scientific community's knowledge base and advancing relevant discourse.

3. **Quality of Communication**

- Communicate complex concepts clearly and persuasively through high-quality scientific and technical writing.
- Produce logically organized written content with clear structure, appropriate grammar, mechanics, and spelling.
- Deliver clear, informative presentations that effectively convey key findings, using visual aids to enhance audience understanding.
- Present confidently, engaging audiences with enthusiasm for the topic and effectively using presentation tools.

4. **Breadth and Depth of Knowledge**

- Synthesize foundational and advanced knowledge in the discipline by integrating current literature and seminal works, demonstrating a comprehensive understanding of key concepts and theories.
- Defend, clarify, and expand upon dissertation research, demonstrating deep expertise and insight into specialized topics within the discipline.
- Integrate dissertation research with broader field topics, situating findings within the context of past and present studies and articulating key scientific principles.

5. **Quality of the Oral Defense**

- Provide insightful, accurate, and well-articulated responses to questions during the oral defense, demonstrating critical thinking and a deep understanding of the research.
- Demonstrate critical awareness of methodological limitations and interpretive boundaries, recognizing the scope and constraints of their knowledge.
- Defend research by effectively addressing examiner questions with confidence and authority, demonstrating both knowledge and the ability to synthesize and apply concepts from the field.

Master's Students in Animal, Dairy, and Veterinary Sciences

1. **Scholarly Work**

- Demonstrate mastery of fundamental knowledge by applying essential concepts to analyze and address specific research topics within the field.
- Access and integrate information effectively to provide a cohesive overview of current scholarly literature, including seminal works foundational to the field.
- Develop a clear research problem and articulate well-defined objectives or hypotheses, as appropriate.
- Utilize appropriate methodologies for data collection and analysis, critically assessing any limitations or weaknesses in data interpretation.
- Draw reasoned conclusions that are clearly based on research findings, providing thoughtful discussion and appropriate recommendations.

2. **Contribution to the Discipline**

- Conduct relevant research that addresses practical questions and contributes meaningfully to the field of animal, dairy, and veterinary sciences.
- Produce work that has the potential for dissemination through publication in quality journals or presentations at scholarly conferences.

3. **Quality of Communication**

- Write clearly and effectively at a professional level, demonstrating an ability to convey complex scientific concepts convincingly.
- Organize written content logically and cohesively, using well-constructed sentences with appropriate grammar, mechanics, and spelling.
- Create professional presentations with organized content and clear communication of research data, ensuring complex findings are conveyed effectively.
- Present confidently, engaging the audience with clear explanations, well-paced delivery, and effective use of presentation resources.

4. **Breadth and Depth of Knowledge**

- Demonstrate confidence and competence in defending, clarifying, and expanding upon the written thesis during the presentation.

- Show a high-level understanding of the field, appropriately synthesizing the thesis topic with broader concepts and effectively explaining key scientific principles.

5. **Quality of Responses to Questions**

- Demonstrate confidence and competence in defending, clarifying, and expanding upon thesis research findings during the presentation.
- Demonstrate a high-level understanding of the field by synthesizing the thesis topic with relevant broader concepts and effectively explaining key scientific principles.
- Respond professionally to probing questions, demonstrating awareness of the work's implications and reflecting on its broader impact within the field.

Research

The ADVS department conducts a broad range of basic and applied research in the areas of animal reproduction, animal nutrition, livestock and dairy management, animal health and disease, virology, parasitology, toxicology, and molecular genetics. Department facilities include over 30 research laboratories on campus and at local and regional animal research facilities. There are research herds and flocks of beef and dairy cattle, sheep, and swine housed close to the university. Research in the department is funded by a multi-million dollar budget derived from support by the Utah Agricultural Experiment Station and by substantial outside contracts and grants. Cooperation with other departments and research centers of the university and with federal collaborators enhances the ADVS research and graduate programs. Significant in this regard are the university Center for Integrated BioSystems, the Utah State Animal Disease Diagnostic Laboratories, the Laboratory Animal Research Center, the Institute for Antiviral Research, and the on-campus USDA Poisonous Plant Laboratory.

Financial Assistance

Both departmental and research grant support are available to matriculated graduate students on a competitive basis.

The department funds graduate assistantships, which are available on a competitive basis to matriculated graduate students. Completion of the Graduate Record Examination (GRE) is required to be considered for a departmental assistantship. Applications for graduate assistantships for the following academic year must be submitted by March 15. Students interested in departmental assistantships may contact the graduate programs director.

Acceptance to graduate study in the ADVS department does not constitute a guarantee of financial assistance.

Degree Programs

The ADVS department offers MS and PhD degrees with the following specializations:

- Animal Health and Disease
- Animal Management
- Animal Molecular Genetics
- Animal Nutrition
- Reproduction and Development

BS to MS degree requires a minimum of 30 credit hours
BS to PhD degree requires a minimum of 70 credit hours
MS to PhD degree requires a minimum of 42 credit hours
DVM to PhD degree requires a minimum of 42 credit hours

The department offers a Master of Public Health (MPH) in Veterinary Public Health. The MPH degree requires a minimum of 42 credit hours.

Finally, ADVS has a post-bachelor's certificate in Humans and Animal-Assisted Interventions. This certificate offers professionals advanced training in the human-animal bond, ethical considerations of animal welfare, and evidence-based methods for integrating animal-assisted interventions into mental health, social work, education, and allied health practices, providing the foundational knowledge needed to pursue certification as an Animal-Assisted Intervention Specialist.

Career Opportunities

MS and PhD Degree Programs (Specializations)

***Animal Health and Disease*:** Career opportunities in this area exist in research, management, and sub management positions in public and private health research and testing organizations, and in commercial industries in the health field. Graduates from the MS program may seek admission to advanced degree programs in the biological sciences or veterinary medicine.

***Animal Management*:** Career opportunities exist in Extension, private consultation firms, farm and ranch management, sales and service to agricultural producers, agricultural finance, and international programs.

***Animal Molecular Genetics*:** Career opportunities exist in Extension, university and private research, commercial animal breeding and genetic engineering enterprises, and international programs.

***Animal Nutrition*:** Career opportunities exist in Extension, university and private research, the commercial animal feedstuffs industry, private consulting firms, and international programs.

***Reproduction and Development*:** Career opportunities exist in Extension; university and private research; the pharmaceutical, embryo transfer, and artificial insemination industries; private consultation; and international programs.

Master of Public Health in Veterinary Public Health

Potential positions include public health veterinarian, veterinary epidemiologist, animal food safety specialist, wildlife public health specialist, and research and management positions. These positions can be found in a variety of governmental, academic, nonprofit, and for-profit settings, including colleges and universities, healthcare organizations, agricultural and food industries, international agricultural and development organizations, and local, state, and federal health and environmental agencies.

Programs

Academic Certificate

- Applied Animal Reproduction
- Beef Cattle Management

- Biotechnology
- Dairy Cattle Management
- Foundations in Animal Science
- Humans and Animal-Assisted Interventions
- Livestock Extension
- Sheep and Wool Production

Associate of Science (AS)

- Veterinary Technology - AS

Bachelor of Science (BS)

- Animal and Dairy Science - BS
- Biotechnology - BS
- Equine Science and Management - BS
- Veterinary Science - BS

Certificate of Completion (CC)

- Ranch Horse Management - Certificate of Completion

Doctor of Philosophy (PhD)

- Animal, Dairy and Veterinary Sciences - PhD

Institutional Certificate of Proficiency (ICP)

- Equine Assisted Services - Institutional Certificate of Proficiency

Master of Public Health (MPH)

- Veterinary Public Health - MPH

Master of Science (MS)

- Animal, Dairy and Veterinary Sciences - MS

Minor

- Animal and Dairy Sciences - Minor
- Animal Biotechnology - Minor
- Equine Science - Minor
- Veterinary Science - Minor

Post-Bachelor's Certificate

- Humans and Animal-Assisted Interventions – Post-Bachelor's Certificate

Faculty - S.J. & Jessie E. Quinney College of Agriculture & Natural Resources

Programs

Applied Animal Reproduction - Certificate
Animal, Dairy and Veterinary Sciences - MS
Animal, Dairy and Veterinary Sciences - PhD
Animal Biotechnology - Minor
Animal and Dairy Sciences - Minor
Animal and Dairy Sciences - BS
Beef Cattle Management - Certificate
Biotechnology - BS
Biotechnology - Certificate
Dairy Cattle Management - Certificate
Equine Assisted Services - Institutional Certificate of Proficiency
Equine Science and Management - BS
Equine - Minor
Foundations in Animal Science - Certificate
Humans and Animal-Assisted Interventions - Post-Bachelor's Certificate
Humans and Animal-Assisted Interventions - Certificate
Livestock Extension - Certificate
Master of Public Health: Veterinary Public Health Specialization - MPH
Ranch Horse Management - Certificate
Sheep and Wool Production - Certificate
Toxicology - Animal, Dairy and Veterinary Sciences - MS (NOT CURRENTLY OFFERED)
Toxicology - Animal, Dairy and Veterinary Sciences - PhD (NOT CURRENTLY OFFERED)
Veterinary Science - Minor
Veterinary Science - BS
Veterinary Technology - AS

Courses

ADVS1050 - Animal, Dairy and Veterinary Science Academic and Career Orientation I - 1 - Credits
ADVS1060 - Animal, Dairy, and Veterinary Science Academic and Career Orientation II - 1 - Credits
ADVS1100 - Small-Scale and Specialty Animal Production - 3 - Credits
ADVS1110 - Introduction to Animal Science (BLS) - 3 - Credits
ADVS1200 - Basic Horsemanship Skills - 3 - Credits
ADVS1600 - Riding Fundamentals I - 3 - Credits
ADVS2000 - Introduction to Veterinary Technology - 1 - Credits
ADVS2010 - Companion Animal Science and Management - 2 - Credits
ADVS2015 - Companion Animal Science and Management Laboratory - 1 - Credits
ADVS2020 - Companion Animal Nursing - 2 - Credits
ADVS2025 - Companion Animal Nursing Laboratory - 1 - Credits
ADVS2030 - Exotic and Laboratory Animal Health and Care - 1 - Credits
ADVS2035 - Exotic and Laboratory Animal Health and Care Laboratory - 1 - Credits
ADVS2040 - Veterinary Critical Care Nursing - 2 - Credits
ADVS2045 - Veterinary Critical Care Nursing Laboratory - 1 - Credits
ADVS2050 - Veterinary Nurse Specialty - 2 - Credits
ADVS2055 - Veterinary Nursing Specialty Laboratory - 1 - Credits
ADVS2060 - Clinical Laboratory Techniques - 1 - Credits
ADVS2065 - Clinical Laboratory Techniques Laboratory - 2 - Credits
ADVS2070 - Food Animal and Equine Care and Nursing - 3 - Credits
ADVS2075 - Food Animal and Equine Care and Nursing Laboratory - 1 - Credits
ADVS2080 - Beef Production Practices - 3 - Credits
ADVS2090 - Sheep Production Practices - 3 - Credits
ADVS2100 - Weanling Behavior and Handling - 3 - Credits
ADVS2110 - Poultry Production and Management - 3 - Credits
ADVS2120 - Swine Production and Management - 3 - Credits
ADVS2130 - Dairy Cattle Production - 3 - Credits
ADVS2140 - Pharmacology and Toxicology for Veterinary Technicians - 1 - Credits
ADVS2150 - Yearling Fitting and Sales Preparation - 3 - Credits
ADVS2160 - Introduction to Exotic Animals - 3 - Credits
ADVS2190 - Horse Production Practices - 3 - Credits
ADVS2200 - Anatomy and Physiology of Animals - 3 - Credits
ADVS2203 - Anatomy and Physiology of Animals: Exploratory Laboratory - 1 - Credits
ADVS2205 - Anatomy and Physiology of Animals: Applied Laboratory - 1 - Credits
ADVS2250 - Cooperative Work Experience - 1 - 12 Credits
ADVS2300 - Horse Health Care - 2 - Credits
ADVS2350 - Equine Marketing: Buying, Selling, Trading - 3 - Credits
ADVS2400 - Riding Fundamentals II - Intermediate - 3 - Credits
ADVS2500 - Feeds and Feeding - 3 - Credits
ADVS2600 - Riding Fundamentals II--Western - 2 - Credits
ADVS2800 - Riding Fundamentals for Instructors - 3 - Credits
ADVS2810 - Volunteerism in Equine-Assisted Services - 1 - Credits
ADVS3000 - Animal Health and Hygiene - 3 - Credits
ADVS3100 - Equine Evaluation and Judging - 3 - Credits
ADVS3150 - Principles of Equine-Assisted Services - 3 - Credits
ADVS3170 - Techniques in Adaptive Riding - 3 - Credits
ADVS3280 - Applied Animal Molecular & Cellular Biology - 4 - Credits
ADVS3300 - Equine Lower Limb Form and Function - 3 - Credits
ADVS3400 - Equine Specialist in Equine-Assisted Interventions - 3 - Credits
ADVS3500 - Principles of Animal Nutrition - 3 - Credits
ADVS3520 - Equine Nutrition and Exercise Physiology - 3 - Credits
ADVS3600 - Equine Behavior and Training - 3 - Credits
ADVS3610 - Training and Conditioning of the Lesson Horse - 3 - Credits
ADVS3650 - Live Animal and Carcass Evaluation - 3 - Credits
ADVS3690 - Administrative Issues in Providing Equine-Assisted Services - 3 - Credits
ADVS3710 - Advanced Livestock Judging - 2 - Credits
ADVS3750 - Equine Behavior and Training II - 3 - Credits
ADVS3900 - Special Problems and Readings - 1 - 3 Credits
ADVS3910 - Special Topics - 1 - 5 Credits
ADVS3920 - Ag Animal Extension Field Experience - 1 - Credits
ADVS3930 - Sheep Day - 1 - 2 Credits
ADVS3980 - Beef Cattle Handling Practices - 1 - Credits
ADVS4200 - Physiology of Reproduction and Lactation (CI) - 4 - Credits
ADVS4210 - Applied Reproduction and Artificial Insemination - 2 - Credits
ADVS4220 - Applied Equine Reproduction I - 3 - Credits
ADVS4230 - Supervised Hours in Providing Equine-Assisted Services - 3 - Credits
ADVS4250 - Internship in Animal Industry - 1 - 12 Credits
ADVS4260 - Internship in Animal Biotechnology Industry - 2 - 12 Credits
ADVS4270 - Internship in Equine Industry - 1 - 12 Credits
ADVS4310 - Animal Growth and Development - 3 - Credits
ADVS4560 - Principles of Animal Genetics and Breeding (QI) - 3 - Credits
ADVS4800 - Undergraduate Research or Creative Opportunity - 1 - 6 Credits
ADVS4920 - Undergraduate Seminar (CI) - 2 - Credits
ADVS5020 - One Health: People, Animals, and the Environment - 3 - Credits
ADVS5030 - Sustainable Agricultural Production Systems with Animals - 3 - Credits
ADVS5080 - Beef Cattle Management - 3 - Credits
ADVS5090 - Sheep Management and Wool Technology - 3 - Credits
ADVS5130 - Dairy Cattle Management - 3 - Credits
ADVS5190 - Equine Business Management - 2 - Credits
ADVS5500 - Applied Animal Nutrition - 2 - Credits
ADVS5530 - Nutrient Metabolization & Utilization - 3 - Credits
ADVS5620 - Advanced Animal Physiology - 3 - Credits
ADVS5630 - Endocrinology (CI) - 3 - Credits
ADVS5650 - Science Communication - 3 - Credits
ADVS5710 - Conceptualizing the Human-Animal Bond - 3 - Credits
ADVS5720 - Animal-Assisted Interventions and Special Populations - 3 - Credits
ADVS5730 - Welfare and Behavior of Animals in Animal-Assisted Interventions - 3 - Credits
ADVS5740 - Capstone in Humans and Animal-Assisted Interventions - 3 - Credits
ADVS5860 - Poisonous Range Plants Affecting Livestock - 3 - Credits
ADVS6020 - One Health: People, Animals, and the Environment - 3 - Credits
ADVS6080 - Beef Cattle Management - 3 - Credits
ADVS6090 - Sheep Management and Wool Technology - 3 - Credits
ADVS6130 - Dairy Cattle Management - 3 - Credits
ADVS6190 - Equine Business Management - 2 - Credits
ADVS6200 - Physiology of Reproduction - 3 - Credits
ADVS6210 - Molecular Reproduction and Development - 3 - Credits
ADVS6310 - Advanced Animal Growth and Development - 3 - Credits
ADVS6500 - Applied Animal Nutrition - 2 - Credits
ADVS6510 - Advanced Ruminant Nutrition and Emerging Technologies - 3 - Credits
ADVS6530 - Nutrient Metabolization & Utilization - 3 - Credits
ADVS6620 - Advanced Animal Physiology - 3 - Credits
ADVS6630 - Endocrinology - 3 - Credits
ADVS6650 - Science Communication - 3 - Credits
ADVS6700 - Epigenetics - 3 - Credits
ADVS6710 - Conceptualizing the Human-Animal Bond - 3 - Credits
ADVS6720 - Animal-Assisted Interventions and Special Populations - 3 - Credits
ADVS6730 - Welfare and Behavior of Animals in Animal-Assisted Interventions - 3 - Credits
ADVS6740 - Capstone in Humans and Animal-Assisted Interventions - 3 - Credits
ADVS6800 - Graduate Student Seminar - 1 - Credits
ADVS6860 - Poisonous Range Plants Affecting Livestock - 3 - Credits
ADVS6900 - Special Problems - 1 - 3 Credits
ADVS6950 - Teaching Experiences in Animal, Dairy and Veterinary Sciences - 3 - Credits
ADVS6970 - Research and Thesis - 1 - 12 Credits
ADVS6990 - Continuing Graduate Advisement - 1 - 3 Credits
ADVS7210 - Molecular Reproduction and Development - 3 - Credits
ADVS7510 - Advanced Ruminant Nutrition and Emerging Technologies - 3 - Credits
ADVS7970 - Dissertation Research - 1 - 12 Credits
ADVS7990 - Continuing Graduate Advisement - 1 - 9 Credits

VCLS6010 - Applied Veterinary Epidemiology - 3 - Credits

Applied Economics Department

Applied Economics

Department Head: Ryan Bosworth
Location: AGRS 220B
Phone: (435) 797-0594 | **FAX**: (435) 797-0402
WWW: http://apec.usu.edu/

Graduate Program Director: Man-Keun Kim, AGRS 220 A, (435) 797-2359, mk.kim@usu.edu

Undergraduate Advisor: Lisa Allen, Agricultural Science 416, (435) 797-0454, lisa.allen@usu.edu

Degrees offered:
Bachelor of Science (BS) in Agribusiness
BS in Applied Economics
Master of Science (MS) in Applied Economics
MS in Economics and Statistics
MS in Agribusiness
Doctor of Philosophy (PhD) in Economics

Students can also obtain the following Minors:
Agribusiness
Agriculture and Natural Resources Pre-Law
Applied Economics
Community Development Economics
Environmental and Natural Resource Economics
Small Firm Management

Institutional Certificate of Proficiency (ICP): Small Firm Management-Institutional Certificate of Proficiency

Graduate specializations: *MS in Applied Economics*—Agricultural Economics, Natural Resource Economics, and Regional Economic Development

Full details of the learning objectives, assessment plan, student outcomes, and evidence of continuous improvement for these programs of study can be found at apec.usu.edu/assessment.

Undergraduate Programs

Objectives

Economics is the study of allocating our scarce resources among humankind's seemingly endless variety of needs and wants. This places economists and economic analysis at the center of virtually every important discussion and debate about how nations, firms, and people should organize resources to address these needs and wants. As a result, economics offers an exciting and dynamic field of study and research for students, preparing them well to become tomorrow's decision makers.

Undergraduate economics provides students with the basic intellectual framework to understand and analyze economic problems and to make informed decisions. A basic understanding of economics is essential to becoming a well-informed citizen, as well as a successful business or public leader.

Admission Requirements

First-year students who meet the admission requirements and are accepted in good standing by the university are eligible for admission to the Department of Applied Economics. All transfer students, whether transferring from within Utah State University or from other colleges and universities, must have an overall minimum GPA of 2.5 to be accepted as majors in the department. Additional requirements may apply for students who seek to be admitted to a dual major.

New students wishing to major in the Department of Applied Economics may do so by listing one of the departmental majors on their application when they apply for admission to USU. Students enrolled at USU who may want to change to a departmental major should contact the Undergraduate Advisor in the Department of Applied Economics.

Graduation Requirements

To receive a bachelor's degree in Agribusiness or Agricultural Economics, students must complete all university requirements and the college and departmental requirements for their specific major.

Four-year Degree Plans (8 semesters)

Four-year degree plans for majors offered by the Department of Applied Economics are available in the department.

Students will need to meet with their advisor periodically to ensure all requirements are being met.

University Honors Program

The University Honors Program offers students in all colleges and majors the unique opportunity to deepen their educational experience with hands-on practical applications of their academic knowledge. The Honors Program admits incoming, transfer, and existing USU students based on application. High achieving students with at least one year remaining are encouraged to apply. See the University Honors Program catalog entry and website (honors.usu.edu) for more information.

Financial Support

The Department of Applied Economics and the College of Agriculture and Applied Sciences award scholarships in addition to those available through the University Financial Aid Office. Information and application forms may be obtained from the college or departmental offices.

Additional Information

For more information about undergraduate programs in the Department of Applied Economics, see the major requirement sheets, available from the Undergraduate Advisor.

Graduate Programs

The MS in Applied Economics, the MS in Economics and Statistics, the MS in Agribusiness and the PhD in Economics are offered by the Department of Applied Economics.

Objectives

Graduate training in the Department of Applied Economics emphasizes economic theory, critical thinking, and quantitative analysis. This foundation is a means to an end, not an end in itself: theory and quantitative methods are tools used in applied courses, in theses and dissertations, and in other research and extension activities carried out in the department.

The **MS in Applied Economics** and the **MS in Agribusiness** are terminal degrees that prepare students for positions in industry; private consulting firms; local, regional, and national policy-making agencies; private not-for-profit organizations; and community/regional economic planning and development agencies. The **MS in Economics and Statistics** is a degree that would prepare student to pursue a PhD degree. The **Doctor of Philosophy in Economics** is intended to prepare students for faculty and research positions.

Admission Requirements

Applicants must have earned a bachelor's degree from an accredited college or university, maintained a grade point average of at least 3.0 for the last 60 semester credits earned, and score in at least the 40th percentile on the Graduate Record Exam (GRE) or the Graduate Management Admission Test (GMAT). In addition, international applicants from non-English-speaking countries must score at least 550 on the Test of English as a Foreign Language (TOEFL). Satisfaction of these minimum admission requirements does not guarantee admission. Applications for graduate study from students trained in disciplines other than economics are welcomed. However, all applicants are expected to have: (1) an understanding of intermediate microeconomic and macroeconomic theory, (2) preparation in mathematical economics, and (3) preparation in probability and statistics. In addition, applicants are expected to have strong written and oral communications skills.

Research

The Department of Applied Economics maintains an active and productive research program. The results of this research are published in professional journals, books, and technical reports. Financial support for the departmental research program is provided by the Utah Agricultural Experiment Station, the College of Agriculture and Applied Sciences, the Office of the Vice President for Research, and by a combination of public and private extramural sources. Graduate students are an integral part of departmental research programs.

Financial Assistance and Assistantships

The Department of Applied Economics offers teaching and research assistantships to qualified graduate students. These are awarded on a competitive basis, and all accepted students are considered eligible. However, while the department makes every effort to assist students in obtaining financial assistance, acceptance into department programs does not guarantee financial assistance.

Financial assistance is not provided to PhD students who fail to pass the written qualifying exam nor to graduate students who fail to make satisfactory progress toward completion of their degrees.

FACULTY - College of Agriculture and Applied Sciences

Programs

Agribusiness - Minor
Agribusiness - Agricultural Finance Emphasis - BS
Agribusiness - Agricultural Finance Emphasis - BS
Agribusiness - Agricultural Marketing Emphasis - BS
Agribusiness - BS
Agribusiness: Farm and Ranch Management Emphasis - BS
Agribusiness - MS
Agriculture and Natural Resources Pre-Law - Minor
Applied Economics - Minor
Applied Economics - BS
Master of Applied Economics - MAE
Applied Economics - MS
Community Development Economics - Minor
Economics - PhD
Economics and Statistics - MS
Environmental and Natural Resource Economics - Minor
Natural Resource Economics - BS
Natural Resource Economics - MS
Precision Agriculture Technology - Post-Bachelor's Certificate
Ranch Economics and Management - BS
Small Firm Management - Minor
Small Firm Management - Institutional Certificate of Proficiency

Courses

APEC1400 - Introduction to Agriculture Policy (BSS) - 3 - Credits
APEC1600 - Natural Resources and American Economic Institutions (BAI) - 3 - Credits
APEC2010 - Introduction to Microeconomics (BSS) - 3 - Credits
APEC2120 - Small Firm Accounting Basics - 3 - Credits
APEC2310 - Small Firm Management - 3 - Credits
APEC2500 - Commodity Futures and Options Trading and Analysis - 3 - Credits
APEC2830 - Agribusiness Sales and Marketing - 3 - Credits
APEC2900 - Agricultural and Natural Resource Law - 3 - Credits
APEC3010 - Agricultural Economics (DSS) - 3 - Credits

APEC3012 - Introduction to Natural Resource Economics (DSS) - 3 - Credits
APEC3310 - Analytical Methods in Applied Economics (QI) - 3 - Credits
APEC3400 - Introduction to Behavioral Economics - 3 - Credits
APEC4010 - Intermediate Microeconomics - 3 - Credits
APEC4250 - Applied Economics Internship - 1 - 3 Credits
APEC4310 - Agribusiness Finance - 3 - Credits
APEC4900 - Directed Readings, Research, or Seminar Series - 1 - 3 Credits
APEC5000 - International Trade and Finance - 3 - Credits
APEC5010 - Firm Marketing and Price Analysis (QI) - 3 - Credits
APEC5015 - Applied Economics for Decision Making (QI) - 3 - Credits
APEC5020 - Strategic Firm Management (CI) - 3 - Credits
APEC5040 - Rural Economic Development and Agriculture (CI) - 3 - Credits
APEC5150 - Advanced Agricultural Credit Analysis - 3 - Credits
APEC5250 - Advanced Ranch Economics & Management - 3 - Credits
APEC5300 - Quantitative Analysis for Business and Policy Decisions - 3 - Credits
APEC5330 - Applied Econometrics (QI) - 3 - Credits
APEC5331 - Applied Econometrics Lab - 1 - Credits
APEC5500 - Climate Change Economics and Policy - 3 - Credits
APEC5560 - Natural Resource and Environmental Economics - 3 - Credits
APEC5700 - Regional and Community Economic Development - 3 - Credits
APEC5710 - Frontiers in Agribusiness - 3 - Credits
APEC5940 - U.S. Agricultural Policy Analysis - 3 - Credits
APEC5950 - Applied Economics Policy Analysis - 3 - Credits
APEC6030 - Agricultural Marketing - 3 - Credits
APEC6040 - Production Economics, Applied Risk Analysis and Simulation - 3 - Credits
APEC6100 - Microeconomic Theory I - 3 - Credits
APEC6120 - Economics and Strategy - 3 - Credits
APEC6140 - Decision Making and Strategy - 3 - Credits
APEC6250 - Graduate Internship - 1 - 3 Credits
APEC6300 - Quantitative Analysis for Business and Policy Decisions - 3 - Credits
APEC6330 - Applied Econometrics - 3 - Credits
APEC6331 - Applied Econometrics Lab - 1 - Credits
APEC6500 - Introduction to Natural Resource Economics - 3 - Credits
APEC6510 - Introduction to Environmental Economics - 3 - Credits
APEC6700 - Regional and Community Economic Development - 3 - Credits
APEC6710 - Frontiers in Agribusiness - 3 - Credits
APEC6910 - Independent Research - 1 - 3 Credits
APEC6950 - Applied Economic Policy Analysis - 3 - Credits
APEC6970 - Thesis Research - 1 - 9 Credits
APEC6990 - Continuing Graduate Advisement - 1 - 9 Credits
APEC7130 - Microeconomic Theory I - 3 - Credits
APEC7140 - Microeconomic Theory II - 3 - Credits
APEC7150 - Applied Microeconomics - 3 - Credits
APEC7310 - Econometrics I - 3 - Credits
APEC7320 - Econometrics II - 3 - Credits
APEC7330 - Econometrics III - 3 - Credits
APEC7350 - Mathematical Economics I - 3 - Credits
APEC7360 - Mathematical Economics II - 3 - Credits
APEC7400 - International Trade and Agriculture - 3 - Credits
APEC7500 - Resource Economics - 3 - Credits
APEC7510 - Environmental Economics - 3 - Credits
APEC7950 - Department of Economics Graduate Seminar - 1 - Credits
APEC7960 - Applied Economics Teaching Practicum - 3 - Credits
APEC7970 - Dissertation Research - 1 - 9 Credits
APEC7990 - Continuing Graduate Advisement - 1 - 9 Credits

Applied Sciences, Technology and Education Department

Applied Sciences, Technology and Education

Department Head: Rebecca G. Lawver
Location: Agricultural Systems Technology and Education 101C
Phone: (435) 797-2230 | **Fax:** (435) 797-4002
E-mail: rebecca.lawver@usu.edu
Website: aste.usu.edu

Overview

The Applied Sciences, Technology and Education Department provides instruction to students seeking certificate, associate, baccalaureate, or graduate degrees. These innovative degree programs allow students to gain expertise in the fields of agriculture, applied sciences, machinery and technology. Teacher licensure in Agricultural Education, Business Education, Family and Consumer Sciences Education, and Technology and Engineering Education are available.

The Applied Sciences, Technology and Education Department is accessible to students throughout Utah with faculty located at Utah State University campus, in Logan and online. Students are encouraged to enhance their education through the hands-on application using specialized classrooms and laboratories.

Degrees Offered:

Certificate: Agricultural Machinery Technology; Fashion Studies; Global Agriculture, Leadership and Education

Associate of Applied Science (AAS): Agricultural Machinery Technology; Agricultural Production and Automated Processing Technology

Bachelor of Science (BS): Agricultural Systems Technology and Agribusiness (Composite); Agricultural Systems Technology; Agricultural Education; Business Education; Family and Consumer Sciences Education; Technology and Engineering Education

Undergraduate Emphases: Agricultural Machinery and Technology; Agricultural Operations; Community Based Agricultural Education; School Based Agricultural Education; Community Based Family and Consumer Science Education; School Based Family and Consumer Science Education

Undergraduate Minors: Agricultural Systems Technology; Non-formal and Community Education

Master of Education (M.Ed.): Career and Technical Education

Master of Science (M.S.): Agricultural Extension and Education; Family and Consumer Sciences Education; Technology and Engineering Education

Doctorate of Philosophy (Ph.D.): Career and Technical Education

Full details of the learning objectives, assessment plan, student outcomes, and evidence of continuous improvement for these programs of study can be found at aste.usu.edu/assessment.

ASTE Mission Statement

The Department of Applied Sciences, Technology and Education (ASTE) fulfills Utah State University's land-grant mission by developing human potential and strengthening communities through education, research, application, and service. Rooted in a strong land-grant foundation, our work connects learning with real-world impact, preparing individuals to lead, innovate, and serve across Utah and beyond. Students are prepared for impactful careers in both formal (K-12 and higher education) and non-formal (Extension, outreach, and community) education through applied research, experiential learning, and strong partnerships. As a land-grant department, ASTE empowers future leaders and strengthens communities through education with lasting impact.

Undergraduate Programs

ASTE offers both a **one-year technology certificate** and an **Associate of Applied Science** degree in **Agricultural Machinery Technology**. The one-year certificate program is designed to familiarize students with the agricultural equipment industry, and the associate degree serves as a second-year continuation of the certificate program. This degree may transition into the bachelor's program in agricultural systems technology or agricultural education if desired.

The **Associate of Applied Science** degree in **Agricultural Production and Automated Processing** provides a foundation for establishing a rewarding career within the agricultural production and processing industry through hands-on practical training in equipment management, testing, diagnosis, and retailing of agricultural production and automation processing technologies. Students completing the AAS in Agricultural Production and Automated Processing Technology may stack credits into a Bachelor of Science degree in Agricultural Systems Technology.

The **Agricultural Systems Technology** (BS) degree prepares individuals to manage agricultural systems and agribusinesses with the application of sound technical, economical, and environmental practices. The focal point of the program is on the management, use, and troubleshooting of agricultural technology. Students' coursework typically involves a broad foundation through real-world instruction in power and machine systems, natural resources conservation, electricity and electronics, precision agriculture technologies, and agricultural structural systems.

The **Agricultural Education** Bachelor of Science program prepares students for careers as educators in agriculture. The **School Based Agricultural Education emphasis** (BS) prepares students for teacher licensure in Agricultural Education. Students choosing this emphasis must also be admitted to the Secondary Teacher Education Program (STEP) administered by the College of Education and Human Services and complete student teaching. The **Community Based Agricultural Education emphasis** (BS) prepares students to teach and communicate the importance of the agriculture, food, and natural resource industry in nonformal and community-based education settings, including but not limited to Extension education, government agencies, non-government organizations, and private and corporate agriculture and natural resource entities. In addition to education courses, students take courses in technical agriculture areas, including agricultural economics; agricultural mechanization; animal, dairy, and veterinary sciences; plant and soil science; and natural resources. The certificate program in Global Agriculture, Leadership, and Education equips students with knowledge and skills to effect positive change by blending instruction in agriculture, leadership principles, and education strategies with a focus on global and international agricultural systems.

The **Business Education** program is delivered at our Statewide campuses. The **Business Education** (BS) combines the fundamentals of business with skill in teaching those principles to Junior High and High School students. Students are prepared in topics such as accounting, management, business, web design, and image and video editing. Students explore and apply concepts in the business field through clinical and student teaching experiences. Students choosing this major must also be admitted to the Secondary Teacher Education Program (STEP) administered by the College of Education and Human Services.

Family and Consumer Sciences Education prepares students for family life, work life, and careers in family and consumer sciences by providing learning opportunities and experiences to develop the knowledge, skills, attitudes, and behaviors needed for living and working in a global society. The **School Based Family and Consumer Sciences emphasis** (BS) prepares students to be middle and secondary educators. Students choosing this major must also be admitted to the Secondary Teacher Education Program (STEP) administered by the College of Education and Human Services. The **Community Based Family and Consumer Sciences emphasis** (BS) prepares students in nonformal and community education including but not limited to Extension education, government agencies, and private and corporate educators. A certificate program in **Fashion Studies** introduces students to the apparel and fashion industry through textile science, apparel construction, sustainability, and product design and development.

A Bachelor of Science degree in **Technology and Engineering Education** prepares students to become highly qualified high school or middle school Technology and Engineering teachers who can help students develop the technological literacy and technical skills that are increasingly necessary in our changing world. Technology and Engineering Education students develop their ability to use technological tools, processes, and systems safely and effectively in a laboratory setting by taking classes in a

wide variety of technical areas, including Manufacturing, Automation/Robotics, Construction, Information Technology, Agricultural Technology, Transportation/Logistics, and more. Options are also available for students who wish to teach a specific trade, such as welding, automotive mechanics, manufacturing, and more. Graduates may work as teachers of Career & Technical Education courses in these areas at the high school or post-high school level.

Academic Advising

Successful completion of an undergraduate degree program in the ASTE department requires that a very close student-academic advisor relationship be established and continued through each student's bachelor's degree program. Each student must take the responsibility of establishing this close working relationship with their advisor. Doing this soon after a student's acceptance into the department can keep academic problems to a minimum.

Undergraduate Academic Advisors:

Allie East
Agricultural Systems Technology, Agricultural Machinery Technology, Agricultural Production and Automated Processing
AGRS 418, (435) 797-2194, allie.east@usu.edu

Caisa Shoop
Agricultural Education, Business Education, Family and Consumer Sciences Education, Technology and Engineering Education
AGRS 416, (435) 797-4275, caisa.shoop@usu.edu

Advising appointments can be made at: caas.usu.edu/advising or call (435) 797-2282

Requirements

Admission Requirements

Admission requirements for the Department of Applied Sciences, Technology and Education are the same as those described for the university for incoming freshman and most transfer students. See individual program listings for additional information and requirements.

University Honors Program

The University Honors Program offers students in all colleges and majors the unique opportunity to deepen their educational experience with hands-on practical applications of their academic knowledge. The Honors Program admits incoming, transfer, and existing USU students based on application. High-achieving students with at least one year remaining are encouraged to apply. See the University Honors Program catalog entry and website (honors.usu.edu) for more information.

Additional Information

For further information about undergraduate programs and requirements, visit the website: aste.usu.edu

Graduate Programs

The graduate programs in the Applied Sciences, Technology, and Education department focus on a wide range of teaching and learning skills for application in formal and nonformal educational settings. The goals of these degree programs are to increase effectiveness as an educator, increase earning potential, and expand career options. The graduate programs in ASTE are 100% Online.

Graduate Program Coordinator:

Tanesha Holliday | 435-797-2722 | Tanesha.Holliday@usu.edu

Graduate Degrees Offered:

Master of Education (M.Ed.): Career and Technical Education

Master of Science (M.S.): Agricultural Extension and Education; Family and Consumer Sciences Education; Technology and Engineering Education

Doctorate of Philosophy (Ph.D.): Career and Technical Education

Full details of the learning objectives, assessment plan, student outcomes, and evidence of continuous improvement for these programs of study can be found at aste.usu.edu/assessment.

Admission Requirements

The admission requirements for the graduate program for the Master of Education, Master of Science, and Doctorate of Philosophy in the ASTE department are found at ASTE Graduate Admissions. Applications must be completed and submitted to the School of Graduate Studies.

Research

The ASTE Department conducts a broad range of basic, applied (action), and evaluation social-science research in the areas of agricultural communication, agricultural literacy, agricultural safety, agricultural systems technology, career and technical education, curriculum and instruction, environmental quality, leadership, non-formal education, Science Technology, Engineering, and Math (STEM), and teaching and learning. In addition to state and federal agencies that support research in the Applied Sciences, Technology and Education Department, the Utah Agricultural Experiment Station, a component of the College of Agriculture and Applied Sciences, supports research in several areas.

Financial Assistance

On-campus teaching or research assistantships may be available through faculty members who have ongoing projects with the Utah Agricultural Experiment Station or who hold special research grants from the university, private companies, or state-federal agencies. Students on a graduate assistantship must be admitted to the program and be based at the Logan campus. Additional departmental or formal grant support may be available to graduate students and is awarded on a competitive basis to students.

Acceptance to pursue graduate study does not guarantee the student financial assistance.

Students interested in graduate assistantships may contact Dr. Michael Pate Michael.Pate@usu.edu. Applications for graduate assistantships for the following academic year must be submitted by March 1.

Requirement Changes

Graduation requirements described in this catalog are subject to change. Students should check with their academic advisor concerning possible changes.

FACULTY - College of Agriculture and Applied Sciences

Programs

Advanced Fashion Studies - Certificate
Agricultural Education - BS
Agricultural Education - Community-Based Emphasis - BS
Agricultural Education - School-Based Emphasis - BS
Agricultural Extension and Education - MS
Agricultural Machinery Technology - AAS
Agricultural Machinery Technology - Certificate
Agricultural Production and Automated Processing Technology - AAS
Agricultural Systems Technology and Agribusiness (Composite) - BS
Agricultural Systems Technology - Minor
Agricultural Systems Technology - Agribusiness Emphasis - BS
Agricultural Systems Technology - Agricultural Operations Emphasis - BS
Agricultural Systems Technology - Agricultural Machinery and Technology Emphasis - BS
Aviation Education - Post-Bachelor's Certificate
Business Education - BS
Career and Technical Education Teaching Academy - ICP
Career and Technical Education - PhD
College Teaching - Post-Bachelor's Certificate
Career and Technical Education - MEd
Extension Education - Post-Bachelor's Certificate
Fashion Studies - Institutional Certificate of Proficiency
Family and Consumer Sciences Education - Community-Based Emphasis - BS
Family and Consumer Sciences Education - School-Based Emphasis - BS
Family and Consumer Sciences Education and Extension - MS
Global Agriculture, Leadership and Education - Institutional Certificate of Proficiency
Livestock Extension - Certificate
Nonformal and Community-Based Education - Minor
Precision Agriculture Technology - Institutional Certificate of Proficiency
Precision Agriculture Technology - Post-Bachelor's Certificate
Patternmaking – Certificate
Technology and Engineering Education - Minor
Technology and Engineering Education - BS
Technology and Engineering Education - MS

Courses

ASTE1006 - Exploring Teaching for Careers and Communities - 1 - Credits
ASTE1008 - Exploring Agricultural Systems, Machinery, and Management - 1 - Credits
ASTE1010 - Introduction to Agricultural Systems Technology - 3 - Credits
ASTE1110 - Equipment Safety for Agriculture and Natural Resources - 2 - Credits
ASTE1130 - Agricultural Machinery Systems: Planting, Tillage, and Harvest Technologies - 3 - Credits
ASTE1610 - Agricultural and Construction Machinery Power - 4 - Credits
ASTE1625 - Agricultural Machinery Power Trains Laboratory - 3 - Credits
ASTE1640 - Introduction to Welding - 3 - Credits
ASTE1710 - Introduction to Agricultural Communication - 3 - Credits
ASTE1800 - Leadership and Human Flourishing - 3 - Credits
ASTE2100 - Personal and Team Leadership - 3 - Credits
ASTE2250 - Occupational Experience in Agriculture - 1 - 6 Credits
ASTE2450 - Domestic Study Experience - 1 - 5 Credits
ASTE2500 - Education Forum in Career and Technical Education - 1 - Credits
ASTE2710 - Orientation to Agriculture Education - 2 - Credits
ASTE2810 - Introduction to Cooperative Extension - 2 - Credits
ASTE2900 - Food Matters: Ethics, Economics, and the Environment (BSS) - 3 - Credits
ASTE2910 - Sustainability Through Global Citizenship - 3 - Credits
ASTE2930 - Individualized Projects in Agriculture Mechanics - 1 - 3 Credits
ASTE3030 - Metal Fabrication for Agriculture and Natural Resource Industries - 3 - Credits
ASTE3050 - Technical and Professional Communication Principles (CI) - 3 - Credits
ASTE3080 - Compact Power Units for Agricultural and Turfgrass Applications - 3 - Credits
ASTE3090 - Graphic Design in Agriculture and Media Industries - 3 - Credits
ASTE3240 - Teaching in Laboratory Settings (CI) - 3 - Credits
ASTE3300 - Clinical Experience in Agricultural Education - 1 - Credits
ASTE3440 - Science, Technology, and Modern Society (DSC) - 3 - Credits
ASTE3500 - Teaching Apprenticeship in Agricultural Education - 2 - Credits
ASTE3600 - Data Management of Agricultural Systems (QI) - 3 - Credits
ASTE3620 - Managing the FFA and SAE Programs - 2 - Credits
ASTE3625 - Youth Development Education - 2 - Credits
ASTE3720 - Electrical Power Systems for Agricultural Applications - 4 - Credits
ASTE3730 - Agricultural Machinery Auxiliary Systems and Diagnosis - 3 - Credits
ASTE3900 - Special Problems in Agricultural Systems Technology and Education - 1 - 6 Credits
ASTE4090 - Website Design in Agricultural Communications - 3 - Credits
ASTE4100 - Agricultural Structures and Environment (QI) - 3 - Credits
ASTE4150 - Methods of Teaching Agriculture (CI) - 3 - Credits
ASTE4155 - Nonformal Teaching Methods - 3 - Credits
ASTE4210 - Cognition and Evaluation of Student Learning in Career and Technical Education - 3 - Credits
ASTE4215 - Community Programming and Evaluation - 3 - Credits
ASTE4250 - Occupational Experiences in Agriculture - 1 - 6 Credits
ASTE4300 - Clinical Experience II in Agricultural Education - 1 - Credits
ASTE4400 - Advising Applied Technology Education Student Organizations - 1 - Credits
ASTE4900 - Senior Project Research and Creative Opportunity - 1 - 6 Credits
ASTE5150 - Methods of Teaching Career and Technical Education - 3 - Credits

ASTE5151 - Course and Curriculum Development in Career and Technical Education - 3 - Credits
ASTE5152 - Evaluation and Assessment in Career and Technical Education - 3 - Credits
ASTE5153 - Digital Tools for Teaching and Learning in Career and Technical Education - 3 - Credits
ASTE5154 - Classroom and Laboratory Management in Career and Technical Education - 3 - Credits
ASTE5220 - Volunteer Programs and Partnerships - 3 - Credits
ASTE5260 - Environmental Impacts of Agricultural Systems (CI) - 3 - Credits
ASTE5300 - Emergency Preparedness for Agricultural Enterprises - 1 - Credits
ASTE5400 - Food, Land, and People - 1 - 3 Credits
ASTE5450 - Study Abroad Experience - 1 - 5 Credits
ASTE5500 - Agricultural Education Secondary Curriculum Seminar - 2 - Credits
ASTE5550 - Continuing Education in Agricultural Education - 0.5 - 3 Credits
ASTE5600 - Biosecurity I - 3 - Credits
ASTE5610 - Biosecurity II - 3 - Credits
ASTE5620 - Food Security and Solutions - 3 - Credits
ASTE5630 - Agricultural Education Student Teaching in Secondary Schools - 10 - Credits
ASTE5635 - Career and Technical Education Study Abroad Student Teaching - 3 - 6 Credits
ASTE5640 - Modified Career and Technical Education Student Teaching - 3 - 7 Credits
ASTE5999 - Precision Agriculture Practicum - 3 - Credits
ASTE6045 - Financial Literacy Programs - 3 - Credits
ASTE6090 - Curriculum Design - 3 - Credits
ASTE6100 - Research and Academic Writing - 3 - Credits
ASTE6140 - Reading and Applying Research - 3 - Credits
ASTE6150 - Evaluation and Assessment - 3 - Credits
ASTE6160 - Foundations of Adult Education - 3 - Credits
ASTE6170 - Program Planning and Evaluation - 3 - Credits
ASTE6180 - Administration and Leadership - 3 - Credits
ASTE6200 - Principles and Practices of Extension Education - 3 - Credits
ASTE6220 - Volunteer Programs and Partnerships - 3 - Credits
ASTE6260 - Environmental Impacts of Agricultural Systems - 3 - Credits
ASTE6300 - Advanced Teaching Strategies - 3 - Credits
ASTE6310 - Advanced Agriculture Teaching Methods - 3 - Credits
ASTE6315 - Career and Technical Student Organization Development - 3 - Credits
ASTE6320 - Classroom Management, Student Motivation, and Guidance - 3 - Credits
ASTE6350 - Safety and Risk Management for CTE Experential Learning Opportunities - 3 - Credits
ASTE6360 - History, Philosophy, and Policy Development in Career and Technical Education - 3 - Credits
ASTE6370 - Grant Writing and Management - 3 - Credits
ASTE6380 - Mentoring and Supervision - 3 - Credits
ASTE6400 - Food, Land, and People - 1 - 3 Credits
ASTE6440 - Technology and Society: Linking CTE with STEM - 3 - Credits
ASTE6450 - Graduate Topics in Agricultural Education - 3 - Credits
ASTE6460 - Integrating Career and Tech Educ Curriculum with Science, Technology, Engineering, and Mathematics - 3 - Credits
ASTE6470 - Digital Tools for Learning - 3 - Credits
ASTE6600 - Biosecurity I - 3 - Credits
ASTE6610 - Biosecurity II - 3 - Credits
ASTE6620 - Food Security and Solutions - 3 - Credits
ASTE6750 - Research Methods and Design - 3 - Credits
ASTE6800 - Analysis of Social Research Data - 3 - Credits
ASTE6810 - Contemporary Issues - 3 - Credits
ASTE6820 - Administration and Organization - 3 - Credits
ASTE6900 - Graduate Independent Study in Career and Technical Education - 1 - 6 Credits
ASTE6910 - Design Thinking for Career and Technical Education - 3 - Credits
ASTE6920 - Communication Tools for Extension - 3 - Credits
ASTE6950 - Graduate Internship - 1 - 6 Credits
ASTE6960 - Graduate Seminar - 1 - 3 Credits
ASTE6970 - Research and Thesis - 1 - 9 Credits
ASTE6990 - Continuing Graduate Advisement - 1 - 3 Credits
ASTE7000 - Principles and Practices of Community College Education - 3 - Credits
ASTE7090 - Instructional Design for Distance Education - 3 - Credits
ASTE7100 - Research and Academic Writing - 3 - Credits
ASTE7170 - Program Planning and Evaluation Program Theory and Evaluation - 3 - Credits
ASTE7200 - Qualitative Methods - 3 - Credits
ASTE7300 - Mixed Methods Research - 3 - Credits
ASTE7310 - Theories of Teaching and Learning - 3 - Credits
ASTE7370 - Grant Writing and Management - 3 - Credits
ASTE7400 - Occupational Analysis and Curriculum Development - 3 - Credits
ASTE7500 - Diffusion of Innovations - 3 - Credits
ASTE7600 - The Professoriate - 2 - Credits
ASTE7800 - Advanced Data Analysis - 3 - Credits
ASTE7810 - Research Seminar - 1 - 3 Credits
ASTE7850 - Readings and Conference - 1 - 3 Credits
ASTE7900 - Independent Study - 1 - 12 Credits
ASTE7970 - Dissertation Research - 1 - 18 Credits
ASTE7990 - Continuing Graduate Advisement - 1 - 9 Credits
BSED2510 - Orientation to Business Education - 2 - Credits
BSED3150 - Methods for Business Education - 3 - Credits
BSED3300 - Clinical Experience I in Business Education - 1 - Credits
BSED4150 - Methods of Business, Finance, and Marketing Education - 3 - Credits
BSED4210 - Cognition and Evaluation of Student Learning in Career and Technical Education - 3 - Credits
BSED4300 - Clinical Experience II Business Education - 1 - Credits
BSED5500 - Business Education Secondary Curriculum Seminar - 2 - Credits
BSED5630 - Business Education Student Teaching - 10 - Credits
FCSE1021 - Personal Finance - 3 - Credits
FCSE1040 - Introductory Sewing - 3 - Credits
FCSE1350 - Financial Literacy (BSS) - 3 - Credits
FCSE2040 - Intermediate Clothing Construction Skills, Principles, and Alterations - 3 - Credits
FCSE2350 - Financial Literacy 2 - 3 - Credits
FCSE2510 - Orientation to Family and Consumer Sciences Education - 3 - Credits
FCSE2520 - Managing FCCLA - 2 - Credits
FCSE2700 - FCSE Housing and Interiors - 3 - Credits
FCSE3030 - Textile Science (DSC/QI) - 4 - Credits
FCSE3040 - Advanced Clothing Studies: Patternmaking - 3 - Credits
FCSE3080 - Fashion Studies and Society (DHA) - 3 - Credits
FCSE3140 - Digital Patternmaking for Apparel - 3 - Credits
FCSE3200 - Adult Responsibilities Methods - 3 - Credits
FCSE3300 - Clinical Experience I - 1 - Credits
FCSE3400 - FCSE Methods I - 3 - Credits
FCSE3790 - Housing and Interior Design Teaching Methods - 3 - Credits
FCSE4000 - Early Childhood Education Internship - 3 - Credits
FCSE4030 - Textiles and Technology - 3 - Credits
FCSE4040 - Advanced Apparel Studies - 3 - Credits
FCSE4140 - Advanced Apparel Design - 3 - Credits
FCSE4210 - Cognition and Evaluation of Student Learning in Career and Teachnical Education - 3 - Credits
FCSE4250 - Advanced Internship - 1 - 12 Credits
FCSE4300 - Clinical Experience II - 1 - Credits
FCSE4400 - FCSE Methods II - 3 - Credits
FCSE4900 - Independent Study - 1 - 5 Credits
FCSE5500 - Student Teaching Seminar - 2 - Credits
FCSE5550 - Continuing Education in Family and Consumer Sciences Education - 0.5 - 3 Credits
FCSE5630 - Student Teaching in Secondary Schools - 10 - Credits
FCSE6340 - Curriculum Development, Testing, and Evaluation - 3 - Credits
TEE1000 - Orientation to Technology and Engineering Education - 1 - Credits
TEE1010 - Graphic Communication Technologies - 3 - Credits
TEE1020 - Principles of Engineering Design - 3 - Credits
TEE1040 - Construction and Estimating - 3 - Credits
TEE2000 - Seminar in Leadership and Professional Development - 1 - Credits

TEE2030 - Wood-Based Manufacturing Systems - 3 - Credits
TEE2200 - Aquaponic Systems (BPS) - 3 - Credits
TEE2220 - Civil Engineering and Architecture - 3 - Credits
TEE2240 - Analog Devices and Circuits - 3 - Credits
TEE2300 - Electronic Fundamentals (QI) - 3 - Credits
TEE2310 - AC/DC Circuits - 2 - Credits
TEE2320 - Electronic Drafting - 2 - Credits
TEE2360 - Digital Circuits - 3 - Credits
TEE2370 - Computer and Microprocessor Programming - 3 - Credits
TEE2400 - Active Devices and Circuits - 3 - Credits
TEE2660 - Principles of Engineering Education - 3 - Credits
TEE2850 - Statics and Strength of Materials - 3 - Credits
TEE3040 - Engineering Systems - 3 - Credits
TEE3050 - Computer Systems and Networking - 3 - Credits
TEE3070 - K-8 Technology and Engineering Education - 3 - Credits
TEE3200 - Methods of Teaching Engineering and Technology Education I - 3 - Credits
TEE3230 - Machine and Production Drafting - 3 - Credits
TEE3240 - Technical Illustration - 3 - Credits
TEE3270 - Advanced Computer-Aided Drafting - 3 - Credits
TEE3300 - Clinical Experience I - 1 - Credits
TEE3380 - Microprocessor and Computer Interfacing - 3 - Credits
TEE3390 - Microcontrollers - 3 - Credits
TEE3400 - Communication Circuits - 3 - Credits
TEE3440 - Science, Technology, and Modern Society (DSC) - 3 - Credits
TEE3510 - Introduction to Networking - 3 - Credits
TEE3710 - Electronics/Computer Design I - 1 - Credits
TEE3740 - Facility and Equipment Maintenance - 3 - Credits
TEE3900 - Principles and Objectives of Career and Technical Education - 3 - Credits
TEE3930 - Evaluation of Career and Technical Education - 2 - Credits
TEE4210 - Cognition and Evaluation of Student Learning in Career and Technical Education - 3 - Credits
TEE4300 - Clinical Experience II - 1 - Credits
TEE4310 - Corrosion and Corrosion Control - 2 - Credits
TEE4400 - Methods of Teaching Engineering and Technology Education II - 3 - Credits
TEE4440 - Technology and Society: Linking CTE with STEM - 3 - Credits
TEE4700 - Student Teaching in Postsecondary Schools - 4 - Credits
TEE4710 - Electronics/Computer Design II (CI) - 3 - Credits
TEE4930 - Independent Study - 1 - 4 Credits
TEE4940 - Related Industrial Experience - 1 - 12 Credits
TEE5040 - Manufacturing Enterprise - 3 - Credits
TEE5200 - Advanced Aquaponic Systems - 3 - Credits
TEE5220 - Program and Course Development (CI) - 3 - Credits
TEE5230 - Technical Training Innovative Program - 1 - 4 Credits
TEE5240 - Principles of Technology - 2 - 3 Credits
TEE5500 - Student Teaching Seminar - 2 - Credits
TEE5630 - Student Teaching in Secondary Schools - 10 - Credits
TEE5800 - Seminar Technology Education - 1 - 3 Credits
TEE5900 - Workshop in Technology and Engineering Education - 1 - 4 Credits
TEE5910 - Special Problems in Engineering and Technology Education - 1 - 4 Credits
TEE5920 - Related Technical Training - 1 - 12 Credits
TEE6200 - Composite Manufacturing Processes and Repair - 3 - Credits
TEE6250 - Internship - 1 - 6 Credits
TEE6310 - Corrosion and Corrosion Control - 2 - Credits
TEE6440 - Technology and Society: Linking CTE with STEM - 3 - Credits
TEE6520 - Explorations of Industry - 3 - Credits
TEE6960 - Master's Project - 1 - 6 Credits
TEE7040 - Dynamic and Network Engineering Processes for Technology Education - 3 - Credits
TEE7400 - Occupational Analysis and Curriculum Development - 3 - Credits
TEE7600 - Academic Issues and Politics in Higher Education - 3 - Credits
TEEELEC - - 3 - Credits

Art and Design Department

Art and Design

Department Head: Kathy Puzey
Location: Fine Arts Visual 122 (FAV)
Phone: (435) 797-3460 | **FAX:** (435) 797-3412
E-mail: art@usu.edu
Website: https://artsci.usu.edu/art-design/

Assistant Head and Art Program Director: TBD

Academic Advisors:
ART, IAD - Angela Neff, FAC 127F, (435) 797-8096, angela.neff@usu.edu
ART - Brooke Lambert, FAC 127G, (435) 797-9499, brooke.lambert@usu.edu

Art Education Undergraduate Advisor:
Tamryn McDermott, FAV 128, (435) 797-9915, tamryn.mcdermott@usu.edu

Degrees offered: Bachelor of Arts (BA) in Art, Bachelor of Arts (BA) in Art History, Bachelor of Science (BS) in Art, Bachelor of Fine Arts (BFA) in Art, Bachelor of Interior Architecture & Design (BIAD), Master of Fine Arts (MFA) in Art

Undergraduate emphases: Art Education, Ceramics, Drawing & Painting, Graphic Design, Photography, Printmaking, Sculpture

Graduate specializations: Ceramics, Drawing & Painting, Graphic Design, Interior Architecture and Design, Photography, Printmaking, Sculpture

Full details of the learning objectives, assessment plan, student outcomes, and evidence of continuous improvement for these programs of study can be found at https://artsci.usu.edu/art-design/assessment.

Undergraduate Programs

Objectives

The Department of Art and Design's primary goal is to prepare undergraduate students for careers in art history, art education, studio art, graphic and interior architecture & design. Requirements in seven different emphasis areas address the specific needs of each career. The Department of Art and Design also serves the university community by offering courses in the University Studies program and by offering training for students in related degree programs.

Departmental Admission Requirements

Admission to the Art & Design major is competitive. There are four ways an undergraduate student may be admitted to the Department.

1. Following admission to USU, freshman and transfer students (with less than 30 credits) may be coded as pre-art. Pre-Art students are not admitted to a specific degree program.

2. Transfer students and current USU students in other majors may be admitted to the BS degree following a portfolio review. Admission to the degree requires a minimum 2.75 GPA in addition to passing the portfolio review.

3. Students enrolled in the BS degree may be admitted to the BFA degree in a specific emphasis area after successfully passing a portfolio review. Admission to the BFA degree requires a minimum 2.75 GPA in addition to passing the portfolio review.

4. Acceptance to the BA program in Art History is limited to students with a minimum 3.0 GPA who have interviewed with the Art History area coordinator.

Sample Four-year Plans

Sample semester-by-semester four-year plans for students working toward a bachelor's degree are available online.

Students should consult with their advisor to develop a plan of study tailored to their individual needs and interests.

University Honors Program

The University Honors Program offers students in all colleges and majors the unique opportunity to deepen their educational experience with hands-on practical applications of their academic knowledge. The Honors Program admits incoming, transfer, and existing USU students based on application. High achieving students with at least one year remaining are encouraged to apply. See the University Honors Program catalog entry and website (www.usu.edu/honors/) for more information.

Additional Information

For additional information about undergraduate requirements in the Department of Art and Design, see the department website at: https://artsci.usu.edu/art-design/

Graduate Programs

The Department of Art and Design offers one graduate degree, the Master of Fine Arts (MFA). The Department of Art and Design also cooperates with the Emma Eccles Jones College of Education and Human Services on a Master of Education (MEd) with a specialization in art which is offered through the Emma Eccles Jones College of Education and Human Services.

Application Procedures

Completed applications must include: (1) completed application forms; (2) a letter of intent; (3) transcripts of all previous graduate and undergraduate work; (4) three letters of recommendation from qualified professionals; (5)-a portfolio of recent work (20 digital images combined into a single PDF) submitted electronically; and (7) the $55 application fee.

These materials must be sent directly to the School of Graduate Studies. When complete, applications will be forwarded by the School of Graduate Studies to the Art and Design Department for review.

Completed applications and portfolios (in PDF format only) must be received by **February 1**. Students should note that applications will be considered *only* at this time, and *only* completed applications will be reviewed. Admission will *only* be considered for fall semester. The deadlines for financial aid may be earlier than the admissions deadline. For further information about financial aid, visit the Financial Aid Office in Taggart Student Center 106; write to: Financial Aid Office, Utah State University, 1800 Old Main Hill, Logan UT 84322-1800; or phone (435) 797-0173.

Applications are reviewed by the Art and Design Department faculty. Candidates are selected primarily on the basis of their **portfolio**, which should demonstrate a level of development beyond the need of classroom instruction and encouragement. The faculty will also look in the portfolio for evidence of significant personal exploration.

Secondary to the portfolio, but important nonetheless, the applicant's **letter of intent** and **letters of recommendation** will also be given careful consideration. In reviewing these letters, the faculty will look for, among other things, indications that the applicant will be capable of prolonged and concentrated effort, guided by realistic personal goals. Letters should address both academic and artistic accomplishments, as well as potential for further growth in both of these areas.

Applicants are strongly encouraged to visit the USU campus and meet with the faculty in their proposed field of study *well in advance* of the February 1 application deadline.

Important Note. Please note that the graduate programs in the Department of Art and Design have limited enrollment; admission is *very* competitive. There is no guarantee that applicants who meet minimum admission requirements will be accepted into the graduate programs.

Financial Assistance

Departmental support is available to graduate students on a competitive basis. Students requesting financial support should apply to the department by February 1. Other assistance is available through the university Financial Aid Office. Students should note that applications for Federal work-study should be mailed during the first week of February.

College of Arts and Sciences Faculty

Programs

Art - Minor
Art History - Minor
Art History - BA
Art - AA
Art: Art Education - BFA
Art - BA
Art - BS
Art: Ceramics - BFA
Art: Drawing and Painting - BFA
Art: Graphic Design - BFA
Art - MFA
Art: Photography - BFA
Art: Printmaking - BFA
Art: Sculpture - BFA
Film Studies - Minor
Interior Architecture and Design - BIAD
Motion Design - MA

Courses

ART1010 - Exploring Art (BCA) - 3 - Credits
ART1020 - Drawing I (BCA) - 3 - Credits
ART1050 - Introduction to Photography - 3 - Credits
ART1120 - Two-Dimensional Design - 3 - Credits
ART1130 - Three-Dimensional Design - 3 - Credits
ART1140 - 4D Design: Time Research - 3 - Credits
ART1430 - Basic Illustration - 3 - Credits
ART2100 - Art Education Foundations Seminar - 1 - Credits
ART2110 - Drawing II - 3 - Credits
ART2200 - Painting I - 3 - Credits
ART2220 - Watercolor Painting - 3 - Credits
ART2230 - Basic Printmaking - 3 - Credits
ART2260 - Intermediate Portfolio Preparation - 2 - Credits
ART2400 - Introduction to Graphic Design - 3 - Credits
ART2500 - Advanced Photography - 3 - Credits
ART2600 - Basic Sculpture - 3 - Credits
ART2650 - Introduction to Ceramics - 3 - Credits
ART2660 - Intermediate Ceramics - 3 - Credits
ART2680 - Introduction to Figure Drawing - 3 - Credits
ART2690 - Introduction to Sculpting the Human Figure - 3 - Credits
ART2700 - Fine Art Seminar - 0.5 - Credits
ART2810 - Photography I - 3 - Credits
ART2830 - Photographic Technologies - 3 - Credits
ART2900 - Introductory Internship/CO-OP - 3 - Credits
ART2920 - Sophomore Independent Projects - 1 - 3 Credits
ART3000 - Secondary Art Methods I - 3 - Credits
ART3050 - Japanese Calligraphy - 1 - Credits
ART3100 - Art Education Seminar - 1 - Credits
ART3200 - Painting II - 3 - Credits
ART3220 - Screen Printing - 3 - Credits
ART3230 - Lithography - 3 - Credits
ART3240 - Intaglio - 3 - Credits
ART3250 - Relief Prints - 3 - Credits
ART3260 - Introduction to Book Arts - 3 - Credits
ART3270 - Color: Theory and Practice - 3 - Credits
ART3280 - Special Topics in Printmaking - 3 - Credits
ART3300 - Clinical Experience I - 1 - Credits
ART3370 - Illustration Concepts - 3 - Credits
ART3400 - Typography - 3 - Credits
ART3410 - History of Graphic Design Studio - 3 - Credits
ART3420 - Hashimoto Communication Arts Seminar - 1 - Credits
ART3610 - Intermediate Sculpture - 3 - Credits
ART3650 - Intermediate Ceramics: Handbuilding - 3 - Credits
ART3660 - Intermediate Ceramics: Throwing on the Potter's Wheel - 3 - Credits
ART3700 - Elementary Art Methods - 3 - Credits
ART3810 - Photography II - 3 - Credits
ART3825 - Analog Photography - 3 - Credits
ART3830 - Documentary and Visual Storytelling - 3 - Credits
ART4000 - Secondary Art Methods II - 3 - Credits
ART4200 - Advanced Drawing and Painting Studio - 3 - 6 Credits
ART4210 - Figure Drawing & Painting - 3 - Credits
ART4220 - Landscape Drawing and Painting - 3 - Credits
ART4250 - Advanced Printmaking Studio - 3 - Credits
ART4260 - Life Drawing - 3 - Credits
ART4270 - Special Topics: Drawing and Painting - 3 - Credits
ART4300 - Clinical Experience II - 1 - Credits
ART4410 - Graphic Interface Design I - 3 - Credits
ART4420 - Brand Identity Design - 3 - Credits
ART4425 - Advanced Branding/Packaging Design - 3 - Credits
ART4430 - Graphic Interface Design II - 3 - Credits
ART4440 - Type, Image, and Visual Continuity - 3 - Credits
ART4445 - Book Cover Design - 3 - Credits

ART4450 - Senior Capstone - 3 - Credits
ART4455 - Advanced Typography - 3 - Credits
ART4460 - Motion Design - 3 - Credits
ART4470 - Special Topics in Graphic Design I - 1 - 9 Credits
ART4475 - Special Topics in Graphic Design II - 1 - 9 Credits
ART4610 - Sculpture Projects - 3 - Credits
ART4620 - Sculpture Seminar - 3 - Credits
ART4630 - Figure Study for Sculpture - 3 - Credits
ART4640 - Technology of Ceramic Art - 3 - Credits
ART4650 - Advanced Ceramic Studio - 3 - 6 Credits
ART4660 - Advanced Sculpture Studio - 1 - 9 Credits
ART4820 - Special Topics in Photography - 3 - Credits
ART4835 - Theory of Photography - 3 - Credits
ART4865 - Nineteenth Century Photographic Processes - 3 - Credits
ART4875 - Studio Lighting - 3 - Credits
ART4885 - Advanced Photography Studio - 3 - Credits
ART4900 - Advanced Internship/Coop - 1 - 3 Credits
ART4910 - BFA Professional Practice - 1 - Credits
ART4915 - Senior BFA Exhibition - 1 - Credits
ART4920 - Independent Projects - 1 - 9 Credits
ART5480 - Special Topics Art and Design - 1 - 6 Credits
ART5500 - Student Teaching Seminar - 2 - Credits
ART5630 - Student Teaching in Secondary Schools - 10 - Credits
ART6100 - Design Strategies for Film, Broadcast, and Advertising - 3 - Credits
ART6110 - 2D Motion Studio - 3 - Credits
ART6120 - Kinetic Brand Identity Studio - 3 - Credits
ART6125 - Digital Media Theory and Visual Culture - 3 - Credits
ART6130 - Advanced 2D Motion Studio - 3 - Credits
ART6140 - Narrative Cinematography - 3 - Credits
ART6150 - 3D Motion Studio - 3 - Credits
ART6160 - Experimental Motion - 3 - Credits
ART6170 - Advanced 3D Motion Studio - 3 - Credits
ART6180 - Motion Design Thesis - 3 - Credits
ART6200 - Graduate Drawing and Painting Studio - 1 - 9 Credits
ART6250 - Graduate Printmaking Studio - 1 - 9 Credits
ART6260 - Graduate Book Arts Studio - 3 - Credits
ART6400 - Graduate Graphic Design Studio - 3 - 9 Credits
ART6480 - Special Topics Art and Design - 1 - 6 Credits
ART6640 - Technology of Ceramic Art - 3 - Credits
ART6650 - Graduate Ceramic Studio - 3 - 9 Credits
ART6660 - Graduate Sculpture Studio - 3 - 9 Credits
ART6800 - Graduate Photography Studio - 3 - 9 Credits
ART6900 - Professional Practices - 3 - Credits
ART6910 - Graduate Interdisciplinary Critique - 3 - Credits
ART6920 - Graduate Independent Projects in Art - 1 - 9 Credits
ART6940 - Graduate Internship/Coop - 1 - 9 Credits
ART6970 - Research and Thesis - 3 - Credits
ART6990 - Continuing Graduate Advisement - 1 - 3 Credits
ARTH1270 - Native American Arts and Crafts - 3 - Credits
ARTH2710 - Survey of Western Art: Prehistoric to Medieval (BHU) - 3 - Credits
ARTH2720 - Survey of Western Art: Renaissance to Post-Modern (BHU) - 3 - Credits
ARTH2730 - Art of the African Diaspora (BHU) - 3 - Credits
ARTH3200 - Experiential Learning in Art History - Study Abroad - 1 - 3 Credits
ARTH3210 - Classical Mythology - 3 - Credits
ARTH3215 - Art of Ancient Greece (CI) - 3 - Credits
ARTH3220 - The Art & Architecture of Ancient Rome (CI/DHA) - 3 - Credits
ARTH3270 - Native North American Art (CI) - 3 - Credits
ARTH3295 - Latinx Art (CI/DHA) - 3 - Credits
ARTH3310 - History of Asian Art: Ancient to Modern - 3 - Credits
ARTH3320 - Pre-Columbian Art (CI) - 3 - Credits
ARTH3340 - African Art (CI) - 3 - Credits
ARTH3420 - Early Modern Art in Italy - 3 - Credits
ARTH3430 - Visual Cultures of the Global Early Modern - 3 - Credits
ARTH3510 - Islamic Visual Cultures (CI/DHA) - 3 - Credits
ARTH3590 - Imaging Classical Warfare - 3 - Credits
ARTH3610 - Classical Art History: Greece and Rome (CI) - 3 - Credits
ARTH3615 - Pompeii: Roman Domestic Art and Architecture (CI/DHA) - 3 - Credits
ARTH3620 - Early Christian and Byzantine Art (DHA) - 3 - Credits
ARTH3630 - Medieval Art (CI/DHA) - 3 - Credits
ARTH3710 - Art, Culture and Crisis in Postwar Britain (CI) - 3 - Credits
ARTH3720 - Renaissance Art (CI) - 3 - Credits
ARTH3740 - Art of The Avant - Gardes: 1872 - 1945 (CI) - 3 - Credits
ARTH3750 - High-Modernism To Post - Modernism: 1945-1989 (CI) - 3 - Credits
ARTH3755 - Contemporary Art: 1989 to the present (CI) - 3 - Credits
ARTH3760 - American Art and Visual Culture (CI) - 3 - Credits
ARTH3780 - 19th Century European Art (CI) - 3 - Credits
ARTH3820 - The History of Photography - 3 - Credits
ARTH3840 - Race and Visual Culture (CI) - 3 - Credits
ARTH3860 - LGBTQ History through Art and Visual Expression - 3 - Credits
ARTH4210 - Celtic Europe - 3 - Credits
ARTH4260 - Latin American Art (CI/DHA) - 3 - Credits
ARTH4520 - The Visual Cultures of Empire (CI) - 3 - Credits
ARTH4710 - Feminist Theory and Practice in the Visual Arts (CI) - 3 - Credits
ARTH4725 - Contemporary Land, Earth, and Eco Art (CI) - 3 - Credits
ARTH4730 - Baroque and Rococo Art - 3 - Credits
ARTH4790 - Art History Seminar and Special Problems - 1 - 6 Credits
ARTH4800 - Directed Reading and Research in Art History - 1 - 3 Credits
ARTH4810 - Museum Internship - 1 - 3 Credits
ARTH4900 - Senior Capstone Research Seminar in Art History - 3 - Credits
ARTH4910 - Senior Thesis in Art History and Visual Studies - 3 - Credits
ARTH5310 - Common Threads: History of Fiber Arts (CI) - 3 - Credits
ARTH5410 - Art of Small Scale Cultures (CI) - 3 - Credits
ARTH5430 - Curatorial Seminar - Rare Books and Manuscripts - 3 - Credits
ARTH5730 - The Art Museum - 3 - Credits
ARTH5740 - Art and Religion: Topics in Sacred Art - 3 - Credits
ARTH6270 - Graduate Native North American Art - 3 - Credits
ARTH6310 - Common Threads: History of Fiber Arts - 3 - Credits
ARTH6320 - Graduate Pre-Columbian Art - 3 - Credits
ARTH6340 - Graduate African Art - 3 - Credits
ARTH6410 - Art of Small Scale Cultures - 3 - Credits
ARTH6430 - Curatorial Seminar - Rare Books and Manuscripts - 3 - Credits
ARTH6500 - Graduate Art History Section - 3 - Credits
ARTH6510 - Graduate Islamic Visual Cultures c. 600-1500 - 3 - Credits
ARTH6610 - Greek and Roman Art - 3 - Credits
ARTH6620 - Byzantine Art - 3 - Credits
ARTH6630 - Graduate Medieval Art - 3 - Credits
ARTH6720 - Graduate Renaissance Art - 3 - Credits
ARTH6730 - Graduate Baroque and Rococo Art - 3 - Credits
ARTH6740 - Art of the Avant-Gardes: 1872-1945 - 3 - Credits
ARTH6750 - High - Modernism To Post-Modernism: 1945-1989 - 3 - Credits
ARTH6755 - Contemporary Art: 1989 to the present - 3 - Credits
ARTH6760 - American Art and Visual Culture - 3 - Credits
ARTH6770 - Graduate Gender Issues in Art - 3 - Credits
ARTH6790 - Art History Seminar and Special Problems - 1 - 6 Credits
ARTH6900 - Graduate Seminar: Issues in Contemporary Art - 3 - Credits
FILM1010 - Foundations in Film Studies - 3 - Credits
FILM3010 - The Landscape in Cinema - 3 - Credits
FILM3210 - Classics and Cinema (CI/DHA) - 3 - Credits
FILM3220 - Classics and Videogames (CI/DHA) - 3 - Credits
FILM3300 - The African American Cinematic Experience (CI) - 3 - Credits
FILM3310 - Italian Cinema - 3 - Credits
FILM3320 - American Apocalypse: Disaster and Dystopia in Hollywood Film (CI) - 3 - Credits
FILM3330 - The Documentary (CI) - 3 - Credits
FILM3340 - The New Hollywood: American New Wave Cinema of the 1970s (CI/DHA) - 3 - Credits
FILM3350 - British Cinema of the 1960s (CI) - 3 - Credits
FILM3360 - Bad Cinema - 3 - Credits
FILM3370 - Film Genres (CI) - 3 - Credits
FILM3410 - Cinema in the American South - 3 - Credits
FILM3440 - Latinx Film - 3 - Credits
FILM4850 - Introduction to Film Theory (CI) - 3 - Credits

IAD1700 - Seminar Series in Interior Architecture and Design - 1 - Credits
IAD1750 - Design in Everyday Living (BCA) - 3 - Credits
IAD1760 - Rapid Visualization in Interior Architecture and Design - 3 - Credits
IAD1780 - History of Architecture, Interiors, and Furnishings II - 3 - Credits
IAD1790 - Foundations in Interior Architecture and Design - 3 - Credits
IAD2710 - Architectural Graphics I - 3 - Credits
IAD2720 - Architectural Graphics II - 3 - Credits
IAD2730 - Space Planning and Human Factors - 3 - Credits
IAD2750 - Computer Aided Drafting and Design I - 3 - Credits
IAD2760 - Computer Aided Drafting and Design II - 3 - Credits
IAD2770 - History of Architecture, Interiors, and Furnishings I - 3 - Credits
IAD2790 - Environmental Design for Interiors - 3 - Credits
IAD3710 - Pre-Internship in Interior Architecture and Design - 1 - Credits
IAD3730 - Interior Materials and Construction (QI) - 3 - Credits
IAD3740 - Visual Communication in Interior Architecture and Design - 3 - Credits
IAD3760 - Commercial Design Studio - 3 - Credits
IAD3770 - Residential Design Studio - 3 - Credits
IAD3790 - Architectural Systems - 3 - Credits
IAD4700 - Topics in Interior Architecture and Design - 3 - Credits
IAD4710 - Internship in Interior Architecture and Design - 3 - Credits
IAD4740 - Business and Professional Practices in Interior Architecture and Design (CI) - 3 - Credits
IAD4750 - Senior Design Studio I - 3 - Credits
IAD4760 - Senior Design Studio II - 3 - Credits
IAD4770 - Senior Exhibit - 1 - Credits
IAD4780 - Interior Architecture and Design Travel Course - 1 - 9 Credits
IAD4790 - Building Information Modeling in Interior Architecture and Design - 3 - Credits
IAD4900 - Independent Study in Interior Architecture and Design - 1 - 5 Credits
IAD4910 - Creative Projects - 1 - 4 Credits
IAD6700 - Graduate Topics in Interior Architecture and Design - 1 - 6 Credits
IAD6710 - Graduate Internship in Interior Architecture and Design - 1 - 3 Credits
IAD6720 - Research Methods in Interior Architecture and Design - 3 - Credits
IAD6730 - Interior Architecture and Design Graduate Studio - 1 - 6 Credits
IAD6740 - Advanced Interior Architecture and Design Theory - 3 - Credits
IAD6750 - Readings in Interior Architecture and Design - 1 - 3 Credits
IAD6760 - Building Information Modeling in Interior Architecture and Design - 3 - Credits
IAD6770 - Facilities Planning and Management - 3 - Credits
IAD6780 - Design Methodologies in Interior Architecture and Design - 3 - Credits
IAD6790 - Master's Seminar in Interior Architecture and Design - 1 - 6 Credits
IAD6900 - Special Problems - 1 - 3 Credits
IAD6970 - Master's Thesis Research in Interior Architecture and Design - 1 - 6 Credits
IAD6990 - Continuing Graduate Advisement - 1 - 3 Credits

Aviation Technology Department

Aviation Technology

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Logan- Lisa Hunsaker, AGRS 414, lisa.hunsaker@usu.edu, appointments: caas.usu.edu/advising or call (435) 797-2282
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Full details of the learning objectives, assessment plan, student outcomes, and evidence of continuous improvement for these programs of study can be found at caas.usu.edu/avte/assessment.

Overview

The Aviation Technology Department provides instruction to students seeking an aviation related certificate, associate of applied science, baccalaureate and/or master degree.

The Aviation Technology Department prides itself in applying cutting-edge technology with exceptional training to produce high quality professionals that the aviation industry needs.

Full details of the learning objectives, assessment plan, student outcomes, and evidence of continuous improvement for these programs of study can be found at http://caas.usu.edu/avte/assessment.

Undergraduate Programs
Mission Statement

Our mission is to prepare and inspire the next generation of aviation professionals by providing innovative education and training in aviation technology. We strive to cultivate a comprehensive understanding of aviation technology, maintenance, operations, and unmanned aircraft systems. Through a combination of cutting-edge technology, hands-on learning, an experiential education, we aim to develop skilled and knowledgeable individuals who are committed to the highest standards of safety, efficiency, and professionalism in the aviation industry.

Admission Requirements

Admission requirements for most programs in the Aviation Technology Department are the same as those described for the university for incoming freshman and most transfer students. See individual program listings and advisors for additional information and requirements.

University Honors Program

The University Honors Program offers students in all colleges and majors the unique opportunity to deepen their educational experience with hands-on practical applications of their academic knowledge. The Honors Program admits incoming, transfer, and existing USU students based on application. High-achieving students with at least one year remaining are encouraged to apply. See the University Honors Program catalog entry and website (honors.usu.edu) for more information.

Graduate Programs

Admission Requirements

See general admission requirements. Applications will be considered throughout the year. However, students who wish to be considered for financial aid must apply by February 1 for the coming academic year. No application will be considered until all required information arrives at the office of the School of Graduate Studies.

Requirement Changes

The graduation requirements described in this catalog are subject to change. Students should check with their advisors concerning possible changes.

Additional Information

For further information about undergraduate programs and requirements, visit the following website: caas.usu.edu/avte/index.

Faculty: College of Agriculture and Applied Sciences | Utah State University Catalog

Programs

Aircraft Maintenance Technician - Airframe & Powerplant - AAS
Airport Management - Post-Bachelor's Certificate
Aviation Technology - Maintenance Management - BS
Aviation Technology - Professional Pilot: Accelerated Fixed Wing Emphasis - BS
Aviation Technology - Professional Pilot: Fixed Wing Emphasis - BS
Aviation Technology - Professional Pilot: Rotorcraft Emphasis - BS
Air Traffic Control - Minor
Aviation Dispatch - Minor
Aviation Education - Post-Bachelor's Certificate
Aviation Technology - Aviation Management: Aviation Operations Emphasis - BS
Aviation Management - Post-Bachelor's Certificate
Aviation Technology - Aviation Management - Unmanned Aircraft Systems Emphasis - BS
Master of Aviation Science - MAS
Aviation Safety Management - Post-Bachelor's Certificate
Small Business Operations - AAS
Unmanned Aircraft Systems - Minor
Unmanned Aircraft Systems - Certificate

Courses

AV1000 - Private Pilot Introduction - 1 - Credits
AV1100 - The Aviation Profession - 1 - Credits
AV1125 - The Aviation Profession - 1 - Credits
AV1130 - Flight Principles - 3 - Credits
AV1140 - Aircraft Components and Principles - 3 - Credits
AV1150 - Aircraft Components and Principles II - 3 - Credits
AV1170 - Aircraft Structures - 3 - Credits
AV1200 - Professional Development for Aviation Careers - 3 - Credits
AV1210 - Introduction to Airfield Operations - 3 - Credits
AV1220 - Introduction to Landside Operations - 3 - Credits
AV1240 - Aircraft Maintenance - 3 - Credits
AV1710 - Air Traffic Control Fundamentals - 3 - Credits
AV1905 - Intro to Unmanned Aerial Systems (without FAA Exam) - 2 - Credits
AV2000 - Aerodynamics for Aviators - 3 - Credits
AV2040 - Aviation Weather - 3 - Credits
AV2050 - History of Aviation - 3 - Credits
AV2100 - Aircraft Reciprocating Powerplants and Accessories - 3 - Credits
AV2110 - Aircraft Reciprocating Powerplants and Accessories Lab - 3 - Credits
AV2140 - Aircraft Turbine Powerplants and Maintenance Operations - 3 - Credits
AV2150 - Aircraft Turbine Powerplant Maintenance Operations Lab - 3 - Credits
AV2160 - Aircraft Systems for the Professional Pilot - 3 - Credits
AV2170 - Aircraft Systems - 2 - Credits
AV2175 - Robinson Helicopter Systems - 2 - Credits
AV2180 - Aircraft Hydraulic and Pneumatic Systems - 2 - Credits
AV2190 - Aircraft Systems Lab - 1 - Credits

AV2200 - Aircraft Hydraulics and Pneumatics Systems Lab - 1 - Credits
AV2250 - Internship - 1 - 4 Credits
AV2300 - Fundamentals of Electricity and Aircraft Electronics - 4 - Credits
AV2310 - ROTC Flight 1 - 0.5 - Credits
AV2320 - Intro to Private Pilot Requirements - 3 - Credits
AV2330 - Private Pilot Ground School - 4 - Credits
AV2335 - Private Pilot Ground School Helicopter - 4 - Credits
AV2350 - Private Pilot Certification - 3 - Credits
AV2355 - Private Pilot Helicopter Stage I Certification - 3 - Credits
AV2365 - Private Pilot Helicopter Stage II Certification - 3 - Credits
AV2401 - Cross Country Ground School - 1 - Credits
AV2430 - Aircraft Electrical Systems and Components - 2 - Credits
AV2440 - Aircraft Electrical Systems Laboratory - 2 - Credits
AV2450 - Cross Country - Commercial Stage 1 - 3 - Credits
AV2451 - Challenge Cross Country - Commercial Stage 1 - 3 - Credits
AV2500 - Flight Time Building I - 1 - Credits
AV2504 - Flight Time Building II - 1 - Credits
AV2505 - Flight Time Building III - 1 - Credits
AV2510 - IFR and Commercial Regulations and Procedures - 3 - Credits
AV2520 - Instrument Pilot Ground School - 4 - Credits
AV2525 - Instrument Pilot Ground School Helicopter - 4 - Credits
AV2530 - Instrument Flight Rules, Regulations and Procedures - 4 - Credits
AV2540 - Instrument Pilot Certification - 3 - Credits
AV2545 - Instrument Helicopter Certification - 3 - Credits
AV2555 - Instrument Pilot Helicopter Certification II - 1 - Credits
AV2620 - Commercial Pilot Ground School - 3 - Credits
AV2625 - Commercial Pilot Ground School Helicopter - 4 - Credits
AV2630 - Commercial Pilot Regulations and Procedures - 2 - Credits
AV2655 - Commercial Helicopter Advanced Cross-Country - 3 - Credits
AV2660 - Advanced Maneuvers - Commercial Stage 2 - 3 - Credits
AV2665 - Commercial Helicopter Stage I Certification - 3 - Credits
AV2670 - Commercial Multi-Engine Certification - 3 - Credits
AV2675 - Commercial Helicopter Stage II Certification - 3 - Credits
AV2710 - Basic Control Tower Operations - 3 - Credits
AV2800 - Flight Lab 1 (141 Instrument and Commercial Training) - 3 - Credits
AV2810 - Basic Radar Operations - 3 - Credits
AV2870 - Commercial Single-Engine Add-On - 1 - Credits
AV2900 - Flight Lab 2 (141 Instrument and Commercial Training) - 3 - Credits
AV2960 - Aircraft Dispatcher Written Exam Preparation - 3 - Credits
AV3000 - Flight Lab 3 (141 Commercial Training) - 3 - Credits
AV3010 - National Airspace, Air Traffic Control, and Airport Administration - 3 - Credits
AV3020 - Electronic Flight Instrument Analysis for Aircraft Technicians - 3 - Credits
AV3100 - Technical Communication for the Global Aviation Industry (CI) - 3 - Credits
AV3120 - Aviation Law - 3 - Credits
AV3140 - Advanced Avionics Systems and Flight Simulation - 3 - Credits
AV3145 - Helicopter Flight Training Device - 3 - Credits
AV3200 - Flight Lab 4 (141 Commercial and CFI Training) - 3 - Credits
AV3280 - Advanced Aircraft Maintenance - 3 - Credits
AV3300 - Flight Lab 5 (141 CFI Training) - 2 - Credits
AV3310 - ROTC Flight 2 - 1 - 3 Credits
AV3410 - Commercial Single Engine Certification - Commercial Stage 3 - 3 - Credits
AV3420 - FAA Regulations, Records, and Certification - 2 - Credits
AV3440 - Accelerated Commercial Certification - 3 - Credits
AV3510 - UAS Fixed Wing Design and Construction - 3 - Credits
AV3515 - UAS Maintenance & Multirotor - 3 - Credits
AV3520 - UAS Guidance and Control - 3 - Credits
AV3525 - UAS Sensors - 3 - Credits
AV3535 - UAS Intermediate Flight Lab - 3 - Credits
AV3560 - UAS Aerial Photography - 3 - Credits
AV3700 - Fundamentals of Instruction - 1 - Credits
AV3720 - CFI Ground School (CI) - 3 - Credits
AV3725 - Certified Flight Instructor Ground School Helicopter - 4 - Credits
AV3735 - Certified Flight Instructor Certification Helicopter - 2 - Credits
AV3740 - CFI Certification - 2 - Credits
AV3760 - Certified Flight Instructor Instrument Certification - 1 - Credits
AV3825 - Certified Flight Instructor - Instrument Ground School Helicopter - 4 - Credits
AV3835 - Certified Flight Instructor Instrument Certification Helicopter - 1 - Credits
AV3880 - Commercial Multi-Engine Add-On - 2 - Credits
AV3885 - Helicopter Turbine Transition - 2 - Credits
AV3900 - Aviation Independent Study - 1 - 3 Credits
AV3960 - Aircraft Dispatcher Practical Exam Preparation - 3 - Credits
AV4100 - National Intercollegiate Flying Association Flight Team Lab - 1 - 3 Credits
AV4110 - National Intercollegiate Flying Team Certification - 1 - 3 Credits
AV4150 - AOG (Aircraft On Ground) Aircraft Maintenance - 1 - 3 Credits
AV4200 - Composite Manufacturing Processes and Repair - 3 - Credits
AV4250 - Internship - 1 - 6 Credits
AV4280 - Aviation Management - 3 - Credits
AV4300 - History of Aviation in America - 3 - Credits
AV4490 - Human Factors in Aviation Safety - 3 - Credits
AV4505 - Advanced Robinson Helicopter Systems - 3 - Credits
AV4550 - Airport Planning - 3 - Credits
AV4605 - Helicopter History and Industry Applications - 2 - Credits
AV4610 - Aviation Maintenance Senior Project I (CI) - 3 - Credits
AV4620 - Aviation Maintenance Senior Project II (CI) - 3 - Credits
AV4660 - Aviation Senior Project (CI) - 3 - Credits
AV4710 - Crew Resource Management (CI) - 3 - Credits
AV4720 - Aviation Safety and Security (CI) - 3 - Credits
AV4750 - Aviation Symposium - 1 - 3 Credits
AV4810 - Air Traffic Control Knowledge Evaluation - 1 - Credits
AV4880 - Multiple Engine Instructor Certification - 1 - Credits
AV4930 - Aircraft Welding - 1 - 4 Credits
AV5150 - Fundamentals of Airport Management - 3 - Credits
AV5210 - Fundamentals of Aviation Science - 3 - Credits
AV5220 - Fixed Based Operator Management for General Aviation Airports - 3 - Credits
AV5240 - Certified Member: Airport Manager Certification Preparation - 3 - Credits
AV5260 - Breaking Barriers in Aviation: Historically Underrepresented Populations in Aviation - 3 - Credits
AV5300 - Advanced Twin Systems - 3 - Credits
AV5400 - Boeing 737 NG Systems and Procedures - 4 - Credits
AV5410 - Regional Jet Ground School - 4 - Credits
AV5420 - Boeing 737 NG Advanced Flight Maneuvers - 3 - Credits
AV5500 - Airline Transport Pilot (ATP) Standards (QI) - 4 - Credits
AV5700 - Aircraft Dispatcher Written Exam Preparation - 3 - Credits
AV5710 - Aircraft Dispatcher Practical Exam Preparation - 3 - Credits
AV5910 - Aviation Special Topics - 1 - 4 Credits
AV5930 - Aviation Independent Research - 3 - Credits
AV6110 - Air Transportation - 3 - Credits
AV6120 - Aviation Operations and Management - 3 - Credits
AV6130 - Emerging Technologies in Aviation - 3 - Credits
AV6140 - Aviation Safety: History and Research - 3 - Credits
AV6150 - Airport Management - 3 - Credits
AV6160 - Human Factors in Aviation - 3 - Credits
AV6210 - Fundamentals of Aviation Science - 3 - Credits
AV6220 - Fixed Based Operator Management for General Aviation Airports - 3 - Credits
AV6230 - Aerospace Technology and Automation - 3 - Credits
AV6240 - Certified Member: Airport Manager Certification Preparation - 3 - Credits
AV6260 - Breaking Barriers in Aviation: Historically Underrepresented Populations in Aviation - 3 - Credits
AV6270 - Economics of Air Transportation - 3 - Credits
AV6310 - Aviation Safety Management Systems - 3 - Credits
AV6320 - Airport and Ground Safety Programs - 3 - Credits
AV6330 - Flight Safety Program Management - 3 - Credits
AV6340 - Aircraft Accident Investigation and Analysis - 3 - Credits

AV6350 - Aviation Security - 3 - Credits
AV6600 - Unmanned Aerospace Systems - 3 - Credits
AV6605 - FAA Remote Pilot Certification - 1 - Credits
AV6610 - Human Factors, Crew Resource Management and Aeronautical Decision Making for UAS - 3 - Credits
AV6620 - Small Unmanned Aircraft Systems Safety Systems - 3 - Credits
AV6630 - UAS Education Methodology and Design - 3 - Credits
AV6640 - sUAS Operation and Application SUAS Operation and Application - 3 - Credits
AV6650 - Industry Applications in Unmanned Aircraft Systems - 3 - Credits
AV6760 - Reading and Applying Research - 3 - Credits
AV6900 - Aviation Independent Study - 3 - Credits
AV6910 - Aviation Special Topics - 1 - 4 Credits
AV6930 - Aviation Independent Research - 3 - Credits
AV6940 - Aviation Internship - 3 - Credits
AV6950 - Aviation Creative Project - 3 - Credits
AV6960 - Aviation Capstone Project - 3 - Credits
TEAV1150 - Components and Principles II - 3 - Credits
UAS1010 - Unmanned Aircraft Systems - Remote Pilot - 3 - Credits
UAS1020 - Unmanned Aircraft Systems Part 107 Test - 1 - Credits
UAS1100 - Introduction to Unmanned Aircraft Systems - 1 - Credits
UAS1200 - Unmanned Aircraft Systems Introduction to Fixed-Wings - 3 - Credits
UAS1300 - Unmanned Aircraft Systems Introduction to Multirotor - 3 - Credits
UAS1350 - UAS Intro to FPV (First Person View) Essentials - 3 - Credits
UAS1500 - Introduction to Unmanned Aircraft Systems Maintenance and Components - 3 - Credits
UAS2050 - Unmanned Aircraft Systems Pilot in Command - 3 - Credits
UAS2100 - Unmanned Aircraft Systems Flight Lab - Patterns and Maneuvers - 3 - Credits
UAS2260 - Fixed-Wing Build and Components: Profile Airplane - 3 - Credits
UAS2300 - Unmanned Aircraft Systems Multirotor Autonomy - 3 - Credits
UAS2650 - Drones for Hire - 3 - Credits
UAS2700 - Unmanned Aircraft Systems Photo and Video Basics - 3 - Credits
UAS3010 - Unmanned Aircraft System Introduction to Remote Pilot Certification - 3 - Credits
UAS3020 - Part 61 Introduction to Unmanned Aircraft Systems and Flight Lab - 3 - Credits
UAS3050 - Unmanned Aircraft Systems Pilot in Command Introduction - 3 - Credits
UAS3200 - Fixed-wing Design and Construction Essentials - 3 - Credits
UAS3250 - UAS VTOL (Vertical Take Off and Landing) - 3 - Credits
UAS3260 - - 3 - Credits
UAS3360 - UAS First Person View (FPV) Fundamentals - 3 - Credits
UAS3440 - Unmanned Aircraft Systems Precision Agriculture Introduction - 3 - Credits
UAS3650 - Drones for Projects - 3 - Credits
UAS3700 - Unmanned Aircraft Systems Video Production - 3 - Credits

Biological Engineering Department

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Graduate: Lauren Shanley, (435) 797-1041, lauren.shanley@usu.edu, Biological Engineering Dept. Office, ENGR 402

Degrees offered: Bachelor of Science (BS), Master of Science (MS), Master of Engineering (ME) and Doctor of Philosophy (PhD) in Biological Engineering; Master of Science (MS) in Biomanufacturing

Graduate areas of interest: Bioprocessing; Biofuels; Biomedical; Synthetic Biomanufacturing; Synthetic Biology; Computational Biology; Biophotonics; Sustainable Energy; Biosensing; Metabolic Engineering; Tissue Engineering; Nanotechnology

Full details of the learning objectives, assessment plan, student outcomes, and evidence of continuous improvement for these programs of study can be found at engineering.usu.edu/be/assessment/nwccu/nwccu-undergrad for undergraduate programs and engineering.usu.edu/be/assessment/nwccu/nwccu-graduate for graduate programs.

Mission

The mission of the Biological Engineering Department is to apply fundamental biological science and modern engineering analysis to create new knowledge and to translate that knowledge into novel applications.

- Teach students how to integrate engineering principles and the knowledge of basic biological sciences to the design, control, and analysis of engineered biological systems to meet the needs of society and to improve the quality of life.
- Prepare students with engineering skills for entry into biological-based professions including medicine (MD and MD/PhD), law, and public health programs, and for entry into graduate programs in biological engineering, biomedical engineering, and similar disciplines.
- Provide a curriculum that is relevant to the needs of the region, nation, and world (global) that will attract the most outstanding students.
- Create new research-based biological engineering processes, technologies, and products to address local and global problems and the local and global economy, which will foster growth of spin-off companies in the private sector.
- Develop partnerships with industry and government to stimulate high-technology job creation and economic growth supporting a circular economy.
- Develop leaders in the biological engineering profession, including faculty members and students, who can address technology innovation and bioethics challenges.

Program Educational Objectives

Program Educational Objectives describe what graduates of the Biological Engineering program are expected to attain within a few years of graduation.

The Biological Engineering Program Educational Objectives are:

1. Graduates of the program will advance in careers and opportunities in Biological Engineering and related fields and professions based on a solid educational background in appropriate engineering, mathematics, physical/life sciences, and general studies including communication and ethics.

2. Graduates of the program will pursue advanced degrees in engineering and related professional fields.

Student Outcomes

Student outcomes are statements that describe what students are expected to know and be able to do by the time of graduation. These relate to skills, knowledge, and behaviors that students acquire as they progress through the Biological Engineering program.

The Biological Engineering Program Student Outcomes correspond to the ABET Student Outcomes 1-7:

1. An ability to identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics. An ability to design and conduct experiments, as well as to analyze and interpret data.

2. An ability to apply engineering design to produce solutions that meet specified needs with consideration of public health, safety, and welfare, as well as global, cultural, social, environmental, and economic factors.

3. An ability to communicate effectively with a range of audiences.

4. An ability to recognize ethical and professional responsibilities in engineering situations and make informed judgments, which must consider the impact of engineering solutions in global, economic, environmental, and societal contexts.

5. An ability to function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives.

6. An ability to develop and conduct appropriate experimentation, analyze and interpret data, and use engineering judgment to draw conclusions.

7. An ability to acquire and apply new knowledge as needed, using appropriate learning strategies.

Assessment and Evaluation

The Biological Engineering Department is committed to an assessment process aimed at evaluating the effectiveness of the biological engineering program in preparing graduates as productive professionals. The foundation of departmental assessment is the undergraduate accreditation by the EAC Accreditation Commission of ABET, www.abet.org.

The continuous improvement processes that are documented and implemented annually as part of the accreditation activities in support of the ABET requirements provide for formal review of the Biological Engineering Bachelor of Science program. The assessment and evaluation are formally conducted annually through department committees including: (1) the Curriculum Committee, (2) the ABET Committee, and (3) the Biological Engineering Industry Review Board. The assessment and evaluation, ensures that the Biological Engineering program meets overall objectives and structure consistent with similar programs in the United States.

Career Opportunities

The Biological Engineering program is broad based and prepares students to pursue opportunities in the biomedical, environmental, energy, bioproducts, food, and bioprocessing sectors as well as government and municipalities. Students receive a firm grounding in biological engineering and also the opportunity to specialize in their chosen area of biological engineering. Biological engineering and related fields are among the highest job growth areas through the next decade. Graduates of the program are also prepared to pursue advanced degrees in research/academia, medicine/dental, law and business. In recent years the College of Engineering has had an excellent job placement rate.

Undergraduate Programs

General biological engineering concepts include the properties of biological materials, electronics and bio-instrumentation, computer use and programming, engineering mechanics, thermodynamics, computer-aided design, biological modeling, including metabolic and biological systems modeling, bio-environmental transport phenomena, and fluid mechanics.

Students gain a strong foundation in engineering, biological, chemical, and physical sciences. Students are then able to choose areas of study tailored to their needs with 14 credits of engineering and technical electives and one-on-one academic advisement with a member of the faculty. Design is a major theme of the student's general coursework and area of interest, with most courses including open-ended design problems. The entire design experience is brought together in a capstone design course.

The Biological Engineering BS program is accredited by the Engineering Accreditation Commission of ABET, (www.abet.org), under the commission's General Criteria and the Program Criteria for Biological Engineering and Similarly Named Programs.

Taking the Fundamentals of Engineering examination, the first step in becoming a licensed professional engineer, is required for graduation. After students have made three credible attempts to pass the national exam, a departmental exam will be administered. When passed, this departmental exam will satisfy the graduation requirement.

Requirements

Admission and Graduation Requirements

The student who is majoring in or planning to major in Biological Engineering needs to be aware of the College of Engineering requirements concerning admission to the college, pre-engineering, admission to the professional engineering program, general education, and other academic requirements. Additional information concerning these items is given in the College of Engineering requirements in this catalog. It is the responsibility of the student to be aware of these rules and regulations.

Additional Information

For more information about the Bachelor of Science requirements and the sequence in which courses should be taken, see Biological Engineering - BS, available from the Biological Engineering Department, the College Advising Center (ENGR 314) or in the online catalog.

University Honors Program

The University Honors Program offers students in all colleges and majors the unique opportunity to deepen their educational experience with hands-on practical applications of their academic knowledge. The Honors Program admits incoming, transfer, and existing USU students based on application. High achieving students with at least one year remaining are encouraged to apply. See the University Honors Program catalog entry and website (honors.usu.edu) for more information.

Financial Support

Scholarships, assistantships, grants-in-aid, and work-study programs are available through the university. In addition, the department employs students to assist in engineering research and development. Cooperative education and industrial employment opportunities for students are coordinated by the university Placement Office and by the Biological Engineering Department.

Concurrent BS/Master's Program

The concurrent BS/Master's program allows engineering students to begin taking graduate-level classes during their senior year. This permits them to complete requirements for *both* the BS degree *and* the master's degree concurrently. Students in this program have a greater selection of graduate courses, since many graduate courses are taught during alternate years. In addition, the student's senior design project could be applicable to a graduate design project or thesis. The department requires a minimum GPA of 3.2, both overall and during the last 60 semester credits, in order to qualify for acceptance into the concurrent BS/Master's program. (For more information, see Concurrent BS/MS Program.)

Graduate Programs
Admission Requirements

See general admission requirements. Admission committees also consider experience, undergraduate record and curriculum, and formal recommendations. A student without an undergraduate engineering background will be required to complete selected undergraduate courses prior to or concurrently with enrollment in graduate courses.

Prerequisites for Matriculation

Students who are admitted provisionally or who have been changed from matriculated to probationary matriculated status will have their records reviewed by a faculty committee when they have completed 12 credits of coursework (among which must be formal engineering courses) or at the end of their second semester at USU. Those students who have earned a 3.0 GPA at that time and desire to be matriculated may apply to the department to have their status changed. If they meet all other academic requirements of the School of Graduate Studies and the department, they will be matriculated and admitted to the degree program. When a student is admitted as a degree candidate, the committee may allow up to 12 credits taken while on nonmatriculated status to be transferred. Nonmatriculated students may continue to study at USU but without degree candidate status. At the end of their studies, nondegree students are granted a Certificate of Completion.

Prerequisite Requirements

All students must have had **formal** courses in engineering and computer programming, as well as at least one year of calculus. Students without this background can satisfy these requirements by taking the appropriate undergraduate courses at USU.

Research Option

Students wishing to gain experience in research may select the research option, particularly if they have a long-term goal of PhD study. The minimum requirements for this option are 30 credits, of which 6 may be awarded for the thesis.

Technical Practice Option

The technical practice (Plan B) Master's (MS) option is offered for students wishing to gain additional coursework and training beyond a bachelor's (BS) degree without the research requirements for a Plan A MS. The requirements for the degree are similar to those for the Plan A MS research option, with the exception of the thesis. The 6 thesis credits are replaced by 3 credits for a significant engineering report or design project and 3 additional credits of coursework. The minimum course requirement for the technical practice option is 30 approved graduate credits.

Research

Specific research projects in biological engineering include tissue and biomedical engineering related to implant materials, biosensor design and development for biomedical and bioenvironmental applications (rapid diagnostics, genetic probes), microbial fermentations, biorefining (production of biofuels and bioplastics from biological feedstocks), nanobiotechnology (quantum dots; nano-drug delivery), biophotonics (interactions of light with biological materials), land-based bioenvironmental sustainable systems (land application of industrial and municipal residuals for recycling, vegetative growth, soil improvement, and groundwater protection), metabolic engineering, and synthetic biological engineering.

Financial Assistance

The large and diverse departmental research programs make it possible to offer graduate financial support in the form of research assistantships, traineeships, and teaching assistantships for qualified students. Research assistantships are provided by the Biological Engineering Department and by individual research projects. Teaching assistantships are provided by the School of Graduate Studies and by the College of Engineering. It is the goal of the Biological Engineering Department to provide research and/or teaching support for all qualified students.

Additional Information

Two guides are available from the department to assist students: (1) *Report, Thesis, and Dissertation Format Guidelines and Policies*, and (2) P*olicies and Procedures for Graduate Study*.

FACULTY - College of Engineering Faculty

Programs

Biological Engineering - BS
Biological Engineering - ME
Biological Engineering - MS
Biological Engineering - PhD

Courses

BENG1200 - SolidWorks for Biological Engineers - 2 - Credits
BENG1880 - Engineering Quantification of Biological Processes - 3 - Credits
BENG2290 - Biological Engineering Profession Exploration - 1 - Credits
BENG2330 - Engineering Properties of Biological Materials - 3 - Credits
BENG2400 - Biological and Environmental Thermodynamics - 3 - Credits
BENG2620 - Environmental Engineering Microbiology - 3 - Credits
BENG3000 - Instrumentation for Biological Systems - 3 - Credits
BENG3200 - Introduction to Unit Operations in Biological Engineering - 3 - Credits
BENG3500 - Fluid Mechanics in Biological Engineering - 3 - Credits
BENG3670 - Transport Phenomena in Bio-Environmental Systems - 3 - Credits
BENG3870 - Biological Engineering Design I - 1 - Credits
BENG4250 - Cooperative Practice - 3 - Credits
BENG4880 - Biological Engineering Design II (CI) - 3 - Credits
BENG4890 - Biological Engineering Design III (CI) - 3 - Credits
BENG4930 - Special Studies - 1 - 4 Credits
BENG5020 - Biological Modeling and Controls - 3 - Credits
BENG5500 - Systems Biology Modeling - 3 - Credits
BENG5600 - Downstream Processes in Biological Engineering - 3 - Credits
BENG5610 - Food and Bioprocess Engineering - 3 - Credits
BENG5620 - Metabolic Engineering I - 3 - Credits
BENG5630 - Synthetic Biological Engineering - 3 - Credits
BENG5640 - Biofuels - 3 - Credits
BENG5660 - Environmental Quality Analysis - 3 - Credits
BENG5680 - Soil-based Waste Management - 2 - Credits
BENG5700 - Introduction to Microfabrication - 3 - Credits
BENG5710 - Advanced Microfabrication - 3 - Credits
BENG5790 - Protein Structure/Function and Purification - 3 - Credits
BENG5810 - Biochemical Engineering - 3 - Credits
BENG5830 - Management and Utilization of Biological Solids and Wastewater - 3 - Credits
BENG5840 - Introduction to Biophotonics - 3 - Credits
BENG5850 - Biomaterials Engineering - 3 - Credits
BENG5870 - Molecular and Cellular Bioengineering - 3 - Credits
BENG5880 - BioMEMS: Microtechnology for BioMedical Research - 3 - Credits
BENG5890 - Tissue Engineering - 3 - Credits
BENG5910 - Introduction to Biosensors - 3 - Credits
BENG5930 - Special Studies - 1 - 4 Credits
BENG6210 - Upstream Processing in Biomanufacturing - 3 - Credits
BENG6220 - Mammalian Cell Culture - 3 - Credits
BENG6230 - Industrial Biotechnology and Biopharmaceuticals Entrepreneurship - 3 - Credits
BENG6240 - Regulation cGMP & Quality Management Systems - 3 - Credits
BENG6250 - Technical Writing in Life Sciences - 3 - Credits
BENG6260 - Downstream Processing for Biomanufacturing - 3 - Credits
BENG6310 - Microbial Fermentation - 3 - Credits
BENG6320 - Monoclonal Antibody & Vaccine Production - 3 - Credits
BENG6330 - Agro-bioproduct, Biorefining, Biomanufacturing - 3 - Credits
BENG6340 - Nutraceutical and Pharmaceutical Product Manufacturing - 3 - Credits
BENG6350 - Medical Device & In-Vitro Diagnostic Substance Manufacturing - 3 - Credits
BENG6370 - Biomanufacturing Laboratory Practicum - 3 - Credits
BENG6380 - Biomanufacturing Internship - 3 - 6 Credits
BENG6500 - Systems Biology Modeling - 3 - Credits
BENG6510 - Graduate Seminar - 1 - Credits
BENG6540 - Physical and Chemical Environmental Process Engineering - 3 - Credits
BENG6600 - Downstream Processes in Biological Engineering - 3 - Credits
BENG6610 - Food and Bioprocess Engineering - 3 - Credits
BENG6620 - Metabolic Engineering I - 3 - Credits
BENG6630 - Synthetic Biological Engineering - 3 - Credits
BENG6640 - Biofuels - 3 - Credits
BENG6660 - Environmental Quality Analysis - 3 - Credits
BENG6680 - Soil-based Waste Management - 2 - Credits
BENG6790 - Protein Structure/Function and Purfication - 3 - Credits
BENG6810 - Biochemical Engineering - 3 - Credits
BENG6830 - Management and Utilization of Biological Solids and Wastewater - 3 - Credits
BENG6840 - Introduction to Biophotonics - 3 - Credits
BENG6850 - Biomaterials Engineering - 3 - Credits
BENG6860 - Research Orientation and Planning - 2 - Credits
BENG6870 - Molecular and Cellular Bioengineering - 3 - Credits
BENG6880 - BioMEMS: Microtechnology for BioMedical Research - 3 - Credits
BENG6890 - Tissue Engineering - 3 - Credits
BENG6910 - Introduction to Biosensors - 3 - Credits
BENG6930 - Special Problems - 1 - 4 Credits
BENG6970 - Thesis Research - 1 - 10 Credits
BENG6990 - Continuing Graduate Advisement for MS Students - 1 - 9 Credits
BENG7310 - The Secret Life of Biofilms: Engineering Principles and Research - 3 - Credits
BENG7330 - Advanced Transport Phenomena - 3 - Credits
BENG7510 - Graduate Seminar - 1 - Credits
BENG7600 - Advanced Research Topics - 3 - Credits
BENG7860 - Research Orientation and Planning - 2 - Credits
BENG7960 - Supervised Teaching - 1 - 3 Credits
BENG7970 - Dissertation Research - 1 - 10 Credits
BENG7990 - Continuing Graduate Advisement for PhD Students - 1 - 9 Credits

Biology Department

Biology

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Biology; Cellular/Molecular; Ecology and Evolutionary Biology: Isabel Duersch, Biology-Natural Resources 101A, (435) 797-0431, isabel.duersch@usu.edu
Health Professions: Yvonne Kobe, Exploratory Advising Office, Taggart Student Center 302, (435) 797-3373, yvonne.kobe@usu.edu

Advisor for Biological Sciences Composite Teaching Major: Isabel Duersch, Biology-Natural Resources 101A, (435) 797-0431, isabel.duersch@usu.edu

Advisor for Public Health Major: Carl Farley, Biology-Natural Resources 131, (435) 797-2566, carl.farley@usu.edu

Degrees offered: Bachelor of Science (BS), Bachelor of Arts (BA), Master of Science (MS), and Doctor of Philosophy (PhD) in Biology; BS and BA in Composite Teaching—Biological Science; BS in Public Health; MS and PhD in Ecology, PhD in Neuroscience

Undergraduate emphases: *Biology BS, BA*—Biology, Cellular/Molecular, Composite Teaching - Biological Sciences, Ecology and Evolutionary Biology, Human Biology; *Public Health BS*—Industrial Hygiene, Environmental Health, Public Health Education

Full details of the learning objectives, assessment plan, student outcomes, and evidence of continuous improvement for these programs of study can be found at artsci.usu.edu/biology/ by clicking on the assessment tab.

Undergraduate Programs

Objectives

Biology
The Department of Biology offers programs leading to a Bachelor of Science or Bachelor of Arts degree. Majors will complete a core of courses which provide an understanding of biological principles. Upper-division courses provide integration, in-depth study, and an opportunity for specialization within the different degree emphases. Additional coursework in chemistry, physics, statistics, and mathematics provides knowledge and analytical skills in these important related fields. Biology degrees provide a foundation for graduate work or employment in research, industry, or governmental agencies. Biology majors can add a minor area of study, such as business or chemistry, to enhance their employment opportunities.

Composite Teaching - Biological Science
This major combines content training in biology and related fields (including chemistry, physics, geology, mathematics, and statistics) with education courses. Graduates are qualified to apply for a teaching license through the Utah State Office of Education. **Advisor:** Isabel Duersch, Biology-Natural Resources 101A, (435) 797-0431, isabel.duersch@usu.edu

Public Health
The Department of Biology offers preprofessional training in public health. Individuals completing the BS degree have employment opportunities in such areas as environmental health, industrial hygiene, public health education, administration, nursing, nutrition, mental health, and social work. **Advisor:** Carl Farley, Biology-Natural Resources 131.

Academic Advising
The Department Head, the Director of Undergraduate Studies, and advisors in the Department of Biology are available to provide undergraduate majors with additional information regarding specific programs and career opportunities. The Biology Advising Center is located in Biology-Natural Resources 101. Program requirements, advising information, and scheduling information are on the Department of Biology Advising Team web page at www.biology.usu.edu**.**

Students with majors in the Department of Biology should consult with their advisors regularly as they plan their course of study. Students have the responsibility to keep themselves aware of major requirements and course prerequisites. For additional information, obtain an official Major Requirement Sheet from the Biology Advising Center. General requirements, specific course offerings, and the semesters that courses are taught may change.

Mathematics is an important and required skill to enhance one's success in the sciences. Proper course level placement in mathematics at the beginning of the degree program is essential. Students should consult with an advisor and, if necessary, take the ALEKS Math Placement Exam to determine the appropriate level to begin their mathematics studies for meeting requirements and completion of their major. For more information about the ALEKS Math Placement Exam please visit www.usu.edu/mathprep/aleks-ppl.

Assessment

The primary mission of the Department of Biology is to discover and advance knowledge in the biological sciences, and to make that knowledge available to students through a diverse set of educational experiences. To achieve this, three specific areas are being targeted: (1) A core program in the life sciences is aimed at providing the skills and knowledge base needed for a wide variety of employment and educational opportunities in biological and biotechnology fields; (2) a premedical, predental, and pre-

health program has the specific goal of guiding students with respect to opportunities in the health professions; and (3) a public health program provides pre-professional training in such subjects as environmental health, industrial hygiene, and public health education. For full details about Program Learning Objectives, Undergraduate Program Assessment, Data-based Decisions, and more go to www.usu.edu/biology/.

Undergraduate Research in Biology

The Department of Biology offers a broad array of undergraduate research opportunities. Undergraduate research allows students to have a real-life experience in a faculty research lab. Many students publish their research in scientific journals and present their research at national scientific meetings. Students may do undergraduate research work under the supervision of selected faculty members.

To receive academic credit, a student must enroll in BIOL 5800, Undergraduate Research. Students doing Honors in Biology do undergraduate research and write a bachelor's thesis.

For complete information about undergraduate research, contact Isabel Duersch, Biology-Natural Resources 101A, (435) 797-0431, isabel.duersch@usu.edu.

Requirements

University Requirements

Students are responsible for meeting all university requirements for total credits, upper-division credits, credits of *C-* or better, and the University Studies Depth Requirements.

College of Science Requirements

All college requirements are met by completing the departmental degree requirements; no additional coursework is required.

Admission Requirements for the Biology, Biological Science-Composite Teaching, and Public Health Majors

First-year students admitted to USU in good standing qualify for admission to the Biology major. Transfer students from other institutions need a 2.25 transfer GPA, and students transferring from other USU majors need a 2.25 institution GPA for admission to the Biology major in good standing.

First-year students admitted to USU in good standing qualify for admission to the Biological Science-Composite Teaching major. To qualify for admission to the Secondary Teacher Education Program (STEP), students must acquire an institution 3.0 GPA and 30 credits of coursework. Transfer students from other institutions or other USU majors need an overall 3.0 GPA and 30 credits of coursework to be admitted to the major and the STEP. For information on additional admission criteria, students should contact the School of Teacher Education and Leadership (TEAL).

First-year students admitted to USU in good standing qualify for admission to the Public Health major. Transfer students from other institutions need a 2.5 transfer GPA, and students transferring from other USU majors need a 2.5 institution GPA for admission to the Public Health major in good standing.

GPA Requirement

To graduate, a candidate for any bachelor's degree with a Biology or Public Health major offered by the Department of Biology must maintain a grade point average of 2.25 in all Department of Biology (BIOL or PUBH prefix) courses required for the major and a grade of *C-* or better in BIOL 1610, BIOL 1615, BIOL 1620, and BIOL 1625. The *Pass-Fail* option is not acceptable for any course required for the degree, except where a course is only graded pass/fail, but *D* grades are permitted within the restrictions of the 2.25 GPA. The Biological Science-Composite Teaching major requires an overall GPA of 3.0 and a grade of C or better in all BIOL prefix and STEP Program Courses for graduation. The 2.25 GPA requirement and the *C-* or better grade in BIOL 1610, BIOL 1615, BIOL 1620, and BIOL 1625 requirement apply to the Biology, Public Health, and BioMath minors.

Field Trips and Laboratory Fees

Many biology courses require field trips. Those enrolled are expected to dress appropriately for the conditions and observe any safety precautions issued by instructors. Many courses require modest laboratory fees to purchase and maintain equipment and supplies for use in the laboratories and cover salaries for teaching assistants and student laboratory technicians.

Financial Support

Scholarships, assistantships, grants-in-aid, and work-study programs are available from the university. Both the College of Science and the Department of Biology offer scholarships. Applications for departmental and college scholarships should be submitted during early spring semester. Contact the College of Science Office (Eccles Science Learning Center 245) and the Biology Advising Center (Biology-Natural Resources 101) for details. You can also go to usu.scholarshipuniverse.com for more information.

University Honors Program

The University Honors Program offers students in all colleges and majors the unique opportunity to deepen their educational experience with hands-on practical applications of their academic knowledge. The Honors Program admits incoming, transfer, and existing USU students based on application. High achieving students with at least one year remaining are encouraged to apply. See the University Honors Program catalog entry and website (honors.usu.edu) for more information.

Suggested Four-year Plans

Suggested semester-by-semester four-year plans for students working toward a Bachelor of Science or Bachelor of Arts degree are available in the Department of Biology. Students should consult with their advisor to develop a plan of study tailored to their individual needs and interests.

Additional Information

For more information about requirements for the majors and minors within the Biology Department, see the information provided in the general catalog.

Graduate Programs

Admission Requirements

See Graduate Admissions at rgs.usu.edu/graduateschool/apply for general admission requirements. Complete details about graduate programs, admission requirements and application procedures are available online at www.biology.usu.edu/.

To be recommended for matriculated status, an applicant must have earned a bachelor's degree (or equivalent) from an accredited institution, and a Biology faculty member must agree to serve as the major professor for that applicant. The Department of Biology also considers these guidelines for admission: (1) the transcript should show a minimum GPA of 3.0 (*B*); and (2) the GRE (including the Biology Advanced GRE) is not required, but is welcomed as supplementary information. Applicants for whom

English is not the primary language must have scored at least 575 (paper-based exam) or 233 (computer-based exam) on the TOEFL. The applicant's undergraduate program should be similar to that offered by the Department of Biology at Utah State University, which includes the following and their prerequisites: general biology, genetics, ecology, physiology, and evolution; general and organic chemistry; biochemistry; calculus; statistics; and physics. Other preparatory courses may be specified by the student's supervisory committee.

Degree Programs

For those who have demonstrated strong academic capability as well as research interest, the Department of Biology offers the **Master of Science Degree** and the **Doctor of Philosophy Degree** in either Biology or Ecology. An Interdisciplinary Doctor of Philosophy in **Neuroscience** is available through the Interdepartmental Program in Neuroscience and Biology.

Undergraduate majors in Biology at USU with especially strong backgrounds and interest in research may apply for study of the Master of Science degree as **transitional students**. Acceptance as a transitional student allows undergraduates with advanced standing to integrate up to nine credits of graduate work into the final semesters of their Bachelor of Science study. Acceptance into this program, as into all graduate programs in Biology, is closely regulated. Formal application through the School of Graduate Studies is required.

Research

The Department of Biology provides a dynamic and broad base for research and graduate study through a balanced program of basic and applied studies at ecosystem, population, organismal, cellular, and molecular levels. An outstanding variety of field sites; animal, plant, and microbe growth facilities; and modern well-equipped laboratories are available. Also, the Intermountain Herbarium, an excellent Insect Collection, the USDA/ARS U.S. National Pollinating Insects Collection, the Stable Isotope Laboratory, and the Center for Integrated BioSystems exist as research and support facilities.

Faculty members participate in and are supported by several interdepartmental programs, including the Ecology Center and the program in neuroscience. In addition, many less formal contacts and interactions exist with colleagues in the Colleges of Agriculture, Education and Human Services, Natural Resources, and Science.

Students are encouraged to carefully consider how their career goals match the faculty's research interests. Prospective students are strongly encouraged to contact faculty members with whom they are interested in working. Because of the combination of a diverse interdisciplinary base and excellent focused research programs, students have an opportunity to learn the philosophies and methods of many branches of biology. For further details about the faculty's research interests, students are encouraged to visit the Biology website: www.biology.usu.edu/.

Financial Assistance

Research assistantships are available through graduate faculty seeking to recruit students on grant-supported funds. Teaching assistantships are awarded annually through the Biology Graduate Programs Committee. All awards are made on a competitive basis and specific teaching needs are considered in awarding teaching assistantships. Given satisfactory performance, MS students are supported for at least three years and PhD candidates for at least five years on teaching assistantships. The department may also recommend particularly qualified students for College of Science or university fellowships (see rgs.usu.edu/graduateschool/tuition-financial-aid). Departmental research awards and scholarships are available annually (see biology.usu.edu). Admission to the graduate programs of the Department of Biology does not guarantee financial support; however, applicants will not normally be admitted without financial support.

Career Opportunities

Completion of graduate degrees in Biology prepares students for careers in teaching and research in universities and colleges. Many graduates also find employment with private industry and state and national governmental agencies. Specific employment possibilities will depend on the nature of the graduate program pursued. The extensive background provided by a graduate degree also prepares students for eventual administrative responsibilities.

Research Emphases

Research areas of departmental faculty are diverse. See biology.usu.edu/about/faculty/index for current faculty and their research programs.

Research and Teaching Facilities

Herbarium

Graduate study in plant taxonomy offered in the Department of Biology utilizes the extensive facilities of the Intermountain Herbarium. The collection includes over 280,000 research specimens. About 50 percent are from the Intermountain Region, while most of the remainder are from other regions of North America.

Insect Collection

Comprising more than three million specimens, the Insect Collection is available to scientists and graduate students involved in taxonomic research and to those requiring identification of insects in various research projects. The collection primarily covers the Intermountain Region, but it also contains species from nearly all areas of the world. In addition, Biology became home to the American Entomological Institute in 2016. The institute's holdings include one of the world's largest collections of spider wasps and velvet ants, along with specimens of other species from the Intermountain West and Neotropical countries including Brazil, Ecuador, Costa Rica, Argentina, and Chile. The center is also home to an extensive library of historically significant entomological texts and reprints. The Biology-Natural Resources Building also houses the USDA/ARS U.S. National Pollinating Insect Collection.

Biology Research and Teaching Greenhouse Facilities

Built in the mid-1960s, the Biology Greenhouse serves as an important teaching and research resource for the Department of Biology at Utah State University. The plant specimens are used in numerous teaching labs and offer students an opportunity to study a wide array of plant life. The specimens are divided up into four rooms, each of which serves a different purpose.

Miller Science Garden

The Dr. Gene Miller Life Science Garden Laboratory is an experimental garden for students in USU's Department of Biology courses, as well as citizen scientists. Students analyze changes in the garden over time, and citizens discover biodiversity in the garden and beyond.

Laser Scanning Confocal Microscope

The Department of Biology has a BioRad 1024 Laser Scanning Confocal Microscope. This state-of-the-art technology utilizes highly tuned lasers to give detailed sectional views of the interior of intact structures such as cells and tissues and greatly extends the advantages of fluorescence microscopy. This microscope is utilized by researchers campus-wide and is an indispensable tool for molecular and cellular studies.

Microscopy Core Facility
This research service unit is managed by the Office of Research. The facility maintains a scanning electron microscope equipped with EDS/EBSD system, a dualbeam (FIB/SEM) microscope equipped with Omniprobe/EBSD system, a laser dissection microscope, and several microscopy sample preparation tools. The facility provides microscopy service, project consultation, and user training.

Center for Integrated BioSystems (CIB)
The CIB operates three service laboratories and a variety of research projects. The service laboratories provide essential biological resources for biotechnology research and development including DNA sequencing, peptide synthesis, protein sequencing, antibodies, and fermentation.

College of Arts and Sciences Faculty

Programs

Biology - Minor
Biology: Biology - BA, BS
Biology: Cellular/Molecular - BA, BS
Biology: Ecology and Evolutionary Biology - BA, BS
Biology: Human Biology - BA, BS
Biology - MS
Biology - PhD
Biomathematics - Minor (Mathematics and Statistics)
Biological Science: Composite Teaching - BA, BS
Ecology - Biology - MS
Ecology - Biology - PhD
Neuroscience - PhD
Public Health - Minor
Public Health: Environmental Health Emphasis - BS
Public Health: Industrial Hygiene Emphasis - BS
Public Health: Public Health Education Emphasis - BS

Courses

BIOL1010 - Biology and the Citizen (BLS) - 3 - Credits
BIOL1030 - Medical College Admissions Test (MCAT) Preparation - 1 - Credits
BIOL1040 - Dental Admissions Test (DAT) Preparation - 1 - Credits
BIOL1050 - Biology Professions - 1 - Credits
BIOL1060 - Prehealth Professions - 1 - Credits
BIOL1065 - Pre-Health Seminar - 1 - Credits
BIOL1610 - Biology I - 3 - Credits
BIOL1615 - Biology I Laboratory - 1 - Credits
BIOL1620 - Biology II (BLS) - 3 - Credits
BIOL1625 - Biology II Laboratory - 1 - Credits
BIOL1750 - Topics in Biology - 1 - 3 Credits
BIOL2060 - Elementary Microbiology - 4 - Credits
BIOL2220 - General Ecology - 3 - Credits
BIOL2320 - Human Anatomy - 4 - Credits
BIOL2420 - Human Physiology - 4 - Credits
BIOL2520 - Pathophysiology - 3 - Credits
BIOL2988 - Special Problems - 1 - 3 Credits
BIOL3020 - Evolutionary Biology - 3 - Credits
BIOL3030 - Genetics and Society (DSC) - 3 - Credits
BIOL3050 - Organismal Biology with Physiology - 3 - Credits
BIOL3055 - Organismal Biology with Physiology Laboratory (CI) - 2 - Credits
BIOL3060 - Principles of Genetics (QI) - 3 - Credits
BIOL3065 - Genetics Laboratory (CI) - 2 - Credits
BIOL3070 - Computational Approaches to Biology - 3 - Credits
BIOL3085 - Ecology Laboratory (CI) - 2 - Credits
BIOL3090 - Molecular, Cellular, and Developmental Biology - 3 - Credits
BIOL3095 - Molecular, Cellular, and Developmental Biology Laboratory (CI) - 2 - Credits
BIOL3100 - Bioethics (CI) - 3 - Credits
BIOL3150 - Quantitative Modeling of Life - 3 - Credits
BIOL3300 - General Microbiology - 3 - Credits
BIOL3305 - General Microbiology Laboratory - 2 - Credits
BIOL3500 - Plagues, Pests, and People - 3 - Credits
BIOL3760 - Independent Study - 1 - 3 Credits
BIOL4000 - Human Dissection - 1 - Credits
BIOL4030 - Communicable Disease Control - 3 - Credits
BIOL4040 - Fundamentals of Epidemiology - 3 - Credits
BIOL4060 - Exploring Animal Behavior - 3 - Credits
BIOL4230 - Applied Mathematics in Biology (QI) - 3 - Credits
BIOL4250 - Internship/Co-op - 1 - 2 Credits
BIOL4270 - Theoretical Ecology - 3 - Credits
BIOL4320 - Summarizing complex datasets and machine learning for biologists - 1 - Credits
BIOL4400 - Plant Physiology (QI) - 4 - Credits
BIOL4420 - Plant Systematics and Diversity - 3 - Credits
BIOL4430 - Introduction to Plant Pathology - 4 - Credits
BIOL4450 - Neurobiology - 3 - Credits
BIOL4500 - Applied Entomology - 3 - Credits
BIOL4540 - Invertebrate Zoology - 3 - Credits
BIOL4600 - Advanced Human Physiology - 5 - Credits
BIOL4650 - Evolution: History of an Idea (CI/DSC) - 3 - Credits
BIOL4700 - Plant Identification, Documentation, and Herbarium Resources - 2 - Credits
BIOL4710 - Teaching Internship - 1 - Credits
BIOL4770 - Introduction to Dynamic Biological Systems - 3 - Credits
BIOL5010 - Biogeography - 3 - Credits
BIOL5050 - Evolutionary Genomics - 3 - Credits
BIOL5150 - Immunology - 3 - Credits
BIOL5210 - Cell Biology - 3 - Credits
BIOL5230 - Developmental Biology - 3 - Credits
BIOL5240 - Virology - 3 - Credits
BIOL5310 - Soil Microbiology - 3 - Credits
BIOL5390 - Genes and Behavior (CI) - 3 - Credits
BIOL5400 - Environmental Toxicology - 3 - Credits
BIOL5450 - Parasitology - 3 - Credits
BIOL5460 - Molecular Neurophamacology - 3 - Credits
BIOL5530 - Insect Systematics and Evolution - 3 - Credits
BIOL5550 - Freshwater Invertebrates - 3 - Credits
BIOL5560 - Ornithology - 3 - Credits
BIOL5570 - Herpetology - 3 - Credits
BIOL5580 - Mammalogy - 3 - Credits
BIOL5600 - Comparative Animal Physiology - 3 - Credits
BIOL5625 - Neurophysiology Laboratory - 2 - Credits
BIOL5630 - Endocrinology (CI) - 3 - Credits
BIOL5650 - Comparative Anatomy of the Vertebrates - 4 - Credits
BIOL5750 - Topics in Biology - 1 - 3 Credits
BIOL5780 - Neuroendocrinology: Hormones and Behavior - 3 - Credits
BIOL5790 - Protein Structure/Function and Purification - 3 - Credits

BIOL5800 - Undergraduate Research - 1 - 3 Credits
BIOL5810 - Bachelor's Thesis - 3 - Credits
BIOL6000 - Introduction to Graduate Teaching in Biology - 1 - Credits
BIOL6010 - Biogeography - 3 - Credits
BIOL6020 - Cellular and Molecular Neuroscience - 3 - Credits
BIOL6050 - Evolutionary Genomics - 3 - Credits
BIOL6120 - Behavioral Neuroscience - 3 - Credits
BIOL6200 - Biogeochemistry of Terrestrial Ecosystems - 3 - Credits
BIOL6210 - Measuring and Modeling the Terrestrial Carbon Cycle - 3 - Credits
BIOL6250 - Graduate Internship - 1 - 6 Credits
BIOL6270 - Theoretical Ecology - 3 - Credits
BIOL6310 - Linear Regression and Beyond for Life Scientists - 1 - 2 Credits
BIOL6320 - Summarizing complex datasets and machine learning for life scientists - 1 - 2 Credits
BIOL6325 - Bayesian Analysis of Biological Data - 3 - Credits
BIOL6390 - Genes and Behavior - 3 - Credits
BIOL6400 - Environmental Toxicology - 3 - Credits
BIOL6420 - Plant Systematics and Diversity - 3 - Credits
BIOL6460 - Molecular Neurophamacology - 3 - Credits
BIOL6500 - Applied Entomology - 3 - Credits
BIOL6540 - Invertebrate Zoology - 3 - Credits
BIOL6600 - Comparative Animal Physiology - 3 - Credits
BIOL6630 - Endocrinology - 3 - Credits
BIOL6650 - Evolution: History of an Idea - 3 - Credits
BIOL6740 - Cellular Communication by Small Molecules and Proteins - 1 - Credits
BIOL6750 - Topics in Biology - 1 - 3 Credits
BIOL6770 - Introduction to Dynamic Biological Systems - 3 - Credits
BIOL6780 - Community Ecology and Analysis - 3 - Credits
BIOL6790 - Protein Structure/Function and Purification - 3 - Credits
BIOL6800 - Biology Seminar - 1 - Credits
BIOL6870 - Ecology Seminar - 1 - Credits
BIOL6910 - Special Problems - 1 - 3 Credits
BIOL6970 - Thesis Research - 1 - 12 Credits
BIOL6990 - Continuing Graduate Advisement - 1 - 9 Credits
BIOL7110 - Cognitive Neuroscience - 3 - Credits
BIOL7140 - Methods in Neuroscience - 3 - Credits
BIOL7750 - Topics in Biology - 1 - 3 Credits
BIOL7780 - Neuroendocrinology: Hormones and Behavior - 3 - Credits
BIOL7830 - Mechanisms of Neuropsychiatric Disease - 3 - Credits
BIOL7970 - Dissertation Research - 1 - 12 Credits
BIOL7990 - Continuing Graduate Advisement - 1 - 9 Credits
PUBH3120 - Family and Community Health - 3 - Credits
PUBH3310 - Occupational Health and Safety - 3 - Credits
PUBH3510 - Essentials of Environmental Health - 3 - Credits
PUBH3610 - Environmental Management - 3 - Credits
PUBH4000 - Public Health Internship - 3 - 6 Credits
PUBH4030 - Communicable Disease Control - 3 - Credits
PUBH4040 - Fundamentals of Epidemiology - 3 - Credits
PUBH4200 - Public Health Seminar - 1 - Credits
PUBH4300 - Industrial Hygiene Seminar - 1 - Credits
PUBH4310 - Industrial Hygiene Recognition of Hazards - 4 - Credits
PUBH4320 - Industrial Hygiene Chemical Hazard Evaluation - 3 - Credits
PUBH4330 - Industrial Hygiene Physical Hazards - 3 - Credits
PUBH4380 - Industrial Hygiene Internship - 3 - 12 Credits
PUBH4410 - Industrial Safety - 3 - Credits
PUBH4850 - Special Topics in Public Health - 1 - 3 Credits
PUBH5330 - Industrial Hygiene Chemical Hazard Control (QI) - 3 - Credits
PUBH5400 - Environmental Toxicology - 3 - Credits
PUBH5500 - Public Health Management (CI) - 2 - Credits
PUBH5670 - Hazardous Chemicals Handling and Safety - 2 - Credits
PUBH5730 - Environmental Chemistry of Organic Contaminants - 3 - Credits
PUBH5790 - Accident and Emergency Management - 3 - Credits
PUBH6400 - Environmental Toxicology - 3 - Credits
PUBH6730 - Environmental Chemistry of Organic Contaminants - 3 - Credits

Center for Civic Excellence Department

Center for Civic Excellence

Leadership: Matthew Sanders, Interim Associate Vice Provost
Location: Old Main 211
Phone: (435) 797-8409
Website: https://www.usu.edu/provost/about/civic-excellence

Credentials Offered

General Education - Certificate

Program Requirements

All USU students seeking an Associate's or Bachelor's degree must complete all 27 credits in Utah System of Higher Education general education requirements. These include core requirements in communication literacy, quantitative literacy, and American institutions. These also include the courses in the breadth areas: life science, physical science, social science, creative arts, and humanities.

USU Credit and Transfer Credit

Course requirements in the Center for Civic Excellence are fulfilled by any course with the appropriate general education designation, regardless of the institution where it was completed.

Assessment

Full details of the learning objectives, assessment plan, student outcomes, and evidence of continuous improvement for general education will be provided shortly.

Courses

CIVC1000 - Math for Real World Problems (QL) - 3 - Credits
CIVC1010 - Data and the Stories They Tell (QL) - 3 - Credits
CIVC1020 - Financial Foundations for Life and Society (QL) - 3 - Credits
CIVC1100 - Flourishing and the Good Life (CL1) - 3 - Credits
CIVC1110 - Navigating Human Difference (CL1) - 3 - Credits
CIVC1200 - "The Blessings of Liberty": American Government (BAI) - 3 - Credits
CIVC1210 - "A More Perfect Union": American History (BAI) - 3 - Credits
CIVC1220 - "Promote the General Welfare": The American Economy (BAI) - 3 - Credits
CIVC1400 - Planetary Change and Human Futures (BPS) - 3 - Credits
CIVC1410 - Earth's Critical Resources (BPS) - 3 - Credits
CIVC1500 - The Science of You: Health and the Human Body (BLS) - 3 - Credits
CIVC1510 - Our Place in the Natural World (BLS) - 3 - Credits
CIVC1520 - Farm to Future: Sustainable Food Systems (BLS) - 3 - Credits
CIVC1600 - Thinking Through the Arts (BCA) - 3 - Credits
CIVC1610 - Design Thinking (BCA) - 3 - Credits
CIVC1620 - Music and the Creative Life (BCA) - 3 - Credits
CIVC1622 - Visual Arts and the Creative Life (BCA) - 3 - Credits
CIVC1624 - Writing and the Creative Life (BCA) - 3 - Credits
CIVC1800 - Disagree Better (BSS) - 3 - Credits
CIVC1810 - Lead From Where You Are (BSS) - 3 - Credits
CIVC1820 - The Social Science of Happiness (BSS) - 3 - Credits
CIVC1830 - Pathways to Intercultural Understanding (BSS) - 3 - Credits
CIVC2100 - Freedom, Equality, and Justice (CL2) - 3 - Credits

Chemistry & Biochemistry Department

Chemistry and Biochemistry

Department Head: Lance C. Seefeldt
Location: Maeser Laboratory 140
Phone: (435) 797-1619 | **FAX:** (435) 797-3390
E-mail (undergraduate): chem.undergrad@usu.edu
E-mail (graduate): chem.grad@usu.edu
Website: http://www.chem.usu.edu

Undergraduate Advisor: Jordan Truex, Maeser Lab 151, (435) 797-0432, jordan.truex@usu.edu

Graduate Program Coordinator: Cindy Weatbrook, Maeser Lab 140, (435) 797-1618, cindy.weatbrook@usu.edu

Undergraduate Research Coordinator: Joan Hevel, Widtsoe 235, (435) 797-1622, joanie.hevel@usu.edu

Degrees Offered: Bachelor of Science (BS), Bachelor of Arts (BA), Master of Science (MS), Doctor of Philosophy (PhD) in Chemistry; BS, MS, and PhD in Biochemistry; BS in Chemistry Teaching; BS in Physical Science Composite Teaching (Chemistry)

Undergraduate Emphases: *BS in Chemistry*—Professional Chemistry, Biochemistry, Environmental Chemistry, Chemical Education, Life Science

Graduate Specializations: Biochemistry, *Chemistry*—Analytical Chemistry, Inorganic Chemistry, Organic Chemistry, Physical Chemistry

Full details of the learning objectives, assessment plan, student outcomes, and evidence of continuous improvement for these programs of study can be found by clicking on Assessment at www.chem.usu.edu/.

Undergraduate Programs

Objectives

Chemistry is a subject that addresses the properties of materials and the transformations that they undergo. Especially important are aspects of energy and structure related to chemical reactivity. Consequently, students of many disciplines take courses in chemistry to learn about the behavior of the substances they will use or reference. The Department of Chemistry and Biochemistry offers a wide variety of courses for those whose majors and/or anticipated careers require a knowledge of chemistry. These areas of study include nutrition, engineering, biology, agriculture, natural resources, medicine, law, and education, to name a few. Many students also choose chemistry as an elective course to better prepare themselves as citizens in a technological world.

The **Bachelor of Science Degree in Chemistry** entails considerable specialization in chemistry and related areas. The BS emphases require a common core of courses but allow for a different concentration of advanced work according to the interests and career objectives of the student. The **BS with Professional Chemistry Emphasis**, **BS with Environmental Chemistry Emphasis**, and **BS with Biochemistry Emphasis** degrees meet the requirements for certification by the American Chemical Society (ACS). The certified degree emphases provide excellent preparation for immediate entry into the job market or for graduate school in chemistry, biochemistry, chemical engineering, molecular biology, nutrition, food science, materials science, and a wide variety of other fields. The **BS with Life Science Emphasis** degree is popular for students wishing to go on to medical or dental graduate programs. The life science emphasis is particularly appropriate for **premedical** and **predental** students who want a strong base for understanding the nature of chemical reactions in the body and the behavior of the drugs they will prescribe, or who want an attractive alternative should they decide ultimately not to pursue medical or dental school. The **Chemistry Teaching Major** or the **Physical Science Composite Teaching Major** are available to those who want a career in secondary education. The BA degree is an excellent choice for students with an interest in studying **law** or **business** and who have an interest in science.

The core of the program utilizes year-long sequences of classes. The first-year sequence introduces the basic principles of chemistry, as well as most of the major concepts of the science. The second year explores in greater depth the characteristics of carbon-based compounds that serve as the backbone for the chemistry of life; for most drugs and medicines; for petroleum; for most fibers, paints, and plastics; and for many other commercial products. The third year examines in greater depth the models, theories, and mathematical interpretation of the structures, rates of change, energetics, and other properties of chemicals. In addition, one-semester courses examining the chemistry of life processes, the behavior of inorganic substances, and the analysis of the composition of substances are required. Many of the sequences have associated laboratory courses where students get hands-on practice. Here they synthesize compounds, measure physical properties, analyze samples, and determine structural features of compounds, using modern techniques and instrumentation.

The **Bachelor of Science Degree in Biochemistry** encompasses the study of the properties and functions of biological macromolecules, the mechanisms of action of enzymes, gene and protein regulation and expression, bioenergetics, and the metabolic pathways and processes that use and generate chemical and light energy. At its core, biochemistry recognizes and explains the unifying chemical principles that lie at the heart of the diverse expressions of life.

The core courses for the major are built around two-semester course sequences in the areas of general, organic, and biological chemistry; general biology; calculus; and general physics, along with associated laboratory courses. Students may choose from two physics tracks: (1) the life sciences track (typically preferred by students with a more biological inclination) and (2) the science-engineering track (typically preferred by students with a more mathematical/physical inclination). One-semester courses in analytical and biophysical chemistry and statistics round out the core of the program. To complete the additional 18 credits of coursework required for the major, students may choose elective courses from within the disciplines of chemistry, biochemistry, and biology. A wide range of advanced courses are available to meet the advanced electives requirement; students are encouraged to meet with their academic advisor to select courses that provide the best preparation for their intended career path. Representative courses (not all encompassing) include those in biology (e.g., human physiology, genetics, ecology, microbiology, plant physiology, cell biology); biochemistry (e.g., enzymology, structured biology, bioenergetics and metabolism, protein structure/function); and chemistry (e.g., intermediate and advanced inorganic, advanced organic).

The biochemistry major differs from the "chemistry major with biochemistry emphasis," which is an American Chemical Society (ACS) certified degree that emphasizes specialization in biochemistry but has a more chemical and mathematical emphasis than the biochemistry major. The biochemistry major is more biologically inclined (as well as somewhat less physically and mathematically inclined) than the chemistry major and is designed to meet the standards for the curriculum proposed by the American Society for Biochemistry and Molecular Biology (ASBMB). The requirements of the BS and BA degrees in chemistry and the BS degree in biochemistry, along with University and University Studies requirements, are summarized here. The specific requirements for the teaching major and for the composite teaching major in physical science are also included.

Students are urged to study these requirements and to visit with their advisor on a regular basis about progress toward the completion of their degrees or for any questions regarding complementary courses and career goals.

Assessment

The Department of Chemistry and Biochemistry has implemented a multilayered assessment strategy that defines learning objectives at the following levels: individual courses, divisional levels, and at the overall program level for the chemistry major.

General Requirements

Admission Requirements

First-year students admitted to USU in good standing qualify for admission to this major. Transfer students from other institutions need a 2.2 transfer GPA, and students transferring from other USU programs need a 2.0 total GPA for admission to the chemistry or biochemistry major in good standing.

Students interested in studying chemistry or biochemistry should take high school mathematics courses that will enable them to start calculus during their first semester at USU. High school coursework in chemistry, biology, and physics is also desirable. AP credit in chemistry may be counted toward the chemistry or biochemistry degree. For details, contact the departmental advising faculty.

No CHEM prefix course may be applied toward graduation with any major or minor in chemistry or biochemistry with an earned grade of less than *C-*. No CHEM prefix course may be taken on a *Pass/Fail* basis. No CHEM prefix course may be repeated more than one time to improve the grade to a *C-* or better. A student dropped from the chemistry or biochemistry program for failure to meet this standard may appeal to the departmental Curriculum Committee for readmission.

Undergraduate Research Opportunities

The Chemistry and Biochemistry Department encourages students in all departmental majors to engage in undergraduate research. For information about how they can become involved in undergraduate research, students should contact Joan Hevel, the departmental undergraduate research coordinator, (435) 797-1622, joanie.hevel@usu.edu.

Career Opportunities

Chemistry degree holders work in a wide variety of professions, from physicians, lawyers, and professors to research/development, sales, or production in the chemical, oil, pharmaceutical, metals, electronic, and biochemical industries. Government at all levels employs chemists, including the federal Departments of Defense, Health and Human Services, Agriculture, and Interior. A graduate with a bachelor's degree often begins work in chemical analysis or sales or may assist senior chemists in research and development. A graduate with a teaching major or chemistry education emphasis may teach in public schools. A graduate degree is usually needed to direct research or teach at the university level. Degree holders from the Department of Chemistry and Biochemistry have had excellent success in obtaining support for graduate studies, often at very prestigious institutions, and in obtaining employment directly following graduation.

The major in Biochemistry is appropriate both for students who wish to terminate their studies at the bachelor's degree and for those planning to continue their education at the graduate or professional level. For those who terminate at the bachelor's degree, career opportunities are available in research and development, sales, quality control, and analysis within a range of biochemical, pharmaceutical, and biotechnological industries. For those planning to pursue a career in the health professions, the biochemistry major provides an excellent and well-rounded background for medical, dental, and veterinary school admission. The biochemistry major also provides excellent preparation for students planning to pursue graduate work in a range of biological, environmental, and chemical sciences, including biochemistry, molecular biology, genetics, genomics, oncology, and bioinformatics. For those students interested in pursuing a legal career in areas such as patent law, bioethics, and environmental protection and regulation, the major is also excellent preparation for law school.

For further information about career opportunities for chemistry majors and biochemistry majors, students should contact their faculty mentor.

Biochemistry:
Doug Harris, Widtsoe 335, (435) 797-1609, doug.harris@usu.edu
Joan M. Hevel, Widtsoe 235, (435) 797-1622, joanie.hevel@usu.edu

Chemistry:
Robert S. Brown, Widtsoe 026, (435) 797-0545, bob.brown@usu.edu
Steve Scheiner, Maeser Lab 273, (435) 797-7419, steve.scheiner@usu.edu

University Honors Program

The University Honors Program offers students in all colleges and majors the unique opportunity to deepen their educational experience with hands-on practical applications of their academic knowledge. The Honors Program admits incoming, transfer, and existing USU students based on application. High achieving students with at least one year remaining are encouraged to apply. See the University Honors Program catalog entry and website (honors.usu.edu) for more information.

Additional Information

For more information about requirements for the majors and minors within the Chemistry and Biochemistry Department, see the major requirement sheets, available from the department.

Graduate Programs
Admissions Requirements

All applicants should have a bachelor's degree or master's degree in chemistry or biochemistry from an accredited institution. Appropriate undergraduate preparation is expected; applicants not fully prepared may be admitted with the condition that appropriate undergraduate courses are taken as necessary. Detailed information about the graduate programs and faculty research activities can be found at: http://www.chem.usu.edu.

Financial Assistance

The department offers financial support to students in the form of teaching assistantships, research assistantships, and fellowships. All applications for admission to the School of Graduate Studies constitute an application for financial assistance; it is not necessary to file a separate request. Teaching assistantships are the principal means of support for first-year students. Research assistantships, funded from individual faculty research grants, support students conducting research related to the grant projects. Although first-year students are not normally supported as research assistants, well-prepared students may be eligible for research support at the discretion of their major professor.

Fellowships are awarded by the university to outstanding students solely on the basis of merit. The department encourages students with strong academic records to apply for the university fellowships and national awards, and will provide assistance in obtaining and submitting the appropriate forms. Additionally, several graduate awards are given each year to honor exemplary performance in research and teaching.

College of Arts and Sciences Faculty

Programs

Biochemistry - BS
Biochemistry - MS
Biochemistry - PhD
Chemistry - Minor
Chemistry - BA
Chemistry: Biochemistry Emphasis - BS
Chemistry - BS
Chemistry: Environmental Chemistry Emphasis - BS
Chemistry: Life Science Emphasis - BS
Chemistry - MS
Chemistry - PhD
Chemistry: Professional Chemistry Emphasis - BS
Chemistry Teaching - Minor
Chemistry Teaching - BS
Physical Science - Composite Teaching (Chemistry) - BS

Courses

CHEM1010 - Introduction to Chemistry (BPS) - 3 - Credits
CHEM1110 - General Chemistry I (BPS) - 4 - Credits
CHEM1115 - General Chemistry I Laboratory - 1 - Credits
CHEM1120 - General Chemistry II (BPS) - 4 - Credits
CHEM1125 - General Chemistry II Laboratory - 1 - Credits
CHEM1130 - General, Organic, & Biological Chemistry - 4 - Credits
CHEM1135 - General, Organic, and Biological Chemistry Lab - 1 - Credits
CHEM1210 - Principles of Chemistry I - 4 - Credits
CHEM1215 - Chemical Principles Laboratory I - 1 - Credits
CHEM1220 - Principles of Chemistry II (BPS) - 4 - Credits
CHEM1225 - Chemical Principles Laboratory II - 1 - Credits
CHEM1990 - Introduction to the Chemistry and Biochemistry Professions - 1 - Credits
CHEM2300 - Principles of Organic Chemistry - 3 - Credits
CHEM2310 - Organic Chemistry I - 4 - Credits
CHEM2315 - Organic Chemistry Laboratory I - 1 - Credits
CHEM2320 - Organic Chemistry II - 4 - Credits
CHEM2325 - Organic Chemistry Laboratory II - 1 - Credits
CHEM2977 - Cooperative Education - 1 - 3 Credits
CHEM2988 - Special Problems - 1 - 3 Credits
CHEM3000 - Quantitative Analysis (QI) - 3 - Credits
CHEM3005 - Quantitative Analysis Laboratory - 1 - Credits
CHEM3060 - Physical Chemistry I (QI) - 3 - Credits
CHEM3070 - Physical Chemistry II (QI) - 3 - Credits
CHEM3090 - Physical Chemistry Laboratory (CI) - 2 - Credits
CHEM3510 - Intermediate Inorganic Chemistry - 2 - Credits
CHEM3520 - Inorganic Chemistry Laboratory - 1 - Credits
CHEM3650 - Environmental Chemistry (DSC) - 3 - Credits
CHEM3700 - Introductory Biochemistry - 3 - Credits
CHEM3710 - Introductory Biochemistry Laboratory - 1 - Credits
CHEM3750 - Chemistry Special Topics - 1 - 3 Credits
CHEM4250 - Cooperative Experience - 1 - 2 Credits
CHEM4800 - Research Problems (CI) - 1 - 3 Credits
CHEM4890 - Undergraduate Biochemistry Seminar (CI) - 2 - Credits
CHEM4990 - Undergraduate Seminar (CI) - 2 - Credits
CHEM5070 - Biophysical Chemistry - 3 - Credits
CHEM5100 - Computational Chemistry - 3 - Credits
CHEM5520 - Advanced Inorganic Chemistry - 2 - Credits
CHEM5530 - Advanced Synthesis Laboratory - 2 - Credits
CHEM5640 - Instrumental Analysis - 3 - Credits
CHEM5650 - Instrumental Analysis Laboratory - 2 - Credits
CHEM5670 - Intermediate Environmental Chemistry - 3 - Credits
CHEM5680 - Environmental Chemistry Laboratory - 2 - Credits
CHEM5700 - General Biochemistry I - 3 - Credits
CHEM5710 - General Biochemistry II - 3 - Credits
CHEM5715 - General Biochemistry Laboratory I - 1 - Credits
CHEM5720 - General Biochemistry Laboratory II (CI) - 2 - Credits
CHEM5790 - Protein Structure/Function and Purification - 3 - Credits
CHEM6010 - Quantum Chemistry - 3 - Credits
CHEM6020 - Molecular Spectroscopy - 3 - Credits
CHEM6250 - Curricular Practical Training - 1 - 6 Credits
CHEM6300 - Advanced Modern Organic Chemistry - 3 - Credits
CHEM6500 - Reactivity and Mechanisms in Inorganic Chemistry - 3 - Credits
CHEM6510 - Chemical Applications of Group Theory - 1 - Credits
CHEM6600 - Modern Chemical Analysis - 3 - Credits
CHEM6670 - Intermediate Environmental Chemistry - 3 - Credits
CHEM6700 - Advanced Biochemistry I - 1 - 3 Credits
CHEM6710 - Advanced Biochemistry II - 3 - Credits
CHEM6720 - Principles of Enzymology I - 1 - Credits
CHEM6730 - Principles of Enzymology II - 2 - Credits
CHEM6740 - Cellular Communication by Small Molecules and Proteins - 1 - Credits
CHEM6750 - Principles of Structural Biology - 1 - Credits
CHEM6760 - Principles of Bioenergetics - 1 - 3 Credits
CHEM6770 - Biochemical Methods - 1 - Credits
CHEM6780 - Biochemical Basis of Gene Expression: Nucleic Acid Protein Interactions - 1 - Credits
CHEM6790 - Protein Structure/Function and Purification - 3 - Credits
CHEM6910 - Special Problems in Chemistry and Biochemistry - 1 - 4 Credits
CHEM6970 - Thesis Research - 1 - 10 Credits
CHEM6990 - Continuing Graduate Advisement - 1 - 9 Credits
CHEM7020 - Statistical Mechanics - 3 - Credits
CHEM7030 - Special Topics in Physical Chemistry (Topic) - 1 - 3 Credits
CHEM7300 - Reactions and Synthesis in Modern Organic Chemistry - 3 - Credits
CHEM7310 - Molecular Structure/Spectroscopy of Organic Compounds - 3 - Credits
CHEM7330 - Special Topics in Organic Chemistry (Topic) - 1 - 3 Credits
CHEM7500 - Coordination Chemistry - 3 - Credits
CHEM7510 - Bioinorganic Chemistry - 1 - 3 Credits
CHEM7530 - Special Topics in Inorganic Chemistry (Topic) - 1 - 3 Credits
CHEM7600 - Analytical Spectroscopy - 3 - Credits
CHEM7610 - Chemical Separations - 3 - Credits
CHEM7620 - Electrochemistry - 3 - Credits
CHEM7640 - Special Topics in Analytical Chemistry (Topic) - 1 - 3 Credits
CHEM7770 - Special Topics in Biochemistry (Topic) - 1 - 3 Credits
CHEM7800 - Seminar - 1 - Credits
CHEM7970 - PhD Dissertation Research - 1 - 12 Credits
CHEM7990 - Continuing Graduate Advisement - 1 - 9 Credits

Civil & Environmental Engineering Department

Civil and Environmental Engineering

Department Head: Marvin W. Halling
Location: Engineering Laboratory 262
Phone: (435) 797-3179 | **FAX:** (435) 797-1185
E-mail: marv.halling@usu.edu
Website: cee.usu.edu/

Undergraduate Advisor:
Civil Engineering: Engineering Advising Center, Engineering 314A, (435) 797-2705, amber.crook@usu.edu

***Graduate Advisor*:** Marlo A. Bailey, Engineering Laboratory 211F, (435) 797-2783, marlo.bailey@usu.edu

***Undergraduate Program Heads*:**
Civil Engineering: Marvin Halling, Engineering Laboratory 262, (435) 797-3179, marv.halling@usu.edu

Graduate Program Heads:
Environmental Engineering: Randy Martin, Engineering 216, (435) 797-1585, randy.martin@usu.edu

Geotechnical Engineering: James A. Bay, Engineering Laboratory 266, (435) 797-2947, jim.bay@usu.edu

Structural Engineering: Mohsen Zaker Esteghamati, Engineering Laboratory 264, (435) 797-1522, mohsen.zaker@usu.edu

Transportation Systems Engineering: Patrick Singleton, Engineering 231, (435) 797-7109, patrick.singleton@usu.edu

Water Engineering: Brian Crookston, Engineering 222, (435) 797-0247, brian.crookston@usu.edu and Belize Lane, UWRL207, (435)797-4145, belize.lane@usu.edu

Degrees offered: Bachelor of Science (BS) in Civil Engineering; Master of Engineering (ME), Master of Science (MS), and Doctor of Philosophy (PhD) in Civil and Environmental Engineering.

Graduate Emphases: Dams and Levees, Earthquake Engineering, Environmental Management, Geotechnical, Hydraulics, Hydrology and Water Resources, Intelligent Water Systems, Irrigation, River Mechanics and Modeling, Structural, and Transportation.

Full details of the learning objectives, assessment plan, student outcomes, and evidence of continuous improvement for these programs of study can be found at https://engineering.usu.edu/cee/assessment/undergraduate/abet-civil for undergraduate civil programs, https://engineering.usu.edu/cee/assessment/undergraduate/abet-environmental for undergraduate environmental programs, and https://engineering.usu.edu/cee/assessment/graduate/index for graduate programs.

Undergraduate Programs

Admission Requirements
Admission requirements for the Department of Civil and Environmental Engineering are the same as those described for the university and the College of Engineering in this catalog. Students in good standing may apply for admission to the department. In addition, students must maintain the academic requirements outlined for the College of Engineering.

Civil Engineering
Civil Engineering is the oldest branch of the engineering field, offering graduates numerous opportunities to attain important positions which have great influence on many of humankind's endeavors. Civil and Environmental Engineering is concerned with planning, designing, constructing, and operating various physical works; developing and utilizing natural resources in an environmentally sound manner; providing the infrastructure which supports the highest quality of life in the history of the world; and protecting public health and renovating impacted terrestrial and aquatic systems from the mismanagement of toxic and hazardous wastes. This includes designing and supervising the construction of bridges, buildings, dams, aqueducts, sport complexes, energy complexes, and other structures; irrigation and transportation systems (highways, canals, rapid transit lines, etc.); developing water resources for municipal, industrial, and recreational use; land reclamation, soil mechanics, and urban planning; and the control of water quality through water purification and proper waste treatment, as well as solving problems of air pollution and solid and hazardous waste management. Projects of this magnitude require engineers who can understand the relationships of environment, resources, and production, and who are able to design and implement programs and procedures which bring these projects into being.

The Civil Engineering BS Program is accredited by the Engineering Accreditation Commission of ABET, abet.org, under the commission's General Criteria and the Program Criteria for Civil Engineering and Similarly Named Programs.

Students in this program take such courses as engineering drafting, surveying, mechanics, dynamics, mechanics of fluids and solids, hydraulics, hydrology, soils, structural design, technical communication and professional aspects of engineering. Students entering the professional program are required to have a basic knowledge of computer skills in the areas of operating systems, spreadsheets, word processing, and a programming language. Course requirements also include basic understanding of engineering principles, analytical geometry and calculus, linear algebra, principles of chemistry and physics, and physical geology. Students are also provided with a variety of technical electives which can develop areas of specialty and competence. **Passing the Fundamentals of Engineering (FE) examination**, the first step in becoming a licensed professional engineer, is required for graduation. Students should plan to take the exam after their junior year. **Students in this program are recommended to purchase and use a graphing scientific calculator (must be able to do integration, vector mathematics, and have a numerical solver).**

The Civil Engineering Program uses 7 student outcomes to support the program educational objectives (PEOs) and prepare graduates to enter the professional practice of engineering. By the time of graduation, students will have:

1. An ability to identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics.
2. An ability to apply engineering design to produce solutions that meet specified needs with consideration of public health, safety, and welfare, as well as global, cultural, social, environmental, and economic factors.
3. An ability to communicate effectively with a range of audiences.
4. An ability to recognize ethical and professional responsibilities in engineering situations and make informed judgments, which must consider the impact of engineering solutions in global, economic, environmental, and societal contexts.
5. An ability to function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives.
6. An ability to develop and conduct appropriate experimentation, analyze and interpret data, and use engineering judgment to draw conclusions.

7. An ability to acquire and apply new knowledge as needed, using appropriate learning strategies.

The Program Educational Objectives for the Bachelor of Science degree in Civil Engineering are that within five years:

1. Graduates will be successfully employed in civil engineering or related careers and will become independent thinkers and effective communicators, team members, and decision makers.
2. Graduates will incorporate economic, environmental, social, ethical, and sustainability considerations into the practice of civil engineering and will promote public health and safety.
3. Graduates will engage in life-long learning by pursuing advanced degrees or additional educational opportunities through coursework, professional conferences and training, or participation in professional societies.
4. Graduates will pursue professional licensure or other appropriate certifications.

Annual student enrollment and graduation data for the program are available from the USU Office of Analysis, Assessment, and Accreditation: usu.edu/aaa/

Additional Information

For more information about Bachelor of Science requirements and the sequence in which courses should be taken, see Civil Engineering - BS in the online catalog.

University Honors Program

The University Honors Program offers students in all colleges and majors the unique opportunity to deepen their educational experience with hands-on practical applications of their academic knowledge. The Honors Program admits incoming, transfer, and existing USU students based on application. High achieving students with at least one year remaining are encouraged to apply. See the University Honors Program catalog website at honors.usu.edu for more information.

Concurrent BS/Master's Program

The concurrent BS/Master's program allows engineering students to begin taking graduate-level classes during their senior year. This permits them to complete requirements for *both* the BS degree *and* the master's degree concurrently during two years. Students in this program have a greater selection of graduate courses, since many graduate courses are taught during alternate years. In addition, the student's senior design project could be a start for a graduate design project or thesis. After completing their BS degree, students in the program can earn a master's degree in only one additional year. Both the BS and the master's degree can generally be earned with 155-159 total credits, although students should note that a Plan C MS requires 6 extra credits. Finally, students with a master's degree can expect a much higher starting salary following graduation. (For more information, see College of Engineering.)

Graduate Programs

The graduate studies in the Department of Civil and Environmental Engineering are administered through five graduate programs, as described below.

Admission Requirements

See general admission requirements. Admission committees consider GRE scores and experience, undergraduate record and curriculum, and formal recommendations. A student without an undergraduate civil or environmental engineering degree may be required to complete selected undergraduate courses prior to admission as a fully matriculated graduate student.

Environmental Engineering

The Environmental Engineering (EnvE) Program is a multidisciplinary graduate program in the College of Engineering that provides coursework and research experience for engineers and scientists interested in environmental management, one water engineering, and environmental engineering science. The EnvE Program provides an interdisciplinary educational approach to fundamental principles that can be applied to environmental phenomena. Research projects are an integral part of the program and provide the student with appropriate research experiences leading to a thesis or dissertation.

The faculty in the EnvE Program are involved in leading-edge research which reflect the program's broad areas of emphases of:

- Pollution prevention and waste minimization, hazardous material management, natural resources stewardship, environmental quality monitoring and modeling.
- Potable water and wastewater treatment, storm water treatment and management.
- Fate, control and management of organic and inorganic pollutants across all media (air/water/soil/biota).

Geotechnical Engineering

Geotechnical engineers use engineering principles to analyze and design systems that incorporate soil or rock. Such systems include: building and bridge foundations, earth embankments, dams and levees, retaining walls, drainage systems, earthquake motion, and buried structures and pipelines. An important part of all geotechnical engineering projects is characterizing the geology and subsurface conditions in order to define the engineering properties used in analysis and design. Site investigation often consist of exploratory borings and probes, geophysical measurements, and laboratory testing.

Undergraduate and graduate courses offered by the department provide students with a solid background in soil mechanics which is the basis of geotechnical analysis and design. The geotechnical curriculum provides a solid theoretical background balanced with practical applications for analysis and design. This balance prepares students completing a master's degree in geotechnical engineering for entry-level jobs, as well as preparing them to understand future developments in Geotechnical practice.

The geotechnical division has a strong research program. Research areas in the division include: internal erosion in dams and levees, risk assessment of dams and levees, stability of embankments and natural slopes, mechanically stabilized earth embankment reinforcement systems, engineering geophysics for predicting earthquake site response, and laboratory evaluation of dynamic soil properties.

Structural Engineering

The structural engineer is involved in the design, analysis, construction, repair, and retrofit of all types of structures. The two most common structural types are buildings and bridges. Other structural types include towers, dams, tanks, tunnels, industrial facilities, and retaining structures. Because each of the millions of structures in the world is unique, structural engineers face demanding challenges throughout their careers. The safety of the structures we occupy and utilize every day is the responsibility of structural engineers. Structural engineers evaluate the loads placed on a structure, determine their effects, and select the appropriate materials and structural elements, or repair strategy, to withstand these loads. Today's structural engineer is using new materials in the design of new structures or the retrofit of older structures.

Mathematics, physics, and material science constitute a foundation for structural engineering. Structural analysis and design add to this foundation and become the focus of the structural engineering program. Graduate students in the structures program engage in structural mechanics, numerical methods, structural dynamics, geotechnical engineering, and the study of structural materials. Examples of current research in the structures area focus on the dynamic characteristics of structures, their potential

response to earthquakes, new seismic retrofit measures, the use of advanced composite materials for older structures, durability aspects of structural types and materials, and other areas. Materials research focuses on cementitious materials and constitutive modeling. Current structural research also looks at sustainability issues regarding construction and materials in order to lead growth into the future.

Transportation Engineering

The graduate program in Transportation Engineering offers education and research opportunities in transportation systems planning, design, and management. It is designed to enable aspiring planners, engineers, and managers to obtain advanced degrees while specializing in infrastructure management, traffic network analysis, facility design, traffic operations, transportation economics and finance, planning and forecasting, and project appraisal. Up-to-date computer and laboratory facilities, as well as the Transportation Division's close links with local and state transportation agencies, enable students to gain hands-on experience and practical perspectives.

Past and present research undertaken by the Transportation Division faculty and researchers ranges from transportation network modeling, emerging mobility services, microscopic traffic flow simulation, and network reliability to traffic safety modeling, video image processing, and intelligent transportation systems. The focus remains on efficient, effective, and sustainable solutions to transportation problems.

Transportation Division course offerings expose students to the theoretical and practical aspects of goods and passenger transportation. State-of-the-art analytical tools and new research findings are introduced into the courses through periodic revision of notes, examples, problem sets, and computer software. Students are encouraged to design their own programs of study according to their personal and professional goals. Due to the multi-disciplinary nature of transportation, students are encouraged to include in their program of study course offerings from other programs in CEE, as well as from Mathematics and Statistics, Environment and Society, Landscape Architecture and Environmental Planning, Applied Economics, Economics and Finance, Management, Marketing and Strategy, Psychology, and Sociology.

Water Engineering

The Water Engineering Program is a multidisciplinary graduate program in the College of Engineering and is intended to enable engineers and scientists interested in water to obtain graduate degrees in the areas of hydraulics, hydrology and water resources, intelligent water systems, irrigation, river mechanics, modeling, and dams and levees.

Hydrology is a branch of geoscience concerned with the origin, distribution, movement, and properties of waters of the earth. This includes fluid flow and transport of contaminants in the subsurface environment. The Water Engineering Program at USU has strengths in field based, theoretical, and applied aspects of hydrology. Past and present research focuses on a broad spectrum of hydrologic problems. These range from quantifying snow distribution and melt, rainfall and infiltration processes, floods, droughts, terminal lake responses, soil erosion, and groundwater/surface water exchanges. Additionally, modeling tools have been developed and/or applied to investigate stream water quality, groundwater contamination characterization and remediation, and complete watershed responses.

Irrigation has included specific research projects in the irrigation and drainage engineering option such as hydraulics of surface irrigation, consumptive use, return flow quantity and quality of irrigation waters, transient flow in tile drainage systems, drain envelopes, sprinkler irrigation, trickle irrigation, crop production and water requirements, salt movement, regional groundwater modeling for optimizing sustainable yield, conveyance system modeling and control, agriculture water optimization, and remote sensing.

Water Resources Engineering draw principles from hydrology, fluid mechanics, hydraulics, environmental engineering, economics, ecology, political science, and other disciplines in the design and operation of projects and nonstructural methods for water resources planning and management. They need a sound understanding of how water storage, delivery, and other management systems function; of criteria used in evaluating and selecting among alternatives; of the techniques of operations research that can be used in systems design; and of the institutional aspects of decision-making in the public sector. Research in this area focuses on simulation and optimization modeling and hydroinformatics to improve the planning, design, and operation of water systems over different spatial scales (e.g., individual users or transboundary river basins).

Fluid Mechanics and Hydraulic Engineering covers both fundamental principles and theory and their applications in a variety of engineering fields to solve societies' water challenges. This can include theoretical fluid mechanics, hydraulic design, open channel hydraulics, fluvial hydraulics, sedimentation, transients, municipal water systems, numerical methods, and various numerical and physical modeling techniques. Current research in this area includes fundamental and applied research in hydraulic structures including flooding, sedimentation and scour, two-phase flows, failure modes, incidents, public safety, and hydraulic design; advanced instrumentation and experimental techniques; flow meters; gates and valves; energy dissipators; and hydromachinery including pumps and turbines.

Hydroinformatics is the study, design, development, and deployment of hardware and software systems for hydrologic data collection, distribution, interpretation, and analysis to aid in the understanding and management of water in the natural and built environment. Fundamental and advanced hydroinformatics concepts and procedures and current research in this area include automated data collection networks; relational databases, data models, and data management software; data storage formats, metadata, and standards; data transformations and automation of data manipulation tasks to support modeling and analysis; web based data distribution and access using web services; integrated networks of hydro-climate data; and data science techniques for hydrology and water resources engineering.

Interdisciplinary Water Programs - The water engineering and science field encompasses a broad range of interdisciplinary topics related to:

- Fluvial systems, including ecohydraulics, river mechanics, river engineering, surface water quality, physical hydrology, and restoration of aquatic ecosystems (see River Mechanics and Modeling).
- Dams and Levees, including fundamental and applied research topics involving hydrology, hydraulic, structural, and geotechnical engineering and risk assessments to support the planning, assessment, design, removal, and construction services of these structures (see Dams and Levees).

Financial Assistance

Several forms of financial assistance are available to graduate students and are awarded on a competitive basis. Students requesting financial support should apply to the department by January 15 for the coming academic year. Teaching assistantships are available through the department and research assistantships are available through the Utah Water Research Laboratory and departmental faculty members who have ongoing projects or who hold special research grants from the university, private companies, or state and federal agencies.

Acceptance to pursue graduate studies in the Civil and Environmental Engineering Department does not guarantee the student financial assistance. Inasmuch as funds are limited, the assistantships are awarded by the department to cover specific teaching assignments and by the faculty members to provide for research.

FACULTY - College of Engineering

Programs

Civil and Environmental Engineering - ME
Civil and Environmental Engineering - MS
Civil and Environmental Engineering - PhD
Civil Engineering - BS
Irrigation Engineering - MS
Irrigation Engineering - PhD
Precision Agriculture Technology - Post-Bachelor's Certificate

Courses

CEE1400 - Introduction to Computer Programming for Civil and Environmental Engineers - 2 - Credits
CEE1880 - Civil and Environmental Engineering Orientation and Computer Applications - 1 - Credits
CEE2240 - Engineering Surveying - 3 - Credits
CEE2270 - Computer Engineering Drafting - 2 - Credits
CEE2450 - Computer Programming and Numerical Methods for Civil and Environmental Engineers - 3 - Credits
CEE2620 - Environmental Engineering Microbiology - 3 - Credits
CEE2890 - Environmental Engineering Sophomore Seminar - 1 - Credits
CEE3020 - Structural Analysis - 3 - Credits
CEE3080 - Design of Reinforced Concrete Structures - 3 - Credits
CEE3160 - Civil Engineering Materials - 2 - Credits
CEE3165 - Civil Engineering Materials Laboratory - 1 - Credits
CEE3210 - Introduction to Transportation Engineering - 3 - Credits
CEE3300 - Engineering Soil Mechanics - - 3 Credits
CEE3330 - Ancient and Modern Civil Engineering in Italy and France - 3 - Credits
CEE3430 - Engineering Hydrology - 3 - Credits
CEE3500 - Civil and Environmental Engineering Fluid Mechanics - 3 - Credits
CEE3510 - Civil and Environmental Engineering Hydraulics - 3 - Credits
CEE3610 - Environmental Management - 3 - Credits
CEE3640 - Drinking Water Engineering - 3 - Credits
CEE3650 - Wastewater Engineering - 3 - Credits
CEE3670 - Transport Phenomena in Bio-Environmental Systems - 3 - Credits
CEE3780 - Solid and Hazardous Waste Management - 3 - Credits
CEE3880 - Civil and Environmental Design I - 2 - Credits
CEE3890 - Environmental Engineering Design I - 1 - Credits
CEE4000 - Municipal Engineering - 3 - Credits
CEE4200 - Engineering Economics - 3 - Credits
CEE4870 - Civil and Environmental Design II (CI) - 2 - Credits
CEE4880 - Civil and Environmental Design III (CI) - 2 - Credits
CEE5000 - Irrigation and Drainage of Agricultural Lands - 3 - Credits
CEE5001 - Design and Evaluation of Pressurized Irrigation Systems - 3 - Credits
CEE5003 - Remote Sensing of Land Surfaces - 3 - Credits
CEE5005 - Design and Evaluation of Gravity Irrigation Systems - 3 - Credits
CEE5006 - Agricultural Water Management - 3 - Credits
CEE5007 - Field Evaluation of Agricultural Irrigation Systems - 2 - Credits
CEE5008 - Management of Irrigation Systems - 3 - Credits
CEE5009 - Groundwater Systems Engineering I - 3 - Credits
CEE5010 - Matrix Analysis/Finite Element - 3 - Credits
CEE5015 - Structural Design Loads - 3 - Credits
CEE5020 - Finite Element Methods in Solid Mechanics I - 3 - Credits
CEE5050 - Design of Wood and Masonry Structures - 3 - Credits
CEE5060 - Mechanics of Composite Materials - 3 - Credits
CEE5070 - Structural Steel Design - 3 - Credits
CEE5080 - Numerical Methods in Elasticity - 3 - Credits
CEE5100 - Infrastructure Evaluation and Renewal - 3 - Credits
CEE5190 - Geographic Information Systems for Civil Engineers - 3 - Credits
CEE5205 - Transportation Data Analysis and Research Methods - 3 - Credits
CEE5220 - Traffic Operations and Management - 3 - Credits
CEE5230 - Geometric Design of Highways - 3 - Credits
CEE5240 - Transportation Planning - 3 - Credits
CEE5255 - Transportation Safety - 3 - Credits
CEE5260 - Public Transportation - 3 - Credits
CEE5265 - Active Transportation - 3 - Credits
CEE5290 - Transportation Network Analysis - 3 - Credits
CEE5350 - Foundation Analysis and Design - 3 - Credits
CEE5375 - Geotechnical Earthquake Engineering - 3 - Credits
CEE5385 - Introduction to Earthquake Engineering - 3 - Credits
CEE5395 - Numerical Modeling in Geomechanics - 3 - Credits
CEE5410 - Engineering Systems Analysis - 3 - Credits
CEE5430 - Groundwater Engineering - 3 - Credits
CEE5450 - Hydrologic Modeling - 3 - Credits
CEE5470 - Sedimentation Engineering - 3 - Credits
CEE5490 - Integrated River Basin/Watershed Planning and Management - 3 - Credits
CEE5500 - Open Channel Hydraulics - 3 - Credits
CEE5530 - Hydraulic Modeling - 3 - Credits
CEE5540 - Hydraulic Structures Design - 3 - Credits
CEE5550 - Hydraulics of Closed Conduits - 3 - Credits
CEE5600 - Environmental Chemistry of Inorganic Contaminants - 2 - Credits
CEE5610 - Environmental Quality Analysis - 3 - Credits
CEE5620 - Aquatic Chemistry - 3 - Credits
CEE5635 - Environmental Engineering in Developing Nations - 3 - Credits
CEE5655 - Green Stormwater Infrastructure - 3 - Credits
CEE5670 - Hazardous Chemicals Handling and Safety - 2 - Credits
CEE5680 - Soil-Based Waste Management - 2 - Credits
CEE5690 - Natural Systems Engineering - 3 - Credits
CEE5710 - Pollution Prevention and Industrial Ecology - 2 - Credits
CEE5720 - Natural Systems Modeling - 3 - Credits
CEE5730 - Environmental Chemistry of Organic Contaminants - 3 - Credits
CEE5750 - Air Quality Measurements - 2 - Credits
CEE5790 - Accident and Emergency Management - 3 - Credits
CEE5810 - Biochemical Engineering - 3 - Credits
CEE5830 - Management and Utilization of Biological Solids and Wastewater - 3 - Credits
CEE5860 - Air Quality Management - 3 - Credits
CEE5870 - Hazardous Waste Incineration - 2 - Credits
CEE5880 - Remediation Engineering - 3 - Credits
CEE5885 - Precast/Prestressed Concrete - 3 - Credits
CEE5900 - Cooperative Practice - 3 - Credits
CEE5930 - Independent Study - 1 - 3 Credits
CEE5999 - Precision Agriculture Practicum - 3 - Credits
CEE6000 - Irrigation and Drainage of Agricultural Lands - 3 - Credits
CEE6001 - Design and Evaluation of Pressurized Irrigation Systems - 3 - Credits
CEE6003 - Remote Sensing of Land Surfaces - 3 - Credits
CEE6005 - Design and Evaluation of Gravity Irrigation Systems - 3 - Credits
CEE6006 - Agricultural Water Management - 3 - Credits
CEE6007 - Field Evaluation of Agricultural Irrigation Systems - 2 - Credits
CEE6008 - Management of Irrigation Systems - 3 - Credits
CEE6009 - Groundwater Systems Engineering I - 3 - Credits
CEE6010 - Finite Element Methods in Solid Mechanics II - 3 - Credits
CEE6015 - Structural Design Loads - 3 - Credits
CEE6020 - Structural Stability - 3 - Credits
CEE6030 - Structural Optimization - 3 - Credits
CEE6040 - Structural Reliability - 3 - Credits
CEE6050 - Experimental Methods in Structural Engineering - 3 - Credits
CEE6070 - Mechanics of Composite Materials II - 3 - Credits
CEE6080 - Numerical Methods in Elasticity - 3 - Credits
CEE6090 - Theory of Plates and Shells - 3 - Credits
CEE6110 - Hydroinformatics - 3 - Credits
CEE6120 - Bridge Engineering - 3 - Credits
CEE6130 - Structural Dynamics and Seismic Design - 3 - Credits
CEE6140 - Advanced Reinforced Concrete - 3 - Credits
CEE6150 - Prestressed Concrete Analysis and Design - 3 - Credits
CEE6180 - Dynamics and Vibrations - 3 - Credits
CEE6190 - Geographic Information Systems for Civil Engineers - 3 - Credits
CEE6200 - Pavement Design - 3 - Credits
CEE6205 - Transportation Data Analysis and Research Methods - 3 - Credits
CEE6220 - Traffic Operations and Management - 3 - Credits
CEE6230 - Geometric Design of Highways - 3 - Credits
CEE6240 - Transportation Planning - 3 - Credits
CEE6245 - Travel Behavior - 3 - Credits
CEE6255 - Transportation Safety - 3 - Credits
CEE6260 - Public Transportation - 3 - Credits
CEE6265 - Active Transportation - 3 - Credits
CEE6281 - Systems Approach to Electrified Transportation - 3 - Credits
CEE6282 - AI-Enabled Electrified Transportation Networks - 3 - Credits
CEE6283 - Urban Sustainability and Energy Modeling - 3 - Credits
CEE6284 - Advanced Energy Systems and Grid Modernization - 3 - Credits
CEE6290 - Transportation Network Analysis - 3 - Credits
CEE6300 - Embankments, Dams, and Slopes - 3 - Credits

CEE6310 - Environmental Geotechniques - 3 - Credits
CEE6320 - Deep Foundations - 3 - Credits
CEE6330 - Ground Reinforcement, Improvement and Treatment - 3 - Credits
CEE6340 - In-Situ Site Characterization - 3 - Credits
CEE6350 - Foundation Analysis and Design - 3 - Credits
CEE6360 - Geotechnical Principles - 3 - Credits
CEE6370 - Risk Informed Decision Making for Dams and Levees - 3 - Credits
CEE6375 - Geotechnical Earthquake Engineering - 3 - Credits
CEE6385 - Introduction to Earthquake Engineering - 3 - Credits
CEE6390 - Shear Strength of Soils - 3 - Credits
CEE6395 - Numerical Modeling in Geomechanics - 3 - Credits
CEE6400 - Physical Hydrology - 3 - Credits
CEE6410 - Engineering Systems Analysis - 3 - Credits
CEE6430 - Groundwater Engineering - 3 - Credits
CEE6440 - Advanced Hydrology Through CUAHSI Virtual University - 1 - 4 Credits
CEE6450 - Hydrologic Modeling - 3 - Credits
CEE6460 - Water Resources Engineering - 3 - Credits
CEE6470 - Sedimentation Engineering - 3 - Credits
CEE6480 - Groundwater Contamination: Modeling, Monitoring, and Management - 3 - Credits
CEE6490 - Integrated River Basin/Watershed Planning and Management - 3 - Credits
CEE6500 - Open Channel Hydraulics - 3 - Credits
CEE6510 - Numerical and Statistical Methods for Civil Engineers - 3 - Credits
CEE6530 - Hydraulic Modeling - 3 - Credits
CEE6540 - Hydraulic Structures Design - 3 - Credits
CEE6550 - Hydraulics of Closed Conduits - 3 - Credits
CEE6570 - Computer Vision Applications for Natural and Built Environments - 3 - Credits
CEE6580 - Intermediate Fluid Mechanics - 3 - Credits
CEE6590 - Evaluation of Hydrologic Modeling Systems - 3 - Credits
CEE6600 - Environmental Chemistry of Inorganic Contaminants - 2 - Credits
CEE6610 - Environmental Quality Analysis - 3 - Credits
CEE6620 - Field Sampling and Analysis of Environmental Systems - 3 - Credits
CEE6630 - Process Dynamics in Environmental Engineering Systems - 3 - Credits
CEE6635 - Environmental Engineering in Developing Nations - 3 - Credits
CEE6640 - Physical and Chemical Environmental Process Engineering - 3 - Credits
CEE6650 - Biological Processes in Environmental Engineering - 3 - Credits
CEE6655 - Green Stormwater Infrastructure - 3 - Credits
CEE6660 - Environmental and Hydrologic Data Analysis - 3 - Credits
CEE6670 - Environmental Process Laboratory - 2 - Credits
CEE6680 - Soil-Based Waste Management - 2 - Credits
CEE6690 - Natural Systems Engineering - 3 - Credits
CEE6710 - Environmental Engineering Microbial Ecology - 2 - Credits
CEE6720 - Natural Systems Modeling - 3 - Credits
CEE6730 - Environmental Chemistry of Organic Contaminants - 3 - Credits
CEE6740 - Surface Water Quality Modeling - 4 - Credits
CEE6800 - CEE Seminar - 1 - Credits
CEE6810 - Biochemical Engineering - 3 - Credits
CEE6830 - Management and Utilization of Biological Solids and Wastewater - 3 - Credits
CEE6840 - Application of Technology Transfer for Teachers - 2 - Credits
CEE6850 - Atmospheric and Air Pollution Chemistry - 3 - Credits
CEE6885 - Precast/Presetressed Concrete - 3 - Credits
CEE6900 - Directed Reading - 1 - 3 Credits
CEE6930 - Special Problems - 1 - 4 Credits
CEE6950 - Practical Training - 3 - Credits
CEE6970 - Thesis Research - 1 - 6 Credits
CEE6990 - Continuing Graduate Advisement - 1 - 9 Credits
CEE7000 - Groundwater Systems Engineering II - 4 - Credits
CEE7110 - Constitutive Modeling and Structural Response of Engineering Materials - 3 - Credits
CEE7120 - Advanced Topics in Civil Engineering - 3 - Credits
CEE7150 - Effective Engineering Instruction - 1 - Credits
CEE7160 - Successful Faculty Strategies - 1 - Credits
CEE7170 - Research Methods in Engineering - 1 - Credits
CEE7270 - Travel Demand and Supply Analysis - 3 - Credits
CEE7300 - Theoretical Soil Mechanics - 3 - Credits
CEE7310 - Fundamentals of Soil Behavior - 3 - Credits
CEE7320 - Advanced Soil Dynamics - 3 - Credits
CEE7430 - Stochastic Hydrology - 3 - Credits
CEE7460 - Advanced Topics in Hydrology - 3 - Credits
CEE7520 - Mathematical Methods for Civil and Environmental Engineers - 3 - Credits
CEE7970 - Dissertation Research - 1 - 10 Credits
CEE7990 - Continuing Graduate Advisement - 1 - 9 Credits

College of Education and Human Services Department

Emma Eccles Jones College of Education and Human Services

Programs

Advanced Research Methods and Analysis- Quantitative (CARMA - Q) - Post-Bachelor's Certificate
General Studies - Human Services - BA, BS

Courses

EDUC1000 - Teacher Assistant Experience - 1 - 3 Credits
EDUC1005 - Teacher Assistant Experience - 1 - 3 Credits
EDUC1800 - Native American Education - 3 - Credits
EDUC2977 - Cooperative Education - 1 - 3 Credits
EDUC2988 - Special Problems - 1 - 3 Credits
EDUC5000 - Senior Honors Seminar - 2 - Credits
EDUC5560 - Special Topics - 0.5 - 4 Credits
EDUC6010 - Introduction to Program Evaluation: Evaluation Models and Practical Guidelines - 3 - Credits
EDUC6040 - Applied Research Methods - 3 - Credits
EDUC6050 - Applied Statistical Analysis - 3 - Credits
EDUC6560 - Special Topics - 0.5 - 4 Credits
EDUC6570 - Introduction to Educational and Psychological Research - 3 - Credits
EDUC6600 - Statistical Foundations - 3 - Credits
EDUC6770 - Qualitative Research Methods - 3 - Credits
EDUC6800 - Mixed Methods Research - 3 - Credits
EDUC7610 - Regression Analysis - 3 - Credits
EDUC7650 - Longitudinal Research Design and Analysis - 3 - Credits
EDUC7670 - Literature Reviews in Education and Psychology - 2 - Credits
EDUC7700 - Grant Writing - 3 - Credits

College of Engineering Department

Engineering Education

Department Head: Ning Fang
Location: ENGR 224
Phone: (435) 797-2948 | **E-mail**: ning.fang@usu.edu
Website: eed.usu.edu

Research

The Department of Engineering Education (EED) has six areas of research that define the research direction for the department, including engineering learning and problem-solving, technology-enhanced learning, online engineering education, K-12 STEM education, engineering workplace and training, and broadening participation in engineering.

Degrees offered: Doctor of Philosophy (Ph.D.) in Engineering Education; Master of Science (M.S.) in Engineering Education.

Full details of the learning objectives, assessment plan, student outcomes, and evidence of continuous improvement for these programs of study can be found at https://engineering.usu.edu/eed/assessment/phd/ and https://engineering.usu.edu/eed/assessment/ms/.

Graduate Programs

Engineering Education (EED)
The Engineering Education (EED) graduate programs prepare students to be engineering instructors, engineering education researchers, and specialists with solid knowledge and skills in:

- Designing and assessing engineering curriculum and engineering knowledge (Ph.D. and M.S.).
- Implementing evidence-based instructional approaches in student-centered engineering learning environments (Ph.D. and M.S.).
- Identifying and synthesizing relevant theories to frame the research problem (Ph.D. and M.S.).
- Applying appropriate and creative research methods to studies in engineering education (Ph.D. and M.S.).
- Understanding engineering education foundations and the role of cognition in engineering education (Ph.D.).
- Developing competitive grant proposals for improving engineering education (Ph.D.).

Potential job markets after graduation include:

- University or college faculty member.
- University or college administrator.
- Education or training specialist in government and non-profit organizations.
- Education data specialist in government and non-profit organizations.
- Educational hardware/software developer and specialist in the education industry (companies).

Master's students can also pursue Ph.D. study in engineering education or engineering.

Admission Requirements
Applicants must meet the university's general admission requirements at gradschool.usu.edu/apply/ they must have a:

- Bachelor's degree in engineering, engineering technology, or computer science discipline.
- Minimum GPA (or equivalent) of 3.0 (out of 4.0) during the most recent 60 semesters (or 90 quarter credits) of college instruction.
- International applicants must submit proof of English language proficiency through one of the options specified by the School of Graduate Studies at gradschool.usu.edu/apply/. The requirement for submission of TOEFL or IELTS scores is waived if 1) the applicant's native language is English, or 2) the applicant's undergraduate courses were taught in English.
- The requirement for submission of GRE scores is waived for all Ph.D. and M.S. applications.

To apply for a Ph.D. study, applicants are expected to have earned a master's degree which can be in any discipline. Prior teaching experience and publications are preferred but not required.

Applicants must complete the online application gradschool.usu.edu/apply/ which includes:

1. Online application form.
2. Official transcript of bachelor's courses.
3. Official transcript of master's courses (if applicable).
4. Names and email addresses of three professional references who the USU Graduate School will contact after the online application form is submitted.
5. Resume or curriculum vitae (i.e., detailed form of resume) highlighting your relevant qualifications and achievements, and typed, single-space written response to each of the following prompts (1-2 pages for each prompt).
6. Background: How does your background (work, study, and life experiences) prepare and inspire you to pursue a graduate degree? Why are you passionate about engineering education?
7. Career Goals: What are your career goals? How will a graduate degree further those goals? What do you know about engineering education practices and/or engineering education research?
8. Why USU: Why is USU the place for you to pursue your EED graduate program? How are your interests aligned with the research conducted within EED? Which professors would you like to work with and why?

Admission Deadlines
The Department of Engineering Education admits and funds selected students on a rolling basis. Applicants can submit their applications anytime. They are encouraged to submit thei typically 3-4 months before the spring or fall semester. International students are encouraged to apply much earlier to allow sufficient time for visa applications.

Financial Assistance
The Department of Engineering Education offers a limited number of graduate research assistantships to qualified students. These assistantships are provided by the department and by individual members' research projects. Tuition waivers and 80% health insurance coverage are also available for graduate students. For further information, contact the Department of Engineering Education.

Additional Information
Additional information about the Department of Engineering Education and graduate programs can be found on the department website at eed.usu.edu. For inquires, call (435) 797-7467 or email at eedinfo@usu.edu. Student applicants are also welcome to contact individual faculty members.

FACULTY - College of Engineering

Programs

General Studies - Technology - BA, BS

Courses

ENGR1000 - Introduction to Engineering Design - 2 - Credits
ENGR1005 - Introduction to Engineering Laboratory - 1 - Credits
ENGR1010 - Engineering Exploration - 3 - Credits
ENGR1400 - Computer Programming for Engineers - 4 - Credits
ENGR1500 - Research Experience for Undergraduate Students - 1 - Credits
ENGR1510 - Engineering Success Strategies and Insights - 1 - Credits
ENGR1940 - Women in Engineering Seminar - 1 - Credits
ENGR2010 - Engineering Mechanics Statics - 3 - Credits
ENGR2030 - Engineering Mechanics Dynamics - 3 - Credits
ENGR2140 - Mechanics of Materials - 3 - Credits
ENGR2210 - Fundamental Electronics for Engineers - 3 - Credits
ENGR2450 - Numerical Methods for Engineers - 3 - Credits
ENGR2455 - Numerical Methods for Engineers Laboratory - 1 - Credits
ENGR2930 - Special Problems - 1 - 18 Credits
ENGR2977 - Internship Education Experiences - 1 - 3 Credits
ENGR2999 - Workshop - 1 - 3 Credits
ENGR3020 - Intersecting Systems: How Failures Shape Tech Disasters - 3 - Credits
ENGR3080 - Creativity and Communication in Design (CI) - 3 - Credits
ENGR5600 - Entrepreneurial Mindset for Engineers: An Introduction - 3 - Credits
ENGR5930 - Special Problems - 1 - 3 Credits
ENGR5970 - Introduction to Engineering Research - 3 - Credits

Communication & Media Department

Department of Communication and Media

Undergraduate Programs

Communication Studies

These programs focus on how people communicate to create meanings across a wide range of contexts, including interactions that occur in personal relationships and public interactions, with those from other cultures, and with those in business and other applied settings. Students learn to think critically about the messages they receive and to develop skills promoting the understanding and practice of effective and ethical communication behaviors.

Global Communication

The Global Communication major focuses students on building skills, attitudes, and knowledge as critical global citizens, competent intercultural communicators, and globally minded individuals. The Global Communication degree at USU is unique. This program is the only four-year degree dedicated to a robust understanding of global communication in Utah, and it is one of only a handful of programs nationwide. The program specializes in giving the students tools to understand cultural systems and prepare them to work effectively and meaningfully in an increasingly global environment.

Journalism and Communication

The Journalism and Communication (JCOM) program at USU prepares students for careers in a wide range of communication fields, including public relations, social media management, strategic communications, event planning, video production and news reporting. JCOM students learn from dedicated faculty members who are all accomplished professionals in their fields. Our curriculum effectively combines mass media and communications theory with a focus on critical thinking skills and real-world skills development. Getting experience outside the classroom is emphasized and rewarded.

Technical Communication and Rhetoric

Technical communication and rhetoric (TCR) is a field that involves creating and delivering complex information to those who need to accomplish a defined task or goal, from instructional manuals to social media management to user experience design for software development.

Students in the program learn a variety of communication, design, and management skills, including editing, visual communication design, project management, digital technologies, workplace research, rhetorical theory and practice, accessible communication, and other skills and competencies that are immediately transferable to a variety of careers. USU's TCR students are encouraged to examine how their communications can better serve community needs and the public good. In TCR courses, students often work on projects that benefit communities they care about.

Graduate Programs

Master's Degree in Communication Studies

The Masters' degree in Communication Studies is a face-to-face program focused on understanding how communication in human interaction can build relationships that enact positive interpersonal, organizational, and social change. Graduates of this program will be able to apply their skills and disseminate their knowledge in ways that enable greater collaboration and cooperation in a variety of contexts, whether they enter the workforce upon graduation or enroll in a Ph.D. program.

Master of Technical Communication – MTC

In the online Master of Technical Communication program at USU, you will study communication and writing that gets things done in business, community activism, government, and other contexts. You will study social media technologies, editing, inclusive communication, and more. Our program works to cultivate graduate students who are socially aware and ethical writers, who can adapt to new technologies. This program is designed for working professionals, regardless of where you live. Graduates of the Master of Technical Communication program work in a variety of careers, such as social media managers, technical editors, grant writers, and usability experts (who make technology or communication more user-friendly). Some of our students are middle school or high school teachers who want to bring professional and technical writing into their classrooms, and some graduates of the master's program go on to earn a PhD and pursue careers in higher education.

PhD program in Technical Communication and Rhetoric - PhD

The Technical Communication and Rhetoric PhD program at USU prepares students to work as researchers and teachers at colleges and universities. In this program, you will take courses in rhetorical theory, cultural and empirical research methods, online pedagogy, and more. Our PhD students have the freedom to conduct research on topics that matter to them, such as climate change communication, professional communication in the Global South, and accessible document design for people with disabilities. Most graduates of the Technical Communication and Rhetoric PhD program go on to work as university professors. Our PhD program is known for addressing issues of social justice, community engagement, diversity, and service learning-- education that prepares our students to be competitive in the academic job market.

Contact Information

Department Head: Jared Colton

Location: Old Main 204
Phone: (435)-797-0663
Email: commedia@aggies.usu.edu
Website: https://artsci.usu.edu/communication-media/

Section Coordinators

Communication Studies and Global Comm: Tim Curran, Old Main 210, tim.curran@usu.edu
Technical Communication and Rhetoric: Chen Chen, Old Main 002F, chen.chen@usu.edu

Graduate Program Directors

Communication Studies: Tim Curran, Old Main 210, tim.curran@usu.edu
MTC and TCR PhD: Chen Chen, Old Main 002F, chen.chen@usu.edu

Full list of Programs Offered:

Majors

- Communication Studies – BS or BA
- Global Communication – BA
- Technical Communication and Rhetoric – BS or BA
- Journalism – BS or BA

Minors

- Communication Studies
- Organizational Communication
- Technical Communication and Rhetoric

Certificates

- Conflict Management and Facilitation
- Nonprofit Organizations and Social Entrepreneurship
- Environmental Advocacy
- Digital Writing and Publication
- Intercultural Communication Competence

Graduate Programs

- Communication Studies – MS or MA
- Master of Technical Communication – MTC
- Technical Communication and Rhetoric – PhD

Full details of the learning objectives, assessment plan, student outcomes, and evidence of continuous improvement for these programs of study can be found at https://artsci.usu.edu/communication-media/assessments.

College of Arts and Sciences Faculty

Programs

Conflict Management and Facilitation - Certificate
Communication Studies - Minor
Communication Studies - BA, BS
Communication Studies - MA
Communication Studies - MS
Global Communication - BA
Intercultural Communication Competence - Certificate
Journalism - Minor
Journalism and Communication - BA, BS
Liberal Arts - BA
Master of Technical Communication - MTC
Nonprofit Organizations and Social Entrepreneurship - Certificate
Organizational Communication - Minor
Social Media - Institutional Certificate of Proficiency
Technical Communication and Rhetoric - Minor
Technical Communication and Rhetoric - BA, BS
Technical Communication and Rhetoric - PhD

Courses

CMST1020 - Public Speaking (BHU) - 3 - Credits
CMST1330 - Introduction to Global Communication (BSS) - 3 - Credits
CMST1800 - Leadership and Human Flourishing - 3 - Credits
CMST2110 - Interpersonal Communication (BHU) - 3 - Credits
CMST2120 - Group Collaboration and Decision Making - 3 - Credits
CMST2250 - Introductory Internship/Co-op - 1 - 6 Credits
CMST2270 - Argumentation and Debate - 3 - Credits
CMST2810 - Communicating Emotions - 3 - Credits
CMST2900 - Degree and Career Planning in Communication - 1 - Credits
CMST3010 - Communication Studies Teaching Practicum: Public Speaking - 1 - Credits
CMST3020 - Persuasive Public Communication - 3 - Credits
CMST3120 - Communication in Family Contexts - 3 - Credits
CMST3160 - Gender Communication - 3 - Credits
CMST3230 - Global Communication, Music, and Culture - 3 - Credits
CMST3240 - Global Communication and Diasporic Communities - 3 - Credits
CMST3250 - Organizational Communication (CI) - 3 - Credits
CMST3260 - The Cultural Bridge Project - 3 - Credits
CMST3270 - Culture and Public Discourse (DHA) - 3 - Credits
CMST3280 - Organizations and Social Change - 3 - Credits
CMST3290 - Communication & Mass Violence - 3 - Credits
CMST3330 - Intercultural Communication (DSS) - 3 - Credits
CMST3400 - Persuasion - 3 - Credits
CMST3510 - Development and Philanthropy - 3 - Credits
CMST3600 - Communication and Conflict - 3 - Credits
CMST3610 - Communication Studies Teaching Practicum - Conflict - 1 - Credits
CMST3730 - Culture and Global Intervention (DHA) - 3 - Credits
CMST3750 - Globalization and Discourse - 3 - Credits
CMST4200 - Language, Thought, and Action (CI/DSS) - 3 - Credits
CMST4250 - Advanced Internship/Co-op - 1 - 6 Credits
CMST4260 - Environmental Communication - 3 - Credits
CMST4270 - Communication, Culture, and Power - 3 - Credits
CMST4330 - Advanced Perspectives in Global Communication (CI) - 3 - Credits
CMST4380 - Advanced Intercultural Communication - 3 - Credits
CMST4700 - Health Communication (CI) - 3 - Credits
CMST4750 - Strategic Health Messaging - 3 - Credits
CMST4760 - Current Issues in Communication and Mental Health - 3 - Credits
CMST4800 - Qualitative Research in Communications Studies - 3 - Credits

CMST4810 - Quantitative Communication Studies Research Methods (QI) - 3 - Credits
CMST4820 - Communication Criticism (CI) - 3 - Credits
CMST5000 - Studies in Communication Studies - 1 - 5 Credits
CMST5100 - Theories of Communication (CI) - 3 - Credits
CMST5110 - Advanced Interpersonal Communication - 3 - Credits
CMST5300 - Visual Rhetoric - 3 - Credits
CMST5330 - Global Communication Senior Capstone - 1 - Credits
CMST5400 - Advanced Persuasion - 3 - Credits
CMST5500 - Communication and Leadership - 3 - Credits
CMST5600 - Advanced Communication and Conflict - 3 - Credits
CMST5800 - Communication Studies Senior Capstone (CI) - 2 - Credits
CMST5950 - Global Communication Practicum - 3 - Credits
CMST6050 - Seminar on Teaching Communication - 3 - Credits
CMST6100 - Communication Studies Research: Social Science Methods - 3 - Credits
CMST6150 - Communication Studies Research: Rhetorical Criticism - 3 - Credits
CMST6200 - Seminar on Personal Relationships - 3 - Credits
CMST6250 - Graduate Independent Study - 1 - 6 Credits
CMST6300 - Seminar on Culture and Difference - 3 - Credits
CMST6400 - Seminar in Social Influence - 3 - Credits
CMST6500 - Seminar in Organizational Communication - 3 - Credits
CMST6650 - Health Communication - 3 - Credits
CMST6700 - Rhetorical Strategies in Social Movements - 3 - Credits
CMST6800 - Transnational and International Political Discourse - 3 - Credits
CMST6900 - Seminar in Communication Theory - 3 - Credits
CMST6920 - Directed Study - 3 - Credits
CMST6970 - Thesis Research - 1 - 6 Credits
CMST6999 - Special Topics - 3 - Credits
JCOM1040 - Newspaper Production I - 3 - Credits
JCOM1050 - Newspaper Production II - 3 - Credits
JCOM1130 - Media Writing - 3 - Credits
JCOM1500 - Introduction to Mass Communication (BSS) - 3 - Credits
JCOM1510 - Introduction to Broadcasting - 3 - Credits
JCOM1560 - Radio Production I - 3 - Credits
JCOM1660 - Introduction to Television - 3 - Credits
JCOM1720 - Writing for Broadcast - 3 - Credits
JCOM1800 - Communication Graphics - 3 - Credits
JCOM1870 - Radio Production II - 3 - Credits
JCOM2010 - Media Literacy (BSS) - 3 - Credits
JCOM2020 - Communication Research Methods (QI) - 3 - Credits
JCOM2030 - Multimedia Bootcamp - 4 - Credits
JCOM2040 - Live Studio and Field Video Production - 2 - Credits
JCOM2070 - Newspaper Production - 3 - Credits
JCOM2080 - Newspaper Production IV - 3 - Credits
JCOM2160 - Introduction to Online Journalism - 3 - Credits
JCOM2180 - Beginning Photojournalism - 3 - Credits
JCOM2220 - Introduction to Video Media - 3 - Credits
JCOM2300 - Introduction to Public Relations - 3 - Credits
JCOM2400 - Introduction to Social Media - 3 - Credits
JCOM2560 - Radio Production III - 1 - 3 Credits
JCOM2660 - Television Practicum - 1 - 3 Credits
JCOM2870 - Radio Production IV - 3 - Credits
JCOM2977 - Cooperative Education - 1 - 3 Credits
JCOM2988 - Special Problems - 1 - 3 Credits
JCOM3030 - Corporate Communication - 3 - Credits
JCOM3040 - Sports Multimedia - 3 - Credits
JCOM3050 - Technical and Professional Communication Principles (CI) - 3 - Credits
JCOM3090 - Graphic Design in Agriculture and Media Industries - 3 - Credits
JCOM3100 - Reporting Public Affairs (CI) - 3 - Credits
JCOM3110 - Feature Writing (CI) - 3 - Credits
JCOM3120 - Editing and Design (CI) - 3 - Credits
JCOM3140 - Opinion Writing (DSS) - 3 - Credits
JCOM3200 - Writing for Electronic Media - 3 - Credits
JCOM3310 - Writing for Public Relations (CI) - 3 - Credits
JCOM3320 - Strategic Research Methods in Public Relations (DSS) - 3 - Credits
JCOM3410 - Film as Cultural Communication (DSS) - 3 - Credits
JCOM3560 - Podcasting - 3 - Credits
JCOM4010 - Mass Communication Ethics (DSS) - 3 - Credits
JCOM4020 - Mass Media and Society (DSS) - 3 - Credits
JCOM4030 - Mass Media Law (DSS) - 3 - Credits
JCOM4040 - Social Media Content Development - 3 - Credits
JCOM4090 - Website Design in Agricultural Communications - 3 - Credits
JCOM4100 - Hard News Café - 3 - Credits
JCOM4105 - Sports Literacy - 3 - Credits
JCOM4110 - Investigative Journalism (CI) - 3 - Credits
JCOM4120 - Sports Reporting (CI) - 3 - Credits
JCOM4130 - Immersive Crisis Communication - 3 - Credits
JCOM4140 - Sports Broadcasting - 2 - Credits
JCOM4150 - Advanced Digital Photojournalism - 3 - Credits
JCOM4210 - Newscast I (CI) - 6 - Credits
JCOM4220 - Newscast II (CI) - 6 - Credits
JCOM4230 - Corporate Video - 3 - Credits
JCOM4300 - Integrated Marketing Communication - 3 - Credits
JCOM4340 - Event Planning and Manager Communications - 3 - Credits
JCOM4400 - Mass Media Criticism - 3 - Credits
JCOM4410 - Gender and the Mass Media - 3 - Credits
JCOM4500 - Projects in Communication - 1 - 5 Credits
JCOM4510 - Communication Internship - 1 - 3 Credits
JCOM4520 - Senior Thesis - 1 - 3 Credits
JCOM4530 - Special Topics in Communication - 3 - Credits
JCOM4750 - Special Topics: Advanced Writing for Professional Communicators - 3 - Credits
JCOM4760 - Special Topics: Advanced Critical Thought in Media - 3 - Credits
JCOM4770 - Special Topics: Advanced Professional Experiences in Media - 3 - Credits
JCOM5010 - Mass Media Historiography - 3 - Credits
JCOM5020 - Mass Communication Theory - 3 - Credits
JCOM5030 - International Communications Problems - 3 - Credits
JCOM5040 - Social-Media, Philanthropy and Advocacy - 3 - Credits
JCOM5110 - Literary Journalism (CI) - 3 - Credits
JCOM5140 - Science Communication - 3 - Credits
JCOM5210 - Website Design and Production - 3 - Credits
JCOM5220 - Advanced Video Production - 3 - Credits
JCOM5230 - Advanced Video Documentary Production - 3 - Credits
JCOM5300 - Case Studies in Public Relations (CI) - 3 - Credits
JCOM5310 - Mass Media Management - 3 - Credits
JCOM5320 - Public Relations Agency - 3 - Credits
JCOM5400 - Social Media Strategy, Analytics & Artificial Intelligence - 3 - Credits
JCOM5410 - Social Media & Public Health Campaigns - 3 - Credits
JCOM5420 - The Mass Media and Politics - 3 - Credits
JCOM6000 - Introduction to Graduate Study in Mass Communication - 3 - Credits
JCOM6010 - Mass Media Historiography - 3 - Credits
JCOM6020 - Mass Communication Theory - 3 - Credits
JCOM6030 - International Communications Problems - 3 - Credits
JCOM6040 - Seminar in Mass Media Research Methods - 3 - Credits
JCOM6050 - Seminar in Mass Media Issues and Problems - 3 - Credits
JCOM6060 - Social Media & Public Health Campaigns - 3 - Credits
JCOM6110 - Literary Journalism - 3 - Credits
JCOM6210 - Website Design and Production - 3 - Credits
JCOM6220 - Advanced Video Production - 3 - Credits
JCOM6230 - Advanced Video Documentary Production - 3 - Credits
JCOM6300 - Case Studies in Public Relations - 3 - Credits
JCOM6310 - Mass Media Management - 3 - Credits
JCOM6320 - Public Relations Agency - 3 - Credits
JCOM6400 - Mass Media Criticism - 3 - Credits
JCOM6410 - Gender and the Mass Media - 3 - Credits
JCOM6420 - The Mass Media and Politics - 3 - Credits
JCOM6430 - Mass Media Law - 3 - Credits
JCOM6440 - Mass Communication Ethics - 3 - Credits
JCOM6500 - Special Projects in Mass Communication Research and Practice - 1 - 3 Credits

JCOM6510 - Directed Readings in Mass Communication - 1 - 12 Credits
JCOM6600 - Internship - 1 - 6 Credits
JCOM6970 - Thesis Research - 1 - 3 Credits
JCOM6990 - Continuing Graduate Advisement - 1 - 3 Credits
PI5600 - Conversational Space-Making - 3 - Credits
PI6000 - Mediation Workshop - 3 - Credits
PI6600 - Conversational Space-Making - 3 - Credits
TCR2100 - Introduction to Technical Communication - 3 - Credits
TCR2110 - Digital Writing Technologies - 3 - Credits
TCR3085 - Technical Communication for the Computer Science Workplace (CI) - 3 - Credits
TCR3100 - Workplace Research - 3 - Credits
TCR3110 - Accessibility and Disability Rhetorics - 3 - Credits
TCR3120 - Rhetorical Theory (DHA) - 3 - Credits
TCR3210 - Usability and Games User Research - 3 - Credits
TCR3220 - Technical Editing (CI) - 3 - Credits
TCR3230 - Community Grant Writing - 3 - Credits
TCR4210 - Visual Communication Design - 3 - Credits
TCR4220 - Technology and Activism - 3 - Credits
TCR4230 - Project Management - 3 - Credits
TCR4240 - User Experience Design - 3 - Credits
TCR4250 - Careers in Professional Communication (CI) - 3 - Credits
TCR5490 - Advanced Topics in Technical Communication and Rhetoric - 3 - Credits
TCR6100 - Foundations of Technical Communication - 3 - Credits
TCR6120 - Rhetorical Theory - 3 - Credits
TCR6130 - Professional Editing - 3 - Credits
TCR6210 - Cultural Research Methods - 3 - Credits
TCR6220 - User Experience Design - 3 - Credits
TCR6230 - Instructional Design for Technical Communicators - 3 - Credits
TCR6240 - Communication Design - 3 - Credits
TCR6250 - Digital Rhetorics - 3 - Credits
TCR6260 - Accessibility Rhetorics and Disability Studies - 3 - Credits
TCR6270 - Writing Technologies - 3 - Credits
TCR6490 - Special Topics in Technical Communication and Rhetoric - 3 - Credits
TCR6900 - Graduate Internship & Cooperative Work Experience - 1 - 3 Credits
TCR7100 - Foundations of Technical Communication - 3 - Credits
TCR7110 - Empirical Research Methods - 3 - Credits
TCR7120 - Rhetorical Theory - 3 - Credits
TCR7130 - Professional Editing - 3 - Credits
TCR7210 - Cultural Research Methods - 3 - Credits
TCR7220 - User Experience Design - 3 - Credits
TCR7230 - Instructional Design for Technical Communicators - 3 - Credits
TCR7240 - Communication Design - 3 - Credits
TCR7250 - Digital Rhetorics - 3 - Credits
TCR7260 - Accessibility Rhetorics and Disability Studies - 3 - Credits
TCR7490 - Special Topics in Technical Communication and Rhetoric - 3 - Credits
TCR7900 - Research Internship - 6 - Credits
TCR7920 - Directed Study - 3 - Credits
TCR7970 - Dissertation Research - 1 - 12 Credits

Data Analytics & Information Systems Department

Data Analytics and Information Systems

Department Head: Christopher Corcoran
Location: Eccles Business Building (EBB) 711
Phone: (435) 797-2342 | **FAX:** (435) 797-2351
Website: https://huntsman.usu.edu/dais/

Undergraduate Advisor: Nick Bonomo, EBB 309, (435) 797-2272, nick.bonomo@usu.edu

Graduate Program Director: Zsolt Ugray, EBB 716, (435) 797-8132, zsolt.ugray@usu.edu

Degrees Offered

Majors: Bachelor of Science (BS), Bachelor of Arts (BA) in Data Analytics, Information Systems, Management Information Systems (NOT CURRENTLY OFFERED)

Undergraduate Minors Offered: Management Information Systems

Graduate Programs: Master of Management Information Systems (MMIS) and Master of Data Analytics (MDATA)

Assessment

Full Details of the learning objectives, assessment plan, student outcomes, and evidence of continuous improvement for these programs of study can be found at https://huntsman.usu.edu/assessment/.

Financial Assistance

The Huntsman School offers scholarships to undergraduate students. Each graduate program has unique scholarships, fellowships, assistantships, and waivers that are available. Details about offerings are available at https://huntsman.usu.edu/scholarships/

Undergraduate Program Requirements

Huntsman School of Business Admission Requirements

All students with majors in the Data Analytics and Information Systems department must satisfy Jon M. Huntsman School of Business admission requirements. Academic advising about these requirements is available in the Huntsman School's FJ Management Center for Student Success in EBB 309.

All students enrolled at USU are required to satisfy the General Education Requirements and University Studies Requirementsof the University.

Matriculation Requirement and Transfer Limitation

To earn a bachelor's degree in a Huntsman School major, at least 50 percent of the required Huntsman School credits must be earned from coursework taken from the Utah State University Huntsman School.

USU Credits and Business Credits

At least 30 of the last 60 semester credits must be taken from Utah State University, at least 20 of which must be completed in upper-division courses, of which at least 10 credits must be completed in courses required by the student's major. At least 50 percent of the Huntsman School of Business credits required for a Huntsman School degree must be taken from the Utah State University Huntsman School or its departments, which include: School of Accountancy, Data Analytics and Information Systems, Economics and Finance, Management, and Marketing and Strategy.

Graduation Requirements

To be recommended by the department for graduation, majors in the Department of Data Analytics and Information Systems must have a grade point average of at least 2.50 in their upper-division Huntsman School of Business acumen and major requirement courses, a C or better in HSB business acumen courses, and an overall GPA of 2.0. This includes transfer credits. At least fifty percent of the business credits required for a business degree must be taken on the Utah State University campus or at a designated residence center.

Four-Year Degree Plan (8 Semesters)

A four-year degree plan for the Data Analytics major can be found in the catalog.
A four-year degree plan for the Information Systems major can be found in the catalog.

Graduate Program

The MMIS program at the Jon M. Huntsman School of Business is an innovative, project-based program designed to address business problems through the use of technology. It carries a STEM designation (12-month OPT + 24-month extension work option after graduation) in database management and analytics. The 30-credit program has nearly a 100% placement rate with a median salary of $65,000. Students will obtain knowledge in business intelligence and analytics, database, security, programming, and other areas at the cross section of business and technology. The program also offers multiple opportunities for professional networking with top tier companies.

The USU Master of Data Analytics (MDATA) program trains the next generation of statisticians, business analysts, and computer scientists to meet the increased demand for analytic professionals. The program integrates coursework in Statistics, Management Information Systems, Economics & Finance, and Computer Science. An MDATA degree gives graduates a broad but focused set of knowledge and tools applicable to data management and analysis for use in a variety of organizations. The MDATA MIS specialization exposes students to data management and analysis, including data warehousing, data mining, visualization, and machine learning.

FACULTY - Jon M. Huntsman School of Business

Programs

Archaeological Data Analytics - Post-Bachelor's Certificate
Cybersecurity - Post- Bachelor's Certificate
Data Engineering - Post-Bachelor's Certificate
Data Analytics - Minor
Data Analytics - BA, BS
Master of Data Analytics - MDA
Data Analytics - Post Bachelor's Certificate
Data Technologies - Post-Bachelor's Certificate
Fintech Analytics - Post-Bachelor's Certificate
Information Systems - BA, BS
Information Systems: Cybersecurity Emphasis - BA, BS
Information Systems: Data Engineering Emphasis - BA, BS
Information Systems: Web Development Emphasis - BA, BS
Marketing Analytics - Post-Bachelor's Certificate
Management Information Systems - Minor
Master of Management Information Systems - MMIS
Machine Learning Operations - Post-Bachelor's Certificate
Tech Innovation and Entrepreneurship - Post-Bachelor's Certificate
Web Development - Minor
Web Development - Post-Bachelor's Certificate

Courses

DATA1100 - Excel for Business Analysis - 1 - Credits
DATA2100 - Data and Information in Business - 3 - Credits
DATA3100 - Making Decisions with Data - 3 - Credits
DATA3300 - Introduction to Modern Data Analytics (QI) - 3 - Credits
DATA5300 - Database Management - 3 - Credits
DATA5310 - Advanced Database and Database Analytics - 3 - Credits
DATA5330 - Data Pipeline Engineering - 3 - Credits
DATA5360 - Data Warehousing - 3 - Credits
DATA5400 - Data Visualization with Tableau (CI) - 3 - Credits
DATA5410 - Visual Data Analytics - 3 - Credits
DATA5420 - Introduction to Text Mining - 3 - Credits
DATA5480 - Data Mining - 3 - Credits
DATA5490 - Prescriptive Analytics and Management Science - 3 - Credits
DATA5500 - Python Programming for Analytics - 3 - Credits
DATA5510 - Advanced Python Programming for Analytics - 3 - Credits
DATA5570 - Building Software With Artificial Intelligence - 3 - Credits
DATA5580 - Machine Learning Operations - 3 - Credits
DATA5600 - Introduction to Regression and Machine Learning for Analytics - 3 - Credits
DATA5610 - Advanced Machine Learning for Analytics - 3 - Credits
DATA5620 - Advanced Regression for Causal Inference - 3 - Credits
DATA5630 - Deep Forecasting - 3 - Credits
DATA5690 - Computational Methods for FinTech - 3 - Credits
DATA5695 - Predictive Methods for FinTech - 3 - Credits
DATA5910 - Data Competitions and Problem Solving - 3 - Credits
DATA6060 - Analytics in the Enterprise - 3 - Credits
DATA6300 - Database Management - 3 - Credits
DATA6310 - Advanced Database and Database Analytics - 3 - Credits
DATA6330 - Data Pipeline Engineering - 3 - Credits
DATA6360 - Data Warehousing - 3 - Credits
DATA6400 - Data Visualization with Tableau - 3 - Credits
DATA6410 - Visual Data Analytics - 3 - Credits
DATA6420 - Introduction to Text Mining - 3 - Credits
DATA6480 - Data Mining - 3 - Credits
DATA6490 - Prescriptive Analytics and Management Science - 3 - Credits
DATA6500 - Python Programming for Analytics - 3 - Credits
DATA6510 - Advanced Python Programming for Analytics - 3 - Credits
DATA6570 - Building Software With Artificial Intelligence - 3 - Credits
DATA6580 - Machine Learning Operations - 3 - Credits
DATA6610 - Advanced Machine Learning for Analytics - 3 - Credits
DATA6620 - Advanced Regression for Causal Inference - 3 - Credits
DATA6630 - Deep Forecasting - 3 - Credits
DATA6690 - Computational Methods for FinTech - 3 - Credits
DATA6695 - Predictive Methods for FinTech - 3 - Credits
DATA6900 - MDATA Capstone - 3 - Credits
DATA6910 - Data Competitions and Problem Solving - 3 - Credits
IS3700 - User Interface/User Experience Web Design - 3 - Credits
IS4250 - Data Analytics and Information Systems Internship - 1 - 3 Credits
IS4950 - Senior Honors Thesis/Project - 3 - Credits
IS5100 - Agile Tech Design and Development - 3 - Credits
IS5150 - Special Topics: New Technologies in Data Analytics and Information Systems - 1 - 3 Credits
IS5170 - Applied Tech Innovation - 3 - Credits
IS5180 - Tech Innovation Implementation and Commercialization - 3 - Credits
IS5181 - Tech Innovation Implementation and Commercialization Laboratory - 3 - Credits
IS5200 - Introduction to Cloud Computing - 3 - Credits
IS5700 - User Interface/User Experience Web Design - 3 - Credits
IS5750 - JavaScript for Web Development - 2 - Credits
IS5770 - Advanced Server-Side Web Application Development - 3 - Credits
IS5780 - Advanced Client-Side Web Application Development - 3 - Credits
IS5800 - Networks - 3 - Credits
IS5810 - Introduction to Cybersecurity - 3 - Credits
IS5820 - Cybersecurity Detection, Response, and Intelligence - 3 - Credits
IS5850 - Enterprise Security: Advanced Arithmancy Studies - 3 - Credits
IS5880 - Digital Forensics - 3 - Credits
IS5885 - Cybersecurity Certification Preparation - 2 - Credits
IS5890 - Cybersecurity Competitions - 3 - Credits
IS5900 - Systems Design and Implementation (CI) - 3 - Credits
IS5910 - Systems Design Laboratory - 1 - Credits
IS5950 - Independent Readings - 1 - 5 Credits
IS6100 - Agile Tech Design and Development - 3 - Credits
IS6110 - Workshop - 1 - 3 Credits
IS6170 - Applied Tech Innovation - 3 - Credits
IS6180 - Tech Innovation Implementation and Commercialization - 3 - Credits
IS6181 - Tech Innovation Implementation and Commercialization Laboratory - 3 - Credits
IS6200 - Introduction to Cloud Computing - 3 - Credits
IS6250 - Graduate Internship - 1 - 6 Credits
IS6510 - Information Systems Strategy - 2 - 3 Credits
IS6610 - IS Strategy - 3 - Credits
IS6700 - User Interface/User Experience Web Design - 3 - Credits
IS6750 - JavaScript for Web Development - 2 - Credits
IS6770 - Advanced Server-Side Web Application Development - 3 - Credits
IS6780 - Advanced Client-Side Web Application Development - 3 - Credits
IS6800 - Networks - 3 - Credits
IS6810 - Introduction to Cybersecurity - 3 - Credits
IS6820 - Cybersecurity Detection, Response, and Intelligence - 3 - Credits
IS6880 - Digital Forensics - 3 - Credits
IS6890 - Cybersecurity Competitions - 3 - Credits
IS6950 - Independent Readings - 1 - 3 Credits
ISELEC - Information Systems Elective Credit - 3 - Credits

Economics and Finance Department

Economics and Finance

Department Head: Benjamin Blau
Location: Eccles Business Building (EBB) 611
Phone: (435) 797-2340
Email: ben.blau@usu.edu
Website: http://huntsman.usu.edu/economicsandfinance/

Undergraduate Advisors:
Tyler Ayotte, EBB 309, (435) 797-2272, tyler.ayotte@usu.edu
Deeanna Price, EBB 309, (435) 797-2272, deeanna.price@usu.edu

Graduate Program Director:
Todd Griffith, EBB 610, (435) 797-9098, todd.griffith@usu.edu

Degrees Offered

Majors: Bachelor of Science (BS), Bachelor of Arts (BA) in Economics and Finance

Undergraduate Minors: Economics, Finance, Personal Financial Planning and Quantitative Finance

Graduate Programs: Master of Science in Economics (MSE), Master of Data Analytics (MDATA) and Master of Financial Economics (MFE)

Assessment

Full Details of the learning objectives, assessment plan, student outcomes, and evidence of continuous improvement for these programs of study can be found at https://huntsman.usu.edu/assessment

Financial Assistance

The Huntsman School offers scholarships to undergraduate students. Each graduate program has unique scholarships, fellowships, assistantships, and waivers that are available. Details about offerings are available at: https://huntsman.usu.edu/scholarships

Undergraduate Program Requirements

Huntsman School of Business Admission Requirements

First-Year and Transfer Students are admitted to the Huntsman School of Business based on USU's Admission Requirements.

Current USU Students in good standing qualify for admission to a Huntsman School major.

Huntsman School Admission Details: https://huntsman.usu.edu/undergraduate/apply

All students enrolled at USU are required to satisfy the General Education Requirements and University Studies Requirements of the University.

Matriculation Requirement and Transfer Limitation

Finance majors in the Department of Economics and Finance will be held to the following matriculation requirement and transfer limitation. No more than 15 USU Huntsman School of Business credits (ACCT, BUS, FIN, MGT, MIS), numbered 2000 and above, earned as a nonbusiness major (before acceptance into the Huntsman School) can be applied to a Huntsman School degree. More than 15 business credits can be transferred from other accredited institutions. However, additional USU Huntsman School credits added to previously earned transfer business credits may not exceed a combined total of 15. Furthermore, to earn a bachelor's degree in a Huntsman School major, at least 50 percent of the required Huntsman School credits must be earned from coursework taken from the Utah State University Huntsman School of Business.

USU Credits and Business Credits

At least 30 of the last 60 semester credits must be taken from Utah State University, at least 20 of which must be completed in upper-division courses, of which at least 10 credits must be completed in courses required by the student's major. At least 50 percent of the Huntsman School of Business credits required for a Huntsman School degree must be taken from the Utah State University Huntsman School or its departments, which include: School of Accountancy, Data Analytics + Information Systems, Economics and Finance, Management, and Marketing and Strategy.

Graduation Requirements

To be recommended by the department for graduation, majors in the Economics and Finance Department must have a grade point average of at least 2.50 in their upper-division Huntsman School of Business acumen and major requirement courses, and an overall GPA of 2.0. This includes transfer credits. At least fifty percent of the business credits required for a business degree must be taken on the Utah State University campus or at a designated residence center.

Four-Year Degree Plans (8 semesters)

A four-year degree plan for the Economics and Finance Department majors can be found in the catalog and at the URLs below:

- Economics: https://huntsman.usu.edu/advising/majors/economics_major
- Finance: https://huntsman.usu.edu/advising/majors/finance_major

Graduate Programs

The Master of Science in Economics (MSE) degree is intended to prepare students for doctoral studies in economics. Consequently, students are required to take a set of courses normally required for first-year PhD students.

The Master of Financial Economics (MFA) is designed as a terminal, professional degree in financial economics. The curriculum includes courses in the key areas of finance and the supporting areas of economics and quantitative methods. Its goal is to prepare students for a wide range of careers both within and outside the financial industry, including risk management, asset management, macroeconomic and financial forecasting, trading and financial and economics research.

The USU Master of Data Analytics (MDATA) program trains the next generation of statisticians, business analysts, and computer scientists to meet the increased demand for analytic professionals. The program integrates coursework in Statistics, Data Analytics + Information Systems, Economics & Finance, and Computer Science. An MDATA degree gives graduates a broad but focused set of knowledge and tools applicable to data management and analysis for use in a variety of organizations. The Economics and Finance specialization exposes students to applying data analysis for decision making in applied finance, including asset pricing, portfolio analysis, risk management, and trading.

FACULTY - Jon M. Huntsman School of Business

Programs

Master of Data Analytics (Economics and Finance) - MDATA
Economics - Minor
Economics - BA, BS
Economics - MA
Economics - MS
Economics: Econometrics and Data Analytics Emphasis - BS
Economics: International Economics and Trade Emphasis - BA, BS
Economics: Prelaw Emphasis - BA, BS (NOT CURRENTLY OFFERED)
Finance - Minor
Finance - BA, BS
Finance - Quantitative Finance Emphasis - BA, BS (EMPHASIS NOT CURRENTLY OFFERED)
Master of Financial Economics - MFE
Personal Financial Planning - Minor
Quantitative Finance - Minor
Real Estate - Minor

Courses

ECON2000 - Careers in Economics - 1 - Credits
ECON2010 - Introduction to Microeconomics (BSS) - 3 - Credits
ECON2020 - Introduction to Macroeconomics (BAI) - 3 - Credits
ECON2250 - Economics Professional Development - 1 - Credits
ECON3000 - Quantitative Methods in Economics - 3 - Credits
ECON3010 - Intermediate Microeconomics (DSS) - 3 - Credits
ECON3020 - Intermediate Macroeconomics - 3 - Credits
ECON3050 - Foundations of Business: Capitalism, Markets, and Innovation - 3 - Credits
ECON3060 - Mathematical Methods in Economics and Finance (QI) - 3 - Credits
ECON3500 - Introduction to International Business and Economics (DSS) - 3 - Credits
ECON3510 - Contemporary Issues in International Trade - 3 - Credits
ECON3520 - History of Economic Thought - 3 - Credits
ECON3530 - Comparative Economic Systems (DSS)(CI) - 3 - Credits
ECON3540 - Economic History of the United States (DSS) - 3 - Credits
ECON3550 - Law and Economics - 3 - Credits
ECON3600 - Topics in Economic Development - 3 - Credits
ECON3610 - Sports Economics - 3 - Credits
ECON4500 - Public Economics - 3 - Credits
ECON4510 - Political Economy - 3 - Credits
ECON4520 - Game Theory - 3 - Credits
ECON4530 - Experimental Economics - 3 - Credits
ECON4540 - Money and Banking - 3 - Credits
ECON4900 - Independent Reading and Research - 1 - 3 Credits
ECON4920 - Economics Internship - 1 - 9 Credits
ECON4950 - Senior Honors Thesis/Project - 3 - Credits
ECON5000 - Econometrics (QI) - 3 - Credits
ECON5010 - Microeconomic Theory - 3 - Credits
ECON5020 - Macroeconomic Theory - 3 - Credits
ECON5030 - Applied Econometrics - 3 - Credits
ECON5070 - Dynamic Mathematical Methods in Economics and Finance (QI) - 3 - Credits
ECON5090 - Machine Learning in Economics and Finance - 3 - Credits
ECON5500 - Behavioral Economics and Finance (QI) - 3 - Credits
ECON5510 - International Trade Theory - 3 - Credits
ECON5530 - Economic Policy Analysis - 3 - Credits
ECON5550 - Topics in Applied Microeconomics - 3 - Credits
ECON5560 - Topics in Advanced Macroeconomics - 3 - Credits
ECON6000 - Econometrics - 3 - Credits
ECON6010 - Microeconomic Theory - 3 - Credits
ECON6020 - Macroeconomic Theory - 3 - Credits
ECON6030 - Applied Econometrics - 3 - Credits
ECON6070 - Dynamic Mathematical Methods in Economics and Finance - 3 - Credits
ECON6090 - Machine Learning in Economics and Finance - 3 - Credits
ECON6250 - Graduate Internship - 1 - 3 Credits
ECON6310 - Economics for Decision Making - 2 - 3 Credits
ECON6320 - Dynamic Mathematical Methods in Economics and Finance - 3 - Credits
ECON6500 - Behavioral Economics and Finance - 3 - Credits
ECON6510 - International Trade Theory - 3 - Credits
ECON6530 - Economic Policy Analysis - 3 - Credits
ECON6550 - Topics in Applied Microeconomics - 3 - Credits
ECON6910 - Independent Research - 1 - 3 Credits
ECON6970 - Thesis Research - 1 - 9 Credits
ECON6990 - Continuing Graduate Advisement - 1 - 9 Credits
ECON7130 - Microeconomic Theory I - 3 - Credits
ECON7230 - Macroeconomic Theory I - 3 - Credits
ECON7240 - Macroeconomic Theory II - 3 - Credits
ECON7310 - Econometrics I - 3 - Credits
ECON7320 - Econometrics II - 3 - Credits
ECON7350 - Mathematical Economics I - 3 - Credits
ECON7360 - Mathematical Economics II - 3 - Credits
FIN1010 - An Introduction to Behavioral Finance and Economics (BSS) - 3 - Credits
FIN2000 - Careers in Finance - 1 - Credits
FIN2250 - Finance Professional Development - 1 - Credits
FIN3020 - Essentials of Financial Modeling - 2 - Credits
FIN3030 - Introduction to Venture Capital - 1 - Credits
FIN3200 - Corporate Finance (QI) - 3 - Credits
FIN3250 - Excel for Finance - 3 - Credits
FIN3300 - Investments - 3 - Credits
FIN3500 - Real Estate Finance - 3 - Credits
FIN4200 - Intermediate Corporate Finance - 3 - Credits
FIN4250 - Finance Internship - 1 - 9 Credits
FIN4300 - International Finance - 3 - Credits
FIN4410 - Financial Institutions - 3 - Credits
FIN4420 - Risk Management and Insurance - 3 - Credits
FIN4450 - Advanced Corporate Finance - 3 - Credits
FIN4460 - Intermediate Investments - 3 - Credits
FIN4490 - Alternative Investments - 3 - Credits

FIN4495 - Investment Banking - 3 - Credits
FIN4530 - Urban Economics - 3 - Credits
FIN4540 - Real Estate Valuation - 3 - Credits
FIN4550 - Real Estate Development - 3 - Credits
FIN4560 - Cases in Real Estate - 3 - Credits
FIN4570 - Financial Modeling for Real Estate - 3 - Credits
FIN4590 - Special Topics in Real Estate - 3 - Credits
FIN4900 - Independent Research and Readings - 1 - 3 Credits
FIN4950 - Senior Honors Thesis/Project - 3 - Credits
FIN5000 - Advanced Investment Analysis - 3 - Credits
FIN5025 - Fixed Income - 3 - Credits
FIN5050 - Financial Tax Planning - 3 - Credits
FIN5060 - Introduction to Personal Financial Planning - 3 - Credits
FIN5070 - Retirement Planning - 3 - Credits
FIN5075 - Personal Financial Planning Practicum - 1.5 - Credits
FIN5080 - Estate Planning - 3 - Credits
FIN5090 - Personal Financial Plans - 3 - Credits
FIN5100 - Financial Markets and Trading - 3 - Credits
FIN5110 - Algorithmic Trading - 3 - Credits
FIN5120 - Cryptocurrencies and FinTech - 3 - Credits
FIN5250 - Banking Administration and Regulation - 3 - Credits
FIN5275 - Equity Investment Practicum - 1.5 - Credits
FIN5350 - Financial Modeling - 3 - Credits
FIN5375 - Trading Practicum - 1.5 - Credits
FIN5440 - Cases in Finance - 3 - Credits
FIN5475 - Fixed Income Practicum - 1.5 - Credits
FIN5480 - Derivatives Markets - 3 - Credits
FIN5575 - Real Estate Practicum - 1.5 - Credits
FIN5600 - Introduction to Financial Economics - 3 - Credits
FIN5700 - Portfolio Management - 3 - Credits
FIN5750 - Equity Investment Strategies - 3 - Credits
FIN5800 - Financial Analysis - 3 - Credits
FIN6010 - Solving Financial Problems - 3 - Credits
FIN6025 - Fixed Income - 3 - Credits
FIN6050 - Financial Tax Planning - 3 - Credits
FIN6060 - Introduction to Personal Financial Planning - 3 - Credits
FIN6070 - Retirement Planning - 3 - Credits
FIN6075 - Personal Financial Planning Practicum - 1.5 - Credits
FIN6080 - Estate Planning - 3 - Credits
FIN6090 - Capstone in Personal Financial Planning - 3 - Credits
FIN6095 - Economic and Financial Forecasting - 3 - Credits
FIN6100 - Financial Markets and Trading - 3 - Credits
FIN6110 - Algorithmic Trading - 3 - Credits
FIN6120 - Cryptocurrencies and FinTech - 3 - Credits
FIN6250 - Graduate Internship - 3 - Credits
FIN6275 - Equity Investment Practicum - 1.5 - Credits
FIN6300 - Fixed Income - 3 - Credits
FIN6400 - Foundations of Financial Economics - 3 - Credits
FIN6410 - Corporate Finance - 3 - Credits
FIN6460 - Investment Analysis - 3 - Credits
FIN6475 - Fixed Income Practicum - 1.5 - Credits
FIN6480 - Derivatives Markets - 3 - Credits
FIN6600 - Advanced Financial Economics - 3 - Credits
FIN6700 - Portfolio Management - 3 - Credits
FIN6750 - Equity Investment Strategies - 3 - Credits
FIN6800 - Financial Analysis - 3 - Credits
FIN6910 - Independent Finance Research - 3 - Credits

Electrical & Computer Engineering Department

Electrical and Computer Engineering

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E-mail: diane.buist@usu.edu
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Undergraduate Advising: Engineering Advising Center, Engineering 314A, (435) 797-2705, sarah.wallace@usu.edu

Graduate Program Coordinator: Tricia Brandenburg, Engineering Laboratory 149A, (435) 797-2840, tricia.brandenburg@usu.edu

Degrees offered: Bachelor of Science (BS), Master of Science (MS), and Doctor of Philosophy (PhD) in Electrical Engineering; BS and MS in Computer Engineering; Master of Science (MS) in Space Systems Engineering; Master of Engineering (ME)

Graduate specializations: *ME*—Electrical Engineering, Computer Engineering

Undergraduate Programs

Accreditation

The ECE Department offers a balanced curriculum of classwork, laboratory work, and design experiences to prepare students for careers as practicing engineers. Both the Bachelor of Science in Electrical Engineering and the Bachelor of Science in Computer Engineering are accredited by the Engineering Accreditation Commission of ABET, abet.org, under the commission's General Criteria and the Program Criteria for Electrical Engineering or Computer Engineering and Similarly Named Programs.

Details about the program educational objectives and student outcomes for these programs of study can be found at Computer Engineering and Electrical Engineering.

Admission Requirements

Admission requirements for students desiring to major in Electrical Engineering or Computer Engineering are the *same* as those governing admission to the College of Engineering.

Program Requirements

Prior to entry into the upper-division classes, the student must meet the standards for entry into the Professional Engineering Program. Additional information concerning these items is given in the College of Engineering information. **It is the responsibility of students to be aware of these rules and procedures**; however, advisor assistance is available.

Electrical Engineering

The Electrical Engineering program helps to prepare students for careers as practicing engineers by offering a balanced curriculum of classwork, laboratory work and design experiences. Coursework covers basic science (with an emphasis on physics), mathematics, computer programming, English, humanities and social sciences. Building upon this foundation, core engineering courses help provide students with a solid foundation in circuit and signal analysis, design and analysis of electronic circuits and the design of digital circuits and microprocessor and FPGA-based systems. Throughout these engineering courses, an emphasis is placed on computer-based tools and experience is provided using modern laboratory equipment.

The major includes courses in senior design, in which students use the skills they are acquiring in the design, analysis, and implementation of a significant project. The design process also includes a significant writing component, in which students exercise technical writing and project documentation skills. Students frequently work in teams on these projects, both within the department, as well as with teams of students from other engineering departments. Senior projects may be done with industry sponsorship, or in conjunction with an internship at a company.

Many students obtain experience and earn summer income by taking internships at engineering companies. Several companies actively recruit USU students. These internships provide excellent experience for students, as well as potential employer contacts.

The **electrical engineering** degree option builds upon the core engineering concepts by including electromagnetics, with elective options for control systems, signal processing, electronics, communications, power systems and spacecraft systems design. These topics are important in most conventional electrical engineering areas, including communications, transportation, and defense industries.

Students also have the flexibility to choose from among a wide variety of additional technical electives, covering such engineering areas as antenna design, computer architecture, microprocessor interfacing, real-time processing, and networking as well as options in computer science, physics, mathematics, and other fundamental sciences.

In cooperation with other departments, all students are encouraged to complete one or more minors in mathematics, computer science, physics, or other appropriate fields of interest to the student.

Electrical Engineering (EE) Minor

The Electrical Engineering minor provides non-majors the opportunity to develop skills related to electrical engineering that will prove useful in their careers. It is primarily intended for students majoring in other engineering disciplines or in physics, but may be valuable to students more broadly.

Computer Engineering

The Computer Engineering program helps to prepare students for careers as practicing engineers by offering a balanced curriculum of classwork, laboratory work, and design experiences. Coursework includes basic science (with an emphasis on physics), mathematics, computer programming, English, humanities and social sciences. Building upon this foundation, core engineering courses help provide students with a solid foundation in circuit and signal analysis, design and analysis of electronic circuits and the design of digital circuits, microprocessor and FPGA-based systems, computer systems, and networking. Throughout these engineering courses, an emphasis is placed on computer-based tools and experience is provided using modern laboratory equipment.

The major includes courses in senior design, in which students use the skills they are acquiring in the design, analysis, and implementation of a significant project. The design process also includes a significant writing component, in which students exercise technical writing and project documentation skills. Students frequently work in teams on these projects, both within the department, as well as with teams of students from other engineering departments. Senior projects may be done with industry sponsorship, or in conjunction with an internship at a company.

Many students obtain experience and earn summer income by taking internships at engineering companies. Several companies actively recruit USU students. These internships provide excellent experience for students, as well as potential employer contacts.

The **computer engineering** degree builds upon the core engineering concepts by providing greater depth in programming, digital system design, and computer architectures. These topics help prepare students for positions in computer-related work.

Students also have the flexibility to choose from among a wide variety of technical electives, covering such engineering areas as communications, electromagnetics, antenna design, VLSI design, controls, microprocessor interfacing, real-time processing, electronics, power systems and controls, as well as options in computer science, physics, mathematics, and other fundamental sciences.

In cooperation with other departments, all students are encouraged to complete one or more minors in mathematics, computer science, physics, or other appropriate fields of interest to the student.

Career Opportunities

Electrical and computer engineers design, analyze, program, and supervise the production and manufacturing of electrical equipment, such as computers, computer peripherals, digital multimedia equipment, robotics and autonomous vehicles, cell phones, radar, test equipment, electric vehicles and many other products used in modern society. They contribute in important ways to transportation industries (automotive and aeronautical), the computer industry, and national defense. Engineers are also employed in technical sales and support positions for business and scientific equipment. Many engineers work for private industry or form their own companies. Others work for large corporations, such as Micron, IBM, Microsoft, Intel, Adobe, Keysight, and Hewlett-Packard.

Engineering also forms a strong foundation for graduate studies in other areas, such as bioengineering, law, business, or (with additional courses in biology and chemistry) medicine. The job placement rate for students graduating from USU's electrical engineering program is nearly 100 percent.

Student Research Opportunities

Undergraduate students are extensively involved with research activities in the department. Electrical engineering majors and computer engineering majors have presented papers at research conferences and have won prizes. They have also designed satellites for deployment from the space shuttle and from rockets. Electrical and Computer Engineering faculty members are dedicated to helping students and providing a challenging and interesting learning atmosphere. For additional information, see the Research section under Graduate Programs.

Financial Support

Scholarships, assistantships, grants-in-aid, and work-study programs are available through the University. In addition, the department employs undergraduate and graduate students to assist in engineering research and development.

Additional Information

For more information about Bachelor of Science requirements and the sequence in which courses should be taken, see Electrical Engineering - BS or Computer Engineering - BS in the online catalog.

Concurrent BS/Master's Program

The concurrent BS/Master's program allows engineering students to begin taking graduate-level classes during their senior year. This permits them to complete requirements for both the BS degree and the Master's degree concurrently in five years. Students in this program have a greater selection of graduate courses, since many graduate courses are taught during alternate years. In addition, the student's senior design project could be a start for a graduate design project or thesis. Both the BS and the Master's degree can generally be earned with 150 total credits. The department requires that students have a minimum GPA of 3.3, both overall and during the last 60 semester credits, in order to qualify for acceptance into the concurrent BS/Master's program. (For more information, see the College of Engineering.

Graduate Programs

Accreditation

Details about the program educational objectives and student outcomes for graduate programs of study can be found at Graduate Assessment.

Admission Requirements

See general admission requirements on the graduate school website. Applicants with a bachelor's degree in Electrical or Computer Engineering from an ABET accredited program and having a 3.0 GPA or better can generally be admitted without restriction. Additional coursework in electrical and computer engineering fundamentals may be required in individual cases. A requirement for the GRE has been temporarily suspended by the department until further notice. All graduate students are expected to have a working knowledge of a high-level computer language (preferably C or C++).

Applications may be considered throughout the year. Generally, students desiring acceptance for the following fall semester should have their applications submitted by January 1 and students desiring acceptance for the following spring semester should have their applications submitted by July 1. Financial aid may be awarded at any time when a student is accepted, based on student qualifications.

No applications will be considered until all required information arrives in the office of the School of Graduate Studies.

Degree Requirements

Specific requirements for the ME, MS, and PhD degrees are outlined in the programs section; these are in addition to the general requirements of the School of Graduate Studies.

Research

The research program of the department, which includes both undergraduates and graduates, is internationally recognized in the fields of space instrumentation and measurements, signal and image processing, communications, electromagnetics, computer architecture, power systems and controls.

The department conducts extensive research through the following centers and labs:

1. Anderson Center for Wireless Teaching and Research
2. Anechoic Chamber
3. Center for Advanced Imaging LADAR (CAIL)
4. Center for Space Engineering (CSE)
5. Electric Vehicle Roadway (EVR)
6. Information Dynamics Laboratory (IDL)
7. Utah NASA Space Grant Consortium
8. Space Dynamics Laboratory (SDL)
9. USU Bridge Lab
10. USU Power Electronics Lab (UPEL)
11. Advancing Sustainability through Powered Infrastructure for Roadway Electrification Lab (ASPIRE)
12. Battery Limits and Survivability Testing Laboratory (BLAST)
13. Uncrewed Aerial Vehicles for Scientific Remote Sensing (AggieAir)
14. Autonomy, Robotics, Control, and Optimization Group (ARCO)
15. Data Science and Artificial Intelligence Group(DSAI)
16. Decision Intelligence for Robotics, Embedded, and Cooperative Technologies (DIRECT Lab)

Research activities include robotics, autonomous air/ground vehicles, control systems, digital system design, computer systems, computer networks, power systems, electric vehicles, antennas, space systems, image processing, digital signal processing, wireless communications, embedded systems, and LADAR/LiDAR systems.

Financial Assistance
All applicants who are accepted academically are automatically considered for financial aid. Many successful graduate students in the department do receive some level of financial aid during their degree program.

FACULTY - College of Engineering

Programs

Computer Engineering - MS
Computer Engineering - BS
Electrical Engineering - Minor
Engineering - Electrical Engineering Specialization - ME
Electrical Engineering - BS
Engineering - Computer Engineering Specialization - ME
Electrical Engineering - MS
Electrical Engineering - PhD
Photonics - Post-Bachelor's Certificate
Space Systems Engineering (ECE) - MS

Courses

ECE1400 - Computer Programming for Electrical and Computer Engineers I - 4 - Credits
ECE1410 - Computer Programming for Electrical and Computer Engineers II - 3 - Credits
ECE2250 - Electrical Circuits I - 3 - Credits
ECE2290 - Electrical Circuits II - 4 - Credits
ECE2420 - Algorithms and Data Structures - 3 - Credits
ECE2700 - Digital Circuits - 4 - Credits
ECE3410 - Microelectronics I - 4 - Credits
ECE3510 - AI Foundations: Representation, Search, and Decision Making - 3 - Credits
ECE3520 - Machine Learning Foundations - 3 - Credits
ECE3610 - Continuous and Discrete-Time Systems and Signals - 4 - Credits
ECE3620 - Continuous - Time Systems and Signals - 3 - Credits
ECE3640 - Discrete - Time Systems and Signals - 3 - Credits
ECE3700 - Digital System Design - 3 - Credits
ECE3710 - Microcontroller Hardware and Software - 4 - Credits
ECE3810 - Engineering Professionalism - 1 - Credits
ECE3870 - Electromagnetics I - 4 - Credits
ECE4250 - Internship/Co-op - 1 - 3 Credits
ECE4510 - Bayesian Inference and Markov Chain Monte Carlo - 3 - Credits
ECE4520 - AI Practicum I: Applied AI Systems - 3 - Credits
ECE4530 - AI Practicum II: Deployment, Evaluation, and Capstone - 3 - Credits
ECE4810 - Engineering Design and Communications 1 - 1 - Credits
ECE4820 - Engineering Design I - 1 - Credits
ECE4830 - Engineering Communications I - 1 - Credits
ECE4840 - Engineering Design II (CI) - 2 - Credits
ECE4850 - Engineering Communications II (CI) - 1 - Credits
ECE5050 - Cryptography - 3 - Credits
ECE5110 - Fundamentals of Electric Power Systems - 3 - Credits
ECE5120 - Introduction to Power Electronics - 3 - Credits
ECE5150 - Power Electronics for Electric Drive Vehicles - 3 - Credits
ECE5160 - Electric Vehicle Design Laboratory - 4 - Credits
ECE5210 - Introduction to Photonics and Devices - 3 - Credits
ECE5230 - Spacecraft Systems Engineering - 3 - Credits
ECE5235 - Space System Design - 3 - Credits
ECE5250 - Photonics Laboratory - 3 - Credits
ECE5310 - Control Systems - 4 - Credits
ECE5320 - Mechatronics - 4 - Credits
ECE5330 - Small Unmanned Aircraft Systems - 3 - Credits
ECE5340 - Introduction to Planning and Control for Mobile Robots - 3 - Credits
ECE5345 - Introduction to the Robot Operating System (ROS) - 1 - Credits
ECE5420 - Microelectronics II - 3 - Credits
ECE5460 - VLSI Design Automation - 3 - Credits
ECE5470 - VLSI Design - 3 - Credits
ECE5480 - VLSI Testing and Security - 3 - Credits
ECE5510 - Reinforcement Learning - 3 - Credits
ECE5520 - Robot Reasoning - 3 - Credits
ECE5540 - AI Architecture: Deployment, Systems, and Real-World Const - 3 - Credits
ECE5600 - Introduction to Computer Networks - 3 - Credits
ECE5610 - Wireless Communication Networks - 3 - Credits
ECE5630 - Digital Signal and Image Processing - 3 - Credits
ECE5640 - Real-Time Processors - 4 - Credits
ECE5650 - Optics I - 3 - Credits
ECE5660 - Communication Systems 1 - 3 - Credits
ECE5700 - Introduction to Microfabrication - 3 - Credits
ECE5710 - Advanced Microfabrication - 3 - Credits
ECE5720 - Computer Systems Programming and Architecture - 3 - Credits
ECE5730 - Reconfigurable Computing - 3 - Credits
ECE5750 - Computer Architecture - 3 - Credits
ECE5760 - Hardware Security - 3 - Credits
ECE5780 - Embedded Real-Time Systems - 4 - Credits
ECE5790 - Principles of Cyber-Physical Systems - 3 - Credits
ECE5795 - Reasoning About Computing Systems: Foundations - 3 - Credits
ECE5800 - Electromagnetics II - 3 - Credits
ECE5810 - Microwave Circuits I - 3 - Credits
ECE5850 - Antennas I - 3 - Credits
ECE5930 - Special Topics in Electrical and Computer Engineering - 1 - 4 Credits
ECE6010 - Stochastic Processes in Electronic Systems - 3 - Credits
ECE6030 - Mathematical Methods for Signals and Systems - 3 - Credits
ECE6040 - Convex Optimization - 3 - Credits
ECE6050 - Cryptography - 3 - Credits
ECE6120 - Introduction to Power Electronics - 3 - Credits
ECE6150 - Power Electronics for Electric Drive Vehicles - 3 - Credits
ECE6160 - Electric Vehicle Design Laboratory - 4 - Credits
ECE6230 - Spacecraft Systems Engineering - 3 - Credits
ECE6235 - Space System Design - 3 - Credits
ECE6240 - Space Environment and Engineering - 3 - Credits
ECE6250 - Graduate Internship/Coop - 1 - 3 Credits
ECE6281 - Systems Approach to Electrified Transportation - 3 - Credits
ECE6282 - AI-Enabled Electrified Transportation Networks - 3 - Credits
ECE6283 - Urban Sustainability and Energy Modeling - 3 - Credits
ECE6284 - Advanced Energy Systems and Grid Modernization - 3 - Credits
ECE6320 - Linear Multivariable Control - 3 - Credits
ECE6340 - Spacecraft Attitude Control Theory - 3 - Credits
ECE6420 - Microelectronics II - 3 - Credits
ECE6460 - VLSI Design Automation - 3 - Credits
ECE6470 - VLSI Design - 3 - Credits
ECE6480 - VLSI Testing and Security - 3 - Credits
ECE6520 - Robot Reasoning - 3 - Credits
ECE6540 - AI Architecture: Deployment, Systems, and Real-World Const - 3 - Credits
ECE6560 - Spacecraft Navigation - 3 - Credits
ECE6570 - Optimal Spacecraft Guidance - 3 - Credits
ECE6610 - Wireless Communication Networks - 3 - Credits
ECE6630 - Digital Signal and Image Processing - 3 - Credits

ECE6650 - Optics I - 3 - Credits
ECE6660 - Communication Systems 1 - 3 - Credits
ECE6730 - Reconfigurable Computing - 3 - Credits
ECE6740 - Advanced Reconfigurable Computing - 3 - Credits
ECE6750 - Computer Architecture - 3 - Credits
ECE6760 - Hardware Security - 3 - Credits
ECE6780 - Embedded Real-Time Systems - 4 - Credits
ECE6790 - Principles of Cyber-Physical Systems - 3 - Credits
ECE6795 - Reasoning About Computing Systems: Foundations - 3 - Credits
ECE6800 - Electrical Engineering Colloquium - 0.5 - Credits
ECE6830 - Microwave Circuits II - 3 - Credits
ECE6930 - Special Topics in Electrical Engineering - 1 - 6 Credits
ECE6950 - Design Project - 3 - Credits
ECE6970 - Thesis Research, MS - 1 - 6 Credits
ECE6990 - Continuing Graduate Advisement - 1 - 6 Credits
ECE7030 - Detection and Estimation Theory - 3 - Credits
ECE7170 - Modeling and Control of Power Electronic Systems - 3 - Credits
ECE7180 - Resonant and Soft-Switching Techniques in Power Electronics - 3 - Credits
ECE7210 - Spacecraft Instrumentation - 3 - Credits
ECE7330 - Nonlinear and Adaptive Control - 3 - Credits
ECE7360 - Optimal Control - 3 - Credits
ECE7560 - Optimal Estimation for Aerospace Systems - 3 - Credits
ECE7630 - Advanced Digital Signal and Image Processing - 3 - Credits
ECE7670 - Coding Theory and Practice in Communication - 3 - Credits
ECE7720 - Parallel Computer Architecture - 3 - Credits
ECE7750 - Distributed Control - 3 - Credits
ECE7860 - Computational Electromagnetics A - 3 - Credits
ECE7890 - Computational Electromagnetics B - 3 - Credits
ECE7930 - Special Topics in Electrical Engineering - 1 - 6 Credits
ECE7970 - Dissertation Research - 1 - 12 Credits
ECE7990 - Continuing Graduate Advisement - 1 - 9 Credits

Engineering Education Department

Engineering Education

Department Head: Ning Fang
Location: ENGR 224
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E-mail: ning.fang@usu.edu
Website: eed.usu.edu

Research

The Department of Engineering Education (EED) has six areas of research that define the research direction for the department, including engineering learning and problem-solving, technology-enhanced learning, online engineering education, K-12 STEM education, engineering workplace and training, and broadening participation in engineering.

Degrees offered: Doctor of Philosophy (Ph.D.) in Engineering Education; Master of Science (M.S.) in Engineering Education.

Full details of the learning objectives, assessment plan, student outcomes, and evidence of continuous improvement for these programs of study can be found at https://engineering.usu.edu/eed/assessment/phd/ and https://engineering.usu.edu/eed/assessment/ms/.

Graduate Programs

Engineering Education (EED)

The Engineering Education (EED) graduate programs prepare students to be engineering instructors, engineering education researchers, and specialists with solid knowledge and skills in:

- Designing and assessing engineering curriculum and engineering knowledge (Ph.D. and M.S.).
- Implementing evidence-based instructional approaches in student-centered engineering learning environments (Ph.D. and M.S.).
- Identifying and synthesizing relevant theories to frame the research problem (Ph.D. and M.S.).
- Applying appropriate and creative research methods to studies in engineering education (Ph.D. and M.S.).
- Understanding engineering education foundations and the role of cognition in engineering education (Ph.D.).
- Developing competitive grant proposals for improving engineering education (Ph.D.).
- Potential job markets after graduation include:
- University or college faculty member.
- University or college administrator.
- Education or training specialist in government and non-profit organizations.

- Education data specialist in government and non-profit organizations.
- Educational hardware/software developer and specialist in the education industry (companies).
- Master's students can also pursue Ph.D. study in engineering education or engineering.

Admission Requirements

Applicants must meet the university's general admission requirements at gradschool.usu.edu/apply/ they must have a:

Bachelor's degree in engineering, engineering technology, or computer science discipline.

Minimum GPA (or equivalent) of 3.0 (out of 4.0) during the most recent 60 semesters (or 90 quarter credits) of college instruction.

International applicants must submit proof of English language proficiency through one of the options specified by the School of Graduate Studies at gradschool.usu.edu/apply/. The requirement for submission of TOEFL or IELTS scores is waived if 1) the applicant's native language is English, or 2) the applicant's undergraduate courses were taught in English.

The requirement for submission of GRE scores is waived for all Ph.D. and M.S. applications.

To apply for a Ph.D. study, applicants are expected to have earned a master's degree which can be in any discipline. Prior teaching experience and publications are preferred but not required.

Applicants must complete the online application gradschool.usu.edu/apply/ which includes:

Online application form.

Official transcript of bachelor's courses.

Official transcript of master's courses (if applicable).

Names and email addresses of three professional references who the USU Graduate School will contact after the online application form is submitted.

Resume or curriculum vitae (i.e., detailed form of resume) highlighting your relevant qualifications and achievements, and typed, single-space written response to each of the following prompts (1-2 pages for each prompt).

Background: How does your background (work, study, and life experiences) prepare and inspire you to pursue a graduate degree? Why are you passionate about engineering education?

Career Goals: What are your career goals? How will a graduate degree further those goals? What do you know about engineering education practices and/or engineering education research?

Why USU: Why is USU the place for you to pursue your EED graduate program? How are your interests aligned with the research conducted within EED? Which professors would you like to work with and why?

Admission Deadlines

The Department of Engineering Education admits and funds selected students on a rolling basis. Applicants can submit their applications anytime. They are encouraged to submit their applications as early as possible, typically 3-4 months before the spring or fall semester. International students are encouraged to apply much earlier to allow sufficient time for visa applications.

Financial Assistance

The Department of Engineering Education offers a limited number of graduate research assistantships to qualified students. These assistantships are provided by the department and by individual members' research projects. Tuition waivers and 80% health insurance coverage are also available for graduate students. For further information, contact the Department of Engineering Education.

Additional Information

Additional information about the Department of Engineering Education and graduate programs can be found on the department website at eed.usu.edu. For inquires, call (435) 797-7467 or email at eedinfo@usu.edu. Student applicants are also welcome to contact individual faculty members.

FACULTY - College of Engineering Faculty

Programs

Engineering Education - MS
Engineering Education - PhD

Courses

EED6090 - Developing an Engineering Education Curriculum - 3 - Credits
EED6150 - Teaching, Learning & Assessment in Engineering Education - 3 - Credits
EED6250 - Academic Writing - 2 - Credits
EED6900 - Independent Study - 1 - 6 Credits
EED6910 - Special Topics in Engineering Education - 1 - 3 Credits
EED6960 - Master's Research Project - 1 - 6 Credits
EED6970 - Master's Thesis Research - 1 - 9 Credits
EED7010 - The Role of Cognition in Engineering Education - 3 - Credits
EED7040 - Qualitative Methods in Engineering Education - 3 - Credits
EED7230 - Foundations of Engineering Education - 3 - Credits
EED7460 - Finance and Grant Writing - 3 - Credits
EED7810 - Research Seminar - 1 - Credits
EED7900 - Independent Study - 1 - 3 Credits
EED7970 - Dissertation Research - 1 - 15 Credits
EED7990 - Continuing Graduate Advisement - 1 - 3 Credits
EEDC6090 - Engineering Course Design - 3 - Credits
EEDC6150 - Assessing Learning and Teaching in Engineering - 3 - Credits
EEDC6450 - Principles of Engineering Teaching and Learning - 3 - Credits
EEDC7310 - E-learning Course and Training Development in Engineering - 3 - Credits
EEDC7900 - Teaching Internship in Engineering Education - 1 - Credits

English Department

English

Department Head: Brian McCuskey
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Director, Graduate Studies (Interim): Jennifer Sinor
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Director, Composition Program: Beth Buyserie
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Director, USU Writing Center: Matthew Whitaker
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Advisement, Undergraduate Studies: Madeline Thomas
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Creative Writing Emphasis: Jennifer Sinor
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English Teaching Emphasis: Ben Gunsberg
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Literature Emphasis: Shane Graham
E-mail: shane.graham@usu.edu

Statewide Coordinator: Nathan Straight
E-mail: nathan.straight@usu.edu

Departmental Honors Advisor: Taylor Rose-Dougherty
E-mail: taylor.dougherty@usu.edu

Degrees offered: Bachelor of Science (BS), Bachelor of Arts (BA), Master of Science (MS), and Master of Arts (MA) in English

Undergraduate emphases: BS, BA in English — Creative Writing, English Teaching, and Literature

Full details of the learning objectives, assessment plan, student outcomes, and evidence of continuous improvement for these programs of study can be found at english.usu.edu/about/assessment/index.

Undergraduate Programs

General Objectives

The twenty-first century has seen significant shifts in everyday life, ranging from more technology and digital media to greater global connection and interaction. USU's English department strives to meet the needs of students today. English courses emphasize knowledge and skills in:

- Inquiry and analysis
- Critical and creative thinking
- Written and oral communication
- Information literacy
- Intercultural knowledge and competence
- Durable skills for lifelong learning

The USU English department prepares students for today's world by providing coursework that addresses these six areas of knowledge and skill with opportunities to both explore and specialize. The English department offers an English major that includes a core set of courses as well as options for exploring. Within the English major, students may choose to focus their studies further by selecting an emphasis in Creative Writing, English Teaching, or Literature.

The English department offers an English Teaching minor and an English minor (Standard Nonteaching). Finally, the English department offers specific courses supporting other fields of specialization, certificates of proficiency, and courses fulfilling University Studies requirements.

Students in the English Teaching major and minor may also apply to the Secondary Teacher Education Program (STEP). See pages for procedures and requirements pertaining to teacher licensure and admission requirements, or go online to: http://www.cehs.usu.edu/

Sample Four-year Plans

Sample semester-by-semester four-year plans for students working toward a bachelor's degree are available in the USU Catalog.

Students should consult with their advisor to develop a plan of study tailored to their individual needs and interests.

Program Assessment

For information about how the English Department assesses its programs, see the assessment page on the English Department website.

Financial Support and Scholarships

Scholarships, assistantships, grants-in-aid, and work-study programs are available through the university. In addition, the English Department employs students as tutors in The Writing Center and oversees internship opportunities for students. Departmental scholarships are available on a competitive basis to current USU students who have declared an English major.

Graduate Programs

The English department offers two graduate programs. For more information on the degrees, including how to apply and other details, please click on the name of the program below.

MA/MS in English (Creative Writing)

The MA/MS in English with a specialization in creative writing allows students to do advanced work in poetry, fiction, or creative nonfiction. Students accepted into the specialization complete workshops in these three genres and study scholarship about creative writing and literature. For their theses, students concentrate on one genre and work closely with faculty mentors who offer expert advice and guidance throughout the thesis-writing process. Hybrid theses that cross genre boundaries and include visual/ audio elements are also welcome. Appearing as poems, stories, essays, and graphic novels, student theses address environmental issues, personal challenges, and historical controversies, among many other topics. The aim of this specialization is to allow students time after their undergraduate work to hone their craft, continue their apprenticeship as a writer, complete a substantial body of work, and pursue publication.

MA/MS in English (Literature, Culture, and Composition)

Graduate students in the Literature, Culture, and Composition specialization (MA/MS in English) work in a tight-knit cohort to examine and analyze the ways in which literature, cultural expression, and rhetorical argumentation shape the world around us. Students take at least one course in each subfield: Literature, Culture, and Composition. In seminars organized around the faculty's research specialties, graduate students discuss material as varied as Nordic mythology, the influence of reggae in contemporary world literature, or agency in the teaching of composition, as well as gain practice presenting at conferences and writing for publication. Over the course of the two-year program, students develop their own research agenda with the support of a committee composed of invested faculty members who help the student navigate the process of developing and conducting a graduate-level research project. This major project, along with graduate-level coursework, prepares students for career paths from academia to the private sector.

College of Arts and Sciences Faculty

Programs

AI and Writing - Certificate
American Studies - Minor
Digital Writing and Publication - Certificate
English - Minor
English - BA, BS
English: Creative Writing Emphasis - BA, BS
English: Teaching Emphasis - BA, BS
English: Literature Emphasis - BA, BS
English - MA
English - MS
English Teaching - Minor
English Teaching Composite - Literature Emphasis - BS (NOT CURRENTLY OFFERED)
English Teaching Composite: Writing Emphasis - BA, BS (NOT CURRENTLY OFFERED)
Medieval and Early Modern Studies - Institutional Certificate of Proficiency
Race, Society, Environment - Minor

Courses

ENGL0990 - Developmental Composition - 3 - Credits
ENGL1010 - Writing as Inquiry (CL1) - 3 - Credits
ENGL1020 - Individualized Writing Instruction - 1 - 3 Credits
ENGL1050 - Community-Engaged Reading and Writing - 3 - Credits
ENGL1055 - Vocabulary - 2 - Credits
ENGL1410 - Elements of Grammar - 3 - Credits
ENGL1500 - Special Topics in English - 1 - Credits
ENGL2000 - Degree and Career Planning for English Majors - 1 - Credits
ENGL2010 - Research and Argument Across Perspectives (CL2) - 3 - Credits
ENGL2020 - Professional Communication (CL2) - 3 - Credits
ENGL2030 - Great Books and Ideas - 3 - Credits
ENGL2040 - Introduction to Writing Studies (BHU) - 3 - Credits
ENGL2050 - Literature by Women (BHU) - 3 - Credits
ENGL2060 - Reading Across Borders (BHU) - 3 - Credits
ENGL2070 - Introduction to Digital Humanities (BHU) - 3 - Credits
ENGL2120 - Literary Magazine - 1 - Credits
ENGL2160 - AI and Writing: Cultural and Historical Perspectives - 3 - Credits
ENGL2200 - Understanding Literature (BHU) - 3 - Credits
ENGL2210 - Introduction to Folklore (BHU) - 3 - Credits
ENGL2220 - Introduction to Fiction (BHU) - 3 - Credits
ENGL2230 - Introduction to Film (BHU) - 3 - Credits
ENGL2240 - Introduction to Poetry (BHU) - 3 - Credits
ENGL2250 - Introduction to Creative Writing (BHU) - 3 - Credits
ENGL2270 - Poetry Writing - 3 - Credits
ENGL2300 - Introduction to Shakespeare (BHU) - 3 - Credits
ENGL2330 - Introduction to Children's Literature (BHU) - 3 - Credits
ENGL2340 - Navajo Literature and Philosophy - 3 - Credits
ENGL2350 - Indigenous Voices (BHU) - 3 - Credits
ENGL2510 - Survey of American Literature I - 3 - Credits
ENGL2520 - Survey of American Literature II - 3 - Credits
ENGL2600 - Literary Analysis - 3 - Credits
ENGL2610 - Survey of British Literature I - 3 - Credits
ENGL2620 - Survey of British Literature II - 3 - Credits
ENGL2630 - Introduction to American Studies (BHU) - 3 - Credits
ENGL2640 - Race and Ethnicity in the United States (BHU) - 3 - Credits
ENGL2720 - Survey of American Folklore - 3 - Credits
ENGL2800 - Utah Stories - 3 - Credits
ENGL2977 - Cooperative Education - 1 - 3 Credits
ENGL2988 - Special Problems - 1 - 3 Credits
ENGL3020 - Perspectives in Linguistics (DHA) - 3 - Credits
ENGL3030 - Perspectives in Literature (DHA) - 3 - Credits
ENGL3040 - Perspectives in Writing and Rhetoric (DHA) - 3 - Credits

ENGL3050 - Masterpieces of World Literature (DHA) - 3 - Credits
ENGL3060 - Mind And Body: The Rhetoric Of Health And Healing (DHA) - 3 - Credits
ENGL3070 - Digital Folklore (DHA) - 3 - Credits
ENGL3140 - Introduction to LGBTQ+ Literature (DHA) - 3 - Credits
ENGL3150 - Science Fiction (DHA) - 3 - Credits
ENGL3160 - AI and Writing Across Disciplines (CI) - 3 - Credits
ENGL3170 - Legal Writing (CI) - 3 - Credits
ENGL3175 - Healthcare and Medical Writing - 3 - Credits
ENGL3180 - Writing for the Public - 3 - Credits
ENGL3185 - Writing for Peace - 3 - Credits
ENGL3190 - Data Storytelling (CI) - 3 - Credits
ENGL3210 - Classical Mythology - 3 - Credits
ENGL3220 - Romance Novels (DHA) - 3 - Credits
ENGL3230 - Young Adult Literature (DHA) - 3 - Credits
ENGL3240 - Writing Family Stories (DHA) - 3 - Credits
ENGL3250 - Travel the World through Literature and Writing (DHA) - 3 - Credits
ENGL3260 - Adapted: Page, Stage, Song, and Screen - 3 - Credits
ENGL3270 - Funny Business (DHA) - 3 - Credits
ENGL3280 - Graphic Novels - 3 - Credits
ENGL3300 - Special Topics in Literary History - 3 - Credits
ENGL3305 - Medieval Literary History - 3 - Credits
ENGL3310 - Resistance and Literature I - 3 - Credits
ENGL3315 - Early Modern British Literary History - 3 - Credits
ENGL3320 - Resistance and Literature II - 3 - Credits
ENGL3325 - Eighteenth-Century British Literary History - 3 - Credits
ENGL3335 - Nineteenth-Century British Literary History - 3 - Credits
ENGL3345 - Literary History of the British Isles Since 1900 - 3 - Credits
ENGL3355 - Literary History of the Early Americas - 3 - Credits
ENGL3365 - Nineteenth-Century American Literary History - 3 - Credits
ENGL3375 - Literary History of the Americas Since 1900 - 3 - Credits
ENGL3385 - Postcolonial World Literature - 3 - Credits
ENGL3395 - World Literature in Translation - 3 - Credits
ENGL3420 - Fiction Writing - 3 - Credits
ENGL3430 - Poetry Writing - 3 - Credits
ENGL3440 - Creative Nonfiction Writing - 3 - Credits
ENGL3470 - Approaches to Research (QI) - 3 - Credits
ENGL3480 - Writing for Games - 3 - Credits
ENGL3500 - Teaching English - 2 - Credits
ENGL3510 - Teaching Young Adult Literature - 3 - Credits
ENGL3530 - Children's Literature - 3 - Credits
ENGL3610 - Multicultural American Literature - 3 - Credits
ENGL3620 - Native American Studies - 3 - Credits
ENGL3630 - The Farm in Literature and Culture (CI/DHA) - 3 - Credits
ENGL3640 - Nature Writing (DHA) - 3 - Credits
ENGL3700 - Regional Folklore (DHA) - 3 - Credits
ENGL3710 - Topics in Folklore (CI) - 3 - Credits
ENGL3720 - Children's Folklore (DHA) - 3 - Credits
ENGL3830 - The History of Yoga - 3 - Credits
ENGL4200 - Linguistic Structures - 3 - Credits
ENGL4210 - History of English: Change and Diversity - 3 - Credits
ENGL4220 - Language and Writing: A History - 3 - Credits
ENGL4230 - Language and Culture (DSS) - 3 - Credits
ENGL4250 - Playwriting - 3 - Credits
ENGL4260 - U.S. Languages: Diversity and History - 3 - Credits
ENGL4300 - Shakespeare - 3 - Credits
ENGL4310 - American Writers - 3 - Credits
ENGL4320 - British Writers - 3 - Credits
ENGL4330 - World Writers - 3 - Credits
ENGL4340 - Studies in Fiction - 3 - Credits
ENGL4345 - Studies in Nonfiction - 3 - Credits
ENGL4350 - Studies in Poetry - 3 - Credits
ENGL4360 - Studies in Drama - 3 - Credits
ENGL4365 - Studies in Film - 3 - Credits
ENGL4370 - Native American Literature - 3 - Credits
ENGL4375 - U.S. Latinx Literature - 3 - Credits
ENGL4380 - African American Literature - 3 - Credits
ENGL4390 - Contemporary Literature (CI) - 3 - Credits
ENGL4420 - Advanced Fiction Writing (CI) - 3 - Credits
ENGL4430 - Advanced Poetry Writing (CI) - 3 - Credits
ENGL4440 - Advanced Nonfiction Writing (CI) - 3 - Credits
ENGL4500 - Teaching Writing (CI) - 3 - Credits
ENGL4510 - Teaching Literature (CI) - 3 - Credits
ENGL4520 - Teaching Literacy in English Language Arts Classrooms - 2 - Credits
ENGL4530 - English Clinical Experience - 1 - Credits
ENGL4540 - Teaching Creative Writing - 3 - Credits
ENGL4610 - Western American Literature (CI/DHA) - 3 - Credits
ENGL4630 - Environmental Justice Literature - 3 - Credits
ENGL4640 - Studies in the American West (CI) - 3 - Credits
ENGL4650 - Utah's Public Lands: Past, Present, Future (DHA/HASS) - 3 - Credits
ENGL4700 - Folk Material Culture (DHA) - 3 - Credits
ENGL4750 - Advanced Folklore Workshop: Fife Conference - 3 - Credits
ENGL4900 - Internship/Cooperative Work Experience - 1 - 15 Credits
ENGL4910 - Tutoring Practicum - 1 - Credits
ENGL5210 - Topics in Linguistics - 3 - Credits
ENGL5300 - Special Topics in Literature (CI) - 3 - Credits
ENGL5320 - Gender and Sexuality in Literature (CI) - 3 - Credits
ENGL5330 - Race and Ethnicity in Literature (CI) - 3 - Credits
ENGL5340 - Multimedia Literature (CI) - 3 - Credits
ENGL5450 - Special Topics in Creative Writing - 3 - Credits
ENGL5690 - American Studies Capstone Seminar (CI) - 3 - Credits
ENGL5700 - Folk Narrative - 3 - Credits
ENGL5900 - Senior Honors Seminar - 1 - 3 Credits
ENGL5910 - Senior Honors Thesis (CI) - 1 - 6 Credits
ENGL5920 - Directed Study - 1 - 3 Credits
ENGL6320 - Literary Theory - 3 - Credits
ENGL6330 - Topics in Literary Study - 3 - Credits
ENGL6340 - British Literature and Culture - 3 - Credits
ENGL6350 - American Literature and Culture - 3 - Credits
ENGL6360 - World Literature and Culture - 3 - Credits
ENGL6600 - Introduction to American Studies - 3 - Credits
ENGL6610 - Seminar on the American West - 3 - 4 Credits
ENGL6620 - Seminar in Native American Studies - 3 - 4 Credits
ENGL6630 - Studies in Film and Popular Culture - 3 - Credits
ENGL6810 - Introduction to Composition Studies - 3 - Credits
ENGL6815 - Writing Studies Research Methods - 3 - Credits
ENGL6820 - Practicum in Teaching English - 3 - Credits
ENGL6840 - Multilingual Writing and Pedagogies - 3 - Credits
ENGL6880 - Topics in Creative Writing - 3 - Credits
ENGL6882 - Fiction Writing Workshop - 3 - Credits
ENGL6883 - Poetry Writing Workshop - 3 - Credits
ENGL6884 - Creative Nonfiction Writing Workshop - 3 - Credits
ENGL6890 - Studies in Writing and Rhetoric - 3 - Credits
ENGL6895 - Critical Rhetorics and Pedagogies - 3 - Credits
ENGL6900 - Graduate Internship - 1 - 15 Credits
ENGL6920 - Directed Study - 1 - 6 Credits
ENGL6970 - Thesis - 1 - 6 Credits
ENGL6990 - Continuing Graduate Registration - 1 - 6 Credits
ENGL7890 - Studies in Writing and Rhetoric - 3 - Credits
ENGL7990 - Continuing Graduate Advisement - 1 - 9 Credits

Environment & Society Department

Environment and Society

Department Head: Claudia Radel
Location: Natural Resources 201
Phone: (435) 797-0535
Website: qanr.usu.edu/envs

Undergraduate Advisor: Wakefield Harper, Natural Resources 122, (435) 797-7883, wakefield.harper@usu.edu; qanr.usu.edu/advising

Degrees: Bachelor of Science (BS) in Environmental Studies; BS in Environmental Science and Sustainability; BS and Master of Science (MS) in Recreation Resource Management; BS and MS in Geography; MS and PhD in Environment and Society; MS and PhD in Ecology; Professional Master's in Natural Resources (MNR)

Undergraduate degree emphases: *Geography BS*—Human-Environment Geography, Geographic Information Science

Undergraduate Certificates: Applied GIS; Climate Change Solutions; Drones for Natural Resource and Environmental Management; Environmental and Natural Resource Law and Policy; Remote Sensing and Geospatial AI Foundations

Graduate Certificates: Applied Remote Sensing and Geospatial AI; Geographic Information Science (GIS); Natural Resources and Environmental Communication and Engagement (NRECE)

Full details of the learning objectives, assessment plans, student outcomes, and evidence of continuous improvement for these programs of study can be found at qanr.usu.edu/envs/about/assessment

Undergraduate Programs

Degree Objectives

The Department offers the following undergraduate degree programs: Environmental Science and Sustainability, Environmental Studies, Geography, and Recreation Resource Management. Each of these programs offers a balanced exposure to key ideas and principles of the social, biological, and physical sciences, placing different emphasis on the human dimensions of natural resources and environmental management. The Department's goal is to train professionals who can lead the way toward finding and keeping a sustainable balance between protecting the environment and enhancing human societies.

Departmental programs offer learning experiences in the classroom and in the field, as well as frequent individual contacts with faculty as teachers and advisors. Seasonal employment, internships, and other activities promoting hands-on experience in natural resource and geographic professions are strongly encouraged.

The **Environmental Studies** curriculum is designed for students who wish to acquire a broad understanding of natural resources and human-environment relationships, together with the technical background needed to understand environmental issues. Through selection of electives, it provides an opportunity for students to focus on areas of interest, depending upon their career goals.

The **Environmental Science and Sustainability** curriculum focusses on human interactions with the natural environment and provides foundational knowledge of biological, chemical, and physical principles integrated with environmental social science on human behavior, decision-making, and policy. Compared to Environmental Studies, the Environmental Science and Sustainability curriculum provides a stronger foundation in the natural sciences and opportunities for added natural science depth.

The **Geography** degree is designed to provide a broad education built around new tools and new knowledge in geography that will be critical for a student's future success. Students choose one of two areas of emphasis: Human-Environment Geography or Geographic Information Science. These emphases represent two important directions of geography in the twenty-first century.

The **Recreation Resource Management** curriculum prepares students for careers in planning and management of visitor use in wildland recreation settings such as state and national parks, forests, monuments, and wilderness areas. Because such jobs require an understanding of the landscape, its natural resources, and the people who visit, the major offers courses in both the biophysical and social sciences, along with an emphasis on communication and collaboration skills.

The Department offers minors in Environmental Studies, Geography, Geography Teaching, Recreation Resource Management, and Sustainable Systems.

Environment and Society Certificates

The Department offers certificates in Applied Geographic Information Science (GIS), Climate Change Solutions, Drones for Natural Resource and Environmental Management, Environmental and Natural Resource Law and Policy, and Remote Sensing and Geospatial Artificial Intelligence (AI) Foundations. The Applied Geographic Information Science (GIS) Certificate is designed for undergraduate students wanting skills and experience applying industry standard GIS and remote sensing tools to natural resource issues. The Remote Sensing and Geospatial AI Foundations Certificate introduces students to the development and application of artificial intelligence to remote sensing and data-driven geospatial methods and complements the Applied GIS Certificate. The Climate Change Solutions Certificate prepares students to help address the societal challenges of climate change by developing knowledge and skills for climate change mitigation, adaptation, and resilience. Students who complete the Drones for Natural Resource and Environmental Management Certificate can use unmanned aircraft systems (drones) and the data they can help collect for application to environmental and natural resource management and decision-making. The Environmental and Natural Resource Law and Policy Certificate provides students with knowledge of environmental and natural resource law and policy and associated processes, including existing legal and policy structures and frameworks.

Requirements

Admission Requirements

Admission requirements for the Department of Environment and Society are specific to each program and are detailed on each program's Catalog page.

Graduation Requirements

All courses listed as major subject courses must be taken on an *A-B-C-D-F* basis. A grade of *C-* or better is required for all ENVS, GEOG, WATS, or WILD courses used to satisfy the requirements for a major in the Department of Environment and Society. The grade point average for all courses with these prefixes must be 2.5 or higher.

Equivalents of required foundation courses may be taken at many two- and four-year colleges. Students should consult an academic advisor if they have transfer questions or questions about university graduation requirements.

Recommended Four-year Plans

Students should consult with the Department's undergraduate advisor to develop a semester by semester four-year plan of study tailored to their individual needs and interests.

Financial Assistance

The main opportunities for undergraduates to find financial support through grants, work-study, and loans are found in Financial Aid and Scholarship Information. Some students may be able to find paid internships with private or governmental organizations or work for a faculty member on a research project. Interested persons should contact the Natural Resources Academic Service Center for more information on scholarships for undergraduate students.

National Honor Society with Chapter at USU-Gamma Theta Upsilon

Gamma Theta Upsilon (GTU) is an international honor society for the discipline of geography. Membership is earned through superior scholarship both within and beyond geography. GTU was founded in the United States in 1928, and the USU chapter, Zeta Pi, was founded in 1982. Joining members pay one-time national organizational dues. Benefits include lifetime membership and eligibility for national GTU scholarships (gammathetaupsilon.org).

Membership in Zeta Pi is by invitation, based on an annual screening to identify students who meet the eligibility requirements. To be invited to join, students must have a GPA of at least 3.3 (on a 4.0 scale) in geography courses, rank in the top 35% of their class, have completed a minimum of 3 geography courses, and have completed at least 3 semesters of full-time college course work. Members do not need to be geography majors. New members at USU are inducted into GTU every April or May.

Chapter Co-Advisors: Dr. Peter Howe (peter.howe@usu.edu) and Dr. Claudia Radel (claudia.radel@usu.edu), Department of Environment and Society.

University Honors Program

The University Honors Program offers students in all colleges and majors the unique opportunity to deepen their educational experience with hands-on practical applications of their academic knowledge. The Honors Program admits incoming, transfer, and existing USU students based on application. High achieving students with at least one year remaining are encouraged to apply. See the University Honors Program catalog entry and website (honors.usu.edu) for more information.

Additional Information

For additional information about the Bachelor of Science requirements, course sequencing, and departmental emphasis areas and their related coursework, as well as updated information describing current programs and courses offered by the Department of Environment and Society, visit the Environment and Society main office, Natural Resources 201, or visit: www.qanr.usu.edu/envs.

Graduate Programs

Admission Requirements and Programs Overview

See general university graduate admission requirements. Applicants for graduate study in the Department of Environment and Society should have a bachelor's degree from an accredited college or university, and an overall GPA of at least 3.0 (out of 4.0). Foreign students must also demonstrate English proficiency. Exceptions to these standards will be considered on a case-by-case basis. Written statements of interest help match applicants with faculty advisors, and guidance for these statements can be found on the departmental website. A faculty member must agree to serve as the major professor in order for an applicant to be accepted. Prospective students are encouraged to contact faculty members early in the application process to investigate mutual interests, projects, and prospects for financial support.

The Department's graduate programs focus on providing students with a broad foundation in the social and natural sciences as they relate to the study, planning, and management of natural resources and the environment. The curriculum is designed to enhance interdisciplinary integration by emphasizing current and future environmental issues facing humanity. Coursework and research are focused on problem-solving through the application of social science research methods, case studies, computer mapping, and other analytical techniques. A specialization in climate adaptation science can be added to any of the Department's graduate programs.

The Department values intellectual, academic, and social diversity in the applicants for graduate study. Mature professionals seeking education to augment life experiences, or practical training to pursue new career paths, are also encouraged to apply. Knowledge gaps will be identified early in a student's program and addressed on a case-by-case basis through agreements between students and their graduate advisory committees.

Master of Natural Resources

In addition to its Master of Science and Doctor of Philosophy programs, the Department also participates in the Master of Natural Resources (MNR). This is a non-thesis master's degree program designed for students and practicing professionals seeking advanced training in natural resource management, with an emphasis on collaboration and interdisciplinary teamwork.

Graduate Certificates

The Natural Resources and Environmental Communication and Engagement (NRECE) program provides graduate students with the opportunity for, and certification of, knowledge- and skill-building in environmental communication and community engagement. Program outcomes focus on a broad range of communication strategies within the knowledge and action domains of natural resource management and the socio-ecological and environmental sciences.

The Geographic Information Science (GIS) graduate certificate is designed for graduate students or professionals wanting skills and experience applying industry standard GIS and remote sensing tools to natural resource issues. The Applied Remote Sensing and Geospatial Artificial Intelligence (AI) program introduces advance students, with a Geographic Information Science (GIS) background, to the development and application of artificial intelligence to remote sensing and data-driven geospatial methods.

Research

The generation of new knowledge through research is one of the key contributions that an academic department makes to professions and society at large. Research is also a major venue for the interaction of graduate students and faculty in the Department of Environment and Society. Although faculty and students work on many different issues, the research strives to be interdisciplinary and focuses on merging the relevant social and natural sciences. Work is undertaken in Utah, elsewhere in the United States, and internationally. Funding comes from a variety of public and private sources.

Financial Assistance

General aspects of financial support for graduate students at Utah State University are listed in the *Graduate Financial Assistance* section. This includes important information on university-wide policies and terms of reference for research and teaching assistantships, graduate tuition obligations and benefits, Western Regional Graduate Programs, and competitive university-wide fellowships and scholarships.

The Department of Environment and Society intends that all graduate students be financially supported. Graduate research assistantships are available through major professors having contracts, grants, or other awards. Internships may also be created on a case-by-case basis. A student may want to author or co-author a proposal with a faculty member to fund a new initiative. There are also open competitions for graduate scholarships and fellowships through the S.J. and Jessie E. Quinney College of Agriculture and Natural Resources. The department also has a few graduate teaching assistantships where graduate students typically help instructors with teaching, grading, or recitation in large courses. Interested persons should contact the department early in the application process for more information on financial assistance for graduate students. Prospective students may also visit www.qanr.usu.edu/envs.

FACULTY - S.J. & Jessie E. Quinney College of Natural Resources

Programs

Applied Geographic Information Science - Certificate
Applied Remote Sensing and Geospatial Artificial Intelligence - Post-Bachelor's Certificate
Climate Change Solutions - Certificate
Drones for Natural Resource and Environmental Management - Certificate
Ecology - Environment and Society - MS
Ecology - Environment and Society - PhD
Environmental and Natural Resource Law and Policy - Certificate
Environmental Studies - Minor
Environmental Studies - BS
Environment and Society - MS
Environment and Society - PhD
Environmental Science and Sustainability - BS
Geography - Geographic Information Science Emphasis - BS
Geography - Minor
Geography - MS
Geography Teaching - Minor
Geography - Human Environment Geography Emphasis - BS
Natural Resources and Environmental Communication and Engagement (NRECE) - Post-Bachelor's Certificate
Recreation Resource Management - MS
Recreation Resource Management - Minor
Recreation Resource Management - BS
Remote Sensing and Geospatial Artificial Intelligence Foundations - Certificate
Sustainable Systems - Minor

Courses

ENVS1350 - Introduction to Environmental Science (BLS) - 3 - Credits
ENVS2000 - Natural Resource Professional Orientation - 1 - Credits
ENVS2250 - Introductory Internship/Co-op - 1 - 3 Credits
ENVS2340 - Environment, Natural Resources, and Society (BSS) - 3 - Credits
ENVS3010 - Natural Resource and Environmental Policy - 3 - Credits
ENVS3300 - Fundamentals of Natural Resource Recreation Management - 3 - Credits
ENVS3320 - Archaeology of Climate Change (DSS) - 3 - Credits
ENVS3400 - Fundamentals of Tourism - 3 - Credits
ENVS3500 - Environmental Data Science (QI) - 3 - Credits
ENVS3600 - Living with Wildlife (DSC) - 3 - Credits
ENVS4000 - Human Dimensions of Natural Resource Management (DSS) - 3 - Credits
ENVS4020 - Foundations of Environmental Thought (DHA/CI) - 3 - Credits
ENVS4030 - Building Community Environmental Resilience - 3 - Credits
ENVS4130 - Natural Resource Recreation Policy and Planning - 3 - Credits
ENVS4200 - Sustainability Metrics - 3 - Credits
ENVS4250 - Advanced Internship/Co-op - 1 - 9 Credits
ENVS4350 - Ecological Economics - 3 - Credits
ENVS4500 - Advanced Natural Resource Recreation Management (CI) - 3 - Credits
ENVS4550 - Recreation Use Monitoring and Assessment (QI) - 3 - Credits
ENVS4700 - Communicating Sustainability (CI) - 3 - Credits
ENVS4750 - Global Change Ecology - 3 - Credits
ENVS4920 - Special Projects in Natural Resource Recreation Management - 3 - Credits
ENVS4950 - Special Topics - 1 - 3 Credits
ENVS4960 - Directed Readings - 1 - 3 Credits
ENVS4970 - Undergraduate Research - 1 - 3 Credits
ENVS4980 - Environment and Society Departmental Colloquium - 1 - Credits
ENVS5000 - Environmental Nonprofit and Volunteer Management - 3 - Credits
ENVS5020 - Human Dimensions of Fire Management - 3 - Credits
ENVS5100 - Introduction to Modeling Human-Environment Systems - 3 - Credits
ENVS5200 - Anthropological Perspectives on Conservation - 3 - Credits
ENVS5300 - Natural Resources Law and Policy - 2 - Credits
ENVS5320 - Water Law and Policy in the United States - 3 - Credits
ENVS5350 - Ecological Economics - 3 - Credits
ENVS5550 - Sustainability: Concepts and Measurement - 3 - Credits
ENVS5600 - Natural Resource Interpretation - 3 - Credits
ENVS5750 - Global Change Ecology - 3 - Credits
ENVS5800 - Environment and Society Departmental Colloquium - 1 - Credits
ENVS5820 - Field Studies in Environmental Conservation and Sustainability - 3 - Credits
ENVS6010 - Applying Human Dimensions Concepts to Natural Resource Management - 3 - Credits
ENVS6020 - Human Dimensions of Fire Management - 3 - Credits
ENVS6100 - Introduction to Modeling Human-Environment Systems - 3 - Credits
ENVS6110 - Human Dimensions of Wildlife Management - 3 - Credits
ENVS6130 - Policy Aspects of Wildland Recreation - 3 - Credits
ENVS6240 - Graduate Internship/Co-op - 1 - 9 Credits
ENVS6300 - Conservation Psychology - 3 - Credits
ENVS6310 - Introduction to Environmental Laws and Policy - 3 - Credits
ENVS6320 - Water Law and Policy in the United States - 3 - Credits
ENVS6350 - Ecological Economics - 3 - Credits
ENVS6400 - Recreation Ecology - 3 - Credits
ENVS6410 - Translational Ecology - 3 - Credits
ENVS6500 - Behavioral Aspects of Wildland Recreation - 3 - Credits
ENVS6530 - Natural Resources Administration - 3 - Credits
ENVS6550 - Sustainability: Concepts and Measurement - 3 - Credits
ENVS6580 - Sustainable Nature-Based Tourism - 3 - Credits
ENVS6600 - Natural Resource Interpretation - 3 - Credits
ENVS6750 - Global Change Ecology - 3 - Credits

ENVS6800 - Environment and Society Departmental Colloquium - 1 - Credits
ENVS6840 - Graduate Orientation Seminar for Environment and Society - 1 - Credits
ENVS6841 - The Socio-Environmental Research Process - 1 - Credits
ENVS6842 - Methodology for Socio-Environmental Research - 1 - Credits
ENVS6870 - Ecology Seminar - 1 - Credits
ENVS6889 - Environmental Risks and Decision Making - 1 - Credits
ENVS6900 - Graduate Special Topics - 1 - 6 Credits
ENVS6910 - Directed Study - 1 - 6 Credits
ENVS6970 - Thesis Research - 1 - 12 Credits
ENVS6990 - Continuing Graduate Advisement - 1 - 9 Credits
ENVS7300 - Conservation Psychology - 3 - Credits
ENVS7800 - Environment and Society Departmental Colloquium - 1 - Credits
ENVS7840 - Graduate Orientation Seminar for Environment and Society - 1 - Credits
ENVS7841 - The Socio-Environmental Research Process - 1 - Credits
ENVS7842 - Methodology for Socio-Environmental Research - 1 - Credits
ENVS7900 - Graduate Special Topics - 1 - 6 Credits
ENVS7910 - Directed Study - 1 - 6 Credits
ENVS7970 - Dissertation Research - 1 - 12 Credits
ENVS7990 - Continuing Graduate Advisement - 1 - 9 Credits
ENVSELEC - Environment and Society Elective Credit - 3 - Credits
GEOG1000 - Physical Geography (BPS) - 3 - Credits
GEOG1005 - Physical Geography Lab - 1 - Credits
GEOG1300 - World Geography: Human and Environmental Dynamics (BSS) - 3 - Credits
GEOG1400 - Human Geography (BSS) - 3 - Credits
GEOG2340 - Environment, Natural Resources, and Society (BSS) - 3 - Credits
GEOG2800 - Introduction to Geographic Information Sciences - 4 - Credits
GEOG3100 - Human-Environment Geography (CI) - 3 - Credits
GEOG3200 - Principles of Remote Sensing - 3 - Credits
GEOG3430 - Political Geography (CI/DSS) - 3 - Credits
GEOG3700 - Python Programming for GIS - 3 - Credits
GEOG3800 - Geospatial Data Visualization - 3 - Credits
GEOG4210 - Geography of Utah - 3 - Credits
GEOG4220 - International Regional Geography - 3 - Credits
GEOG4400 - Natural Hazards and Society - 3 - Credits
GEOG4900 - GIS Individual Projects - 1 - 3 Credits
GEOG4910 - Geographic Information Science Portfolio - 1 - Credits
GEOG4920 - GIS Internship - 1 - 6 Credits
GEOG4950 - Special Topics - 1 - 4 Credits
GEOG5120 - Environment and Development in Latin America (CI) - 3 - Credits
GEOG5300 - Geospatial Analysis with R - 3 - Credits
GEOG5400 - Natural Hazards and Society - 3 - Credits
GEOG5500 - Advanced Geographic Information Sciences (GIS) - 3 - Credits
GEOG5805 - Introduction to Geospatial Artificial Intelligence: The Remote Sensing and GeoAI Frontier - 3 - Credits
GEOG5815 - Insights from Above: Processing and Analyzing Drone Data - 1 - Credits
GEOG5825 - Geospatial Artificial Intelligence, Ethics, & Society - 1 - Credits
GEOG5880 - Remote Sensing & GeoAI Internship - 1 - 3 Credits
GEOG5890 - Project Design and Implementation for Remote Sensing & GeoAI - 1 - 3 Credits
GEOG6100 - GIS Fundamentals - 1 - Credits
GEOG6120 - Environment and Development in Latin America - 3 - Credits
GEOG6220 - Data Visualization Principles and Practice - 3 - Credits
GEOG6300 - Geospatial Analysis with R - 3 - Credits
GEOG6400 - Natural Hazards and Society - 3 - Credits
GEOG6500 - Advanced Geographic Information Sciences (GIS) - 3 - Credits
GEOG6800 - GIS Advanced Individual Projects - 1 - 3 Credits
GEOG6805 - Introduction to Geospatial Artificial Intelligence: The Remote Sensing and GeoAI Frontier - 3 - Credits
GEOG6815 - Insights from Above: Processing and Analyzing Drone Data - 1 - Credits
GEOG6825 - Geospatial Artificial Intelligence, Ethics, & Society - 1 - Credits
GEOG6835 - Geovisualization for Remote Sensing Applications - 1 - Credits
GEOG6855 - Advanced Geospatial Artificial Intelligence - 3 - Credits
GEOG6880 - Advanced Remote Sensing & GeoAI Internship - 2 - 3 Credits
GEOG6890 - Advanced Project Design and Implementation for Remote Sensing & GeoAI - 1 - 3 Credits
GEOG6900 - Graduate Special Topics - 1 - 4 Credits
GEOG6920 - Field Experiences in Development Geography - 1 - 6 Credits
NEPA6200 - How to Manage the NEPA Process and Write Effective NEPA Documents - 2 - Credits
NEPA6210 - Clear Writing for NEPA Specialists - 2 - Credits
NEPA6220 - Reviewing NEPA Documents - 2 - Credits
NEPA6230 - Risk Communication for NEPA Specialists: Strategies and Implementation - 1 - Credits
NEPA6260 - Cultural and Natural Resource Compliance - 2 - Credits
NEPA6310 - NEPA Writing for Technical Specialists - 1 - Credits
NEPA6320 - NEPA: Cumulative Impacts - 1 - Credits
NEPA6360 - Overview of the Endangered Species Act - 1 - Credits
NEPA6370 - NEPA Capstone Experience - 1 - Credits
NEPA6380 - NEPA Process Management - 1 - Credits
NEPA6390 - NEPA Climate Change Analysis - 1 - Credits
NEPA6410 - NEPA Administrative Record and Document Management - 1 - Credits
NEPA6420 - Tools for Efficient NEPA - 1 - Credits
NEPA6430 - Environmental Justice for NEPA - 1 - Credits
NEPA6440 - Overview of the Marine Mammal Protection Act - 1 - Credits

Geosciences Department

Geosciences

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Undergraduate Faculty Advisors:
Thomas E. (Dr Tom) Lachmar, Geology 305A, tom.lachmar@gmail.com
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Katherine (Katie) E. Potter, Geology 204, katie.potter@usu.edu

Graduate Committee:
Tammy Rittenour (Graduate Director), Geology 110, (435) 213-5756, tammy.rittenour@usu.edu
Kelly Bradbury (Graduate Program Coordinator), Geology 112, (435) 797-0515, kelly.bradbury@usu.edu

Degrees offered: Bachelor of Science (BS) and Bachelor of Arts (BA) in Geology, BS and BA in Environmental Geoscience, BS and BA in Earth Science Teaching, Master of Science (MS), and Doctor of Philosophy (PhD) in Geology; MS in Applied Environmental Geoscience

Undergraduate emphases: *BS in Geology*—Professional Emphasis, and Hydrogeology-Engineering Emphasis

Graduate specializations: *MS in Geology*—Geomorphology and Earth Surface Processes, Geophysics, Hydrogeology, Petrology and Geochemistry, Sedimentology and Paleoecology, Structure and Tectonics, and Climate Adaptation Science; *PhD in Geology*—Geomorphology and Earth Surface Processes, Geophysics, Hydrogeology, Petrology and Geochemistry, Sedimentology and Paleoecology, Structure and Tectonics, and Climate Adaptation Science

Undergraduate Programs
The Geosciences, or Earth Sciences, include classical Geology as well as interdisciplinary study of the solid Earth's interactions with water and hydrologic systems, climate systems, and biologic systems. Geoscientists use approaches from other disciplines to study our planet, such as in geophysics, geochemistry, hydrology, and paleobiology and paleoecology. Geoscientists have important roles in the discovery and management of mineral, energy, and water resources, environmental and natural-hazard studies, land management, climate adaptation, and education.

The Department of Geosciences at Utah State University focuses on research and education on Earth materials, the physical and chemical processes acting upon them, how landscapes evolve under those processes, and the history of Earth and its life. We offer a modern geosciences curriculum that integrates rigorous field-oriented instruction with groundbreaking computational modeling, experimental, and analytical work supported by in-house laboratory resources.

The goals of the Geosciences undergraduate programs are to equip students with the fundamental knowledge and skills involved in the diverse fields of geosciences, to teach students to think like a scientist, and to impart professional skills students will need in their careers.

Four program options are offered to meet the growing demand for geoscientists with broad technical and professional training: 1) Geology (BS/BA); 2) Environmental Geoscience (BS/BA); 3) Geology: Professional emphasis; and 4) Geology: Hydrogeology-Engineering emphasis. The **BS/BA in Environmental Geoscience** is an interdisciplinary program that is tailored to combine parts of the traditional geology curriculum with a variety of courses in related subject areas, such as watershed sciences, soils, biology, statistics, and GIS/remote sensing. The **Geology: Professional emphasis** is designed to provide practical and professional training for employment with a bachelor's degree and to lead to professional geologist licensure. The **Geology: Hydrogeology-Engineering emphasis** combines engineering coursework and core geology for careers in geo-engineering consulting.

The department also offers the **Earth Science Teaching BS/BA** to prepare teachers of Earth Science at the secondary school level. Requirements for this major meet or exceed the standards of the National Science Teachers Association. Those students who major in Earth Science should be aware that state licensure is required of secondary education teachers. The Earth Science Teaching major fulfills the requirements that provide eligibility for licensure. Advising for the Secondary Teacher Education Program (STEP) and state of Utah secondary education licensure is provided by the USU School of Teacher Education and Leadership (TEAL).

Requirements
Departmental Admission Requirements
New freshmen admitted to USU in good standing qualify for admission to this major. Transfer students from other institutions and students transferring from other USU majors need a 2.5 GPA for admission to this major in good standing. Students seeking admission to the Earth Science Teaching major should be aware that a 3.0 minimum GPA is required for admission to the Secondary Teacher Education Program (STEP) in the School of TEAL. Students in the Geology: Hydrogeology-Engineering emphasis must meet College of Engineering GPA standards appropriate for the courses to be taken having either the ENGR or CEE prefix.

Field Trips and Labs
Many courses associated with Geosciences undergraduate and graduate programs have required laboratories and/or field trips. Those enrolled are expected to dress properly for the conditions and observe safety precautions issued by the instructors. Most courses with associated labs require lab fees.

Senior Thesis
Geology majors in good academic standing may elect to complete a senior thesis. This is an optional endeavor which normally spans a year in its preparation and completion. Senior thesis credits may be applied toward the elective requirements in the general Geology BS/BA option. For further information, students should contact a faculty member to discuss potential senior thesis projects and mentorship. Gaining upper-level course credit for completing a senior thesis can be coordinated by undergraduate faculty advisor Tom Lachmar.

Suggested Degree Maps
Suggested semester-by-semester degree maps for students working toward a bachelor's degree are available in the Geosciences Department.

Students should consult with their advisors to develop a plan of study tailored to their individual needs and interests.

University Honors Program
The University Honors Program offers students in all colleges and majors the unique opportunity to deepen their educational experience with hands-on practical applications of their academic knowledge. The Honors Program admits incoming, transfer, and existing USU students based on application. High-achieving students with at least one year remaining are encouraged to apply. See the University Honors Program catalog entry and website (**honors.usu.edu**) for more information.

Undergraduate Research Opportunities
The Department of Geosciences offers a range of opportunities for undergraduate students to participate in research activities under the guidance of a faculty mentor. Gaining upper-level course credit for undergraduate research activities can be coordinated by undergraduate faculty advisor Tom Lachmar, tom.lachmar@gmail.com.

Learning Objectives
Upon graduation, Geology majors are expected to have a series of critical geoscience and professional skills. To learn more about these, as well as a listing of specific geoscience learning objectives, visit https://qanr.usu.edu/geo/assessment/undergraduate/learning-objectives.

Assessment
The Department of Geosciences relies on a variety of tools to periodically assess its undergraduate program, including: (1) student input in assessment; (2) value-added assessment; (3) college-level assessment; (4) alumni participation in assessment; and (5) faculty program assessment. For more information, please refer to the Geosciences Department assessment website at https://qanr.usu.edu/geo/assessment/undergraduate/assessment-plan

Additional Information
For more information about bachelor's degree requirements for Geosciences programs, contact the advisors listed above.

Graduate Programs
The Department of Geosciences offers three graduate degree programs. Two are research-oriented, plan-A tracks – the **PhD and MS in Geology**, whereas the **MS in Applied Environmental Geoscience** is a coursework-intensive, plan-B program. To learn more about these programs and their requirements, visit **geo.usu.edu/graduate-program/degree-requirements**.

Admission Requirements
Applicants must have an acceptable GPA. For the Master of Science program, a GPA of 3.0 is required. For the PhD program, a GPA of 3.4 is required. For both programs, a member of the Geology faculty must agree to serve as the major professor for the applicant prior to acceptance.

Applications will be considered throughout the year, but program entry in fall semester is preferred. Students who wish to be considered for assistantships or other financial aid must have complete applications on file no later than the first week of January for entry into the program the following fall semester.

Prerequisites for Matriculation
Completion of a BS or BA in geology, biology, physics, chemistry, engineering or other geoscience-related degree is required for matriculated status. Deficiencies in geology are determined based on current USU Geosciences undergraduate degree requirements, as appropriate. The following geology courses or their equivalents may be expected: Physical Geology (introductory geology; GEO 1110), Physical Geology Lab (GEO 1115), Earth through Time (historical geology; GEO 2200), Minerals and Rocks (mineralogy; GEO 2800), Sedimentation and Stratigraphy (GEO 3550), Geomorphology (GEO 3600), Structural Geology (GEO 3700), and Field Methods (GEO 3900) or Field Camp (GEO 5200). Deficiencies and the timeline for their completion will be determined on a case-by-case basis in consultation with the Geosciences Graduate Committee.

Research
There are seven broad areas of research specializations for graduate students within the department: (1) geomorphology and earth surface processes; (2) geophysics; (3) hydrogeology; (4) petrology and geochemistry; (5) sedimentology and paleontology; (6) structure and tectonics; and (7) climate adaptation science. These research specializations prepare students for a wide range of careers for example in academia, research, environmental and geotechnical consulting, mineral and energy resources, water resources, land management, and restoration.

To learn more about current research emphases in the Geosciences department, please visit: https://qanr.usu.edu/geo/research/emphases/

Learning Objectives
Graduates from our MS and PhD programs will gain critical foundational, research, communication, and professional development skills. To learn more about these, as well as a listing of specific geoscience learning objectives, please visit: https://qanr.usu.edu/geo/assessment/graduate/learning-objectives.

Assessment
The Department of Geosciences relies on a variety of tools to periodically assess its graduate program. For more information on our assessment plan and outcomes, please visit https://qanr.usu.edu/geo/assessment/graduate/assessment-plan.

Financial Assistance
Departmental financial support for incoming graduate students consists primarily of graduate teaching and/or research assistantships accompanied by tuition and insurance coverage, which are awarded on a competitive basis. Students applying to the department's graduate programs are systematically considered for assistantship support. Admission to the MS or PhD program does not guarantee financial assistance.

Additional Information
Additional information on the research activities of faculty and their graduate students may be obtained directly from the Department of Geosciences' website at https://qanr.usu.edu/geo/directory/faculty

FACULTY - College of Science

Programs

Applied Environmental Geoscience - MS
Earth Science Teaching - BA, BS
Environmental Geoscience - BA, BS
Environmental Geosciences - Certificate
Geology - Minor
Geology - BA, BS
Geology - Professional Emphasis - BA, BS
Geology: Hydrogeology, Engineering Emphasis - BA, BS
Geology - MS
Geology - PhD
Paleontology - Institutional Certificate of Proficiency

Courses

GEO1010 - Introduction to Geology (BPS) - 3 - Credits
GEO1060 - Introduction to Environmental Geoscience (BPS) - 3 - Credits
GEO1110 - Physical Geology (BPS) - 3 - Credits
GEO1115 - Physical Geology Laboratory - 1 - Credits
GEO1220 - Historical Geology - 3 - Credits
GEO1225 - Historical Geology Laboratory - 1 - Credits
GEO1360 - Planet Earth (BPS) - 3 - Credits
GEO1650 - Fossil Preparation - 2 - Credits
GEO2200 - The Earth Through Time - 3 - Credits
GEO2205 - Earth Through Time Laboratory - 1 - Credits
GEO2500 - Geology Field Excursions - 1 - Credits
GEO2800 - Minerals and Rocks - 4 - Credits
GEO3000 - Epic Earth - Geoscience of National Parks (DSC) - 3 - Credits
GEO3100 - Natural Disasters (DSC) - 3 - Credits
GEO3150 - Energy in the Twenty-first Century (DSC/QI) - 3 - Credits
GEO3250 - Natural History of Dinosaurs (DSC) - 3 - Credits
GEO3300 - Geology of the World's Oceans (DSC) - 3 - Credits
GEO3400 - Communicating Geoscience (CI/DSC) - 3 - Credits
GEO3550 - Sedimentation and Stratigraphy - 4 - Credits
GEO3600 - Geomorphology - 4 - Credits
GEO3700 - Structural Geology - 4 - Credits
GEO3800 - Applied Geoscience Techniques - 3 - Credits
GEO3900 - Geologic Field Methods (CI) - 3 - Credits
GEO4500 - Igneous and Metamorphic Petrology - 4 - Credits
GEO4800 - Senior Seminar - 1 - Credits
GEO4850 - Internship/Co-op - 1 - 4 Credits
GEO4900 - Special Problems - 1 - 4 Credits
GEO5150 - Fluvial Geomorphology - 3 - Credits
GEO5200 - Geology Field Camp - 5 - Credits
GEO5210 - GeoProfessional Field Practicum - 3 - Credits
GEO5360 - Volcanology - 3 - Credits
GEO5390 - Sedimentary Petrology - 3 - Credits
GEO5410 - Advanced Stratigraphy - 3 - Credits
GEO5420 - Ore Deposits - 3 - Credits
GEO5430 - Invertebrate Paleontology and Paleobotany - 3 - Credits
GEO5440 - Vertebrate Paleontology (CI) - 3 - Credits
GEO5450 - Deep Time - 3 - Credits
GEO5470 - Chemical Sedimentary Rocks - 3 - Credits
GEO5480 - Tectonics of Sedimentary Basins - 3 - Credits
GEO5490 - Facies Analysis of Sedimentary Rocks - 3 - Credits
GEO5500 - Advanced Igneous Petrology - 4 - Credits
GEO5510 - Groundwater Geology (QI) - 3 - Credits
GEO5520 - Techniques of Groundwater Investigations (CI) - 3 - Credits
GEO5540 - Quantitative Methods in Geology (QI) - 3 - Credits
GEO5570 - Engineering Geology (QI) - 3 - Credits
GEO5590 - Geodesy and Crustal Deformation - 3 - Credits
GEO5600 - Geochemistry - 4 - Credits
GEO5620 - Global Geophysics (QI) - 3 - Credits
GEO5630 - Remote Sensing for Geoscientists - 3 - Credits
GEO5640 - Introduction to Seismology - 3 - Credits
GEO5650 - Senior Thesis - 1 - 4 Credits
GEO5660 - Applied Geophysics - 4 - Credits
GEO5670 - Inverse Theory - 3 - Credits
GEO5680 - Paleoclimatology - 3 - Credits
GEO5690 - Geodynamics - 3 - Credits
GEO5900 - Topics for Teachers - 1 - 4 Credits
GEO6050 - Graduate Seminar in Tectonics (Topic) - 1 - 3 Credits
GEO6100 - Graduate Seminar in Geomorphology (Topic) - 1 - 3 Credits
GEO6150 - Fluvial Geomorphology - 3 - Credits
GEO6190 - Aqueous Geochemistry - 3 - Credits
GEO6200 - Graduate Seminar in Geochemistry (Topic) - 1 - 3 Credits
GEO6250 - Rock Deformation and Earthquake Mechanics - 3 - Credits
GEO6280 - Stable Isotope Geochemistry - 2 - Credits
GEO6290 - Radiogenic Isotopes - 2 - Credits
GEO6300 - Graduate Seminar in Petrology (Topic) - 1 - 3 Credits
GEO6350 - Graduate Seminar in Paleontology and Paleoecology (Topic) - 1 - 3 Credits
GEO6360 - Volcanology - 3 - Credits
GEO6390 - Sedimentary Petrology - 3 - Credits
GEO6400 - Graduate Seminar in Sedimentary Geology (Topic) - 1 - 3 Credits
GEO6410 - Advanced Stratigraphy - 3 - Credits
GEO6420 - Ore Deposits - 3 - Credits
GEO6430 - Invertebrate Paleontology and Paleobotany - 3 - Credits
GEO6440 - Vertebrate Paleontology - 3 - Credits
GEO6450 - Deep Time: Studying the Earth's Expansive Past - 3 - Credits
GEO6470 - Chemical Sedimentary Rocks - 3 - Credits
GEO6480 - Tectonics of Sedimentary Basins - 3 - Credits
GEO6490 - Facies Analysis of Sedimentary Rocks - 3 - Credits
GEO6500 - Advanced Igneous Petrology - 4 - Credits
GEO6510 - Graduate Seminar in Hydrology (Topic) - 1 - 3 Credits
GEO6520 - Techniques of Groundwater Investigations - 3 - Credits
GEO6540 - Quantitative Methods in Geology - 3 - Credits
GEO6580 - Thermochronometry - 3 - Credits
GEO6590 - Geodesy and Crustal Deformation - 3 - Credits
GEO6600 - Graduate Seminar in Geophysics (Topic) - 1 - 3 Credits
GEO6620 - Global Geophysics - 3 - Credits
GEO6630 - Remote Sensing for Geoscientists - 3 - Credits
GEO6640 - Introduction to Seismology - 3 - Credits
GEO6650 - Quaternary Geochronology - 3 - Credits
GEO6660 - Applied Geophysics - 4 - Credits
GEO6670 - Inverse Theory - 3 - Credits
GEO6680 - Paleoclimatology - 3 - Credits
GEO6690 - Geodynamics - 3 - Credits
GEO6700 - Graduate Seminar in Structural Geology (Topic) - 1 - 3 Credits
GEO6800 - Graduate Seminar - 1 - 6 Credits
GEO6820 - Graduate Seminar Series - 1 - Credits
GEO6900 - Graduate Internship/Co-op Experience - 1 - 6 Credits
GEO6970 - Thesis - 1 - 9 Credits
GEO6990 - Continuing Graduate Advisement - 1 - 3 Credits
GEO7050 - Graduate Seminar in Tectonics (Topic) - 1 - 3 Credits
GEO7100 - Graduate Seminar in Geomorphology (Topic) - 1 - 3 Credits
GEO7200 - Graduate Seminar in Geochemistry (Topic) - 1 - 3 Credits
GEO7250 - Rock Deformation and Earthquake Mechanics - 3 - Credits
GEO7280 - Stable Isotope Geochemistry - 2 - Credits
GEO7290 - Radiogenic Isotopes - 2 - Credits
GEO7300 - Graduate Seminar in Petrology (Topic) - 1 - 3 Credits
GEO7350 - Graduate Seminar in Paleontology and Paleoecology (Topic) - 1 - 3 Credits
GEO7400 - Graduate Seminar in Sedimentary Geology (Topic) - 1 - 3 Credits
GEO7510 - Graduate Seminar in Hydrology (Topic) - 1 - 3 Credits
GEO7580 - Thermochronometry - 3 - Credits
GEO7600 - Graduate Seminar in Geophysics (Topic) - 1 - 3 Credits
GEO7650 - Quaternary Geochronology - 3 - Credits
GEO7700 - Graduate Seminar in Structural Geology (Topic) - 1 - 3 Credits
GEO7800 - Graduate Seminar - 1 - 6 Credits
GEO7970 - Dissertation Research - 1 - 12 Credits
GEO7990 - Continuing Graduate Advisement - 1 - 9 Credits

Human Development and Family Studies Department

Human Development and Family Studies

The Human Development and Family Studies (HDFS) Department offers comprehensive undergraduate and graduate programs designed to prepare students for impactful careers serving individuals and families across the lifespan. The undergraduate program emphasizes the study of human development and family relationships through coursework and practical experiences, including a required practicum at diverse sites. Students may find themselves working in community youth centers, school-based mentoring programs, organizations serving youth with disabilities, or juvenile rehabilitation programs. Other opportunities include family resource centers, domestic violence shelters, community health clinics, organizations serving immigrant and refugee families, adult day care centers, hospice care facilities, senior community centers, and organizations focused on Alzheimer's and Dementia care. A background check is required prior to participation in any practicum experience. Students gain valuable skills applicable to various professional settings and are well-prepared for graduate studies or direct employment.

The graduate programs, including PhD, MS, and Master of Marriage and Family Therapy (MMFT), provide advanced education and training in research, teaching, therapy, and administration. These programs offer a strong theoretical and research foundation, with opportunities for specialized study, practica, and independent research within state-of-the-art facilities like child development laboratories and therapy clinics. Graduate students are also required to pass a background check prior to participation in a practicum. Admission to graduate programs requires meeting specific criteria and deadlines. The department actively engages in funded research projects and offers financial assistance through teaching and research assistantships, particularly for PhD students. Detailed information about admission, program requirements, and financial aid can be found on the department's website and in the Graduate Student Handbook.

Degrees Offered: The Department offers the Bachelor of Science (BS) and Bachelor of Arts (BA) in Human Development and Family Studies. Graduate offerings include the Master of Science (MS) in Human Development and Family Studies; the Master of Science (MS) in Marriage and Family Therapy; the Master of Human Development and Family Studies (MHDFS); the Master of Marriage and Family Therapy (MMFT); and the Doctor of Philosophy (PhD) in Human Development and Family Studies.

Full Details of the learning objectives, assessment plan, student outcomes, and evidence of continuous improvement for these programs of study can be found at https://cehs.usu.edu/hdfs/assessment/undergrad-assessment-plan.php.

Contact Information:

Department Main Office

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Graduate Program

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Undergraduate Program

Academic Advisor
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FACULTY - Emma Eccles Jones College of Education and Human Services

Programs

Early Childhood - Certificate
Family Finance - Minor (NOT CURRENTLY OFFERED)
Gerontology - Certificate
General Studies - Human Services - BA, BS
Human Development and Family Studies - Minor
Human Development and Family Studies - BA, BS
Human Development and Family Studies - Child Development Emphasis - BA, BS
Human Development and Family Studies - Family and Community Services Emphasis - BA, BS
Human Development and Family Studies - Human Development Emphasis - BA, BS
Human Development and Family Studies - MHDFS
Human Development and Family Studies: Marriage and Family Therapy Specialization - PhD

Human Development and Family Studies - MS
Human Development and Family Studies - PhD
Mental Health Advocacy and Awareness - Minor
Marriage and Family Therapy - MMFT
Marriage and Family Therapy - MS

Courses

HDFS1010 - Balancing Work and Family (BSS) - 3 - Credits
HDFS1500 - Human Development Across the Lifespan (BSS) - 3 - Credits
HDFS2000 - Careers in Human Development and Family Studies (HDFS) - 1 - Credits
HDFS2100 - Family Resource Management (BSS) - 3 - Credits
HDFS2200 - Special Topics in Human Development and Family Studies - 3 - Credits
HDFS2400 - Couple and Family Relationships (BSS) - 3 - Credits
HDFS2450 - Consumer and Family Economic Issues (BSS) - 3 - Credits
HDFS2600 - Seminar in Early Childhood Education - 2 - Credits
HDFS2605 - Early Childhood Education Practicum - 2 - Credits
HDFS2660 - Parenting and Child Guidance - 3 - Credits
HDFS3100 - Abuse and Neglect in Family Context - 3 - Credits
HDFS3110 - Human Sexuality - 3 - Credits
HDFS3130 - Research Methods (QI) - 3 - Credits
HDFS3210 - Families and Cultural Diversity (CI) - 3 - Credits
HDFS3350 - Family Finance (DSS) - 3 - Credits
HDFS3450 - Consumer Credit Problems - 3 - Credits
HDFS3500 - Infancy and Childhood - 3 - Credits
HDFS3540 - Adult Development and Aging - 3 - Credits
HDFS3550 - Infant Lab - 1 - Credits
HDFS3560 - Human Development Lab - 1 - Credits
HDFS3570 - Youth and Adolescence - 3 - Credits
HDFS3700 - Mental Health Advocacy and Awareness - 3 - Credits
HDFS4220 - Family Crises and Interventions - 3 - Credits
HDFS4230 - Family and Social Policy - 3 - Credits
HDFS4240 - Social and Family Gerontology - 3 - Credits
HDFS4250 - Addictions and the Family - 3 - Credits
HDFS4260 - Family Life Education Methods - 3 - Credits
HDFS4270 - Research in Human Development and Family Studies - 1 - 6 Credits
HDFS4350 - Advanced Family Finance - 3 - Credits
HDFS4420 - Motivation and Medication in Addiction Treatment/Recovery - 3 - Credits
HDFS4460 - Financial Counseling and Coaching - 3 - Credits
HDFS4550 - Preschool Methods and Curriculum - 3 - Credits
HDFS4830 - Senior Capstone Project - 1 - 6 Credits
HDFS4900 - Professional Development and Pre-Practicum (CI) - 3 - Credits
HDFS4930 - Practicum in Mental Health - 1 - Credits
HDFS4940 - Gerontology Integration - 1 - Credits
HDFS4950 - Research Practicum in Human Development and Family Studies - 1 - 12 Credits
HDFS4960 - Practice Teaching in Child Development Laboratories - 3 - 6 Credits
HDFS4970 - Gerontology Practicum - 3 - Credits
HDFS4980 - Practicum in Human Development and Family Studies - 1 - 12 Credits
HDFS4990 - Pre-Clinical Practicum in Human Development and Family Studies - 1 - 12 Credits
HDFS5330 - HUD Certification Lab - 1 - Credits
HDFS5340 - Housing Finance and Regulations - 3 - Credits
HDFS5550 - Interdisciplinary Workshop - 1 - 3 Credits
HDFS5950 - Financial Counseling Practicum - 3 - Credits
HDFS6010 - Family Research and Application - 3 - Credits
HDFS6020 - Human Development Research and Application - 3 - Credits
HDFS6031 - Research Methodology - 3 - Credits
HDFS6040 - Economics and Financial Literacy in the Family - 3 - Credits
HDFS6060 - Human Development Theories - 3 - Credits
HDFS6070 - Family Theories - 3 - Credits
HDFS6100 - Meta-Analysis and Literature Review - 3 - Credits
HDFS6210 - Cultural Diversity in Families - 3 - Credits
HDFS6220 - Interpersonal Family Relationships - 3 - Credits
HDFS6230 - Family and Social Policy - 3 - Credits
HDFS6240 - Race, Gender, and Social Justice - 3 - Credits
HDFS6300 - Ethical Systemic Practice Seminar - 1 - Credits
HDFS6305 - Systemic Assessment and Diagnosis Seminar - 1 - Credits
HDFS6310 - Introduction to Systemic Family Theory and Practice - 3 - Credits
HDFS6320 - Theories and Models of Systemic Family Therapy - 3 - Credits
HDFS6325 - Gender and Diversity in Systemic Family Therapy - 3 - Credits
HDFS6330 - Couple and Sex Therapy - 3 - Credits
HDFS6340 - Collaborative Health Care and Psychopharmacology - 3 - Credits
HDFS6350 - Treating Addictions, Trauma, and Violence in Couples and Families - 3 - Credits
HDFS6355 - Child and Family Play Therapy - 3 - Credits
HDFS6360 - Ethical and Professional Development in Systemic Family Therapy - 3 - Credits
HDFS6370 - Psychopathology and Systemic Assessment - 3 - Credits
HDFS6380 - Applying Scholarly Research and Systemic Family Treatment - 3 - Credits
HDFS6390 - Practicum in Systemic Family Therapy - 1 - 8 Credits
HDFS6400 - Readings and Conference - 1 - 6 Credits
HDFS6420 - Housing Policy and Issues - 3 - Credits
HDFS6500 - Master of Human Development and Family Studies Capstone - 3 - Credits
HDFS6510 - Development in Infancy - 3 - Credits
HDFS6520 - Development in Childhood - 3 - Credits
HDFS6530 - Development in Adolescence - 3 - Credits
HDFS6540 - Adulthood and Aging - 3 - Credits
HDFS6900 - Topical Seminar in Human Development and Family Studies - 1 - 3 Credits
HDFS6910 - Parenting - 3 - Credits
HDFS6920 - Aging - 3 - Credits
HDFS6960 - HDFS Graduate Orientation - 1 - Credits
HDFS6961 - HDFS Teaching Assistantship Orientation - 1 - Credits
HDFS6970 - Thesis Research - 1 - 6 Credits
HDFS6980 - Master of Human Development and Family Studies Practicum - 1 - 9 Credits
HDFS6990 - Continuing Graduate Advisement - 1 - 9 Credits
HDFS7010 - Family Research and Application - 3 - Credits
HDFS7020 - Human Development Research and Application - 3 - Credits
HDFS7032 - Multivariate and Dyadic Data Analysis in Human Development and Family Studies - 3 - Credits
HDFS7033 - Dyadic and Longitudinal Data - 3 - Credits
HDFS7034 - Extant/Secondary Data Analysis - 3 - Credits
HDFS7060 - Research/Theory Human Development - 3 - Credits
HDFS7070 - Advanced Research/Theory in Family Relations - 3 - Credits
HDFS7080 - Professional Development - 3 - Credits
HDFS7100 - Meta-Analysis and Literature Review - 3 - Credits
HDFS7210 - Cultural Diversity in Families - 3 - Credits
HDFS7220 - Interpersonal Family Relationships - 3 - Credits
HDFS7230 - Family and Social Policy - 3 - Credits
HDFS7240 - Race, Gender, and Social Justice - 3 - Credits
HDFS7300 - Advanced Theories in Marriage and Family Therapy - 3 - Credits
HDFS7310 - Contemporary Issues in Marriage and Family Therapy - 3 - Credits
HDFS7320 - Foundations of Marriage and Family Therapy Education - 3 - Credits
HDFS7330 - Neuropsychology of Interpersonal Relationships - 3 - Credits
HDFS7390 - Practicum in Systemic Family Therapy - 1 - 8 Credits
HDFS7510 - Development in Infancy - 3 - Credits
HDFS7520 - Development in Childhood - 3 - Credits
HDFS7530 - Development in Adolescence - 3 - Credits
HDFS7540 - Adulthood and Aging - 3 - Credits

HDFS7900 - Topical Seminar in Human Development and Family Studies - 1 - 3 Credits
HDFS7910 - Parenting - 3 - Credits
HDFS7920 - Aging - 3 - Credits
HDFS7950 - Marriage and Family Therapy Internship - 1 - 6 Credits
HDFS7970 - Dissertation Research - 1 - 9 Credits
HDFS7980 - Graduate Research Practicum - 1 - 9 Credits
HDFS7990 - Continuing Graduate Advisement - 1 - 9 Credits

Instructional Technology & Learning Sciences Department

Instructional Technology and Learning Sciences

Department Head: Andrew Walker
Location: Emma Eccles Jones Education 215A
Phone: (435) 797-2614 | **FAX:** (435) 797-2693
E-mail: andy.walker@usu.edu
Website: itls.usu.edu/

Degrees offered: Bachelor of Science (BS), Master of Arts (MA), Master of Education (MEd) Educational Technology and Learning Sciences, Master of Science (MS), Education Specialist (EdS), and Doctor of Philosophy (PhD) in Instructional Technology and Learning Sciences

Graduate specializations: *MEd*—School Library Media Administration

Full details of the learning objectives, assessment plan, student outcomes, and evidence of continuous improvement for these programs of study can be found at itls.usu.edu/about/assessment.

Undergraduate Programs

Objectives and Requirements

The Human Experience Design and Interaction (HEDI) program focuses on instructional design, video game design, product design, or multimedia design, all with an emphasis on being human-centered. HEDI has core classes that include design, product/project management, how people learn, and how to visualize and present data to key stakeholders. Students will also specialize in two emphasis areas of their own choosing. Emphasis options include game studies, marketing, new venture management, multimedia, culturally responsive design, product development, and technical communication.

A GPA requirement of 2.0 and completion of 60 credits are required for admission to the program. Other criteria considered includes prior work experience, aptitude for technology, and experience with multimedia.

The program is geared toward students who have already completed an associate degree, either through USU or another institution. However, students can be accepted into the program before completing an associate degree, even as incoming first-year students. ITLS coursework is only available online.

Two minors are offered, one in **School Library Media Administration** and another in **Multimedia Development.**

Graduate Programs

Instructional technology is a systematic way of analyzing, designing, developing, implementing, and evaluating the processes of learning and teaching with specific objectives based on research in human learning and communication. It employs a combination of human and non-human resources to bring about more effective instruction. Instructional technology includes aspects of instructional design, product development, interactive learning technologies, multimedia, distance education, and library and information literacy. Each aspect of the field has unique contributions to make to the teaching-learning process.

The department offers a specialization in School Library Media Administration. A program emphasis in online learning communities in education and training is also offered.

Graduates are in demand in business and industrial settings, as well as in education, because of their preparation in training and instructional design. Admission to the graduate program is open to all students regardless of their undergraduate preparation.

Admission Requirements

See general admission requirements. The EdS, MS, MA, and MEd admission requirements include a 3.0 GPA for the last 60 semester credits (90 quarter credits) and an MAT score or GRE verbal and quantitative scores at or above the 40th percentile. Those applying for the PhD program must have GRE verbal and quantitative test scores at or above the 40th percentile. Demonstrated writing proficiency is required of all applicants. International students must have a minimum 79 TOEFL or 6 IELTS language proficiency score unless they have completed a Master's degree at a U.S. university.

Applications for PhD and EdS degree programs must be submitted to the School of Graduate Studies by January 6th. Applications for MS, MEd, and MA programs must be submitted to the School of Graduate Studies by April 1st for a Fall start or October 15th for a Spring start. Space permitting, additional qualified candidates will be considered up to two months before the next semester starts. Students who wish to be considered for financial aid must submit applications by January 31st for the coming academic year. A required three-day orientation will be held in August before classes start.

Applicants for the EdS and PhD programs who do not hold a master's degree in Instructional Technology must complete additional course requirements.

No applications will be considered until all required information is received by the School of Graduate Studies.

Course Requirements

Course requirements for all degrees are dependent upon the area of emphasis and are individually planned by the student and the supervisory committee. For planning materials and program details, contact the department.

Financial Assistance

Fellowships, assistantships and other financial support are available and awarded on a competitive basis. Apply through the department.

FACULTY - Emma Eccles Jones College of Education and Human Services

Programs

General Studies - Human Services - BA, BS
Human Experience Design and Interaction - BS
Instructional Coaching - Post-Bachelor's Certificate
Instructional Technology and Learning Sciences - EdS
Instructional Technology and Learning Sciences - MA
Instructional Technology and Learning Sciences - MEd
Instructional Technology and Learning Sciences - MS
Instructional Technology and Learning Sciences - PhD
Marketing Design - Minor
Multimedia Development - Minor
School Library Media Administration - Post-Bachelor's Certificate
School Library Media Administration - Certificate
School Library Media Administration - Minor

Courses

ITLS1870 - Current Issues Seminar - 1 - 3 Credits
ITLS2000 - HEDI Orientation - 1 - Credits
ITLS2500 - Technology Enabled Instruction - 3 - Credits
ITLS2890 - Work Experience Equivalent - 1 - 12 Credits
ITLS2900 - Independent Study - 1 - 4 Credits
ITLS3110 - Design Perspectives and Processes I - 3 - Credits
ITLS3120 - Design Perspectives and Processes II - 3 - Credits
ITLS3130 - How People Learn - 3 - Credits
ITLS3310 - Information and Media Literacy - 3 - Credits
ITLS3350 - Introduction to Computational Thinking - 3 - Credits
ITLS3500 - Introduction to Games Studies - 3 - Credits
ITLS3530 - Gaming, Technology, and Culture - 3 - Credits
ITLS3560 - Character and Level Design - 3 - Credits
ITLS3575 - Special Topics in Game Studies - 3 - Credits
ITLS3870 - Current Issues Seminar - 1 - 3 Credits
ITLS4110 - Project and Product Management - 3 - Credits
ITLS4160 - Measuring Learning and Performance - 3 - Credits
ITLS4170 - AI-Powered Experience Design - 3 - Credits
ITLS4208 - Integrated Multimedia Production - 3 - Credits
ITLS4300 - Clinical Experience in School Library Media - 1 - Credits
ITLS4410 - Intro to eSports - 3 - Credits
ITLS4420 - Developmental eSports - 2 - Credits
ITLS4475 - Special Topics in Esports - 1 - 3 Credits
ITLS4890 - Work Experience Equivalent - 1 - 12 Credits
ITLS4900 - Independent Study - 1 - 4 Credits
ITLS4910 - Undergraduate Research and Creative Opportunity - 1 - 3 Credits
ITLS4940 - Internship-Undergraduate - 1 - 6 Credits
ITLS4960 - Senior Capstone Project - 1 - 3 Credits
ITLS5000 - School Library Foundation and Learning - 3 - Credits
ITLS5015 - School Library Organization and Access - 3 - Credits
ITLS5025 - School Library Instruction and Assessment - 3 - Credits
ITLS5030 - School Library Literacy and Programs - 3 - Credits
ITLS5040 - School Library Leadership and Administration - 3 - Credits
ITLS5090 - School Library Media Practicum - 1 - 6 Credits
ITLS5130 - Data Visualization - 3 - Credits
ITLS5210 - Virtual Environment Development - 3 - Credits
ITLS5215 - Video and Audio Design and Production I - 3 - Credits
ITLS5220 - Video and Audio Design and Production II - 3 - Credits
ITLS5225 - User Experience/User Interaction Design - 3 - Credits
ITLS5230 - Graphic Design and Production I - 3 - Credits
ITLS5240 - Graphic Design and Production II - 3 - Credits
ITLS5245 - eLearning Authoring Tools - 3 - Credits
ITLS5250 - Artificial Intelligence for Learning and Design - 3 - Credits
ITLS5255 - Designing Ethical Technologies - 3 - Credits
ITLS5260 - Mobile Design and Development for Learning - 3 - Credits
ITLS5265 - Internet Design and Development - 3 - Credits
ITLS5270 - Digital Making and Learning - 3 - Credits
ITLS5275 - Multimedia Special Topic Studio I - 3 - Credits
ITLS5285 - Multimedia Special Topic Studio II - 3 - Credits
ITLS5320 - Writing for Design (CI) - 3 - Credits
ITLS5500 - Integration and Innovation of Technology in Education - 3 - Credits
ITLS5700 - Special Topics - 1 - 3 Credits
ITLS5750 - Instructional Technology Workshop - 1 - 4 Credits
ITLS6130 - Data Visualization - 3 - Credits
ITLS6210 - Virtual Environment Development - 3 - Credits
ITLS6215 - Video and Audio Design and Production I - 3 - Credits
ITLS6225 - User Experience/User Interaction Design - 3 - Credits
ITLS6230 - Graphic Design and Production I - 3 - Credits
ITLS6240 - Graphic Design and Production II - 3 - Credits
ITLS6245 - eLearning Authoring Tools - 3 - Credits
ITLS6250 - Artificial Intelligence for Learning and Design - 3 - Credits
ITLS6255 - Designing Ethical Technologies - 3 - Credits
ITLS6260 - Mobile Design and Development for Learning - 3 - Credits
ITLS6265 - Internet Design and Development - 3 - Credits
ITLS6270 - Digital Making and Learning - 3 - Credits
ITLS6275 - Multimedia Special Topic Studio I - 3 - Credits
ITLS6285 - Multimedia Special Topic Studio II - 3 - Credits
ITLS6300 - ITLS Orientation - 1 - Credits
ITLS6310 - Orientation to Instructional Technology & Learning Sciences for PhD Students - 1 - 2 Credits
ITLS6320 - Writing for Design - 3 - Credits
ITLS6390 - Transformative Uses of Technology for Learning - 3 - Credits
ITLS6400 - Foundations of Instructional Coaching - 3 - Credits
ITLS6510 - Evaluation and Research - 3 - Credits
ITLS6515 - Evaluation and Assessment - 3 - Credits
ITLS6520 - Instructional Design I - 3 - Credits
ITLS6530 - Instructional Design II - 3 - Credits
ITLS6535 - Design Thinking - 3 - Credits
ITLS6540 - Learning Theory - 3 - Credits
ITLS6545 - Socio-Cultural Learning Theory - 3 - Credits
ITLS6560 - Project and Organizational Management - 3 - Credits
ITLS6570 - Performance Systems - 3 - Credits
ITLS6650 - Research Seminar - 1 - Credits
ITLS6700 - Special Topics - 1 - 3 Credits
ITLS6720 - Instructional Technology in Adult Education - 3 - Credits
ITLS6730 - Games and Learning - 3 - Credits
ITLS6750 - Instructional Technology Workshop - 1 - 4 Credits
ITLS6760 - Grant and Proposal Writing - 3 - Credits
ITLS6770 - Practicum in the Improvement of Instruction - 1 - 4 Credits
ITLS6870 - Current Issues Seminar - 1 - 3 Credits
ITLS6900 - Independent Study - 1 - 6 Credits
ITLS6910 - Independent Research - 1 - 6 Credits
ITLS6940 - Internship - 1 - 6 Credits
ITLS6960 - Creative Project - 1 - 6 Credits
ITLS6970 - Thesis - 1 - 6 Credits
ITLS6990 - Continuing Graduate Advisement - 1 - 8 Credits
ITLS7000 - Pro-seminar I in Instructional Technology - 3 - Credits
ITLS7011 - Introduction to Theories and Methods of Instructional Technology and Learning Sciences I - 3 - Credits
ITLS7015 - Introduction to Theories and Methods of Instructional Technology and Learning Sciences II - 3 - Credits
ITLS7021 - Conducting a Literature Review - 3 - Credits

ITLS7025 - Foundations In Instructional Technology and Learning Sciences - 3 - Credits
ITLS7150 - Advanced Seminar in Instructional Technology - 3 - Credits
ITLS7340 - Building Community Partnerships in Research Contexts - 3 - Credits
ITLS7350 - Ethnography - 3 - Credits
ITLS7360 - Design Based Research - 3 - Credits
ITLS7450 - Internship in Program Evaluation - 1 - 4 Credits
ITLS7460 - Internship in Research - 1 - 4 Credits
ITLS7545 - Socio-Cultural Learning Theory - 3 - Credits
ITLS7820 - Practicum in Instructional Technology - 2 - Credits
ITLS7870 - Current Issues Seminar - 1 - 3 Credits
ITLS7900 - Independent Study - 1 - 6 Credits
ITLS7910 - Independent Research - 1 - 6 Credits
ITLS7960 - Practicum, Educational Specialist - 1 - 9 Credits
ITLS7970 - Dissertation - 1 - 18 Credits
ITLS7990 - Continuing Graduate Advisement - 1 - 9 Credits

Kinesiology and Health Science Department

Kinesiology and Health Science

Department Head: David Fukuda
Location: Health, Physical Education and Recreation (HPER) 122A
Phone: (435) 797-1495 | **FAX:** (435) 797-3759
E-mail: khs@usu.edu
Website: cehs.usu.edu/khs

Graduate Program Coordinator: Melissa Johnson, HPER 122J, (435) 797-1495, melissa.johnson@usu.edu

Undergraduate Academic Advisors:
Raquel Friddle, HPER 122D, khsadvising@usu.edu
Zoyee Thomas, HPER 122F, khsadvising@usu.edu
Jana Johnson, HPER 122G, khsadvising@usu.edu
For advising appointments, schedule online here: cehs.usu.edu/advising.

Undergraduate degrees offered: Bachelor of Science (BS) in Health Education and Promotion; BS in Kinesiology; BS in Recreation Administration

Undergraduate emphases/tracks: BS in Kinesiology—Exercise Science and Pre-Physical Therapy; BS in Recreation Administration - Sports Management, Public Recreation, Outdoor Adventure Leadership, and Program and Event Management

Undergraduate minors: Outdoor Adventure Leadership; Parks & Recreation; Yoga Studies

Undergraduate Certificates of Proficiency: Health, Wellness, and Equity; Outdoor Adventure Leadership; Mind Body Wellness

Graduate degrees offered: Master of Science (MS) in Kinesiology; Master of Education (MEd) in Applied Sport Coaching; Master of Public Health (MPH) in Health Education and Promotion; Master of Sports Management (MSM)

Graduate specialization: *MS*—Exercise Science

Full details of the learning objectives, assessment plan, student outcomes and evidence of continuous improvement for these programs of study can be found at http://cehs.usu.edu/khs/assessment.

Academic Programs

Objectives

The Kinesiology and Health Science (KHS) Department at Utah State is committed to educating and serving students and members of both local and extended communities in the fields of kinesiology, health science, and recreation administration sharing the common purpose to promote and enhance human health, well-being, and performance. Our department works toward this goal as we prepare students for careers in these fields through both our undergraduate and graduate programs.

Within our department, there are four main classifications of our programs: kinesiology, health science, recreation administration, and activity.

Kinesiology is the scientific study of human movement, exploring how physical activity and sport impact individual and community well-being, quality of life, and society at large. Students studying in disciplines in this area can pursue careers in exercise science, physical therapy, physical education, sport psychology, fitness centers, and other similar professions.

Health science focuses on the knowledge of health, emphasizing the related behaviors, social, and cultural factors, and the application of that knowledge to improve individual and population health over the life span. Students studying within this discipline can pursue careers in health agencies, health care organizations, international health programs and aid agencies, community social services organizations, and other similar organizations.

Recreation administration focuses on preparing individuals interested in managing meaningful activities and programs, combining elements of business management, event planning, and community engagement to help improve the quality of life for those they serve. This discipline focuses on providing opportunities for people to engage in leisure activities, sports, fitness programs, cultural events, and other forms of recreation. Students studying within this discipline can pursue a variety of careers in federal parks, recreation departments, community agencies, commercial agencies, and other related fields.

Our department also offers an extensive elective **lifetime activity program (LAP)**, with courses available to all USU students. The LAP program offers various physical activities promoting overall well-being, community engagement, and networking. The department and program collaborate with skilled instructors and local businesses to allow students to choose from many activities with multiple sections each semester. Activities provide fun, fitness, and academic credit opportunities. The program is available at different campus locations and aims to enhance students' knowledge of sports, health, and fitness.

Undergraduate Programs
The Kinesiology and Health Science Department offers undergraduate programs of study designed to prepare USU students for successful careers in one of three areas: Health Education and Promotion, Kinesiology, or Recreation Administration. Preparation is accomplished through well-rounded, rigorous course requirements.

Undergraduate Student Advising
Suggested semester-by-semester four-year plans for students working toward a bachelor's degree are available through the Kinesiology and Health Science Department.

Students should consult with their advisor to develop a plan of study tailored to their individual needs and interests. Appointments to meet with an advisor can be made online through cehs.usu.edu/advising/.

Major requirement sheets, which provide detailed information about requirements for departmental majors, can be obtained from the department and through the KHS website cehs.usu.edu/khs/graduate/student-resources/tracking-sheets.

Activity Courses
USU students are served by an extensive elective lifetime-skill activity course program. The number and diversity of courses encourage students to increase their lifetime participation skills and enjoy opportunities, creativity, and expression. Students may also achieve and maintain a high level of personal fitness and adopt a proactive lifestyle conducive to health and well-being.

University Honors Program
The University Honors Program offers students in all colleges and majors the unique opportunity to deepen their educational experience with hands-on practical applications of their academic knowledge. The Honors Program admits incoming, transfer, and existing USU students based on application. High achieving students with at least one year remaining are encouraged to apply. See the University Honors Program catalog entry and website (honors.usu.edu) for more information.

Graduate Programs

Students in the Kinesiology and Health Science Department are prepared to enter competitive professional fields by working with mentors to discover knowledge and deliver evidence-based research to rural areas of the state. The KHS department is home to a variety of disciplines and offers the following graduate degrees Master of Education (MEd) in Applied Sport Coaching, Master of Public Health (MPH) in Health Education and Promotion, Master of Science in Kinesiology (MS), and a Master of Sports Management (MSM).

Potential students are encouraged to visit the program pages on the KHS website for the program(s) they are interested in to learn more: cehs.usu.edu/khs/graduate/index.

Admissions
Students desiring to enroll in one of the graduate programs in the KHS department must be admitted to the Utah State University School of Graduate Studies. As students start an application they will create a log-in that will allow them to come back in and complete their applications. The application has two parts, the initial application and the supplemental items. Students must complete the initial application and pay the application fee before they can access the supplemental materials.

Each program has supplemental materials required specific to their program. These are listed in the application, but can also be reviewed through the KHS website: cehs.usu.edu/khs/graduate/index.

Graduate Student Advising
Students in the KHS department are advised by both the department graduate program coordinator (GPC) and their Major Professor (Faculty Advisor/Mentor). Both roles can and will help students to successfully fulfill program and graduation requirements and navigate through the process of getting a degree.

Graduate Assistantships
The KHS Department offers graduate assistantship (GA) opportunities for students based in Logan, Utah who have been accepted into one of the department's graduate programs.

Students interested in these positions complete the GA application, submitted directly to the department. This is separate from the admissions application, submitted to the Graduate School. The deadline for both applications is March 1 to be considered for a GA position. Positions are awarded for the coming Fall and Spring semesters. Details about the GA application requirements can be accessed through the KHS website: https://cehs.usu.edu/khs/graduate/student-resources/grad-assistantships

Financial Support

Scholarship opportunities may be available for both undergraduate and graduate students to apply for depending on your degree or program in Banner. To receive a scholarship, you must be a student with a major housed in the Emma Eccles Jones College of Education and Human Services, pursuing coursework each semester in your major field, and taking between 12-18 credits for an undergraduate and 9 credits for graduate each semester. Limited scholarships are available for part time students.

Scholarship applications typically open for the coming year in mid-December or early January. The application is at the USU General Scholarship Application. A helpful video about the application and common questions and answers are found on the USU scholarship page with the application.

In addition, students are strongly encouraged to apply for financial aid by completing a FAFSA application each year. Many scholarships require the applicant to show financial need. Financial need must be shown through a FAFSA application, which must be on record at the university. The process can often take a week or two, so please apply early. Apply online for the FAFSA.

For additional information, students are encouraged to visit the Emma Eccles Jones College website: cehs.usu.edu/academics/scholarships/index.

Student Research and Engagement Opportunities

Research is the hallmark of a science degree (e.g., Bachelor of Science, Master of Science). Students interested in health, kinesiology, and recreation research are encouraged to assist faculty members with grant writing, data collection, data analysis, and report writing. Additionally, students can assist faculty members with submissions of scholarly presentations and articles.

Research areas include health promotion, health education, exercise science, corporate wellness, sport psychology, sport in society, biomechanics, neuromechanics, pedagogy, and other related fields. Research laboratories in the KHS department include the Biomechanics Lab, the Body Composition Lab, the Exercise Physiology Lab, the Kids in Motion Lab, the Neuromechanics Lab, the Neuromuscular Research Lab, the Perception-Action Lab, the Sensory Motor Behavior Lab, the Sport Psychology Lab, and the John Worley Sport Medicine Clinical Research Center. Students interested in being involved with one of these labs should contact the lab director: cehs.usu.edu/khs/labs/overview.

Research is not the only opportunity for students to participate; students also have the option to engage in internship experiences. The purpose of an internship is for students to have the chance to observe professionals and gain experience in career areas of interest. Internships also provide hands-on, practical experience in which students can apply their knowledge in a real-world work setting, providing a benchmark for future careers.

Beyond the classroom, students can engage in the department through participation in clubs and other activities planned and provided for students, cehs.usu.edu/khs/undergrad/clubs.

Additional Information

Additional information about the department, academic programs, faculty and instructors, and other information may be obtained from the Kinesiology and Health Science Department, or check the departmental home page at cehs.usu.edu/khs/index.

FACULTY - Emma Eccles Jones College of Education and Human Services

Programs

Applied Sport Coaching - MEd
Brain and Learning - Certificate
Coaching - Certificate (NOT CURRENTLY OFFERED)
Health Education Teaching - Minor
Kinesiology - Exercise Science Emphasis - BS
Kinesiology - MS
Kinesiology: Pre-Physical Therapy Emphasis - BS
Mind-Body Wellness - Certificate
Master of Applied Kinesiology - MFP (NOT CURRENTLY OFFERED)
Outdoor Adventure Leadership - Minor
Outdoor Adventure Leadership - Certificate
Parks and Recreation - Minor
Physical Education Teaching - Minor
Physical Education Teaching - Post-Bachelor's Certificate (NOT CURRENTLY OFFERED)
Public Health - Health Promotion: Health Science Emphasis - BS
Master of Public Health: Health Education and Promotion Specialization - MPH
Recreation Administration: Outdoor Adventure Leadership Emphasis - BS
Recreation Administration: Program and Event Management Emphasis - BS
Recreation Administration: Public Recreation Emphasis - BS
Recreation Administration - Sport Management - BS
Sports Management - MSM
Yoga Studies - Minor

Courses

HEP1200 - Community and Public Health Careers - 3 - Credits
HEP1500 - Introduction to Global Health (BSS) - 3 - Credits
HEP2000 - First Aid and Emergency Care - 2 - Credits
HEP2300 - Cardiopulmonary Resuscitation - 1 - Credits
HEP2500 - Health and Wellness - 2 - Credits
HEP3000 - Drugs and Human Behavior - 3 - Credits
HEP3200 - Consumer Health - 3 - Credits
HEP3400 - Stress Management - 3 - Credits
HEP3600 - Functions of Community & Public Health (CI) - 3 - Credits
HEP3700 - Introduction to Epidemiology for Health Educators - 3 - Credits
HEP3800 - Health Care Systems and Administration - 3 - Credits
HEP3900 - Social Marketing in Health Education - 3 - Credits
HEP4000 - Health Services Administration - 3 - Credits
HEP4100 - Professional Development in Health Promotion - 3 - Credits
HEP4200 - Community-Based Program Planning, Implementation, and Evaluation - 3 - Credits
HEP4205 - Program Management and Evaluation for Health Education - 3 - Credits
HEP4250 - Advanced Cooperative Work Experience - 1 - 15 Credits
HEP4400 - Community and Organizational Leadership, Policy, and Advocacy - 3 - Credits
HEP4600 - Health Science Internship - 1 - 3 Credits
HEP4700 - Senior Thesis - 1 - 6 Credits
HEP4800 - Human Diseases - 3 - Credits
HEP5000 - Health Trends Across Communities (CI) - 3 - Credits
HEP5250 - Global Health & Service Learning - 3 - Credits
HEP5400 - Prevention Strategies for Obesity and Disordered Eating - 3 - Credits
HEP5700 - Special Topics in Health - 1 - 6 Credits
HEP5900 - Independent Study - 1 - 3 Credits
HEP5950 - Independent Research - 1 - 3 Credits
HEP6000 - Advanced Program Planning and Evaluation for Public Health - 3 - Credits
HEP6010 - Communication for Public Health - 3 - Credits
HEP6020 - Introduction to Biostatistics and Epidemiology - 3 - Credits
HEP6050 - Foundations of Public Health - 3 - Credits
HEP6120 - Foundations of Global Health - 3 - Credits
HEP6150 - Global Maternal and Child Health - 3 - Credits
HEP6200 - Health Administration, Organizations, and Systems - 3 - Credits
HEP6250 - Graduate Cooperative Work Experience - 1 - 15 Credits
HEP6350 - Social Determinants of Health - 3 - Credits
HEP6400 - Policy, Leadership, and Advocacy in Public Health - 3 - Credits
HEP6450 - Research Methods in Population Health - 3 - Credits
HEP6550 - Qualitative Methods for Public Health - 3 - Credits
HEP6600 - Practicum in Health Promotion - 3 - Credits
HEP6670 - Principles of Grant Writing in Public Health - 3 - Credits
HEP6700 - Special Topics in Health - 1 - 6 Credits
HEP6800 - Health Behavior - 3 - Credits
HEP6850 - Capstone in Public Health - 3 - Credits
HEP6900 - Independent Study - 1 - 3 Credits
HEP6950 - Independent Research - 1 - 3 Credits
HEP6990 - Continuing Graduate Advisement - 1 - 12 Credits
KIN1000 - Designing Your Future in Health, Fitness, and Recreation - 2 - Credits
KIN1500 - Basics of Human Anatomy and Physiology for Applied Sciences - 3 - Credits
KIN2000 - Introduction to Kinesiology - 2 - Credits
KIN2020 - Introduction to Physical Therapy - 2 - Credits
KIN2050 - Sport Rules and Regulations of the Utah High School Athletic Association - 1 - Credits
KIN2100 - Skills 1 (Swimming, Volleyball, Football) - 1 - Credits
KIN2200 - Skills 2 (Lifetime Activities) - 1 - Credits
KIN2300 - Skills 3 (Softball, Basketball, Soccer) - 1 - Credits
KIN2400 - Skills 4 (Tennis, Badminton, Track and Field) - 1 - Credits
KIN2710 - Introduction to Athletic Training - 3 - Credits
KIN3000 - Principles of Health and Fitness - 3 - Credits
KIN3010 - Yoga Technique I - 3 - Credits
KIN3011 - Introduction to Yoga Studies - 1 - Credits

KIN3020 - Yoga Teaching Methodology I - 3 - Credits
KIN3021 - Yoga Technique II - 3 - Credits
KIN3050 - Physical Education in the Elementary School - 3 - Credits
KIN3070 - Yoga Anatomy - 3 - Credits
KIN3100 - Athletic Injuries - 3 - Credits
KIN3200 - Motor Control and Learning (CI) - 3 - Credits
KIN3250 - Anatomical Kinesiology - 3 - Credits
KIN3300 - Clinical Experience I - 1 - Credits
KIN3500 - Adapted Physical Education - 3 - Credits
KIN3700 - Meditation and Mindfulness: History and Practice - 3 - Credits
KIN3830 - The History of Yoga - 3 - Credits
KIN3900 - Fitness Administration - 3 - Credits
KIN4000 - Mental Aspects of Sports Performance - 3 - Credits
KIN4015 - Yoga and Nature - 3 - Credits
KIN4100 - Exercise Physiology - 4 - Credits
KIN4200 - Biomechanics (QI) - 4 - Credits
KIN4250 - Advanced Cooperative Work Experience - 1 - 10 Credits
KIN4300 - Clinical Experience II - 1 - Credits
KIN4350 - Administration and Classroom Management of Physical Education - 2 - Credits
KIN4400 - Measurement and Evaluation in Kinesiology (QI) - 3 - Credits
KIN4460 - Exercise Electrocardiogram Interpretation - 2 - Credits
KIN4500 - Motivational Strategies for Physical Education and Coaching - 3 - Credits
KIN4900 - Methods of Physical Education (CI) - 3 - Credits
KIN4910 - Methods of Teaching Health - 3 - Credits
KIN4950 - Honors Senior Thesis - 1 - 6 Credits
KIN5050 - Psychological Aspects of Sports Performance - 3 - Credits
KIN5100 - Fitness Assessment and Exercise Programs - 4 - Credits
KIN5200 - Human Motivation in Physical Activity Contexts - 3 - Credits
KIN5430 - History and Philosophy of Physical Activity and Sport (CI) - 3 - Credits
KIN5500 - Student Teaching Seminar - 2 - Credits
KIN5630 - Student Teaching in Secondary Schools - 10 - Credits
KIN5700 - Special Topics - 1 - 6 Credits
KIN5900 - Independent Study - 1 - 3 Credits
KIN5910 - Independent Research - 1 - 3 Credits
KIN6000 - Administration of Athletics - 3 - Credits
KIN6010 - Communication and Leadership in Sport - 3 - Credits
KIN6020 - Curriculum and Methods of Physical Education - 3 - Credits
KIN6025 - Intercollegiate Athletics Administration - 3 - Credits
KIN6030 - Sports Marketing and Public Relations - 3 - Credits
KIN6040 - Sport Event and Facility Management - 3 - Credits
KIN6050 - Psychological Aspects of Sports Performance - 3 - Credits
KIN6060 - Legal Issues in Sports - 3 - Credits
KIN6070 - Social Dimensions of Sport - 3 - Credits
KIN6075 - Sport Ethics - 3 - Credits
KIN6080 - Financial Management of Sports - 3 - Credits
KIN6085 - Sport Fundraising and Sponsorship - 3 - Credits
KIN6090 - Sports Sales - 3 - Credits
KIN6120 - Leadership and Organizational Behavior in Sport - 3 - Credits
KIN6130 - Data Analytics and Data Driven Decision Making in Sports - 3 - Credits
KIN6210 - Biophysical Aspects of Sport and Exercise - 3 - Credits
KIN6270 - Injury Prevention and Risk Management - 3 - Credits
KIN6300 - Seminar in Kinesiology - 1 - Credits
KIN6410 - Bioenergetics and Exercise Metabolism - 2 - Credits
KIN6425 - Exercise in Extreme Environments - 2 - Credits
KIN6440 - Body Composition - 2 - Credits
KIN6460 - Exercise Electrocardiogram Interpretation - 2 - Credits
KIN6480 - Advanced Neuromuscular Exercise Physiology - 2 - Credits
KIN6490 - Advanced Cardiovascular Exercise Physiology - 2 - Credits
KIN6500 - Practicum in Corporate Wellness - 1 - 10 Credits
KIN6510 - Adapted Physical Education - 3 - Credits
KIN6540 - Neuromuscular Adaptations - 3 - Credits
KIN6610 - Topics in Biomechanics - 2 - Credits
KIN6620 - Methods in Biomechanics - 1 - Credits
KIN6650 - Advanced Practicum in Sport Management - 1 - 6 Credits
KIN6700 - Special Topics - 1 - 6 Credits
KIN6710 - Selected Topics in Sport - 3 - Credits
KIN6800 - Advanced Biomechanics - 3 - Credits
KIN6810 - Research Methods in Kinesiology - 3 - Credits
KIN6840 - Fundamentals of Motor Behavior - 2 - Credits
KIN6850 - Neural Aspects of Rehabilitation - 2 - Credits
KIN6860 - Motor Development - 2 - Credits
KIN6900 - Independent Study - 1 - 3 Credits
KIN6910 - Independent Research - 1 - 3 Credits
KIN6960 - Master's Project - 3 - Credits
KIN6970 - Thesis - 1 - 9 Credits
KIN6990 - Continuing Graduate Advisement - 1 - 9 Credits
KIN7040 - Review of Literature - 1 - Credits
KIN7060 - Research Internship - 1 - Credits
KIN7070 - Grant Writing for Pathokinesiology - 1 - Credits
KIN7080 - Publication - 1 - Credits
KIN7090 - Conference Presentation - 1 - Credits
KIN7330 - Supervision Internship - 1 - Credits
KIN7340 - College Teaching Internship - 1 - Credits
KIN7550 - Internship in Sport Coaching - 1 - 6 Credits
KIN7820 - Seminar: Special Topics - 1 - 3 Credits
KIN7910 - Independent Research - 1 - 3 Credits
KIN7940 - Journal Reading Group - 1 - 2 Credits
KIN7970 - Dissertation - 1 - 18 Credits
PE1010 - Aerobics - 1 - Credits
PE1016 - Spinning - 1 - Credits
PE1030 - Aerobic Kickboxing - 1 - Credits
PE1046 - Jog/Walk - 1 - Credits
PE1055 - Pilates - 1 - Credits
PE1057 - Yoga - 1 - Credits
PE1058 - Yoga II - 1 - Credits
PE1063 - Conditioning - 1 - Credits
PE1065 - NASM Personal Training Prep Course - 1 - Credits
PE1070 - Cross-Training - 1 - Credits
PE1075 - NASM Group Fitness Prep Course - 1 - Credits
PE1080 - Hyper Fit - 1 - Credits
PE1085 - Weight Training - 1 - Credits
PE1090 - Resistance and Stabilization Training - 1 - Credits
PE1097 - Fitness for Life - 2 - Credits
PE1100 - Tennis I Beginning - 1 - Credits
PE1101 - Tennis II Intermediate - 1 - Credits
PE1103 - Table Tennis - 1 - Credits
PE1105 - Badminton - 1 - Credits
PE1110 - Racquetball I Beginning - 1 - Credits
PE1111 - Racquetball II Intermediate - 1 - Credits
PE1116 - Roundnet (Spike Ball) - 1 - Credits
PE1120 - Handball - 1 - Credits
PE1125 - Pickleball - 1 - Credits
PE1130 - Golf Beginning - 1 - Credits
PE1131 - Golf Intermediate - 1 - Credits
PE1135 - Archery I - 1 - Credits
PE1136 - Archery II - 1 - Credits
PE1145 - Bowling - 1 - Credits
PE1146 - Bowling Intermediate - 1 - Credits
PE1150 - Billiards Beginning - 1 - Credits
PE1151 - Billiards Intermediate - 1 - Credits
PE1152 - Billiards Advanced - 1 - Credits
PE1170 - Gymnastics - 1 - Credits
PE1200 - Basketball - 1 - Credits
PE1210 - Volleyball Beginning - 1 - Credits
PE1211 - Volleyball Intermediate - 1 - Credits
PE1212 - Volleyball Advanced - 1 - Credits
PE1225 - Softball - 1 - Credits
PE1230 - Soccer - 1 - Credits
PE1235 - Flag Football - 1 - Credits
PE1245 - Ultimate Frisbee - 1 - Credits
PE1246 - Ultimate Frisbee Intermediate - 1 - Credits

PE1260 - Ice Hockey Beginning - 1 - Credits
PE1261 - Ice Hockey Intermediate - 1 - Credits
PE1300 - Swimming Beginning - 1 - Credits
PE1301 - Lap Swimming - 1 - Credits
PE1315 - Water Aerobics - 1 - Credits
PE1350 - Scuba - 1 - Credits
PE1405 - Smart Defense - 1 - Credits
PE1406 - Smart Defense Advocate - 1 - Credits
PE1407 - Basic Awareness & Defensive Action - 1 - Credits
PE1408 - Self-Defense and Situational Awareness - 1 - Credits
PE1410 - Tai Chi Chuan - 1 - Credits
PE1430 - Karate - 1 - Credits
PE1440 - Aikido - 1 - Credits
PE1445 - Tae Kwon Do - 1 - Credits
PE1505 - Kayaking - 1 - Credits
PE1507 - Swiftwater Safety - 2 - Credits
PE1508 - River Guide Preparation - 3 - Credits
PE1509 - River Running I - 1 - Credits
PE1510 - Fly Fishing - 1 - Credits
PE1511 - Fly Tying Beginning - 1 - Credits
PE1512 - Fly Tying Intermediate - 1 - Credits
PE1513 - Fly Casting - 1 - Credits
PE1514 - Fly Rod Building - 1 - Credits
PE1520 - Hiking - 1 - Credits
PE1527 - Rock Climbing: Basic - 1 - Credits
PE1528 - Advanced Rock Climbing - 1 - Credits
PE1530 - Bouldering - 1 - Credits
PE1543 - Wilderness First Aid - 1 - Credits
PE1544 - Wilderness First Responder - 3 - Credits
PE1547 - Avalanche AIARE 1 (Avy 1) - 2 - Credits
PE1548 - Avalanche AIARE 2 (AVY 2) Course - 2 - Credits
PE1549 - AIARE Avalanche Rescue - 1 - Credits
PE1550 - Cycling - 1 - Credits
PE1580 - Canyoneering I - 1 - Credits
PE1605 - Skiing - 1 - Credits
PE1615 - Snowboarding - 1 - Credits
PE1670 - Figure Skating Beginning - 1 - Credits
PE1671 - Figure Skating Intermediate - 1 - Credits
PE1680 - Curling - 1 - Credits
PE1700 - Dance - 1 - Credits
PE1701 - Introduction to Modern Dance - 1 - Credits
PE1702 - Modern Dance Intermediate - 1 - Credits
PE1705 - Ballet - 1 - Credits
PE1710 - Western Swing - 1 - Credits
PE1711 - Western Swing Intermediate - 1 - Credits
PE1720 - Social and Ballroom Dance - 1 - Credits
PE1745 - Big Band Swing Level I - 1 - Credits
PE1746 - Big Band Swing Level II - 1 - Credits
PE1765 - Hip Hop Beginning/Intermediate - 1 - Credits
PE1800 - Community Engaged Learning in Recreation Services - 3 - Credits
PE1900 - Club Sports - 1 - Credits
PE1905 - Aggiettes - 1 - Credits
PE1906 - Eagle Dancers - 1 - Credits
PE1915 - Cheer Squad - 1 - Credits
PE2000 - Personal Instruction and Conditioning - 1 - Credits
PE2010 - Varsity Cross Country - 1 - Credits
PE2020 - Varsity Football - 1 - Credits
PE2030 - Varsity Soccer - 1 - Credits
PE2031 - Varsity Soccer 2 - 1 - Credits
PE2040 - Varsity Volleyball - 1 - Credits
PE2041 - Varsity Volleyball Second Year - 1 - Credits
PE2050 - Varsity Indoor Track and Field - 1 - Credits
PE2060 - Varsity Basketball 1 - 1 - Credits
PE2061 - Varsity Basketball 2 - 1 - Credits
PE2062 - Varsity Basketball 3 - 1 - Credits
PE2063 - Varsity Basketball 4 - 1 - Credits
PE2070 - Varsity Gymnastics - 1 - Credits
PE2080 - Varsity Track and Field - 1 - Credits
PE2090 - Varsity Softball 1 - 1 - Credits
PE2091 - Varsity Softball 2 - 1 - Credits
PE2092 - Varsity Softball 3 - 1 - Credits
PE2093 - Varsity Softball 4 - 1 - Credits
PE2100 - Varsity Golf - 1 - Credits
PE2110 - Varsity Tennis - 1 - Credits
PE2120 - Varsity Weight Training 1 - 1 - Credits
PE2121 - Varsity Weight Training 2 - 1 - Credits
PE2122 - Varsity Weight Training 3 - 1 - Credits
PE2123 - Varsity Weight Training 4 - 1 - Credits
PE2130 - Varsity Baseball 1 - 1 - Credits
PE2131 - Varsity Baseball 2 - 1 - Credits
PE2132 - Varsity Baseball 3 - 1 - Credits
PE2133 - Varsity Baseball 4 - 1 - Credits
PE2988 - Special Problems - 1 - 3 Credits
RAM1000 - Introduction to Recreation Services - 2 - Credits
RAM1500 - Leisure and Human Behavior (BSS) - 3 - Credits
RAM1700 - Backcountry Basics: Designing a Backcountry Experience - 3 - Credits
RAM1800 - Community Engaged Learning - 1 - 3 Credits
RAM1888 - Leadership from the Sideline - 2 - Credits
RAM1964 - Recreation on the Road Consortium - 3 - Credits
RAM2000 - Recreational Sport Management - 3 - Credits
RAM2200 - Introduction to Sport Analytics - 3 - Credits
RAM2250 - RAM Cooperative Work Experience - 4 - Credits
RAM2300 - Fundamentals of Sport Management - 3 - Credits
RAM2380 - Facility Management - 2 - Credits
RAM2500 - Outdoor Recreation Management - 3 - Credits
RAM2600 - Sport Tourism - 3 - Credits
RAM2988 - Special Problems - 1 - 3 Credits
RAM3000 - Recreation Experience Design I - 3 - Credits
RAM3100 - Experience and Sport Promotion and Marketing - 3 - Credits
RAM3200 - Evaluation of Recreation Services (QI) - 3 - Credits
RAM3300 - Sport Marketing Design - 3 - Credits
RAM3400 - Outdoor Education and Facilitation - 3 - Credits
RAM3900 - Civic Engagement in Recreation and Sports - 3 - Credits
RAM4000 - Experience and Event Design - 3 - Credits
RAM4100 - History of Leisure (CI) - 3 - Credits
RAM4200 - Community-Based Program Planning, Implementation, and Evaluation - 3 - Credits
RAM4205 - Program Management and Evaluation for Health Education - 3 - Credits
RAM4250 - Advanced Cooperative Work Experience - 1 - 12 Credits
RAM4300 - Sport Finance - 3 - Credits
RAM4400 - Recreation and Park Facility Planning and Management - 3 - Credits
RAM4500 - Management of Recreation Services - 3 - Credits
RAM4600 - Legal Issues and Risk Management of Recreation - 3 - Credits
RAM4800 - Senior Seminar (CI) - 3 - Credits
RAM4900 - Internship in Recreation Services - 6 - Credits
RAM5100 - Communications in Sport - 3 - Credits
RAM5130 - Data Analytics and Data Driven Decision Making in Sports - 3 - Credits
RAM5900 - Independent Study - 1 - 3 Credits
RAM5910 - Independent Research - 1 - 3 Credits

Landscape Architecture & Environmental Planning Department

Landscape Architecture and Environmental Planning

Department Head: Keith Christensen
Location: Fine Arts Visual 230
Phone: (435) 797-0500 | **FAX:** (435) 797-0503
Website: laep.usu.edu/

Undergraduate Advisement:

College of Agriculture and Applied Sciences Student Services Center, Deandra Harps, AGRS 417, (435) 797-9245, deandra.harps@usu.edu

Graduate Program Director: Carlos Licon, Fine Arts Visual 256, (435) 797-3978, carlos.licon@usu.edu

Graduate Program Questions: Carlos Licon, Fine Arts Visual 256, (435) 797-3978, carlos.licon@usu.edu

Degrees offered: Bachelor of Landscape Architecture (BLA) and Master of Landscape Architecture (MLA), Bachelor of Science in Environmental Planning (BsEP) and Master of Science in Environmental Planning (MsEP), Combined Bachelor and Master of Landscape Architecture (B+MLA), Combined Bachelor and Master of Environmental Planning (BLA+EP), and Ph.D. in Landscape Architecture and Environmental Planning (PhD). BLA and first professional MLA programs are fully accredited by the American Society of Landscape Architects. Certificates in Landscape Architecture, Environmental Planning, and Advanced Design, Geospatial, and Visualization Technologies.

Department Mission Statement

The mission of the Department of Landscape Architecture and Environmental Planning is to prepare and inform exceptional practitioners, scholars, leaders, and citizens to address the challenges of landscapes and communities across the globe. We do so to empower individuals and communities to make aesthetically, ecologically, and socially responsible landscape planning and design decisions in support of people and the environment.

Undergraduate Programs

Admission and Graduation Requirements

The Bachelor of Science in Environmental Planning (BsEP) degree program is an intensive four-year course of study. Any student admitted to USU is eligible for enrollment in the program, but must maintain a 2.5 institutional GPA to remain in good standing.

The Bachelor of Landscape Architecture (BLA) degree program is an intensive four-year studio-based course of study, fully accredited by the American Society of Landscape Architects. Accreditation standards require the department to maintain a reasonable faculty/student ratio. Space in the program is restricted by available facilities and faculty size. Admission to the upper division is limited to students who are determined by the faculty to have the best potential for academic success. Up to 30 students may be matriculated into the upper division of the BLA program.

Matriculation Requirements

Students applying for matriculation must have:

- LAEP 1200 - Introduction to Graphics and Illustration
- LAEP 1300 - Digital Drafting, Illustration, and Modeling
- LAEP 1350 - Theory of Design
- LAEP 2300 - History of Landscape Architecture (BHU)
- LAEP 2500 - Construction Materials and Detailing
- LAEP 2600 - Landscape Construction I (QI)
- LAEP 2700 - Analysis Design I
- LAEP 2720 - Analysis and Design 2
- PSC 2620 - Woody Plant Materials: Trees and Shrubs for the Landscape
- Submission of an application to matriculate consisting of:
    - A letter of intent
    - A portfolio demonstrating evidence of core competencies and visual/graphic communication ability

Portfolios and letters of intent are to be submitted by the last Monday in March. The final selection of students to matriculate to the upper division is a decision of the LAEP faculty. The review of students for matriculation will take place during the week following spring semester final exams, and students will be notified as soon as possible thereafter.

Students who have had LAEP courses waived or covered by articulation from another institution will have their GPA calculated only on the basis of LAEP grades actually earned at USU.

Transfer students from other programs of landscape architecture who have completed the equivalent of the lower-division USU LAEP coursework may apply for admission to the upper division of the program by submitting the following:

- A portfolio
- Letter of intent
- Transcription of grades
- Description of landscape architecture courses taken

Computer Requirements

Computer competency is essential in the contemporary professional environment. Appropriate computer skills are required for most entry-level opportunities in landscape architecture and environmental planning.

Course content increasingly relies on computer skills and personal access to computers with the appropriate software.

All students in the BLA program (beginning with LAEP 1300) must purchase, lease, or otherwise obtain continuing and uninterrupted access to a personal computer, preferably a laptop, which meets the configuration requirements specified by the LAEP Department.

Recommended High School Courses

High school students planning to major in landscape architecture may enhance their preparation with courses in art, natural sciences, social sciences, horticulture, computer applications, and math through college algebra.

Sample Four-year Plan for Landscape Architecture Major

A semester-by-semester four-year plan for students working toward a Landscape Architecture - BLA or an Environmental Planning BsEP degree can be found on the department website and in the online catalog.

Students should consult with the College of Agriculture and Applied Sciences student advisor to develop a plan of study tailored to their individual needs and interests.

Study Abroad

The department supports a longstanding cooperative agreement with the University of Ljubljana, Slovenia where students can study for a semester. Approved courses of study in design and planning programs offered by other institutions may count toward the travel requirement; however, course substitutions are subject to faculty approval. Students can also travel to Germany to study for a semester at the University of Anhalt in Bernburg, Germany.

Faculty-Sponsored Field Study Travel

The department has a long tradition of a professionally oriented, faculty-led "Spring Break" trip, which is required for undergraduate BLA students under LAEP 4350. Recent trips have included San Francisco, Israel, Portugal, Paris, Japan, Los Angeles, Portland, Seattle, Vancouver, Boston, Washington, DC, and New York.

Individual Travel

Undergraduate students desiring to count profesionally oriented individual travel toward their degree will need to enroll in LAEP 4350 - Travel Course. Prior to enrollment, students must submit and have approved a proposal for individual travel/study to the LAEP Travel Coordinator faculty for review. The content, objectives, and outcomes of the proposal will be evaluated for parity with the educational objectives of the travel program. See the LAEP website for details.

University Honors Program

The University Honors Program offers students in all colleges and majors the unique opportunity to deepen their educational experience with hands-on practical applications of their academic knowledge. The Honors Program admits incoming, transfer, and existing USU students based on application. High achieving students with at least one year remaining are encouraged to apply. See the University Honors Program catalog entry and website (honors.usu.edu) for more information.

Additional Information

For detailed information about requirements for the Bachelor of Landscape Architecture or the Bachelor of Science in Environmental Planning degrees, see the department website.

Internships and Cooperative Education

Many students take advantage of the practical learning opportunities available through internships and cooperative education programs. The student, in cooperation with the department and government agency or private firm, makes the necessary arrangements. Internships and cooperative education experiences are not required for degree completion.

Financial Assistance

The application deadlines for scholarships and financial assistance vary. For current application deadline information, contact the LAEP Department, the USU Financial Aid Office, and the School of Graduate Studies. Acceptance to pursue graduate study does not guarantee the student financial assistance.

Career Opportunities

The Department of Landscape Architecture and Environmental Planning provides education for careers in landscape architectural site planning, design, environmental planning, and management, with special consideration for conditions in the Intermountain West. Graduates are employed by local, state, and federal agencies, as well as by private sector professional firms. LAEP graduates also find employment in academia at both the undergraduate and graduate levels.

Graduate Programs

Landscape Architecture - MLA

The department offers a three-year, first professional degree for students with a bachelor's degree in any area of study. This option allows students having a wide range of undergraduate experience to obtain an accredited degree in landscape architecture that fulfills the educational requirement for professional registration and allows entrance into the field of landscape architecture.

The program for the Master of Landscape Architecture (MLA) emphasizes both traditional site planning and design, as well as broader areas of the profession, such as large-scale regional landscape analysis and planning, open space conservation, historic landscape preservation, and sustainable design. The MLA first professional degree is fully accredited by the Landscape Architectural Accreditation Board of the American Society of Landscape Architects.

The Master of Landscape Architecture program is designed to prepare the student for the landscape architect's challenging role of providing a holistic approach to environmental planning and design. In order for landscape architects to contribute effectively to an interdisciplinary effort, they must be competent in the fundamentals of landscape architecture and also have an understanding of the subject matter of other professions. Landscape architects must master the communication skills necessary to achieve meaningful collaboration. In support of this philosophy, the following are the major objectives of the MLA program.

1. To provide a well-structured curriculum in fundamental professional knowledge and skills.
2. To research, analyze, and resolve land use and design issues related specifically to the Intermountain West. The scope of the program examines national, regional, and local issues; and their impact on the visual, physical, and cultural setting of the Intermountain West.
3. To integrate field experience and research into major graduate studio courses structured around real-world projects.
4. To provide opportunities for each student for exploration and development of an area of concentration as noted elsewhere.
5. To draw upon the regional, national, and international relationships of Utah State University to facilitate a program of academic and professional excellence which will allow the student to achieve eminence in practice, research, or education.

Admission Requirements

The application deadline for consideration in the first round of reviews is March 15. Applications received later than March 15 will be considered as space availability allows.

Computer Requirement

Computer competency is essential in the contemporary professional environment. Appropriate computer skills are required for most entry-level opportunities in landscape architecture and environmental planning. Therefore, course content increasingly relies on computer skills and personal access to computers with the appropriate software.

All students entering the MLA program must purchase, lease, or otherwise obtain continuing and uninterrupted access to a personal computer, preferably a laptop, which meets the configuration requirements specified by the LAEP Department. Consult the departmental website for current specifications.

Course of Study

The graduate program director oversees academic advising of all incoming students until they have selected a thesis topic. A major professor whose interests are closely aligned to those of the student then supervises thesis work. All courses require a minimum grade of C or higher. A total of 80 credits are required for this program.

Landscape Architecture (Advanced Professional Degree) - MLA

The MLA-Advanced Professional degree is a two-year accredited program of study. Applicants must hold baccalaureate degrees in landscape architecture from accredited programs. The advanced degree allows outstanding students to expand their knowledge in areas of special interest under the supervision of a major professor and supervisory committee.

The Graduate Program Director advises all incoming students until they have selected a thesis topic. Once a thesis topic has been identified, it is the students responsibility to seek a major professor and committee members from within the LAEP Department faculty.

Environmental Planning - MS

Informed planning and management of natural resources and systems supersede individual disciplines, requiring an interdisciplinary approach for the successful resolution of environmental issues. The intent of this program's curriculum is to integrate the biophysical disciplines more closely while also addressing the social and political sciences. This degree program is offered by the Department of Landscape Architecture and Environmental Planning in the College of Agriculture and Applied Sciences.

Course of Study

This two-year MS program is comprised of an interdisciplinary core of courses and faculty for addressing complex issues in the areas of bioregional planning and management. Emphasis is placed on four problematic content areas: biophysical, social/demographic, economic, and public policy. The spatial focus is on the planning for large landscape areas with dispersed populations with a primary economic base in agriculture, energy development, tourism/recreation, retirement communities, and natural resources.

The program requires a minimum of 41 graduate-level credits, including 5 credits of work on a thesis or paper/project. Three of the required credits may be in an area of concentration. These credits are to be negotiated with the candidate's major professor and supervisory committee.

Accelerated Master of Landscape Architecture - BLA, MLA

The accelerated Bachelor of Landscape Architecture and Master of Landscape Architecture (BLA+MLA) program allows advanced Landscape Architecture and Environmental Planning (LAEP) undergraduates the opportunity to pursue a combined bachelor's and master's degree program within an accelerated time frame.

The mission of the accelerated BLA+MLA program is to prepare future professionals to address the dynamic issues and scales of landscapes across the Intermountain West and around the world and engage in creative intellectual work that contributes to the theory and practice of landscape architecture.

To be accepted into the combined BLA+MLA program, students must apply for the Master's of Landscape Architecture Degree during their junior year. If accepted, they begin taking graduate-level courses during their senior year. Students only pay graduate-level tuition during their fifth year of study.

Accelerated Bachelor of Landscape Architecture and Master of Science in Environmental Planning - BLA, MsEP

The accelerated Bachelor of Landscape Architecture and Master of Science in Environmental Planning (BLA+EP) program allows advanced Landscape Architecture and Environmental Planning (LAEP) undergraduates the opportunity to pursue a combined bachelor's and master's degree program within an accelerated time frame.

The mission of the accelerated BLA+EP program is to prepare future professionals to recognize the reciprocal relationship between the biophysical attributes of a region and the human dimensions of settlement and culture; build expertise in landscape level analysis and planning, and how to prepare to serve as leaders within a trans-disciplinary environment to develop better alternatives for land-use decisions and policy. This mission will be accomplished through a core set of undergraduate and graduate landscape architecture and environmental planning courses and experiences.

To be accepted into the combined BLA+EP program, students must apply to the Environmental Planning Master's Degree via during their junior year. If accepted, they begin taking graduate level courses during their senior year. Students only pay graduate level tuition during their fifth year of study.

Landscape Architecture and Environmental Planning - PhD

The interdisciplinary Doctor of Landscape Architecture and Environmental Planning prepares leaders and future faculty in landscape architecture by engaging in creative intellectual work that contributes to the theory and practice of landscape architecture. Candidates apply critical theories and methods in landscape architecture to address the dynamic issues and scales of natural and built landscapes in the context of human systems. All courses require a minimum grade of C or higher. A total of 60 credits are required for this program.

FACULTY - College of Agriculture and Applied Sciences

Programs

Advanced Design, Geospatial, and Visualization Technologies - Institutional Certificate of Proficiency
Design Entrepreneurship - Institutional Certificate of Proficiency
Digital Modeling and Visualization - AS
Digital Modeling and Visualization - Institutional Certificate of Proficiency
Environmental Planning - Minor
Environmental Planning - BS
Environmental Planning - Institutional Certificate of Proficiency
Environmental Planning - MS
Landscape Architecture - Minor
Landscape Architecture - BLA
Accelerated Master of Landscape Architecture - BLA, MLA
Accelerated Bachelor of Landscape Architecture and Master of Science in Environmental Planning - BLA, MsEP
Landscape Architecture - MLA
Landscape Architecture and Environmental Planning - PhD
Planning & Design Technologies – BS
Sustainable Systems - Minor

Courses

DMV1050 - Application and Ethics of Visualization - 2 - Credits
DMV3100 - Unreal Engine 1 - 4 - Credits
LAEP1010 - Design Careers - 1 - Credits
LAEP1030 - Introduction to Landscape Architecture (BCA) - 3 - Credits
LAEP1040 - Introduction to Environmental Planning and Sustainable Development (BLS) - 3 - Credits
LAEP1200 - Introduction to Graphics and Illustration - 4 - Credits
LAEP1300 - Digital Drafting, Illustration, and Modeling - 3 - Credits
LAEP1350 - Theory of Design - 4 - Credits
LAEP1360 - Fundamentals of Design - 4 - Credits
LAEP2039 - Foundations of Sustainable Systems - 3 - Credits
LAEP2200 - AutoCAD for Environmental Design - 3 - Credits
LAEP2250 - Internship and Cooperative Education - 1 - 5 Credits
LAEP2300 - History of Landscape Architecture (BHU) - 3 - Credits
LAEP2400 - 3D Representation - 3 - Credits
LAEP2450 - Artificial Intelligence Generative Design - 3 - Credits
LAEP2500 - Construction Materials and Detailing - 4 - Credits
LAEP2510 - Landscape Materials - 2 - Credits
LAEP2600 - Landscape Construction I (QI) - 4 - Credits
LAEP2700 - Analysis Design I - 5 - Credits
LAEP2720 - Analysis and Design 2 - 5 - Credits
LAEP2900 - VR Design and Thematics Studio - 3 - Credits
LAEP3200 - Graphic Design for Landscape Architects and Environmental Planners - 3 - Credits
LAEP3300 - GIS for Environmental Planning - 4 - Credits
LAEP3400 - Advanced Geospatial Analysis and Visualization for Environmental Planning - 4 - Credits
LAEP3500 - Planting Design - 4 - Credits
LAEP3610 - Landscape Construction II - 5 - Credits
LAEP4110 - Landscape Construction II - 4 - Credits
LAEP4250 - Internship and Cooperative Education - 1 - 5 Credits
LAEP4900 - Special Problems - 1 - 5 Credits
LAEP4910 - Foundations of Business in Design and Planning (CI) - 3 - Credits
LAEP4911 - Entrepreneurship in Design and Planning - 3 - Credits
LAEP5060 - E Studio/Entrepreneurship in Planning and Design (CI) - 3 - Credits
LAEP5070 - Zoo Design - 3 - Credits
LAEP5090 - Sustainable Low Water Landscaping - 3 - Credits
LAEP5100 - Senior Capstone: Planning & Design Leadership - 5 - Credits
LAEP5200 - Bioregional Analysis and Planning - 5 - Credits
LAEP5210 - Bioregional Management and Policy - 5 - Credits
LAEP5300 - GIS for Environmental Planning - 4 - Credits
LAEP5310 - Recreation and Open Space Planning and Design - 5 - Credits
LAEP5320 - Land Planning for Residential Development - 5 - Credits
LAEP5370 - City and Regional Planning (CI) - 3 - Credits
LAEP5380 - Planning Methods - 3 - Credits
LAEP5400 - Advanced Geospatial Analysis and Visualization for Environmental Planning - 4 - Credits
LAEP5410 - Urban Theory, Systems, and Design - 5 - Credits
LAEP5550 - Travel Course - 2 - Credits
LAEP6030 - 2D Color Graphic Representation - 3 - Credits
LAEP6060 - E Studio / Entrepreneurship in Planning and Design (CI) - 3 - Credits
LAEP6090 - Sustainable Low Water Landscaping - 3 - Credits
LAEP6100 - Regional Landscape Analysis and Planning - 5 - Credits
LAEP6110 - Landscape Ecology for Planning - 3 - Credits
LAEP6120 - Regional Landscape Policy and Implementation - 2 - Credits
LAEP6140 - Digital Drafting, Illustration, and Modeling - 3 - Credits
LAEP6160 - Foundations of Business in Design and Planning - 3 - Credits
LAEP6200 - Bioregional Analysis and Planning - 5 - Credits
LAEP6210 - Bioregional Management and Policy - 5 - Credits
LAEP6220 - 2D Graphic Representation - 4 - Credits
LAEP6230 - History of Landscape Architecture - 3 - Credits
LAEP6240 - 3D Representation - 3 - Credits
LAEP6250 - Internship and Cooperative Education Program - 1 - 5 Credits
LAEP6260 - Landscape Construction I - 4 - Credits
LAEP6270 - Analysis Design II - 5 - Credits
LAEP6300 - GIS for Environmental Planning - 4 - Credits
LAEP6310 - Recreation and Open Space Planning and Design - 5 - Credits
LAEP6320 - Land Planning for Residential Development - 5 - Credits
LAEP6350 - Planting Design - 4 - Credits
LAEP6370 - City and Regional Planning - 3 - Credits
LAEP6400 - Advanced Geospatial Analysis and Visualization for Environmental Planning - 3 - 4 Credits
LAEP6410 - Urban Theory, Systems, and Design - 5 - Credits
LAEP6450 - Artificial Intelligence Generative Design - 3 - Credits
LAEP6550 - Travel Course - 2 - Credits
LAEP6600 - Landscape Construction I - 4 - Credits
LAEP6700 - Analysis Design I - 5 - Credits
LAEP6730 - Theory of Landscape Architecture - 3 - Credits
LAEP6740 - Planning Theory and Implementation Issues - 3 - Credits
LAEP6750 - Implementation and Regulatory Techniques in Planning - 3 - Credits
LAEP6860 - Faculty/Interdisciplinary Seminar I - 1 - Credits
LAEP6862 - Faculty/Interdisciplinary Seminar II - 1 - Credits
LAEP6880 - Landscape Architecture Research Methods - 2 - Credits
LAEP6890 - Seminar on Thesis Proposals and Procedures - 1 - Credits
LAEP6900 - Special Problems - 1 - 5 Credits
LAEP6910 - Readings in Landscape Architecture - 1 - Credits
LAEP6911 - Entrepreneurship in Design and Planning - 3 - Credits
LAEP6930 - Readings in Environmental Planning - 1 - Credits
LAEP6960 - Master's Project - 1 - 6 Credits
LAEP6970 - Thesis Research - 1 - 6 Credits
LAEP6990 - Continuing Graduate Advisement - 1 - 3 Credits
LAEP7800 - Introduction to the Professoriate - 2 - Credits
LAEP7810 - Research Internship - 1 - Credits
LAEP7820 - College Teaching - Seminar - 1 - Credits
LAEP7830 - College Teaching - Studio - 2 - Credits
LAEP7910 - Conference Presentation - 1 - Credits
LAEP7920 - Writing for Publication - 2 - Credits
LAEP7930 - Grant Writing - 2 - Credits
LAEP7940 - Review of Literature - 1 - Credits
LAEP7970 - Dissertation - 1 - 6 Credits

Management Department

Management

Department Head: Konrad Lee

Administrative Assistant : Julie Pond, EBB 306 (435) 797-1789, julie.pond@usu.edu
Location: Eccles Business Building (EBB) 306
Phone: (435) 797-1789
Website: huntsman.usu.edu/management/

Undergraduate Advisor: Kaylee Riggs, EBB 309, (435) 797-2272, kaylee.riggs@usu.edu

Master of Human Resources: Graduate Program Directors:
One-Campus: Chris Hartwell, EBB 302A, (435) 797-5782, chris.hartwell@usu.edu
Professional Program: Bruce Boucher, Salt Lake Center 535, (435) 646-7723, bruce.boucher@usu.edu

Graduate Program Coordinator: Heather Buatte, EBB 315, (435) 797-9753, heather.buatte@usu.edu

Degrees Offered

Majors: Bachelor of Science (BS) and Bachelor of Arts (BA) in Management

Undergraduate Minors Offered: Business, Healthcare Management, Human Resource Management, Operations and Supply Chain Management, People and Organizations

Graduate Programs: Master of Human Resources (MHR)

Assessment

Full details of the learning objectives, assessment plan, student outcomes, and evidence of continuous improvement for these programs of study can be found at huntsman.usu.edu/assessment/.

Financial Assistance

The Huntsman School offers scholarships to undergraduate students. Each graduate program has unique scholarships, fellowships, assistantships, and waivers available. Details about available Huntsman School scholarships can be found at huntsman.usu.edu/scholarships.

Undergraduate Program Requirements

Huntsman School of Business Admission Requirements

First-Year and Transfer Students are admitted to the Huntsman School of Business based on USU's Admission Requirements.

Current USU Students in good standing qualify for admission to a Huntsman School major.

Huntsman School Admission Details: https://huntsman.usu.edu/undergraduate/apply

All students enrolled at USU are required to satisfy the General Education Requirements and the University Studies Requirements of the university.

Matriculation Requirements and Transfer Limitation

To earn a bachelor's degree in a Huntsman School major, at least 50 percent of the required Huntsman School credits must be earned from coursework taken from the Utah State University Huntsman School of Business.

USU Credits and Business Credits

At least 30 of the last 60 semester credits must be taken from Utah State University, at least 20 of which must be completed in upper-division courses, and of which at least 10 credits must be completed in courses required by the student's major. At least 50 percent of the Huntsman School of Business credits required for a Huntsman School degree must be taken from the Utah State University Huntsman School or its departments, which include: School of Accountancy, Data Analytics and Information Systems, Economics and Finance, Management, and Marketing and Strategy.

Graduation Requirements

To be recommended by the department for graduation, majors in the Department of Management must have a grade point average of at least 2.50 in their upper-division Huntsman School of Business acumen and major requirement courses, a C or better in HSB business acumen courses, and an overall GPA of 2.0. This includes transfer credits. At least fifty percent of the business credits required for a business degree must be taken on the Utah State University campus or at a designated residence center.

Four-Year Degree Plan (8 Semesters)

A four-year degree plan for the Management major is available in the Huntsman School's FJ Management Center for Student Success, EBB 309, and at https://huntsman.usu.edu/advising/majors/management_major.

Graduate Program

The Master of Human Resources (MHR) program prepares students to be leaders and strategic thinkers in identifying, attracting, and developing talent, putting them on the path towards senior roles managing human capital. Recent graduates have begun their HR careers at Fortune 100 companies including Chevron, Ford Motor Company, General Electric, Honeywell, and TIAA.

FACULTY - Jon M. Huntsman School of Business

Programs

Business - Minor
Healthcare Management - Minor
Hotel Management - Minor
Human Resource Management - Minor
Master of Human Resources - MHR
Management - BA, BS
Management - Healthcare Management Emphasis - BA, BS

Management - Hotel Management Emphasis - BA, BS (NOT CURRENTLY OFFERED)
Management - Human Resources Management Emphasis - BA, BS
Management - Operations and Supply Chain Management Emphasis - BA, BS
Management - Wealth Management Emphasis - BA, BS
Operations and Supply Chain Management - Minor
People and Organizations - Minor

Courses

MGT1000 - Business Career Preparation - 1 - Credits
MGT3100 - Organizational Behavior - 2 - Credits
MGT3150 - Critical Thinking for Managerial Decision Making - 2 - Credits
MGT3250 - Managing Human Capital - 3 - Credits
MGT3350 - Legal and Ethical Environment of Business - 3 - Credits
MGT3400 - Managerial Ethics - 2 - Credits
MGT3450 - Film and Management - 1 - Credits
MGT3600 - Project Management - 2 - Credits
MGT3700 - Operations Management - 3 - Credits
MGT3710 - Team Management - 2 - Credits
MGT3810 - Employment Law (DSS) - 3 - Credits
MGT3830 - International Law - 2 - Credits
MGT3940 - Principles of Hotel Management - 3 - Credits
MGT3950 - Hotel Operations - 3 - Credits
MGT3960 - Hotel Sales and Events - 3 - Credits
MGT3970 - Hotel Revenue and Cost Management - 3 - Credits
MGT4250 - Management Internship - 1 - 3 Credits
MGT4500 - Principles of Healthcare Management - 3 - Credits
MGT4510 - Innovation and Improvement in Healthcare Management - 3 - Credits
MGT4520 - Healthcare Policy and Strategy - 3 - Credits
MGT4600 - Negotiations - 2 - Credits
MGT4610 - Recruitment and Selection - 2 - Credits
MGT4620 - Talent Acquisition - 3 - Credits
MGT4630 - Applied Human Resource Management - 3 - Credits
MGT4720 - Sales and Operations Planning - 2 - Credits
MGT4740 - Quality Management - 2 - Credits
MGT4760 - Services Management - 2 - Credits
MGT4790 - Managing Global Value Chains - 2 - Credits
MGT4800 - Independent Research and Readings - 1 - 3 Credits
MGT4850 - Special Topics in Management - 1 - 3 Credits
MGT5730 - Lean Continuous Improvement - 3 - Credits
MGT6100 - Managing Projects - 2 - Credits
MGT6150 - Human Resource Information Systems - 2 - Credits
MGT6200 - Negotiation For Executives - 1 - 3 Credits
MGT6250 - Graduate Internship - 1 - 6 Credits
MGT6300 - Human Resource (HR) Career Essentials - 0.5 - Credits
MGT6320 - Leadership, Talent, and Organizational Effectiveness - 3 - Credits
MGT6330 - Applied Human Resources Research - 3 - Credits
MGT6400 - Creating an Inclusive Workplace - 2 - Credits
MGT6500 - Managing Individuals and Groups - 3 - Credits
MGT6550 - Talent Acquisition and Retention - 3 - Credits
MGT6600 - Applied Human Resources (HR) Consulting - 3 - Credits
MGT6620 - Training and Organizational Development - 2 - Credits
MGT6630 - Compensation and Benefits Management - 3 - Credits
MGT6640 - Selected Topics in Management and Human Resources - 0.5 - 3 Credits
MGT6645 - Ethics and Business Law - 3 - Credits
MGT6670 - Employee Relations and the Labor Movement - 3 - Credits
MGT6675 - Mediation, Negotiation, and Conflict Resolution for Human Resource Professionals - 2 - 3 Credits
MGT6680 - Human Resource Analytics - 3 - Credits
MGT6690 - Human Resource Strategy - 3 - Credits
MGT6720 - Strategic Supply Chain Management - 3 - Credits
MGT6730 - Lean Continuous Improvement - 3 - Credits
MGT6760 - Employment Law - 3 - Credits
MGT6870 - HR in an International Context - 0.5 - 3 Credits
MGT6900 - Independent Research and Reading - 1 - 3 Credits
MGT6970 - Thesis - 1 - 4 Credits
MGT6990 - Continuing Graduate Advisement - 1 - 3 Credits

Marketing and Strategy Department

Marketing and Strategy

Department Head: Chad Albrecht
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Graduate Program Faculty Director: Brad Winn, (435) 851-2002, brad.winn@usu.edu

Graduate Program Coordinators:
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Landon Smith, HH 438A, (435-7979-4090) landon.smith@usu.edu

Degrees Offered

Majors: Bachelor of Science (BS) and Bachelor of Arts (BA) in Marketing

Undergraduate Minors: Consumer Psychology, Entrepreneurship, International Business, Leadership and Management, Marketing, Marketing Design, and Technical Sales Management

International Business: Certificate

Graduate Program: Master of Business Administration (MBA)

Assessment

Full details of the learning objectives, assessment plan, student outcomes, and evidence of continuous improvement for these programs of study can be found at https://huntsman.usu.edu/assessment/

Financial Assistance

The Huntsman School offers scholarships to undergraduate students. Each graduate program has unique scholarships, fellowships, assistantships, and waivers available. Details about offerings are available at: https://huntsman.usu.edu/scholarships

Undergraduate Program Requirements

Huntsman School of Business Admission Requirements

First-Year and Transfer Students are admitted to the Huntsman School of Business based on USU's Admission Requirements.

Current USU Students in good standing qualify for admission to a Huntsman School major. Huntsman School Admission Details: https://huntsman.usu.edu/undergraduate/apply

All students enrolled at USU are required to satisfy the General Education Requirements and the University Studies Requirements of the university.

Matriculation Requirement and Transfer Limitation

At least 50 percent of the required Huntsman School credits must be earned from coursework taken from the Utah State University Huntsman School.

USU Credits and Business Credits

At least 30 of the last 60 semester credits must be taken from Utah State University, at least 20 of which must be completed in upper-division courses, of which at least 10 credits must be completed in courses required by the student's major. At least 50 percent of the Huntsman School of Business credits required for a Huntsman School degree must be taken from the Utah State University Huntsman School or its departments, which include: School of Accountancy, Economics and Finance, Management, Data Analytics & Information Systems, and Marketing & Strategy.

Graduation Requirements

At least 30 of the last 60 semester credits must be taken from Utah State University, at least 20 of which must be completed in upper-division courses, of which at least 10 credits must be completed in courses required by the student's major. At least 50 percent of the Huntsman School of Business credits required for a Huntsman School degree must be taken from the Utah State University Huntsman School or its departments, which include: School of Accountancy, Economics and Finance, Management, Data Analytics and Information Systems, and Marketing and Strategy.

An overall GPA of 2.0 and a major GPA of 2.5 is required for graduation.

Four-Year Degree Plan (8 Semesters)

A four-year degree plan for the Marketing major can be found in the catalog and at the URL below:

- **Marketing**: https://huntsman.usu.edu/advising/majors/marketing_major

Graduate Programs

The USU Huntsman MBA prepares students to manage business in a variety of areas, setting them apart in their current career field or once they enter the workforce. Students from all backgrounds and undergraduate degrees can earn an MBA.

USU's Huntsman School of Business started offering degrees in 1894 and employs faculty with real-world experience. The hands-on curriculum delivered by world-renowned faculty gives students the education they need to land the career they want. The school has long held prestigious accreditation from the Association to Advance Collegiate Schools of Business (AACSB) International.

The mission of the MBA program is to provide students with a relevant and rigorous background in business, increase student problem-solving and critical analysis skills, and develop the next generation of business leaders. Students are trained to lead, manage, and improve business performance. Students learn how to commercialize profitable ideas more efficiently, economically, and successfully. They possess the know-how to improve existing businesses and create new businesses, and are armed with cutting-edge intelligence and analytic tools to gain a deeper and clearer understanding of both domestic and global markets, customers, and competition.

FACULTY - Jon M. Huntsman School of Business

Programs

Consulting - Minor (NOT CURRENTLY OFFERED)
Consumer Psychology - Minor
Entrepreneurship - Minor
International Business - Institutional Certificate of Proficiency
International Business - Minor
International Business - BA, BS (NOT CURRENTLY OFFERED)
Leadership and Management - Minor
Marketing Design - Minor
Marketing - Minor
Marketing - BA, BS
Master of Business Administration - MBA
Tech Innovation and Entrepreneurship - Post-Bachelor's Certificate
Technical Sales Management - Minor

Courses

MGT3850 - Sports Management - 2 - Credits
MSLE1800 - Leadership and Human Flourishing - 3 - Credits
MSLE2500 - Business for Good: Making an Impact through Social Entrepreneurship - 2 - Credits
MSLE2550 - Entrepreneur Leadership Series - 1 - Credits
MSLE2600 - Introduction to Entrepreneurship - 3 - Credits
MSLE2650 - Adobe Graphic Design - 3 - Credits
MSLE2700 - 7-Habits of Highly Effective People - 2 - Credits
MSLE2750 - Enhancing Happiness in Your Life and Career - 3 - Credits
MSLE2800 - HMA Consulting - 1 - Credits
MSLE2850 - PhD Prep Seminar - 1 - Credits
MSLE2900 - Pro Sales - 1 - Credits
MSLE3110 - Managing Organizations and People (DSS) - 3 - Credits
MSLE3200 - Adobe Graphic Design - 3 - Credits
MSLE3300 - Contemporary Issues in International Trade - 3 - Credits
MSLE3500 - Fundamentals of Marketing - 3 - Credits
MSLE3510 - New Venture Creation - 3 - Credits
MSLE3530 - New Venture Marketing - 3 - Credits
MSLE3540 - New Venture Finance - 3 - Credits
MSLE3555 - Applied Artificial Intelligence in Entrepreneurship - 3 - Credits
MSLE3580 - New Venture Execution - 3 - Credits
MSLE3585 - New Venture Practicum - 3 - Credits
MSLE3590 - Small Business Consulting - 2 - Credits
MSLE3610 - Strategic Planning for Career and Life (CI) - 2 - Credits
MSLE3620 - Marketing Research and Analytics - 2 - Credits
MSLE3630 - E-Commerce and Internet Marketing - 2 - Credits
MSLE3710 - Leading Teams - 2 - Credits
MSLE3800 - Leadership - 2 - Credits
MSLE3805 - Practical Leadership - 2 - Credits
MSLE3810 - Personal Leadership - 2 - Credits
MSLE3820 - International Business (DSS) - 3 - Credits
MSLE3855 - Sustainability Marketing - 2 - Credits
MSLE3875 - Strategic Advertising Campaigns - 2 - Credits
MSLE3890 - Systems Strategy and Problem Solving - 2 - Credits
MSLE4000 - Leading in Constant Change - 3 - Credits
MSLE4050 - International Marketing - 3 - Credits
MSLE4200 - Strategic Consulting - 3 - Credits
MSLE4250 - Marketing-Strategy-Leadership-Entrepreneurship Internship - 2 - Credits
MSLE4510 - Consumer Behavior - 2 - Credits
MSLE4535 - Promotional Strategy - 2 - Credits
MSLE4541 - Marketing Strategies for Athletes and Influencers - 2 - Credits
MSLE4545 - Digital Marketing - 2 - Credits
MSLE4555 - Pricing & B2B Buyer-Seller Decisions - 2 - Credits
MSLE4560 - Strategic Sales (CI) - 2 - Credits
MSLE4562 - Sales and Marketing Practicum - 2 - Credits
MSLE4565 - Sales Management - 2 - Credits
MSLE4575 - Customer Success Strategy - 2 - Credits
MSLE4580 - Artificial Intelligence in Marketing Experimental Design - 2 - Credits
MSLE4590 - Marketing Strategy - 3 - Credits
MSLE4609 - Special Topics in Marketing - 2 - Credits
MSLE4800 - Independent Research and Readings - 1 - 3 Credits
MSLE4810 - Local Marketing Career Accelerator - 2 - Credits
MSLE4820 - National Marketing Career Accelerator - 2 - Credits
MSLE4895 - Consulting Skills - 3 - Credits
MSLE6000 - Business Fundamentals - 1 - 3 Credits
MSLE6200 - Executive Influence - 3 - Credits
MSLE6250 - Graduate Internship - 1 - 6 Credits
MSLE6310 - Career and Professional Development - 1 - 3 Credits
MSLE6410 - Enterprise and Value Creation - 3 - Credits
MSLE6430 - Enterprise Growth and Management - 2 - 3 Credits
MSLE6470 - Project Planning and Execution - 3 - Credits
MSLE6500 - Marketing Analysis and Decision Making - 3 - Credits
MSLE6520 - Enterprise Brand and Marketing - 3 - Credits
MSLE6530 - Marketing Research and Analytics - 3 - Credits
MSLE6640 - Selected Topics in Business Administration - 0.5 - 3 Credits
MSLE6641 - Special Topics in Marketing - 0.5 - 3 Credits
MSLE6642 - Special Topics in Strategy - 0.5 - 3 Credits
MSLE6643 - Special Topics in Leadership - 0.5 - 3 Credits
MSLE6644 - Special Topics in Entrepreneurship - 0.5 - 3 Credits
MSLE6645 - Innovative and Inclusive Leadership - 3 - Credits
MSLE6650 - Strategic Sales Management - 3 - Credits
MSLE6741 - Leadership Development - 3 - Credits
MSLE6850 - Shingo Global Strategic Thinking - 0.5 - 3 Credits
MSLE6855 - Shingo Workshops - 0.5 - 3 Credits
MSLE6860 - Shingo Project - 0.5 - 3 Credits
MSLE6870 - Global Strategic Thinking - 3 - Credits
MSLE6890 - Advanced Strategy - 3 - Credits
MSLE6891 - Systems Thinking and Advanced Tactics - 2 - Credits
MSLE6892 - Systems Thinking and Advanced Tactics II - 1 - Credits
MSLE6900 - Independent Research and Reading - 1 - 3 Credits
MSLE6970 - Thesis - 1 - 4 Credits
MSLE6990 - Continuing Graduate Advisement - 1 - 3 Credits
MSLEELEC - Marketing and Strategy Elective - 1 - 3 Credits

MSLEEXPE - Marketing and Strategy International Experience - - Credits
MSLEINTLE - Marketing International Language - 2 - 3 Credits
MSLELANG - Marketing and Strategy International Language - 1 - 16 Credits
MSLEMKT - Marketing and Strategy Marketing Elective - 2 - Credits
MSLEMKTRE - Marketing Research - 2 - Credits

Mathematics & Statistics Department

Mathematics & Statistics

Department Head: John Stevens
Location: Animal Science (ANSC) 110
Phone: (435) 797-2810 | **FAX:** (435) 797-1822
Email: john.r.stevens@usu.edu
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Assistant Department Head: Luis Gordillo, Animal Science 109, (435) 797-0245, luis.gordillo@usu.edu

Assistant Department Head for Graduate Program Studies: Yan Sun, Animal Science 310, (435) 797-2861, yan.sun@usu.edu

Assistant Department Head for Undergraduate Studies: Kady Schneiter, Animal Science 323, (435) 797-2820, kady.schneiter@usu.edu

Assistant Department Head for Statewide Campuses: Don Busenbark, USU Uintah Basin - Roosevelt, (435) 722-1758, don.busenbark@usu.edu

Actuarial Science Program Coordinator: Daniel C. Coster, Animal Science 219, (435) 797-2815, dan.coster@usu.edu

Undergraduate Advising: Linda Skabelund, Animal Science 117, (435) 797-8311, linda.skabelund@usu.edu

Degrees offered: Bachelor of Science (BS), Bachelor of Arts (BA), and Master of Science (MS) in Mathematics; BS and BA in Mathematics Education; BS in Composite Mathematics-Statistics Education; BS in Composite Mathematics/Statistics; Master of Mathematics (MMath); BS, BA, and MS in Statistics; MS in Industrial Mathematics; Doctor of Philosophy (PhD) in Mathematical Sciences

Graduate specializations: *PhD in Mathematical Sciences*—College Teaching, Interdisciplinary Studies, Pure and Applied Mathematics, and Statistics

Full details of the learning objectives, assessment plan, student outcomes, and evidence of continuous improvement for these programs of study can be found at math.usu.edu by clicking on the assessment tab.

Undergraduate Programs

Objectives

The Department of Mathematics and Statistics offers a variety of programs and courses designed to prepare students for careers in teaching and for positions as mathematicians and statisticians in industry and government. The department also provides service courses for students in many other disciplines and contributes to the University Studies program by providing Quantitative Literacy and Quantitative Intensive classes.

Placement of New Students

Current mathematics ACT/SAT scores, Math Placement Exam scores, and Advanced Placement (AP) calculus and statistics scores are used for placement in 1000-level and 2000-level mathematics and statistics courses. *A current score is defined as a score from an exam taken within the last year (three consecutive semesters, including summer).*

Prerequisites for MATH 995, MATH 1060, MATH 1100, MATH 1210, MATH 2010, MATH 2020 and, STAT 2300 *must* be completed ***on or after*** (*not* before) the following dates, in order to fall within the MPATL for the listed semester: **fall semester**—August 15 of the previous year; **spring semester**—January 1 of the previous year; **summer semester**—June 1 of the previous year.

Students who are registering for a math class at USU for the first time who have a current math ACT score of less than 23 or a math SAT score of less than 540 (whether current or not) are required to take the Math Placement Exam administered by the Department of Mathematics and Statistics. A student's score on the Math Placement Exam will be used to determine his or her placement in appropriate mathematics or statistics course.

For students needing a satisfactory score on the Math Placement Exam (MPE) to meet an enrollment requirement for any course listed below, the deadline for meeting this requirement is the end of the first week of classes. A maximum of three attempts to achieve a satisfactory score on the MPE is allowed each semester.

MATH 950
Satisfactory score on the ALEKS Math Placement Exam.

MATH 995
One of the following within the last year or three consecutive semesters (including summer):

- ACT Math score of 17 or higher or equivalent SAT math score
- MATH 950 with a grade of C- or better
- Satisfactory score on the Math Placement Exam

MATH 1030 ***(not currently offered)***
Math ACT score of at least 23 (Math SAT score of at least 540) **or** Grade of *C* **or** better in MATH 1010 or Satisfactory score on Math Placement Exam

MATH 1050
Math ACT score of at least 23 (Math SAT score of at least 540) **or** Grade of *C* **or** better in MATH 1050 **or** AP Calculus AB exam score of 3 **or** higher or Satisfactory score on Math Placement Exam

MATH 1060
Math ACT score of at least 23 (Math SAT score at least 540) **or** Grade of *C* or better in MATH 1010 (**or** MATH 1050) **or** AP Calculus AB exam score of 3 or higher **or** Satisfactory score on Math Placement Exam

MATH 1100
Math ACT score of at least 25 (**or** Math SAT score of at least 580) **or** Grade of *C-* **or** better in MATH 1050 **or** Satisfactory score on Math Placement Exam

MATH 1210
Math ACT score of at least 27 (Math SAT score of at least 620) **or** Grade of *C-* **or** better in MATH 1050 and MATH 1060 **or** AP Calculus AB exam score of 3 **or** higher or Satisfactory score on Math Placement Exam

MATH 2010
Must be a declared major in Elementary Education, Special Education, Pre-Elementary Education or Pre-Special Education and meet one of the following within the last year or three consecutive semesters (including summer):

- MATH 2020 or equivalent
- MATH 1050 with a grade of C- or better
- ACT Math score of 25 or higher or equivalent SAT math score
- AP Calculus AB score of 3 or higher
- Satisfactory score on the Math Placement Exam

MATH 2020
Math ACT score of at least 25 (Math SAT score of at least 580) **or** Grade of *C-* or better in MATH 1050 **or** Satisfactory score on Math Placement Exam

STAT 1040
Math ACT score of at least 23 (Math SAT score of at least 540) **or** Grade of ***C* or better in MATH 1010 or Satisfactory score on Math Placement Exam**

STAT 1045
One of the following within the last year or three consecutive semesters (including summer):

- ACT Math score of 16 or higher or equivalent SAT math score
- MATH 950 with a grade of C- or better
- Satisfactory score on the Math Placement Exam

STAT 2000
Math ACT score of at least 23 (Math SAT score of at least 540)**or**Grade of*C-*or better in MATH 1050 **or**Satisfactory score on Math Placement Exam

STAT 2300
Math ACT score of at least 25 (Math SAT score of at least 580)**or**Grade of*C-*or better in MATH 1050 **or**Satisfactory score on Math Placement Exam

Entering students with current passing scores on AP calculus or statistics exams will be awarded credits as shown below:

AP Test	Score	Credits	USU Credit Awarded
Calculus AB	3	6	3 (QL) credits + 3 elective credits
	4-5	6	1210 (QL) (4) + 2 elective credits
Calculus BC	3-4	6	MATH 1210 (QL) (4) + 2 elective credits
	5	8	MATH 1210 (QL) (4) + MATH 1220 (QL) (4)
Statistics	3-5	3	STAT 2000 (QI) (3)

Even if not required, students may opt to take the Math Placement Test through the Department of Mathematics and Statistics, strictly for advising purposes.

The calculus courses MATH 1210, MATH 1220, and MATH 2210 are designed for students majoring in mathematics, the sciences, and engineering. MATH 1100 (Calculus Techniques) is designed primarily for students majoring in business. All students in calculus classes need strong backgrounds in the material covered in MATH 1010 and MATH 1050 In addition, the MATH 1210, MATH 1220, MATH 2210 sequence requires a sound understanding of trigonometry (MATH 1060).

Students with outstanding mathematics records in high school and transfer students with some experience in calculus may wish to consult with a departmental advisor prior to registration.

Departmental Admission Requirements

1. New freshmen admitted to USU in good standing qualify for admission to the major.
2. Transfer students from other institutions need a 2.2 transfer GPA, and students transferring from other USU majors need a 2.0 total GPA for admission to this major in good standing.
3. Students may be admitted to the Mathematics Education major by satisfying either of the above conditions. However, in order to be admitted to the Secondary Teacher Education Program (STEP), and to graduate from the Mathematics Education major (and minor), students must have an institution GPA of at least 3.0 in the equivalent of MATH 1210, MATH 1220, and MATH 2210, and an overall GPA of at least 2.75.

University Requirements

All students in the Department of Mathematics and Statistics must satisfy the University Studies Requirements of USU's University Studies program.

Suggested Four-year Plans

Suggested semester-by-semester four-year plans for students working toward a Bachelor of Science or Bachelor of Arts degree within the Department of Mathematics and Statistics are available in the department.

Students should consult with their advisor to develop a plan of study tailored to their individual needs and interests.

University Honors Program

The University Honors Program offers students in all colleges and majors the unique opportunity to deepen their educational experience with hands-on practical applications of their academic knowledge. The Honors Program admits incoming, transfer, and existing USU students based on application. High achieving students with at least one year remaining are encouraged to apply. See the University Honors Program catalog entry and website (honors.usu.edu) for more information.

Additional Information

Students who enter the university with AP credit in Mathematics and/ or Statistics, and about 30 additional AP or CLEP credits, may be able to complete both a BS and an MS degree within five years or less. Interested students should consult with a departmental undergraduate advisor.

For detailed information about requirements for majors and minors within the Mathematics and Statistics Department, see the major requirement sheet, which is available from the department.

Financial Support

The department offers several one-, two-, and four-year scholarships to qualified students who enroll as full-time Mathematics, Mathematics Education, or Statistics majors. The winner of the Hunsaker Scholarship receives a cash award each semester for two years. This award is given in addition to any four-year scholarship or tuition waiver for which the student is eligible. During the final two years, the recipient is expected to work as a grader for the department. The department also offers other scholarships (Elich, Ellis, van Vliet, and departmental). The amount of these scholarships varies from year to year. The Ellis Scholarship is awarded to a junior or senior Mathematics Education major, and the recipient is selected by the department. To apply for any of these scholarships (except for the Ellis Scholarship, for which there is no application) fill out the scholarship application form located at http://www.math.usu.edu/PDF/scholarship%20appl%20Oct08.pdf, and send a statement of qualifications, including high school transcripts and SAT or ACT scores, and three letters of recommendation to:

Scholarship Committee
Department of Mathematics and Statistics
Utah State University
3900 Old Main Hill
Logan UT 84322-3900

Applications must be received by March 15.

Learning Objectives

All students having majors within the Department of Mathematics and Statistics are expected to achieve competency in: (1) pre-calculus algebra; (2) calculus of one and several variables; (3) ordinary differential equations; (4) linear algebra/matrices, eigenvalues/ eigenvectors, determinant, rank; and (5) analysis (introduction to formal proofs/analysis theory).

Students enrolled in specific departmental majors should also have competence in additional areas pertaining to their major. These areas are listed in the following paragraphs.

Mathematics Major

(1) algebraic structures; (2) analysis/advanced calculus; (3) complex variables; (4) topology; (5) algebraic theory; and (6) partial differential equations.

Statistics Major

(1) theory of probability and statistics; (2) linear regression/time series; (3) experiment design; and (4) one or more of sampling, categorical analysis, multivariate analysis, quality control.

Mathematics Education Major (including Composite Mathematics-Statistics Education)

(1) algebraic structures; (2) probability; (3) history of mathematics; (4) methods for secondary school teaching of mathematics and/or statistics; and (5) in-service teaching experiences.

Other Majors and Emphases (e.g., Computational Mathematics Emphasis, Actuarial Science Emphasis, etc.)

Replace general competencies in traditional areas (i.e., algebra, topology, analysis) with specific topics related to the specialized emphasis. For example, students in the Computational Mathematics Emphasis need the ability to write computer code to solve linear, nonlinear, stochastic, and (partial and ordinary) differential equations; and students in the Actuarial Science Emphasis need two semesters of actuarial mathematics.

Assessment

Assessment of General Education Courses (MATH 1050 and STAT 1040)

Beginning with Spring Semester 2004, the department has conducted an annual assessment of student performance in primary General Education courses (including MATH 1050 and STAT 1040). The performance of approximately 100 randomly selected students from each of MATH 1050 and STAT 1040 was evaluated by topic area on the common finals of these courses. Summary results will be available soon. The process was repeated for Spring Semester 2005. Together, these two years of data provide a baseline against which future groups of students will be compared. Weaknesses in topic learning will then be identified, and the Undergraduate Committee and course supervisors will provide feedback to instructors in an effort to bring overall student performance to target levels.

Assessment of Core Courses (MATH 1210, MATH 1220, MATH 2210, MATH 2250, and STAT 1040, STAT 2000, STAT 3000)

Core content of these courses changes infrequently and is primarily addressed through the selection of textbooks at three-year to five-year intervals. Primary assessment of these courses is through semester evaluations and final examination scores and course grade profiles. Competency in these areas is essential for any student majoring in mathematics or statistics.

Assessment of Upper-division Major Courses

These courses are re-evaluated by subcommittees of the Undergraduate Committee in terms of: level and appropriateness of content relative to learning objectives, textbook selection, final examinations, course grades, and student evaluations. At two-year to five-year intervals, courses are redesigned if the subject matter develops beyond traditional norms, or if market demand indicates that an under-utilized course should be replaced by a course having greater demand (e.g., development of a new cryptography course).

Undergraduate Research Opportunities

Students interested in undergraduate research opportunities in the Department of Mathematics and Statistics at Utah State University should begin by contacting the department head and undergraduate research liaison.

Several departmental faculty members have engaged in successful undergraduate research projects. These faculty members, along with their research areas, include: James Powell (mathematical modeling of pine beetle infestations), Ian Anderson (differential geometry applications to theoretical and applied physics), and Richard Cutler (analysis of epidemiological and environmental data). In general, undergraduate research offers students an excellent opportunity to explore mathematical and statistical theory and practice under the guidance of an experienced researcher, to focus their own course selection on particular career paths and research areas (including graduate school), to co-author professional publications, and to actively make presentations at conferences or local seminars.

Graduate Programs

Admission Requirements

In general, students wishing to pursue graduate studies in mathematics or statistics should have a bachelor's degree in mathematics, statistics, or a closely related field, with extensive coursework in one of the departmental disciplines. The department requires a score of 700 on the quantitative section of the GRE. International applicants must have a TOEFL score of 250 on the computer-based test or a score of 100 on the internet-based test.

Students entering the Master of Mathematics (MMath) program must either possess a valid secondary school teaching license or be concurrently enrolled in a secondary school teacher licensure program.

Course Requirements

Departmental requirements change from time to time. Check with the Department of Mathematics and Statistics for the list of requirements currently in effect.

Research

Mathematics research opportunities within the department are many and varied, and students are urged to contact faculty about mutual interests at as early a stage as feasible. The interdisciplinary option permits and encourages study with a broad spectrum of outstanding nationally recognized university research programs.

Financial Assistance

Graduate students in the PhD program, the MMath program, and the Plan A and B options of the MS programs are eligible for teaching assistantships in the department. Duties of graduate teaching assistants may include full responsibility as instructors for introductory mathematics or statistics courses, leading recitations, and (in rare situations) tutoring and paper grading. Stipends are competitive and may include health insurance benefits. All graduate student stipends described here carry with them a waiver of all nonresident tuition. PhD students with stipends also receive a waiver of resident tuition. The department is also allocated a small number of resident tuition waivers for MS students each year. The department is able to support most PhD students and some MS students with summer teaching assignments. Mathematics and Statistics faculty members who have research grants may choose to partially or fully support students they are advising.

College of Arts and Sciences Faculty

Programs

Data Literacy - Minor
Data Modeling Education - Post-Bachelor's Certificate
Data Science - Minor
Data Science - BS
Data Science - Post-Bachelor's Certificate
Data Science: Statistics Specialization - MS
Master of Data Analytics (Statistics) - MDATA
Economics and Statistics - MS
Industrial Mathematics - MS
Mathematics Education - Minor
Mathematics Education - BA, BS
Mathematics/Statistics (Composite) - BA, BS
Mathematics - Minor
Mathematics: Actuarial Science Emphasis - BA, BS
Mathematics: Applied Mathematics Emphasis - BS
Mathematics - BA, BS
Mathematics: Computational - BA, BS
Master of Mathematics - MMath
Mathematics - MS
Machine Learning and Artificial Intelligence - Post-Bachelor's Certificate
Mathematics/Statistics Education (Composite) - BA, BS
Mathematical Sciences - PhD
Statistics and Data Science - PhD
Statistics - Minor
Statistics: Actuarial Science Emphasis - BA, BS
Statistics - BA, BS
Statistics - MS

Courses

DSAI2275 - Linear Algebra for Data Science - 4 - Credits
DSAI5060 - Python for Data Science - 3 - Credits
DSAI5655 - Machine Learning - 3 - Credits
DSAI5810 - Topics in Data Science and Artificial Intelligence - 1 - 3 Credits
DSAI6060 - Python for Data Science - 3 - Credits
DSAI6655 - Machine Learning - 3 - Credits
DSAI6810 - Topics in Data Science and Artificial Intelligence - 1 - 3 Credits
MATH0923 - Mathematics Skills Review - - Credits
MATH0950 - Pre-algebra - 4 - Credits
MATH0995 - College Mathematics Preparation - 4 - Credits
MATH1020 - Trade Mathematics - 3 - Credits
MATH1030 - Quantitative Reasoning (QL) - 3 - Credits
MATH1050 - College Algebra (QL) - 4 - Credits
MATH1051 - Classical Algebra for Teachers (QL) - 4 - Credits
MATH1060 - Trigonometry - 2 - Credits
MATH1100 - Calculus Techniques (QL) - 3 - Credits
MATH1170 - Modeling Change: Calculus in Life and Society - 4 - Credits
MATH1210 - Calculus I (QL) - 4 - Credits
MATH1220 - Calculus II (QL) - 4 - Credits
MATH2010 - Algebraic Thinking & Number Sense for Elementary Education School Teachers (QI) - 3 - Credits
MATH2020 - Euclidean Geometry & Statistics for Elementary Education School Teachers (QI) - 3 - Credits
MATH2210 - Multivariable Calculus (QI) - 3 - Credits

MATH2250 - Linear Algebra and Differential Equations (QI) - 4 - Credits
MATH2260 - Internship and Cooperative Studies - 1 - 6 Credits
MATH2270 - Linear Algebra (QI) - 3 - Credits
MATH2280 - Ordinary Differential Equations (QI) - 3 - Credits
MATH2910 - Directed Reading and Conference - 1 - 3 Credits
MATH2977 - Cooperative Education - 1 - 3 Credits
MATH3010 - Pedagogical Foundations of Algebra - 3 - Credits
MATH3110 - Modern Geometry - 3 - Credits
MATH3150 - Quantitative Modeling of Life - 3 - Credits
MATH3300 - School Laboratory for Mathematics Teachers Level I - 1 - Credits
MATH3310 - Discrete Mathematics - 3 - Credits
MATH4200 - Foundations of Analysis (CI) - 3 - Credits
MATH4230 - Applied Mathematics in Biology (QI) - 3 - Credits
MATH4250 - Advanced Internship/Co-op - 1 - 6 Credits
MATH4300 - School Laboratory for Mathematics Teachers Level II - 1 - Credits
MATH4310 - Introduction to Algebraic Structures (CI) - 3 - Credits
MATH4410 - Discrete Math 2 - 4 - Credits
MATH4610 - Fundamentals of Numerical Analysis - 3 - Credits
MATH4700 - Engineering Mathematics and Statistics - 3 - Credits
MATH4910 - Directed Reading and Conference - 1 - 3 Credits
MATH5010 - Technology for Teaching Mathematics - 3 - Credits
MATH5020 - Mathematical Cognition and Assessment of Mathematical Achievement - 3 - Credits
MATH5110 - Differential Geometry - 3 - Credits
MATH5210 - Introduction to Analysis I - 3 - Credits
MATH5220 - Introduction to Analysis II - 3 - Credits
MATH5270 - Complex Variables - 3 - Credits
MATH5310 - Introduction to Modern Algebra - 3 - Credits
MATH5340 - Theory of Linear Algebra - 3 - Credits
MATH5400 - Mathematics and Its History - 3 - Credits
MATH5410 - Methods of Applied Mathematics - 3 - Credits
MATH5420 - Partial Differential Equations - 3 - Credits
MATH5460 - Nonlinear Dynamics - 3 - Credits
MATH5470 - Advanced Differential Equations - 3 - Credits
MATH5500 - Methods of Secondary School Mathematics Teaching - 3 - Credits
MATH5510 - Introduction to Topology - 3 - Credits
MATH5560 - Actuarial Financial Mathematics - 3 - Credits
MATH5570 - Actuarial Math I - 3 - Credits
MATH5580 - Actuarial Math II (CI) - 3 - Credits
MATH5610 - Introduction to Numerical Analysis - 3 - Credits
MATH5620 - Numerical Algorithms for Approximate Solutions of DE - 3 - Credits
MATH5645 - Mathematical Methods for Data Science - 3 - Credits
MATH5710 - Introduction to Probability - 3 - Credits
MATH5720 - Introduction to Mathematical Statistics - 3 - Credits
MATH5760 - Applied Stochastic Processes - 3 - Credits
MATH5810 - Topics in Mathematics - 1 - 3 Credits
MATH5820 - Topics in Mathematics - 1 - 3 Credits
MATH5910 - Directed Reading and Conference - 1 - 3 Credits
MATH6070 - Mathematical Modeling for Educators - 3 - Credits
MATH6075 - Curriculum Development - 1 - 3 Credits
MATH6110 - Differential Geometry - 3 - Credits
MATH6120 - Differential Geometry - 3 - Credits
MATH6130 - Advanced Differential Geometry I - 3 - Credits
MATH6140 - Advanced Differential Geometry II - 3 - Credits
MATH6210 - Real Analysis - 3 - Credits
MATH6220 - Real Analysis - 3 - Credits
MATH6230 - Advanced Real and Functional Analysis I - 3 - Credits
MATH6240 - Advanced Real and Functional Analysis II - 3 - Credits
MATH6250 - Graduate Internship/Cooperative Studies - 1 - 6 Credits
MATH6270 - Complex Variables - 3 - Credits
MATH6300 - Practicum in Mathematics/Statistics Instruction for Graduates Pursuing Secondary Licensure - 1 - Credits
MATH6310 - Modern Algebra - 3 - Credits
MATH6320 - Modern Algebra - 3 - Credits
MATH6340 - Multilinear Algebra and Matrix Theory - 3 - Credits
MATH6350 - Multilinear Algebra and Matrix Theory - 3 - Credits
MATH6360 - Advanced Multilinear Algebra and Representation Theory I - 3 - Credits
MATH6370 - Advanced Multilinear Algebra and Representation Theory II - 3 - Credits
MATH6380 - Advanced Algebra I - 3 - Credits
MATH6390 - Advanced Algebra II - 3 - Credits
MATH6400 - Mathematics and Its History - 3 - Credits
MATH6410 - Methods of Applied Mathematics - 3 - Credits
MATH6420 - PDE I - 3 - Credits
MATH6440 - ODE and Dynamics - 3 - Credits
MATH6450 - PDE II - 3 - Credits
MATH6460 - Nonlinear Dynamics - 3 - Credits
MATH6470 - Advanced Asymptotic Methods - 3 - Credits
MATH6500 - Methods of Secondary School Mathematics Teaching - 3 - Credits
MATH6510 - Topology - 3 - Credits
MATH6520 - Topology - 3 - Credits
MATH6530 - Advanced Algebraic Topology - 3 - Credits
MATH6610 - Introduction to Numerical Analysis - 3 - Credits
MATH6620 - Numerical Solution of Partial Differential Equations - 3 - Credits
MATH6640 - Optimization - 3 - Credits
MATH6645 - Mathematical Methods for Data Science - 3 - Credits
MATH6650 - Scientific Computing - 3 - Credits
MATH6750 - Probability Theory - 3 - Credits
MATH6760 - Applied Stochastic Processes - 3 - Credits
MATH6810 - Topics in Mathematics (Topic) - 1 - 3 Credits
MATH6820 - Topics in Mathematics (Topic) - 1 - 3 Credits
MATH6910 - Directed Reading and Conference - 1 - 3 Credits
MATH6970 - Thesis - 1 - 9 Credits
MATH6990 - Continuing Graduate Advisement - 1 - 9 Credits
MATH7110 - Geometry (Topic) - 3 - Credits
MATH7120 - Geometry (Topic) - 3 - Credits
MATH7210 - Analysis (Topic) - 3 - Credits
MATH7220 - Analysis (Topic) - 3 - Credits
MATH7310 - Algebra (Topic) - 3 - Credits
MATH7320 - Algebra (Topic) - 3 - Credits
MATH7410 - Differential Equations (Topic) - 3 - Credits
MATH7420 - Differential Equations (Topic) - 3 - Credits
MATH7510 - Topology (Topic) - 3 - Credits
MATH7520 - Topology (Topic) - 3 - Credits
MATH7610 - Numerical Analysis (Topic) - 3 - Credits
MATH7620 - Numerical Analysis (Topic) - 3 - Credits
MATH7750 - Probability (Topic) - 3 - Credits
MATH7760 - Probability (Topic) - 3 - Credits
MATH7810 - Topics in Mathematics (Topic) - 3 - Credits
MATH7820 - Topics in Mathematics (Topic) - 3 - Credits
MATH7910 - College Teaching Internship - 3 - Credits
MATH7970 - Dissertation Research - 1 - 15 Credits
MATH7990 - Continuing Graduate Advisement - 1 - 9 Credits
STAT1040 - Introduction to Statistics (QL) - 3 - Credits
STAT1045 - Introduction to Statistics with Elements with Algebra (QL) - 5 - Credits
STAT1080 - Foundations of Data Science (QL) - 3 - Credits
STAT2000 - Statistical Methods (QI) - 4 - Credits
STAT2250 - Internship and Cooperative Studies - 1 - 6 Credits
STAT2300 - Business Statistics (QL) - 4 - Credits
STAT2950 - Directed Reading and Conference - 1 - 3 Credits
STAT3000 - Statistics for Scientists (QI) - 3 - Credits
STAT3080 - Data Science for Scientists - 3 - Credits
STAT4010 - Probability and Statistics for Teachers - 3 - Credits
STAT4250 - Advanced Internship/Co-op - 1 - 6 Credits
STAT4500 - Methods of Teaching Statistics in Secondary and Middle School - 3 - Credits
STAT4950 - Directed Reading and Conference - 1 - 3 Credits
STAT5050 - Introduction to R - 1 - Credits
STAT5055 - Data Wrangling - 1 - Credits
STAT5060 - Python for Data Science - 3 - Credits
STAT5080 - Data Technologies - 2 - Credits

STAT5100 - Modern Regression Methods (CI/QI) - 3 - Credits
STAT5120 - Statistical Methods for Rates and Proportions - 2 - Credits
STAT5150 - SAS Predictive Analytics - 2 - Credits
STAT5170 - Time Series and Forecasting - 2 - Credits
STAT5200 - Analysis of Designed Experiments - 3 - Credits
STAT5410 - Applied Spatial Statistics - 2 - Credits
STAT5500 - Biostatistics Methods (DSC) - 3 - Credits
STAT5550 - Statistical Visualization I - 2 - Credits
STAT5555 - Advanced R Programming for Data Science - 3 - Credits
STAT5560 - Statistical Visualization II - 2 - Credits
STAT5570 - Statistical Bioinformatics - 2 - Credits
STAT5645 - Mathematical Methods for Data Science - 3 - Credits
STAT5650 - Applied Machine Learning and Multivariate Statistics - 3 - Credits
STAT5655 - Machine Learning - 3 - Credits
STAT5685 - Deep Learning Theory and Applications - 3 - Credits
STAT5810 - Topics in Statistics - 1 - 3 Credits
STAT5815 - Research in Data Science and Statistics - 1 - 3 Credits
STAT5820 - Topics in Statistics - 1 - 3 Credits
STAT5940 - Directed Reading and Conference - 1 - 3 Credits
STAT5970 - Seminar - 1 - 3 Credits
STAT6060 - Python for Data Science - 3 - Credits
STAT6070 - Foundations of Data Science for Educators - 3 - Credits
STAT6075 - Curriculum Development - 1 - 3 Credits
STAT6080 - Data Technologies - 2 - Credits
STAT6100 - Modern Regression Methods - 3 - Credits
STAT6110 - Theory of Linear Models - 1 - Credits
STAT6150 - SAS Predictive Analytics - 2 - Credits
STAT6170 - Time Series and Forecasting - 2 - Credits
STAT6180 - Financial Time Series - 2 - Credits
STAT6200 - Analysis of Designed Experiments - 3 - Credits
STAT6250 - Graduate Internship/Co-op - 1 - 8 Credits
STAT6280 - Optimal Design of Experiments - 2 - Credits
STAT6300 - Bayesian Statistical Methods and Data Analysis - 3 - Credits
STAT6410 - Applied Spatial Statistics - 2 - Credits
STAT6500 - Biostatistics Methods - 3 - Credits
STAT6550 - Statistical Computing - 3 - Credits
STAT6555 - Advanced R Programming for Data Science - 3 - Credits
STAT6560 - Statistical Visualization II - 2 - Credits
STAT6570 - Statistical Bioinformatics - 2 - Credits
STAT6645 - Mathematical Methods for Data Science - 3 - Credits
STAT6650 - Applied Machine Learning and Multivariate Statistics - 3 - Credits
STAT6655 - Machine Learning - 3 - Credits
STAT6680 - Statistical Thinking for Big Data - 2 - Credits
STAT6685 - Deep Learning Theory and Applications - 3 - Credits
STAT6710 - Mathematical Statistics I - 3 - Credits
STAT6720 - Mathematical Statistics II - 3 - Credits
STAT6810 - Topics in Statistics (Topic) - 1 - 3 Credits
STAT6820 - Topics in Statistics (Topic) - 1 - 3 Credits
STAT6910 - Seminar in Statistics - 1 - 3 Credits
STAT6950 - Directed Reading and Conference - 1 - 4 Credits
STAT6970 - Thesis and Research - 1 - 6 Credits
STAT6990 - Continuing Graduate Advisement - 1 - 9 Credits
STAT7110 - Linear Models (Topic) - 3 - Credits
STAT7120 - Linear Models (Topic) - 3 - Credits
STAT7180 - Time Series Analysis (Topic) - 3 - Credits
STAT7190 - Time Series Analysis (Topic) - 3 - Credits
STAT7210 - Experimental Design (Topic) - 3 - Credits
STAT7220 - Experimental Design (Topic) - 3 - Credits
STAT7310 - Business and Industrial Statistics (Topic) - 3 - Credits
STAT7320 - Business and Industrial Statistics (Topic) - 3 - Credits
STAT7510 - Nonparametric Statistics (Topic) - 3 - Credits
STAT7520 - Nonparametric Statistics (Topic) - 3 - Credits
STAT7550 - Computational and Graphical Statistics (Topic) - 3 - Credits
STAT7560 - Computational and Graphical Statistics (Topic) - 3 - Credits
STAT7610 - Multivariate Statistics (Topic) - 3 - Credits
STAT7620 - Multivariate Statistics (Topic) - 3 - Credits
STAT7710 - Mathematical Statistics (Topic) - 3 - Credits
STAT7720 - Mathematical Statistics (Topic) - 3 - Credits
STAT7730 - Bayesian Statistics and Decision Theory (Topic) - 3 - Credits
STAT7740 - Bayesian Statistics and Decision Theory (Topic) - 3 - Credits
STAT7810 - Topics in Statistics (Topic) - 1 - 3 Credits
STAT7815 - Research Mentoring in Data Science and Statistics - 1 - 3 Credits
STAT7820 - Topics in Statistics (Topic) - 1 - 3 Credits
STAT7970 - Dissertation Research - 1 - 15 Credits
STAT7990 - Continuing Graduate Advisement - 1 - 9 Credits

Mechanical & Aerospace Engineering Department

Mechanical and Aerospace Engineering

Department Head: Zhongquan Charlie Zheng **Location:** ENGR 419D **Phone:** (435) 797-2878 **FAX:** (435) 797-2417 **E-mail**: zzheng@usu.edu **Website:** mae.usu.edu	**Undergraduate Program Director:** Nick Roberts **Location:** EL 134D **Phone:** (435) 797-9455 **FAX:** (435) 797-2417 **E-mail:** nick.roberts@usu.edu	**Graduate Program Director:** Matt Harris **Location:** ENGR 419H **Phone:** (435)797-9149 **FAX:** (435) 797-2417 **E-mail:** matthew.harris@usu.edu

Degrees Offered

Full details of the learning objectives, assessment plan, student outcomes, and evidence of continuous improvement for these programs of study can be found at engineering.usu.edu/mae/assessment/undergraduate/abet-mechanical for undergraduate programs and mae.usu.edu/assessment/graduate for graduate programs.

The Mechanical Engineering BS program is accredited by the Engineering Accreditation Commission of ABET, http://www.abet.org, under the commission's General Criteria and the Program Criteria for Mechanical Engineering and Similarly Named Programs.

Undergraduate Majors

Mechanical Engineering, BS

Undergraduate Minors

Mechanical Engineering

Undergraduate Emphasis

Aerospace Engineering

Graduate Majors

Mechanical Engineering, MS
Space Systems Engineering, MS
Aerospace Engineering, MS
Composite Materials and Structures, MS
Aerospace Engineering, PhD
Mechanical Engineering, PhD

Graduate Areas of Interest

Advance Materials and Structures
Aeronautics
Astronautics
Composite Materials and Structures
Fluid Dynamics
Guidance, Navigation and Control
Heat Transfer
Material Science
Microscale/Nanoscale Science
Nuclear Energy and Materials
Numerical Methods
Renewable Energy
Solid Mechanics
Thermodynamics

Undergraduate Program

Mission

Mechanical Engineering graduates are prepared to pursue careers in such widely diverse industries as aerospace, agricultural equipment, automotive, biotechnical, chemical processir processing, industrial equipment, manufacturing, materials processing, nuclear, petroleum, robotics, and solar energy. Most Mechanical Engineering graduates are prepared for graduate studies and enhanced career prospects in engineering or other areas, such as consulting, law, medicine, business management, or teaching. In addition, students who are preparing to apply for admission to medical school will find that Mechanical Engineering provides an excellent foundation for the increasingly t oriented field of medicine.

Students may choose to obtain an Aerospace Engineering Emphasis within the Mechanical Engineering BS degree.The Aerospace Emphasis focuses on the mechanics and dynamics of both flight within the atmosphere and space flight. Included within its scope are studies in aerodyamics, aircraft flight dynamics and control, aircraft design, spacecraft orbital mechanics, spacecraft attitude motion and control, and space system design. Graduates who complete the aerospace engineering emphasis are prepared to pursue careers in aircraft design and development, aircraft flight testing, spacecraft and space systems design, and spacecraft trajectory design and analysis. As fully qualified Mechanical Engineers, graduates with aerospace engineering emphasis are also well-prepared to pursue graduate studies or careers in the industries listed above under Mechanical Engineering.

For more information about the Mechanical and Aerospace Engineering department, see the Mechanical and Aerospace Engineering department webpage.

Sample Four-Year Plan and Required Courses

Go to the Mechanical Engineering - BS, Mechanical Engineering: Aerospace Emphasis - BS, and Mechanical Engineering - Minor pages to learn about program sample four-year plans and required courses.

Admission Requirements and Graduation Requirements
Go to the Undergraduate Program section of the College of Engineering's catalog page for information about program admission requirements, and graduation requirements.

Financial Assistance
Scholarships, assistantships, grants-in-aid, and work-study programs are available to undergraduate students through the university. In addition, the MAE department employs undergraduates to assist in engineering research and development. Cooperative education and industrial employment opportunities for students are coordinated by the university Career Services Office.

Accelerated BS/MS Program
The accelerated BS/MS program allows eligible students to begin taking graduate-level classes during their senior year. This permits them to complete requirements for both the BS degree and the master's degree concurrently. Students in this program have a greater selection of graduate courses since many graduate courses are taught during alternate years. Both the BS and MS degrees can generally be earned with 150 total credits, although students should note that a Plan C MS requires 3 extra credits. To be eligible, students must apply at the end of the junior year (completed 90 credits of Mechanical Engineering BS degree requirements) and have at least a 3.5 overall and admission GPA (calculated using all grades from semesters covering last 60 credits) as of the end of their junior year. (For more information, see Accelerated Bachelor's/Master's section of Mechanical and Aerospace Engineering website.)

Graduate Programs

The Department of Mechanical and Aerospace Engineering provides each graduate with a foundation of knowledge and experience upon which to build successful careers in mechanical engineering, aerospace engineering, composite materials and structures, or space systems engineering.

Mechanical Engineering touches nearly every aspect of our modern lives. Mechanical engineers use principles of motion, energy, heat, fluid, controls, vibrations, solids, and material science to design and build mechanical devices that lift enormous loads or move microscopic components. Mechanical Engineers affect technological advancements in nearly every field and component of life today.

Aerospace engineers develop new technologies in the defense, aviation, astronautics, and space industries including modern aircraft, satellites, rockets, and space vehicles. Courses and research focus on aerodynamics, vehicle dynamics, controls, propulsion, guidance and navigation, optimization, and structures.

The MS in Composite Materials and Structures is directed at providing students and industry professionals the opportunity to become familiar with how composite materials are used in several areas of engineering research and design across multiple industries. Graduates will develop the ability to better understand the applicability of these materials in improving and advancing product design. Surveys of the materials, processes and design methods associated with composite materials will be given as well as the scientific principles involved. In-depth understanding of the critical manufacturing processes, the testing of constituent and composite materials, and the structural analyses of these complex systems will be taught.

The Space Systems Engineering MS-C degree is a joint effort between Mechanical and Aerospace Engineering (MAE) and Electrical and Computer Engineering (ECE). The goal of the program is to provide early- and mid-career professionals with post-graduate education and an opportunity to develop an understanding of system engineering from the perspective of the space engineering discipline. Space Systems engineers focus on the systems associated with space flight including propulsion, flight dynamics, navigation, controls, instrumentation and astrodynamics.

Admission Requirements
All students intending to pursue graduate studies at Utah State University must complete an Application for Admission to the School of Graduate Studies. In addition to the general graduate admission requirements, the MAE department requires all graduate applicants to have: a bachelor's degree from an accredited institution in Mechanical Engineering, Aerospace Engineering, or a closely related engineering discipline; a minimum admission GPA of 3.3 (calculated using all grades from last 60 semester or 90 quarter credits earned). All MAE graduate students are expected to be well acquainted with FORTRAN, C, or C++, or MATLAB.

GPA Requirement
All students who complete a graduate degree at USU must maintain a minimum of 3.0 GPA. Consult with your department for additional requirements.

Research
Departmental research projects are funded by both government agencies and private industry. Research topics generally include fluid dynamics, aerodynamics, material science, additive manufacturing, composites, solids and structures, thermodynamics, heat transfer, guidance navigation and controls, optimization, space systems, orbital mechanics, and remote sensing. Please go to the MAE department website at engineering.usu.edu/mae/research/ and specific professors' websites to see their current research.

Financial Assistance
A number of teaching and research assistantships are available to graduate students through the department and are awarded on a competitive basis each year. For information about tuition awards and waivers see the policy at rgs.usu.edu/graduateschool/finances/tuition.

Acceptance to pursue graduate studies in the Department of Mechanical and Aerospace Engineering does not imply a commitment to any type of financial aid. All awards for financial aid are made on a competitive basis after applicants are admitted to graduate school.

Academic Advising
Undergraduate and Graduate advising information can be found on the College of Engineering page.

FACULTY - College of Engineering

Programs

Aerospace Engineering - MS
Aerospace Engineering - PhD
Composite Materials and Structures - Post-Bachelor's Certificate
Composite Materials and Structures - MS
Mechanical Engineering - Minor
Mechanical Engineering - Aerospace Engineering Emphasis - BS
Mechanical Engineering - BS
Mechanical Engineering - MS
Mechanical Engineering - PhD
Space Systems Engineering (MAE) - MS

Courses

MAE1010 - Introduction to Mechanical Engineering - 3 - Credits
MAE1200 - Engineering Graphics - 2 - Credits
MAE2160 - Material Science - 3 - Credits
MAE2165 - Material Science Laboratory - 1 - Credits
MAE2300 - Thermodynamics I - 3 - Credits
MAE2450 - Engineering Numerical Methods - 3 - Credits
MAE3040 - Mechanics of Solids - 3 - Credits
MAE3340 - Instrumentation and Measurements - 3 - Credits
MAE3420 - Fluid Mechanics - 3 - Credits
MAE3440 - Heat Transfer (QI) - 3 - Credits
MAE3600 - Engineering Professionalism and Ethics - 1 - Credits
MAE4300 - Machine Design - 3 - Credits
MAE4400 - Fluids/Thermal Laboratory (CI) - 1 - Credits
MAE4800 - Capstone Design I (CI) - 3 - Credits
MAE4810 - Capstone Design II - 3 - Credits
MAE5020 - Finite Element Methods in Solid Mechanics I - 3 - Credits
MAE5040 - Experimental Solid Mechanics - 3 - Credits
MAE5045 - Adhesion Sciences - 3 - Credits
MAE5050 - Material Science of Composites - 3 - Credits
MAE5060 - Mechanics of Composite Materials I - 3 - Credits
MAE5300 - Vibrations - 3 - Credits
MAE5310 - Control Systems - 4 - Credits
MAE5320 - Mechatronics - 4 - Credits
MAE5330 - Small Unmanned Aircraft Systems - 3 - Credits
MAE5340 - Introduction to Planning and Control for Mobile Robots - 3 - Credits
MAE5350 - Kinematics - 3 - Credits
MAE5360 - Advanced Dynamics - 3 - Credits
MAE5370 - Optimization for Engineers - 3 - Credits
MAE5420 - Compressible Fluid Flow - 3 - Credits
MAE5430 - Advanced Thermal-Fluids - 3 - Credits
MAE5440 - Computational Fluid Dynamics - 3 - Credits
MAE5450 - Hybrid Energy - 3 - Credits
MAE5460 - Combustion - 3 - Credits
MAE5500 - Aerodynamics - 3 - Credits
MAE5510 - Dynamics of Atmospheric Flight - 3 - Credits
MAE5520 - Elements of Space Flight - 3 - Credits
MAE5530 - Space System Design - 3 - Credits
MAE5540 - Propulsion Systems - 3 - Credits
MAE5550 - Introduction to Aircraft Structures - 3 - Credits
MAE5560 - Dynamics of Space Flight - 3 - Credits
MAE5700 - Introduction to Microfabrication - 3 - Credits
MAE5900 - Cooperative Practice - 3 - Credits
MAE5930 - Special Problems - 1 - 3 Credits
MAE6010 - Finite Element Methods in Solid Mechanics II - 3 - Credits
MAE6030 - Metal Additive Manufacturing - 3 - Credits
MAE6040 - Continuum Mechanics and Elasticity - 3 - Credits
MAE6050 - Manufacturing of Composite Materials and Structures - 3 - Credits
MAE6055 - Testing of Composite Materials - 3 - Credits
MAE6060 - Micro-Mechanics of Deformation - 3 - Credits
MAE6061 - Micro-Mechanisms of Failure - 3 - Credits
MAE6070 - Mechanics of Composite Materials II - 3 - Credits
MAE6090 - Theory of Plates and Shells - 3 - Credits
MAE6130 - Structural Dynamics and Seismic Design - 3 - Credits
MAE6180 - Dynamics and Vibrations - 3 - Credits
MAE6200 - Mathematical Methods in Aerospace Engineering - 3 - Credits
MAE6320 - Linear Multivariable Control - 3 - Credits
MAE6330 - Robust Control - 3 - Credits
MAE6340 - Spacecraft Attitude Control Theory - 3 - Credits
MAE6410 - Fluid Dynamics - 3 - Credits
MAE6420 - Mechanical Engineering Experiments - 3 - Credits
MAE6430 - Boundary Layer Theory and Convection Heat Transfer - 3 - Credits
MAE6440 - Advanced Computational Fluid Dynamics - 3 - Credits
MAE6450 - Thermodynamics - 3 - Credits
MAE6460 - Conduction and Radiation Heat Transfer - 3 - Credits
MAE6490 - Turbulence - 3 - Credits
MAE6500 - Potential Flow - 3 - Credits
MAE6510 - Aircraft Dynamics and Flight Simulation - 3 - Credits
MAE6530 - Propulsion Systems - 3 - Credits
MAE6540 - Cislunar Astrodynamics and Distributed Space Systems - 3 - Credits
MAE6560 - Spacecraft Navigation - 3 - Credits
MAE6570 - Optimal Spacecraft Guidance - 3 - Credits
MAE6670 - Fracture Mechanics - 3 - Credits
MAE6930 - Special Problems - 1 - 3 Credits
MAE6950 - Design Project - 3 - Credits
MAE6970 - Thesis Research - 1 - 9 Credits
MAE6990 - Continuing Graduate Advisement - 1 - 12 Credits
MAE7330 - Nonlinear and Adaptive Control - 3 - Credits
MAE7360 - Optimal Control - 3 - Credits
MAE7380 - Advanced Dynamics and Vibrations - 3 - Credits
MAE7540 - Astrodynamic Perturbations and Propagation - 3 - Credits
MAE7560 - Optimal Estimation for Aerospace Systems - 3 - Credits
MAE7750 - Distributed Control - 3 - Credits
MAE7930 - Special Problems - 1 - 3 Credits
MAE7970 - Dissertation Research - 1 - 12 Credits
MAE7990 - Continuing Graduate Advisement - 1 - 12 Credits

Military Science Department

Military Science

Department Head: Major Shane Sorensen
Location: Military Science 106
Phone: (435) 797-7058 | **FAX:** (435) 797-3330
E-mail: armyrotc@usu.edu
Website: http://www.usu.edu/armyrotc/
Facebook: www.facebook.com/USUROTC

Undergraduate Programs

Objectives

Military Science (Army ROTC) focuses on leadership development. Students pursue the major of their choice while studying Military Science, and graduate with the ability to function effectively as leaders. Upon completion of Army ROTC and graduation from college, students become commissioned officers in the active Army, Army Reserve, or Army National Guard.

Instructors, textbooks, uniforms, and equipment are provided at no cost to the student or the university. All contracted students receive between $300-500 per month (up to 10 months per academic year). Army ROTC also covers the cost of tuition and fees or room and board for Army ROTC scholarship students and provides a $600-per-semester book allowance. Those cadets with concurrent membership in the Army National Guard or Reserves can also qualify for Federal and State tuition assistance.

The Margin of Difference

Army ROTC cadets learn to be leaders and receive hands-on experience in managing physical, financial, and human resources. They develop self-confidence and superior decision-making skills. Employers value these leadership qualities and recognize the associated potential. Cadets are also required to maintain a level of physical fitness while in the program, a marked difference in other university programs. Cadets are expected to live the Army Values.

Four-Year Program

The traditional Army ROTC program covers four years consistent with normal undergraduate progression (freshman-senior). The four-year program is divided into two parts: the **basic course** and the **advanced course**. The **basic course** is usually taken during the first two years of college. It covers subjects such as mountaineering, land navigation, leadership development, small unit tactics, weapons marksmanship, military history, time management, health, and citizenship. The basic course may be waived for cadets that have prior service experience.

The basic course is designed for high-performing students who wish to try Military Science without obligation, while enhancing their leadership skills and self-confidence. Upon successful completion of the basic course, students are eligible to enter the advanced course.

Advanced course requirements are normally completed during the junior and senior years. The advanced course further develops and refines leadership competencies, and qualifies the student for a commission in the United States Army. Advanced course students receive a $450-500 per month tax-free subsistence allowance (up to 10 months per year), and attend a paid 30 day Leadership Development and Assessment Course between their junior and senior years. This course is called “Warrior Forge” and is a combined program with attendees from ROTC programs across the country conducted at Fort Knox in Kentucky.

Two-Year Program

This is a special program for junior and community college transfer students or for students who did not take Army ROTC during their first two years of college. To enter the two-year program, a student must have completed Basic Training in a military service or participate in five weeks of basic leadership instruction. This instruction usually takes place between the sophomore and junior year. Students are paid, if contracted, for attending this instruction, have the opportunity to compete for two-year scholarships, and may receive academic credit. Students who qualify for the two-year program are enrolled directly in the advanced course.

Scholarships

Army ROTC provides numerous scholarship opportunities. High school seniors may qualify for **the four-year Army ROTC scholarship**. College students may qualify for three- or two-year scholarships. These scholarships pay the cost of tuition and fees, or room and board, $600.00 for textbooks and classroom supplies, and a monthly cash stipend between $300-$500 per semester. The **Green to Gold scholarship** allows Soldiers serving on active duty to leave the Army early and attend college/ROTC full time.

Placement Credit For Veterans

Veterans may qualify for advanced course placement based on prior military experience. They can take full advantage of veteran’s benefits and receive stipend payments from Army ROTC concurrently, if contracted into the program.

Simultaneous Membership Program (SMP)

This program is available to advanced course cadets who wish to serve in the Army Reserve or National Guard while attending college and pursuing a commission through Army ROTC. SMP students are eligible to receive reserve drill pay, tuition assistance up to $4,500 per year, other monetary incentives, and $300-500 per month tax-free subsistence allowance (up to 10 months per academic year), if contracted into the program from Army ROTC. Call or visit the Department of Military Science for details.

Leave of Absence

If students (including scholarship recipients) wish to take a leave of absence for example to serve a mission for their church, they can do so conveniently between their freshman and sophomore years.

Commission Requirements

In order to qualify for a commission as a Second Lieutenant in the United States Army, each student must:

1. Complete all required Military Science instruction while attending college as a full-time student, and obtain a baccalaureate or higher degree prior to age 31 (age waiver can be granted for prior military service or other extenuating circumstances).
2. Meet medical and physical fitness standards.
3. Be a U.S. citizen.
4. Successfully complete the advanced summer camp.

5. Be recommended by the Professor of Military Science and/or Department Head.

Service Obligation

There is no military service obligation for basic course students, unless they have received an Army ROTC scholarship. Advanced course and scholarship students incur an obligation to serve in the active Army, Army Reserve, or Army National Guard.

Additional Information

For more detailed information about course requirements for the Military Science programs, as well as information about career opportunities, see the major requirement sheet, which is available from the Military Science Department or call (435) 797-ROTC (7682).

FACULTY - College of Humanities and Social Sciences

Programs

Military Science - Minor
Military Science (Army ROTC Commission)

Courses

MSL1010 - Introduction to the Army - 2 - Credits
MSL1015 - Military Science Leadership Lab - 1 - Credits
MSL1020 - Foundations of Leadership - 2 - Credits
MSL1025 - Military Science Leadership Lab - 1 - Credits
MSL2010 - Leadership and Ethics - 2 - Credits
MSL2015 - Military Science Leadership Lab - 1 - Credits
MSL2020 - Army Doctrine and Decision-Making - 2 - Credits
MSL2025 - Military Science Leadership Lab - 1 - Credits
MSL2400 - Physical Readiness - 1 - Credits
MSL2420 - Ranger Preparation - 2 - Credits
MSL2430 - Air Assault - 2 - Credits
MSL2440 - Airborne Operations - 2 - Credits
MSL2510 - Leader's Training Course - 1 - 6 Credits
MSL3000 - Leadership in Military History - 3 - Credits
MSL3010 - Training Management and the Warfighting Functions - 3 - Credits
MSL3015 - Military Science Leadership Lab - 1 - Credits
MSL3020 - Applied Leadership in Small Unit Operations - 3 - Credits
MSL3025 - Military Science Leadership Lab - 1 - Credits
MSL3110 - Staff Organization and Operations - 1 - 3 Credits
MSL3210 - Independent Study - 1 - 3 Credits
MSL4010 - The Army Officer - 3 - Credits
MSL4015 - Military Science Leadership Lab - 1 - Credits
MSL4020 - Company Grade Leadership - 3 - Credits
MSL4025 - Military Science Leadership Lab - 1 - Credits
MSL4110 - Advanced Staff Operations - 1 - 3 Credits
MSL4510 - ROTC Leader Development and Assessment Course - 1 - 3 Credits
MSL4520 - Cadet Troop Leadership Training - 2 - Credits
MSL4810 - American Military History - 3 - Credits

Music Department

Music

Interim Department Head: Dr. Kevin Olson
Location: Fine Arts 107
Phone: (435) 797-3033 | **FAX:** (435) 797-1862
E-mail: music@usu.edu
Website: http://music.usu.edu/

Assistant Department Head: Sara Bakker, FAC 223, (435) 363-6530, sara.bakker@usu.edu

Undergraduate Advisors: Undergraduate Advisors: Nathan Scott, FAC 127, (435)-797-0447

Degrees offered: Bachelor of Music (BM) in Performance, Bachelor of Music (BM) in Music Education, Bachelor of Music (BM) in Performance and Pedagogy, Bachelor of Science (BS) in Music Therapy, Bachelor of Arts (BA) in Music, Master of Music (MM) in Performance, Master of Music (MM) in Conducting, Master of Music (MM) in Performance and Pedagogy

Undergraduate emphases: *BM degree in Performance* (Brass, Guitar, Harp, Percussion, Strings, Voice, Woodwinds); *BM degree in Music Education* (Band, Choral, Guitar, Orchestra); *BM degree in Performance and Pedagogy* (Piano)

Graduate specialization: *MM in Performance* (Guitar, Voice); *MM in Performance and Pedagogy* (Piano); *MM in Conducting* (Choral)

Full details of the learning objectives, assessment plan, student outcomes, and evidence of continuous improvement for these programs of study can be found at music.usu.edu/summer/assessment.

Undergraduate Programs

Objectives

The Department of Music provides instruction in music by: (1) offering service courses which contribute to the Liberal Arts major in the college containing the humanities and social sciences and to the university Studies Program of the university; (2) offering specific sequences of courses leading to professional preparation in music education, music therapy, and performance/pedagogy; and (3) providing public musical service to the University and the community.

The specific objectives of the programs in music for the music major are fourfold: (1) to prepare licensed music teachers to serve effectively in elementary and secondary schools; (2) to prepare musically talented students for careers as professional performers and/or studio teachers; (3) to prepare board-certified music therapists to serve in educational and therapeutic settings; and (4) to prepare music students for graduate study in their areas of specialization.

Requirements

Admission Requirements

Admissions requirements for the Department of Music include those described for the university in this catalog. In addition, transfer students must have a minimum 3.00 GPA in music courses and a minimum 2.75 GPA overall. All students interested in majoring in Music or Music Therapy will be given undeclared major status until they have completed the required audition/interview process, as verified by their area advisor through the *Change of Matriculation Form*. It is strongly recommended that prospective majors complete their audition/interview during the department's scholarship auditions in February preceding matriculation at USU. To schedule an audition/interview, visit our website: music.usu.edu and click on "future students" to fill out the audition application.

Prospective majors in Music Therapy should complete the audition/interview prior to May 1 of the year of admission.

GPA Requirement

Students majoring in music, music education, or music therapy must maintain a minimum GPA of 3.00 in music courses and a minimum 2.75 GPA overall to maintain their status as a music major and to graduate. All core curriculum classes must be completed with a *C* or higher in order to progress to the next courses in sequence, except for individual instruction courses, which must be passed with a *B-* or higher grade. A student receiving a grade lower than *C* is placed on probation, and may repeat the course once to raise the grade to *C* or higher. If the grade received on the repeat is lower than *C*, the student is no longer a music, music education, or music therapy major.

Sample Four-year Plans

Sample semester-by-semester four-year plans for students working toward a bachelor's degree within the Department of Music can be found in the department or under "Areas of Study" at music.usu.edu.

Students should consult with their advisor to develop a plan of study tailored to their individual needs and interests.

Recital and Concert Attendance

To graduate, students are required to attend a minimum of 80 concerts or recitals. Recital and concert attendance is monitored and recorded in the Music Student Services office. Students should turn in programs after attending concerts and recitals for documentation of attendance.

Individual Performance and Jury Requirements

Music majors enroll in individual instruction each semester and practice regularly outside of lessons. Jury exams are held at the end of each semester to assess individual progress. Students must pass individual instruction classes with a *B-* or higher grade in order to progress to the next level of instruction, and are expected to pass a barrier jury after their third semester of study in residence to continue as a music major. To determine specific jury requirements for their area, students should contact their music faculty advisor.

Recital Participation

Each music education, performance, and pedagogy major is encouraged to appear in a departmental recital each semester. Since area recital requirements vary, students should consult program advisors and degree requirement sheets for specific information.

Piano Proficiency Requirements

Music, Music Education, and Music Therapy majors must meet a minimum standard of piano proficiency before graduation. The specific requirements are detailed in the department's *Student Handbook*.

Transfer Credits

Transfer music students must take diagnostic exams in Music Theory, Aural Skills (Ear Training) and Music History before earned credit for those courses are applied to music core curriculum requirements (see "Transfer Credit" at Transfer Credit). Music Theory and Aural Skills diagnostic exams are administered twice each year, during the week prior to the first week of classes Fall and Spring semesters. The Music History diagnostic exam is administered once each year, immediately prior to the first week of classes Fall semester. For information about the date, time, and location of diagnostic exams contact the Music Department Student Services Office, (435) 797-3015, Fine Arts 102.

Assessment

Information about the ongoing assessment of the Music Department can be found at: http://music.usu.edu/assessment.aspx

University Honors Program

The University Honors Program offers students in all colleges and majors the unique opportunity to deepen their educational experience with hands-on practical applications of their academic knowledge. The Honors Program admits incoming, transfer, and existing USU students based on application. High achieving students with at least one year remaining are encouraged to apply. See the University Honors Program catalog entry and website (honors.usu.edu) for more information.

Additional Information and Updates

Degree requirements are listed on the Music Major Requirement Sheet and the Music Therapy Major Requirement Sheet, which can be obtained from the department.

Additional requirements, including appropriate sequencing of courses, are listed in the *Department of Music Student Handbook*. For the most recent information regarding degree requirements and course sequencing, contact advisors over specific programs. Further information can also be obtained by contacting the Music Department Office, Fine Arts 102, or by visiting the department's website.

Financial Support

Scholarships, grants, and work-study programs are available through the university. Information about these programs can be obtained by calling the Admissions Office, (435) 797-1129 or 1-800-488-8108. In addition, the Department of Music offers talent-based scholarships to undergraduate students and employs students as part-time workers. For scholarship information or to arrange an audition, contact the department at (435) 797-3015 or visit the department's website.

College of Arts and Sciences Faculty

Programs

Audio Technology - Certificate
Basic Music - Minor
Elementary School Music Teaching - Minor
Music: Music Education, Band - BM
Music: Music Education, Choral - BM
Music: Music Education, Guitar - BM
Music: Music Education, Orchestra - BM
Music - BA
Music: Composition - BA
Music: Guitar Performance - BM
Music - Harp Performance - BM
Music - MM
Music: Piano Performance and Pedagogy - BM
Music: String Performance - BM
Music: Vocal Performance - BM
Music: Woodwind/Brass/Percussion Performance - BM
Music Studies - Minor
Music Therapy - BS
Piano Pedagogy - Minor

Courses

MUSC1010 - Introduction to Music (BCA) - 3 - Credits
MUSC1050 - Contemporary Pop A Cappella: Context, Arranging, and Performance (BCA) - 3 - Credits
MUSC1100 - Fundamentals of Music for Non-Music Majors (BCA) - 3 - Credits
MUSC1105 - Fundamentals for Music Majors (BCA) - 3 - Credits
MUSC1110 - Music Theory I (BCA) - 3 - Credits
MUSC1120 - Music Theory II - 3 - Credits
MUSC1130 - Aural Skills I - 1 - Credits
MUSC1140 - Aural Skills II - 1 - Credits
MUSC1150 - Group Piano - 1 - Credits
MUSC1160 - Intermediate Group Piano - 1 - Credits
MUSC1170 - Keyboard Harmony I - 1 - Credits
MUSC1180 - Keyboard Harmony II - 1 - Credits
MUSC1185 - Group Piano for Music Therapy Majors - 1 - Credits
MUSC1190 - World Music - 3 - Credits
MUSC1195 - Global Perspectives in Performance (BCA) - 3 - Credits
MUSC1220 - Individual Harp Instruction for Nonmusic Majors - 1 - 2 Credits
MUSC1225 - Individual Pre-Music Harp Instruction - 1 - 2 Credits
MUSC1270 - Keyboard Skills I - 1 - Credits
MUSC1280 - Keyboard Skills II - 1 - Credits
MUSC1310 - Introduction to Music Therapy - 2 - Credits
MUSC1320 - Improvisation Facilitation in Music Therapy - 2 - Credits
MUSC1360 - Introduction to Audio Technology - 3 - Credits
MUSC1430 - Piano Pedagogy I - 3 - Credits
MUSC1440 - Piano Pedagogy II - 3 - Credits
MUSC1450 - Pedagogy Practicum - 1 - Credits
MUSC1460 - Organ Literature I - 3 - Credits
MUSC1470 - Organ Literature II - 3 - Credits
MUSC1480 - Individual Piano Instruction for Nonmusic Majors - 1 - 2 Credits
MUSC1484 - Individual Pre-Music Piano Instruction for Music Therapy Majors - 1 - 2 Credits
MUSC1485 - Individual Pre-Music Piano Instruction - 1 - 2 Credits
MUSC1490 - Individual Organ Instruction for Nonmusic Majors - 1 - 2 Credits
MUSC1495 - Individual Pre-Music Organ Instruction - 1 - 2 Credits
MUSC1500 - String Techniques - 1 - Credits
MUSC1510 - Individual Cello Instruction for Nonmusic Majors - 1 - 2 Credits
MUSC1515 - Individual Pre-major Cello Instruction - 1 - 2 Credits
MUSC1520 - Individual Viola Instruction for Nonmusic Majors - 1 - 2 Credits
MUSC1525 - Individual Pre-music Viola Instruction - 1 - 2 Credits
MUSC1530 - Individual Violin Instruction for Nonmusic Majors - 1 - 2 Credits
MUSC1535 - Individual Pre-Music Violin Instruction - 1 - 2 Credits
MUSC1540 - Individual String Bass Instruction for Nonmusic Majors - 1 - 2 Credits
MUSC1545 - Individual Pre-Music String Bass Instruction - 1 - 2 Credits
MUSC1550 - Beginning Group Guitar - 1 - Credits
MUSC1555 - Group Guitar for Music Therapists - 1 - Credits
MUSC1560 - Intermediate Group Guitar - 1 - Credits
MUSC1580 - Individual Guitar Instruction for Nonmusic Majors - 1 - 2 Credits
MUSC1585 - Individual Pre-music Guitar Instruction - 1 - 2 Credits
MUSC1600 - Voice Techniques - 1 - Credits
MUSC1610 - Introduction to Musical Theatre - 2 - Credits
MUSC1620 - Introduction to Opera - 2 - Credits
MUSC1630 - Individual Vocal Instruction for Nonmusic Majors - 1 - 2 Credits
MUSC1635 - Individual Pre-Music Voice Instruction - 1 - 2 Credits
MUSC1700 - Individual Flute Instruction for Nonmusic Majors - 1 - 2 Credits
MUSC1705 - Individual Pre-music Flute Instruction - 1 - 3 Credits
MUSC1710 - Individual Oboe Instruction for Nonmusic Majors - 1 - 2 Credits
MUSC1715 - Individual Pre-Music Oboe Instruction - 1 - 3 Credits
MUSC1720 - Individual Clarinet Instruction for Nonmusic Majors - 1 - 2 Credits
MUSC1725 - Individual Pre-Music Clarinet Instruction - 1 - 3 Credits
MUSC1730 - Individual Bassoon Instruction for Nonmusic Majors - 1 - 2 Credits
MUSC1735 - Individual Pre-Music Bassoon Instruction - 1 - 3 Credits
MUSC1740 - Individual Saxophone Instruction for Nonmusic Majors - 1 - 2 Credits
MUSC1745 - Individual Pre-Music Saxophone Instruction - 1 - 3 Credits
MUSC1800 - Percussion Techniques - 1 - Credits
MUSC1810 - Individual Trumpet Instruction for Nonmusic Majors - 1 - 2 Credits
MUSC1815 - Individual Pre-Music Trumpet Instruction - 1 - 3 Credits
MUSC1820 - Individual Trombone Instruction for Nonmusic Majors - 1 - 2 Credits
MUSC1825 - Individual Pre-Music Trombone Instruction - 1 - 3 Credits
MUSC1830 - Individual French Horn Instruction for Nonmusic Majors - 1 - 2 Credits
MUSC1835 - Individual Pre-music French Horn Instruction - 1 - 3 Credits
MUSC1840 - Individual Tuba/Euphonium Instruction for Nonmusic Majors - 1 - 2 Credits
MUSC1845 - Individual Pre-Music Tuba/Euphonium Instruction - 1 - 3 Credits

MUSC1850 - Individual Percussion Instruction for Nonmusic Majors - 1 - 2 Credits
MUSC1855 - Individual Pre-Music Percussion Instruction - 1 - 3 Credits
MUSC2110 - Music Theory III - 3 - Credits
MUSC2120 - Music Theory IV - 3 - Credits
MUSC2130 - Aural Skills III - 1 - Credits
MUSC2180 - Computer Applications in Music Proficiency Exam - 1 - Credits
MUSC2210 - Advanced Conducting Ensemble - 1 - Credits
MUSC2220 - Individual Harp Instruction (Second Instrument) for Music Majors - 1 - Credits
MUSC2225 - Individual Pre-Barrier Harp Instruction - 1 - 2 Credits
MUSC2240 - Introduction to Music Business - 3 - Credits
MUSC2265 - Audio Technology Practicum - 1 - 2 Credits
MUSC2270 - Keyboard Improvisation - 1 - Credits
MUSC2275 - Audio Technology Capstone - 2 - Credits
MUSC2310 - Music Therapy Treatment I - 2 - Credits
MUSC2320 - Music Therapy Treatment II - 2 - Credits
MUSC2350 - Conducting - 2 - Credits
MUSC2360 - Live Music Production - 3 - Credits
MUSC2370 - Music Recording and Post-Production - 3 - Credits
MUSC2390 - Audio Technology Internship - 3 - Credits
MUSC2410 - Individual Organ Instruction (Second Instrument) for Music Majors - 1 - Credits
MUSC2415 - Individual Pre-Barrier Organ Instruction - 1 - 2 Credits
MUSC2420 - Piano Literature I - 3 - Credits
MUSC2430 - Piano Literature II - 3 - Credits
MUSC2440 - Piano Literature III - 3 - Credits
MUSC2460 - Individual Jazz Piano Instruction for Nonmusic Majors - 1 - 2 Credits
MUSC2470 - Individual Jazz Piano Instruction (Second Instrument) for Music Majors - 1 - Credits
MUSC2490 - Individual Piano Instruction (Second Instrument) for Music Majors - 1 - 2 Credits
MUSC2494 - Individual Pre-Barrier Piano Instruction for Music Therapy Majors - 1 - 2 Credits
MUSC2495 - Individual Pre-Barrier Piano Instruction - 1 - 2 Credits
MUSC2500 - Individual String Bass Instruction (Second Instrument) for Music Majors - 1 - Credits
MUSC2505 - Individual Pre-Barrier String Bass Instruction - 1 - 2 Credits
MUSC2510 - Castle Valley Symphonic Orchestra - 1 - Credits
MUSC2520 - Individual Cello Instruction (Second Instrument) for Music Majors - 1 - Credits
MUSC2525 - Individual Pre-Barrier Cello Instruction - 1 - 2 Credits
MUSC2530 - Individual Viola Instruction (Second Instrument) for Music Majors - 1 - Credits
MUSC2535 - Individual Pre-barrier Viola Instruction - 1 - 2 Credits
MUSC2540 - Individual Violin Instruction (Second Instrument) for Music Majors - 1 - Credits
MUSC2545 - Individual Pre-Barrier Violin Instruction - 1 - 2 Credits
MUSC2550 - Guitar Styles: Blues - 2 - Credits
MUSC2560 - Guitar Styles: Bluegrass/Folk - 2 - Credits
MUSC2570 - Fingerboard Theory I - 2 - Credits
MUSC2580 - Fingerboard Theory II - 2 - Credits
MUSC2590 - Individual Guitar Instruction (Second Instrument) for Music Majors - 1 - Credits
MUSC2595 - Individual Pre-Barrier Guitar Instruction - 1 - 2 Credits
MUSC2600 - Sapphire Singers - 1 - Credits
MUSC2640 - Individual Vocal Instruction (Second Instrument) for Music Majors - 1 - Credits
MUSC2645 - Individual Pre-Barrier Voice Instruction - 1 - 2 Credits
MUSC2660 - Italian Diction for Singers - 2 - Credits
MUSC2670 - German Diction for Singers - 2 - Credits
MUSC2680 - French Diction for Singers - 2 - Credits
MUSC2690 - Concert Choir - 1 - Credits
MUSC2695 - USU Eastern Chamber Choir - 1 - Credits
MUSC2700 - Woodwind Techniques I: Flute, Clarinet - 1 - Credits
MUSC2710 - Woodwind Techniques II: Saxophone, Oboe, Bassoon - 1 - Credits
MUSC2730 - Basketball Band - 1 - Credits
MUSC2745 - Wind Symphony - 1 - Credits
MUSC2750 - Individual Flute Instruction (Second Instrument) for Music Majors - 1 - Credits
MUSC2755 - Individual Pre-barrier Flute Instruction - 1 - 3 Credits
MUSC2760 - Individual Oboe Instruction (Second Instrument) for Music Majors - 1 - Credits
MUSC2765 - Individual Pre-Barrier Oboe Instruction - 1 - 3 Credits
MUSC2770 - Individual Clarinet Instruction (Second Instrument) for Music Majors - 1 - Credits
MUSC2775 - Individual Pre-Barrier Clarinet instruction - 1 - 3 Credits
MUSC2780 - Individual Bassoon Instruction (Second Instrument) for Music Majors - 1 - Credits
MUSC2785 - Individual Pre-Barrier Bassoon Instruction - 1 - 3 Credits
MUSC2790 - Individual Saxophone Instruction (Second Instrument) for Music Majors - 1 - Credits
MUSC2795 - Individual Pre-Barrier Saxophone Instruction - 1 - 3 Credits
MUSC2800 - High Brass Techniques - 1 - Credits
MUSC2810 - Low Brass Techniques - 1 - Credits
MUSC2850 - Individual Trumpet Instruction (Second Instrument) for Music Majors - 1 - Credits
MUSC2855 - Individual Pre-Barrier Trumpet Instruction - 1 - 3 Credits
MUSC2860 - Individual Trombone Instruction (Second Instrument) for Music Majors - 1 - Credits
MUSC2865 - Individual Pre-Barrier Trombone Instruction - 1 - 3 Credits
MUSC2870 - Individual French Horn Instruction (Second Instrument) for Music Majors - 1 - Credits
MUSC2875 - Individual Pre-barrier French Horn Instruction - 1 - 3 Credits
MUSC2880 - Individual Tuba/Euphonium Instruction (Second Instrument) for Music Majors - 1 - Credits
MUSC2885 - Individual Pre-Barrier Tuba/Euph Instruction - 1 - 3 Credits
MUSC2890 - Individual Percussion Instruction (Second Instrument) for Music Majors - 1 - Credits
MUSC2895 - Individual Pre-Barrier Percussion Instruction - 1 - 3 Credits
MUSC2920 - Sophomore Recital - 1 - 2 Credits
MUSC2977 - Cooperative Education - 1 - 3 Credits
MUSC2988 - Special Problems - 1 - 3 Credits
MUSC3010 - Masterpieces of Music (DHA) - 3 - Credits
MUSC3020 - History of Jazz (DHA) - 3 - Credits
MUSC3030 - Rock and Roll-Catalyst for Social Change (DSS) - 3 - Credits
MUSC3040 - History of African American Music (DHA) - 3 - Credits
MUSC3100 - Motivation and Classroom Management Strategies in Secondary Classroom Music - 3 - Credits
MUSC3110 - Music History I: Antiquity through the Renaissance - 3 - Credits
MUSC3120 - Music History II: The Baroque and Classical Periods - 3 - Credits
MUSC3170 - Special Topics in Music Theory - 3 - Credits
MUSC3180 - Orchestration - 2 - Credits
MUSC3190 - Music History III: Romanticism through the 21st Century (CI) - 3 - Credits
MUSC3210 - Individual Harp Instruction for Music Majors - 1 - 2 Credits
MUSC3220 - Choral Methods and Materials - 2 - Credits
MUSC3230 - Choral Literature - 2 - Credits
MUSC3240 - Instrumental Methods and Materials - 2 - Credits
MUSC3260 - Elementary School Music - 3 - Credits
MUSC3310 - Music Therapy With Diverse Clinical Populations - 3 - Credits
MUSC3320 - Psychology of Music - 2 - Credits
MUSC3331 - Music Therapy Practicum: Field Experience 1 - 1 - Credits
MUSC3332 - Music Therapy Practicum: Field Experience 2 - 2 - Credits
MUSC3333 - Music Therapy Practicum: Field Experience 3 - 3 - Credits
MUSC3334 - Music Therapy Practicum: Field Experience 4 - 3 - Credits
MUSC3360 - Audio Engineering I - 3 - Credits
MUSC3370 - Audio Engineering II - 3 - Credits
MUSC3410 - Collaborative Piano in Ensemble - 1 - 2 Credits
MUSC3440 - Individual Jazz Piano Instruction for Music Majors - 1 - 2 Credits
MUSC3445 - Individual Piano Instruction for Music Therapy Majors - 1 - 2 Credits
MUSC3450 - Individual Piano Instruction for Music Majors - 1 - 2 Credits

MUSC3460 - Church Music for Organists I - 3 - Credits
MUSC3470 - Church Music for Organists II - 3 - Credits
MUSC3480 - Individual Organ Instruction for Music Majors - 1 - 2 Credits
MUSC3500 - Symphony Orchestra (DHA) - 1 - Credits
MUSC3510 - Orchestra Literature - 2 - Credits
MUSC3515 - Orchestral Auditions Seminar - 2 - Credits
MUSC3520 - String Pedagogy and Solo Literature - 2 - Credits
MUSC3530 - Cache Symphony Orchestra - 1 - Credits
MUSC3540 - Guitar Performance Practicum - 1 - Credits
MUSC3550 - Individual Guitar Instruction for Music Majors - 1 - 2 Credits
MUSC3560 - Guitar History and Literature - 3 - Credits
MUSC3570 - Guitar Pedagogy I - 2 - Credits
MUSC3580 - Guitar Pedagogy II - 2 - Credits
MUSC3590 - Electric Guitar Ensemble - 1 - Credits
MUSC3610 - Vocal Repertory I - 2 - Credits
MUSC3620 - Vocal Repertory II (CI) - 2 - Credits
MUSC3630 - Vocal Pedagogy I - 3 - Credits
MUSC3640 - Vocal Pedagogy II - 3 - Credits
MUSC3660 - Opera by Children - 3 - Credits
MUSC3670 - Individual Vocal Instruction for Music Majors - 1 - 2 Credits
MUSC3700 - Woodwind Ensemble - 1 - 2 Credits
MUSC3710 - Individual Flute Instruction for Music Majors - 1 - 3 Credits
MUSC3720 - Individual Oboe Instruction for Music Majors - 1 - 3 Credits
MUSC3730 - Individual Clarinet Instruction for Music Majors - 1 - 3 Credits
MUSC3740 - Individual Bassoon Instruction for Music Majors - 1 - 3 Credits
MUSC3750 - Individual Saxophone Instruction for Music Majors - 1 - 3 Credits
MUSC3760 - Jazz Ensemble - 1 - Credits
MUSC3770 - Jazz Orchestra - 1 - Credits
MUSC3780 - Flute Ensemble - 1 - Credits
MUSC3785 - Marching Band (DHA) - 1 - Credits
MUSC3790 - Symphonic Band (DHA) - 1 - Credits
MUSC3795 - Wind Symphony - 1 - Credits
MUSC3800 - Low Brass Choir - 1 - Credits
MUSC3810 - Individual Trumpet Instruction for Music Majors - 1 - 3 Credits
MUSC3820 - Individual Trombone Instruction for Music Majors - 1 - 3 Credits
MUSC3830 - Individual French Horn Instruction for Music Majors - 1 - 3 Credits
MUSC3840 - Individual Tuba/Euphonium Instruction for Music Majors - 1 - 3 Credits
MUSC3850 - Brass Ensemble - 1 - Credits
MUSC3860 - Individual Percussion Instruction for Music Majors - 1 - 3 Credits
MUSC3870 - Percussion Ensemble - 1 - Credits
MUSC3900 - Improvisation I - 2 - Credits
MUSC3905 - Improvisation II - 2 - Credits
MUSC3910 - Individual Composition Instruction - 1 - 2 Credits
MUSC3915 - Composition Seminar - 1 - Credits
MUSC3920 - Junior Recital - 1 - 2 Credits
MUSC3930 - Band Literature - 2 - Credits
MUSC3940 - Music and Media - 2 - Credits
MUSC3950 - Jazz Choir - 1 - Credits
MUSC3970 - Non-Profit Arts Management - 3 - Credits
MUSC4240 - Advanced Conducting - 2 - Credits
MUSC4310 - Music Therapy with Adult Populations - 3 - Credits
MUSC4320 - Research in Music Therapy (CI) - 2 - Credits
MUSC4330 - Clinical and Professional Issues in Music Therapy - 3 - Credits
MUSC4340 - Internship in Music Therapy - 2 - Credits
MUSC4410 - Special Topics in Performance and Pedagogy - 1 - 2 Credits
MUSC4460 - Keyboard Skills III - 2 - Credits
MUSC4500 - String Ensemble - 1 - Credits
MUSC4510 - Individual Violin Instruction for Music Majors - 1 - 2 Credits
MUSC4520 - Individual Viola Instruction for Music Majors - 1 - 2 Credits
MUSC4530 - Individual Cello Instruction for Music Majors - 1 - 2 Credits
MUSC4540 - Individual String Bass Instruction for Music Majors - 1 - 2 Credits
MUSC4550 - Acoustic Guitar Ensemble - 1 - Credits
MUSC4600 - University Chorale (DHA) - 1 - Credits
MUSC4620 - Choral Conducting Practicum - 1 - Credits
MUSC4650 - Chamber Singers (DHA) - 1 - Credits
MUSC4700 - Wind Orchestra (DHA) - 1 - Credits
MUSC4710 - Jazz Combo - 1 - 2 Credits
MUSC4720 - Saxophone Quartet - 1 - 2 Credits
MUSC4730 - Directed Project in Instrumental Pedagogy and Literature (CI) - 3 - Credits
MUSC4920 - Senior Recital - 1 - 2 Credits
MUSC4930 - Readings and Conference - 1 - 6 Credits
MUSC4935 - Music BA Capstone Project - 2 - 3 Credits
MUSC4940 - Senior Thesis - 1 - 6 Credits
MUSC5261 - Level I Orff-Schulwerk Teacher Certification - 4 - Credits
MUSC5262 - Level II Orff-Schulwerk Teacher Certification - 4 - Credits
MUSC5263 - Level Three Orff-Schulwerk Teacher Education - 4 - Credits
MUSC5470 - Keyboard Skills IV - 2 - Credits
MUSC5500 - Seminar for Student Teaching - 2 - Credits
MUSC5600 - Opera Theatre Production - 1 - 3 Credits
MUSC5630 - Student Teaching in the Schools - 10 - Credits
MUSC5640 - American Festival Chorus - 1 - Credits
MUSC5915 - Careers in Music - 3 - Credits
MUSC6010 - Introduction to Music Research - 3 - Credits
MUSC6100 - Graduate Performance Ensemble - 1 - 2 Credits
MUSC6110 - Advanced Conducting - 2 - Credits
MUSC6120 - Advanced Rehearsal Techniques - 2 - Credits
MUSC6130 - Music History Seminar - 3 - Credits
MUSC6140 - Music Theory Seminar - 3 - Credits
MUSC6300 - Graduate Piano Literature I - 2 - Credits
MUSC6400 - Graduate Piano Literature II - 2 - Credits
MUSC6410 - Collaborative Artistry - 2 - Credits
MUSC6420 - Pedagogy Practicum - 2 - Credits
MUSC6430 - Special Topics in Performance and Pedagogy - 2 - Credits
MUSC6470 - Keyboard Skills IV - 2 - Credits
MUSC6610 - Practicum in Music Performance - 1 - 4 Credits
MUSC6620 - Seminar in Musical Literature - 2 - Credits
MUSC6630 - Individual Instruction for Graduates - 1 - 2 Credits
MUSC6640 - Graduate Vocal Pedagogy Seminar - 3 - Credits
MUSC6650 - Graduate Advanced Coaching and Repertoire Study - 1 - Credits
MUSC6900 - Independent Study - 1 - 6 Credits
MUSC6910 - Individual Recital - 1 - 3 Credits
MUSC6915 - Careers in Music - 3 - Credits
MUSC6970 - Research and Thesis - 2 - 6 Credits

Nursing Department

Nursing

Interim Department Head: Pam Anderson
Location: HPER 114D
Phone: (435) 797-0768 | **Email:** nursing@usu.edu
Website: nursing.usu.edu

BSN Programs Director: Pam Anderson, HPER 114-E, (435)-797-0768, pamela.anderson@usu.edu

PN/AAS Programs Director: Laura Dotson, Reeves 206-A, USU Eastern, (435) 797-0768, laura.dotson@usu.edu

Academic Advisors:
Heather Thomas, HPER 114B, (435) 797-9684, heather.thomas@usu.edu
Skyler Toledo, HPER 114C, (435-797-0822, skyler.toledo@usu.edu

Degrees and Certificates offered:

Certificate: Practical Nursing - Certificate of Completion

Undergraduate Associate of Applied Sciences in Nursing: Nursing - AAS

Undergraduate Bachelor of Science in Nursing (pre-licensure): Nursing - BSN

Undergraduate RN to BSN(post-licensure): Nursing - RN to BSN (online program)

Full details of the learning objectives, assessment plan, student outcomes, and evidence of continuous improvement for these programs of study can be found at https://cehs.usu.edu/nursing/accreditation-and-assessment/index.

Objectives

The programs in the Department of Nursing educate and develop compassionate and competent nurses who can effectively apply nursing principles to enhance patient care in a rapidly changing and diverse practice environment. We take pride in providing students with access to cutting-edge resources and facilities.

Students develop their clinical expertise in the safe and controlled simulation environment to bridge the gap between theory and practice. Immersive simulations provide hands-on experiences that prepare students for the real-world practice they encounter during their professional careers.

One of the strengths of our nursing programs is that we provide students with many opportunities to practice nursing skills in a diverse range of clinical healthcare settings, including hospitals, community clinics, long-term care facilities, and more. Students develop a comprehensive understanding of healthcare delivery and cultivate adaptability in different care environments.

FACULTY - Emma Eccles Jones College of Education and Human Services

Programs

Practical Nursing - Certificate
Nursing - AAS
Nursing - BSN
Nursing: RN to BSN - BS (Online Program)

Courses

NURS1010 - Introduction to Nursing - 2 - Credits
NURS1020 - Fundamental Concepts of Nursing - 4 - Credits
NURS1030 - Fundamental Concepts of Nursing Clinical - 4 - Credits
NURS1042 - Maternal-Newborn Nursing - 1 - Credits
NURS1110 - Pharmacology - 1 - Credits
NURS1122 - Pediatric Nursing - 1 - Credits
NURS1220 - Nursing Process I - 4 - Credits
NURS1230 - Nursing Process I Clinical - 4 - Credits
NURS1240 - Pharmacology 2 - 1 - Credits
NURS2000 - Introduction To Nursing as a Career - 1 - Credits
NURS2020 - Nursing Process II - 5 - Credits
NURS2030 - Nursing Process II Clinical - 4 - Credits
NURS2140 - Advanced Maternal-Newborn Nursing - 1 - Credits
NURS2220 - Manager of Care - 5 - Credits
NURS2230 - Manager of Care Clinical - 4 - Credits
NURS2240 - Advanced Pediatric Nursing - 1 - Credits
NURS2250 - Introductory Internship/Co-op - 1 - 5 Credits
NURS2500 - Pathophysiology for Nursing - 3 - Credits
NURS2988 - Special Problems - 1 - 3 Credits
NURS3000 - Professional Nursing Practice - 2 - Credits
NURS3010 - Nursing Health Assessment, Teaching, & Skills - 2 - Credits
NURS3020 - Fundamentals of Nursing - 2 - Credits
NURS3025 - Fundamentals of Nursing Practicum - 2 - Credits
NURS3030 - Nursing Management of Care I - 4 - Credits
NURS3035 - Nursing Management of Care I Practicum - 3 - Credits
NURS3040 - Pharmacology in Health Care - 3 - Credits
NURS3200 - Psychiatric Mental Health Nursing - 3 - Credits
NURS3210 - Population Health and Prevention (CI) - 3 - Credits
NURS3215 - Population Health and Prevention Practicum - 2 - Credits
NURS3220 - Family Nursing through the Lifespan - 4 - Credits
NURS3225 - Family Nursing through the Lifespan Practicum - 2 - Credits
NURS3230 - Evidence-Based Health Care (QI) - 3 - Credits
NURS3240 - Health Information Management and Technology - 2 - Credits
NURS3250 - Emergency Nursing - 3 - Credits
NURS3300 - Advanced Health Assessment and Promotion - 2 - Credits
NURS4010 - Leadership, Management, and Policy in Health Care (CI) - 3 - Credits
NURS4015 - Leadership, Management, and Policy in Health Care Practicum - 2 - Credits
NURS4020 - Nursing Management of Care II - 4 - Credits
NURS4025 - Nursing Management of Care II Practicum - 4 - Credits
NURS4100 - Nursing Care of Aging Adults - 2 - Credits
NURS4210 - Nursing Capstone - 2 - Credits
NURS4215 - Nursing Capstone Practicum - 4 - Credits
NURS4250 - Advanced Internship/Co-op - 1 - 5 Credits
NURS4300 - Issues and Trends in Health Care - 2 - Credits

Nutrition, Dietetics & Food Sciences Department

Nutrition, Dietetics and Food Sciences

Department Head: Heidi Wengreen
Location: Nutrition and Food Sciences 212
Phone: (435) 797-1806 | **FAX:** (435) 797-2379
E-mail: heidi.wengreen@usu.edu
Website: ndfs.usu.edu

Undergraduate Advisor: Dawnetta Mahnken, Agricultural Science Building Room 417 and Nutrition and Food Sciences Room 221, (435) 797-3096, dawnetta.mahnken@usu.edu.

To schedule an appointment, visit https://aggie.link/DawnetttaMahnken.

Minors: Food Science, Hunger and Food Security Studies

Undergraduate Degrees: Bachelor of Science (BS) in Dietetics; BS in Nutrition Science, emphasis areas in Pre-Health and Sports Nutrition; BS in Food Science

Undergraduate Certificates: Food Manufacturing, Food Processing, and Food Security Studies

Post-Baccalaureate Certificates: Advanced Practice in Dietetics (Dietetic Internship), Didactic Program in Dietetics (Verification Statement), Practitioner of Food Safety

Graduate Degrees: Dietetics Administration (MDA), Pre-Registered Dietitian emphasis, post-Registered Dietician emphasis; Master of Food Safety and Quality (FSQ); Master of Public Health (MPH) Nutrition; Master of Science (MS), specializations in dietetics, food biotechnology, food chemistry, food engineering, food microbiology, food processing human nutrition, nutritional epidemiology, and nutrient metabolism; Doctor of Philosophy (PhD), specializations in dietetics, food biotechnology, food chemistry, food engineering, food microbiology, food processing human nutrition, nutritional epidemiology, and nutrient metabolism.

Full details of the learning objectives, assessment plan, student outcomes, and evidence of continuous improvement for these programs of study can be found at https://QANR.usu.edu/ndfs/assessment.

Objectives of Academic Programs

The Department of Nutrition, Dietetics and Food Sciences has the following three objectives:

1. To provide students with the scientific/academic background necessary to function well in further academic pursuits or future work environments.
2. To provide students with the critical thinking and problem-solving skills necessary to enhance further academic pursuits or future work environments.
3. To provide students with practical application and work experience credentials to provide personal and employment satisfaction.

Program Descriptions and Career Opportunities

Food Science
A degree in the Food Science emphasis applies principles of engineering, biology, and physical science to food. Students in this discipline focus on the production, selection, preservation, processing, packaging, distribution, and use of safe, nutritious, and wholesome food. Graduates receive an excellent background in chemistry, engineering, food processing, microbiology, sensory evaluation, and statistics. Students planning to apply to graduate school are encouraged to major in Food Science instead of Food Technology Management. The Food Science program is approved by the Institute of Food Technologists.

Nutrition Science
The Nutrition Science emphasis is for students who are interested in studying the molecular and cellular aspects of human health and disease. This is a multi-disciplinary program in which students learn to apply techniques from the fields of molecular and cellular biology, physiology, genetics, and biochemistry to issues in nutrition. Students will gain experience in laboratory, clinical, and epidemiological methods, and may have the opportunity to gain laboratory research experience in nutrition studies being conducted by faculty members. The undergraduate Bachelor of Science degree qualifies a student with the Nutrition Science emphasis to find employment in industry or academic laboratories, as well as in government agencies. It can also be used as preparation for medical or graduate school.

The Nutrition Science option may also apply to students planning to pursue medical school, dental school, or another professional degree. Because nutrition is an applied science and offers research opportunities, completing a degree in this emphasis area may give students an advantage for admission to medical school, over applicants representing other science majors.

Dietetics
Students in the Dietetics program prepare to become Registered Dietitian Nutritionists (RDN) and receive excellent instruction and hands-on experience in clinical nutrition, community nutrition, and food service management.

Graduates of the Didactic Program in Dietetics are eligible to receive an Accreditation Council for Education in Nutrition and Dietetics (ACEND) Verification Statement. To be eligible to take the national registration exam for Registered Dietitian Nutritionists students need to also complete an ACEND accredited program that provides the required supervised practice and complete a graduate degree. The NDFS program offers two pathways for students to complete the supervised practice necessary to qualify to take the national registration exam to become a Registered Dietitian Nutritionist (RDN); the Post-Baccalaureate Certificate of Advanced Practice in Dietetics (CAPD) and the Pre-RD Master of Dietetic Administration. Students completing the CAPD must also complete a graduate degree to qualify to sit for the registration exam.

Admission into the Dietetics requires formal application when prerequisite coursework is completed. Students with an institution GPA of 3.0 or higher and a grade of C- or better in required prerequisite coursework are eligible to apply.

Students are encouraged to discuss their supervised practice and graduate school plans with their advisor early in their education to ensure they meet all necessary requirements for admission.

Completion of courses required for the Food Science Emphasis, Nutrition Science emphasis, or Dietetics emphasis may be suitable preparation for students planning to apply to medical school. Students need to meet with the departmental undergraduate advisor to develop an individualized plan of study.

Financial Support

The Department of Nutrition, Dietetics and Food Sciences and the College of Agriculture and Applied Sciences award scholarships in addition to those available through the university Financial Aid Office. Information and application forms may be obtained from the department office. Students may also contact the department for assistance in finding employment that will enhance their academic studies. Many students are employed by the department and by private firms near the university.

Assessment of Instruction

Information about assessment within each of the departmental programs can be found at https://QANR.usu.edu/ndfs/assessment.

University Honors Program

The University Honors Program offers students in all colleges and majors the unique opportunity to deepen their educational experience with hands-on practical applications of their academic knowledge. The Honors Program admits incoming, transfer, and existing USU students based on application. High achieving students with at least one year remaining are encouraged to apply. See the University Honors Program catalog entry and website (honors.usu.edu) for more information.

Additional Information

For more information about Bachelor of Science requirements and the sequence in which courses should be taken, see major requirement sheet, available from the Nutrition, Dietetics, and Food Sciences Department.

Graduate Programs

Registration Requirements for Graduate Students

Once admitted, students are required to maintain enrollment as follows: at least 3 credits to use university facilities and receive direction (including thesis or dissertation direction) from their major professor; at least 6 credits if on a Graduate Teaching or Research Assistantship (9 credits if employed less than 15 hours per week); at least 9 credits if on a Research Fellowship or unsupported; at least 6 credits if receiving tuition waivers, student loans, or other university-administered financial aid; and no more than 6 credits if employed full time by the university.

Assistantship Policy on Additional Employment

Graduate students in the department receiving a 0.5 FTE assistantship may not accept additional employment without written permission of their major professor and the department head; this policy is to ensure that graduate students have sufficient time available to complete the academic requirements of their degree in a timely fashion.

Financial Assistance

Some teaching assistantships and many research assistantships are available to graduate students in the Department of Nutrition, Dietetics, and Food Sciences. Teaching assistantships are used to cover the teaching needs of the department. Research fellowships and research assistantships are available through individual faculty members. Most research assistantships are tied to specific research projects.

Graduate students in the department receiving a 0.5 FTE assistantship may not accept additional employment without written permission of their major professor and the department head; this policy is to ensure that graduate students have sufficient time available to complete the academic requirements of their degree in a timely fashion.

The Gandhi Scholarship is available, on a competitive basis, to support outstanding students during their graduate education in food science. Each incoming student may select any advisor who fits his or her area of interest in food science. Awards are available for entering master's degree students, as well as for PhD candidates. Applications are due February 1. To obtain an application, visit the Department of Nutrition, Dietetics, and Food Sciences website or contact the departmental staff.

Additional Information

Additional information and updates may be obtained by writing or telephoning the Department of Nutrition, Dietetics, and Food Sciences directly or by checking out the departmental website at ndfs.usu.edu.

Graduation requirements described in this catalog are subject to change. Students should check with the Department of Nutrition, Dietetics, and Food Sciences concerning possible changes.

FACULTY - College of Agriculture and Applied Sciences

Programs

Applied Practice in Dietetics - Post-Bachelor's Certificate
Didactic Program in Dietetics - Post-Bachelor's Certificate
Dietetics - Didactic Program in Dietetics Emphasis - BS
Dietetic Internship - Post-Bachelor's Certificate
Food Science - Minor
Food Science - BS
Food Manufacturing - Certificate
Food Security Studies - Institutional Certificate of Proficiency
Food Processing - Certificate
Hunger and Food Security Studies - Minor
Master of Dietetics Administration - MDA
Food Safety and Quality - MFSQ
Nutrition and Food Sciences - MS
Nutrition and Food Sciences - PhD
Nutrition Science - BS
Nutrition Science - Pre-Health Emphasis - BS
Nutrition Science - Sports Nutrition Emphasis - BS
Practitioner of Food Safety - Post-Bachelor's Certificate
Master of Public Health: Public Health Nutrition Specialization - MPH

Courses

NDFS1000 - Introduction to Food Science and Technology - 3 - Credits
NDFS1010 - Chocolate: Science, History, and Society (BPS) - 3 - Credits
NDFS1020 - Science and Application of Human Nutrition (BLS) - 3 - Credits
NDFS1030 - Introduction to Dietetics and Nutrition Science - 1 - Credits
NDFS1240 - Food Literacy - 3 - Credits
NDFS1250 - Sanitation and Safety - 3 - Credits
NDFS1600 - Medical Terminology for Health Care Professionals - 2 - Credits
NDFS2020 - Nutrition Throughout the Life Cycle - 3 - Credits
NDFS2030 - Nutrition and Physical Performance - 2 - Credits
NDFS2040 - Fundamentals of Food Processing - 3 - Credits
NDFS2500 - Dietetics-Related Experiences I - 1 - 6 Credits
NDFS3010 - Didactic Program in Dietetics Orientation - 1 - Credits
NDFS3040 - Nutrition Assessment - 3 - Credits
NDFS3045 - Nutrition Assessment Lab - 1 - Credits
NDFS3050 - Education and Counseling Methods in Dietetics I (CI) - 3 - Credits
NDFS3060 - Education and Counseling Methods in Dietetics II (CI) - 3 - Credits
NDFS3065 - Education and Counseling Lab - 1 - Credits
NDFS3070 - Science of Food Preparation - 4 - Credits
NDFS3080 - Community Nutrition - 3 - Credits
NDFS3110 - Food, Technology, Sustainability and Health (DSC) - 3 - Credits
NDFS4010 - Preparation for Supervised Practice - 1 - Credits
NDFS4020 - Advanced Nutrition - 3 - Credits
NDFS4440 - Fundamentals of Food Engineering (QI) - 4 - Credits
NDFS4560 - Medical Nutrition Therapy (CI) - 4 - Credits
NDFS4710 - Food Service Systems - 3 - Credits
NDFS4720 - Management in Dietetics (QI) - 3 - Credits
NDFS4780 - Maternal and Child Nutrition (CI) - 3 - Credits
NDFS4900 - Special Problems - 1 - 4 Credits
NDFS5010 - Hunger Issues and Solutions - 3 - Credits
NDFS5020 - Meat Science and Technology - 4 - Credits
NDFS5030 - Dairy Technology and Processing - 3 - Credits
NDFS5040 - Dairy Foods Processing Laboratory - 1 - Credits
NDFS5050 - Clinical Skills I - 1 - Credits
NDFS5060 - Clinical Skills II - 2 - Credits
NDFS5080 - Food Service Skills - 2 - Credits
NDFS5090 - Community Skills I - 1 - Credits
NDFS5100 - Sensory Evaluation of Food (QI) - 3 - Credits
NDFS5110 - Food Microbiology (CI) - 3 - Credits
NDFS5111 - Food Microbiology Laboratory - 1 - Credits
NDFS5210 - Advanced Public Health Nutrition (CI) - 3 - Credits
NDFS5230 - Communication of Current Topics in Nutrition (CI) - 3 - Credits
NDFS5250 - Occupational Experiences in Nutrition and Food Sciences - 1 - 3 Credits
NDFS5300 - Advanced Micronutrient Nutrition - 3 - Credits
NDFS5310 - Fundamentals of Nutrition Research - 3 - Credits
NDFS5320 - Advanced Sports Nutrition - 3 - Credits
NDFS5410 - Nutrient Gene Interactions (CI) - 3 - Credits
NDFS5430 - Nutrition Assessment - 3 - Credits
NDFS5431 - Education and Counseling Methods in Dietetics I - 3 - Credits
NDFS5432 - Community Nutrition - 3 - Credits
NDFS5433 - Advanced Nutrition - 3 - Credits
NDFS5434 - Food Service Systems - 3 - Credits
NDFS5435 - Education and Counseling Methods in Dietetics II - 3 - Credits
NDFS5436 - Science of Food Preparation - 4 - Credits
NDFS5437 - Medical Nutrition Therapy - 4 - Credits
NDFS5438 - Management in Dietetics - 3 - Credits
NDFS5450 - Study Abroad Experience - 1 - 5 Credits
NDFS5500 - Food Analysis (QI) - 4 - Credits
NDFS5510 - Food Laws and Regulations - 3 - Credits
NDFS5560 - Food Chemistry - 4 - Credits
NDFS5610 - Food and Bioprocess Engineering - 3 - Credits
NDFS5710 - Cereal Science and Technology - 3 - Credits
NDFS5750 - Advanced Dietetics Practicum - 2 - Credits
NDFS5800 - Counseling and Motivational Interviewing for Health Professionals - 3 - Credits
NDFS5920 - Food Product Development (CI) - 3 - Credits
NDFS6010 - Hunger Issues and Solutions - 3 - Credits
NDFS6020 - Meat Science and Technology - 4 - Credits
NDFS6030 - Dairy Technology and Processing - 3 - Credits
NDFS6040 - Dairy Foods Processing Laboratory - 1 - Credits
NDFS6050 - Community Nutrition Experience - 3 - Credits
NDFS6051 - Advanced Community Nutrition - 2 - Credits
NDFS6060 - Community Skills II - 2 - Credits
NDFS6100 - Sensory Evaluation of Food - 3 - Credits
NDFS6110 - Food Microbiology - 3 - Credits
NDFS6111 - Food Microbiology Laboratory - 1 - Credits
NDFS6140 - Introduction to Public Health - 3 - Credits
NDFS6150 - Principles of Food Sanitation - 3 - Credits
NDFS6160 - Principles of Food Toxicology - 3 - Credits
NDFS6170 - Food Safety and Quality: Food Safety Management - 1 - Credits
NDFS6171 - Food Safety and Quality: Current Good Manufacturing Practice - 1 - Credits
NDFS6172 - Food Safety and Quality: Hazard Analysis and Critical Control Points - 1 - Credits
NDFS6173 - Food Safety and Quality: Preventive Controls - 1 - Credits
NDFS6174 - Food Safety and Quality: Standards for Produce Safety - 1 - Credits
NDFS6175 - Food Safety and Quality: Acidified Foods - 1 - Credits
NDFS6180 - Food Safety Inspection and Auditing - 1 - 2 Credits
NDFS6200 - Nutritional Epidemiology - 3 - Credits
NDFS6210 - Advanced Public Health Nutrition - 3 - Credits
NDFS6230 - Communicating Current Topics in Public Health - 3 - Credits
NDFS6240 - Program Planning and Evaluation in Public Health - 3 - Credits
NDFS6250 - Clinical Nutrition Experience - 3 - 7 Credits
NDFS6251 - Advanced Clinical Nutrition - 2 - Credits
NDFS6280 - Public Health Administration and Leadership - 3 - Credits
NDFS6300 - Advanced Micronutrient Nutrition - 3 - Credits
NDFS6310 - Fundamentals of Nutrition Research - 3 - Credits
NDFS6320 - Advanced Sports Nutrition - 3 - Credits
NDFS6350 - Food Service Management Experience - 3 - 5 Credits
NDFS6351 - Advanced Food Service Management - 2 - Credits
NDFS6410 - Nutrient Gene Interactions - 3 - Credits
NDFS6440 - Food Composition and Analysis - 3 - Credits
NDFS6450 - Dietetics Career Essentials - 1 - Credits
NDFS6460 - Medical Dietetics (CI) - 4 - Credits
NDFS6470 - Global Public Health - 3 - Credits
NDFS6500 - Food Analysis - - 4 Credits
NDFS6510 - Food Laws and Regulations - 3 - Credits
NDFS6530 - Food Packaging and Labeling - 3 - Credits
NDFS6540 - Introduction to Epidemiology and Biostatistics - 3 - Credits
NDFS6550 - Public Health Policy and Advocacy - 3 - Credits
NDFS6560 - Food Chemistry - 4 - Credits
NDFS6570 - Communication Techniques in Dietetics - 3 - Credits
NDFS6580 - Application of Research Principles in Dietetics - 3 - Credits
NDFS6600 - Current Topics in Obesity - 3 - Credits
NDFS6610 - Food and Bioprocess Engineering - 3 - Credits
NDFS6620 - Microbiology of Fermented Dairy Foods - 3 - Credits
NDFS6640 - Food Proteins and Enzymes - 3 - Credits
NDFS6660 - Cheese Science - 3 - Credits
NDFS6680 - Milk Concentration and Fractionation - 3 - Credits
NDFS6700 - Dairy Chemistry - 2 - Credits
NDFS6710 - Cereal Science and Technology - 3 - Credits
NDFS6760 - Special Topics in Nutrition and Food Science - 1 - 3 Credits
NDFS6770 - Dietetics Leadership and Management I - 3 - Credits
NDFS6780 - Dietetics Leadership and Management II - 3 - Credits
NDFS6790 - Current Issues in Dietetics - 3 - Credits
NDFS6800 - Counseling and Motivational Interviewing for Health Professionals - 3 - Credits
NDFS6810 - Social Determinants of Health - 3 - Credits
NDFS6850 - Applied Practice Experience in Public Health Nutrition - 3 - 6 Credits
NDFS6900 - Special Problems - 1 - 4 Credits
NDFS6910 - Teaching Experiences in Nutrition and Food Sciences - 1 - 2 Credits

NDFS6950 - MFSQ Special Problems - 1 - 4 Credits
NDFS6960 - MFSQ Capstone - 1 - 4 Credits
NDFS6970 - Thesis Research - 1 - 12 Credits
NDFS6980 - MDA Master's Project - 1 - 3 Credits
NDFS6990 - Continuing Graduate Advisement - 1 - 12 Credits
NDFS7800 - Seminar - 1 - Credits
NDFS7970 - Dissertation Research - 1 - 12 Credits
NDFS7990 - Continuing Graduate Advisement - 1 - 12 Credits

Physics Department

Physics

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Academic Advisor: Karalee Ransom, Science Engineering Research 250D, (435) 797-402, karalee.ransom@usu.edu

Degrees offered: Bachelor of Science (BS), Bachelor of Arts (BA), Master of Science (MS), and Doctor of Philosophy (PhD) in Physics; BS in Physics Teaching; BS in Composite Teaching—Physical Science (Physics)

Undergraduate emphases: *BS*—Professional Emphasis or Applied Emphasis

Graduate specializations: Upper Atmospheric Physics (MS only)—Restricted access MS degree that emphasizes upper atmospheric and space physics applied knowledge for space weather operations clientele.

Full details of the learning objectives, assessment plan, student outcomes, and evidence of continuous improvement for these programs of study can be found at www.physics.usu.edu/assessment/assessment.htm.

Undergraduate Programs

Objectives

The Physics Department embraces undergraduate students from all quarters of the university—in introductory courses required for majors by various departments, in courses for more general audiences that are part of the University Studies Program, and in upper-level courses designed primarily to fulfill bachelor's degree requirements in Physics. These courses, and the degree programs offered, are strongly impacted by the department's central goals:

1. to communicate the beauty and utility of the fundamental principles of the physical universe and the power of describing nature in quantitative terms,
2. to create new knowledge,
3. to foster critical and creative thinking,
4. to enhance the ability of citizens to participate in a technological democracy,
5. to assist in the preparation of elementary and secondary school teachers,
6. to provide opportunities for students to sharpen their communication and interpersonal skills, and
7. to develop new tools and texts to improve physics pedagogy.

The degree programs of the department are constructed to be rigorous, yet flexible, and are intended to help students prepare for careers in academia, government and industrial laboratories, medicine, law, teaching, and business. Required course and laboratory work in these programs carefully balances theory and experiment. Because the department believes one must participate in discovery to understand science, undergraduates are encouraged to engage in departmental research early in their studies, and a formal research experience is integral to most departmental programs. The department's Microgravity Research Team (MRT) activities provide excellent opportunities for students of all backgrounds to participate in space-related research.

Requirements

Departmental Admission and Graduation Requirements

New freshmen admitted to USU in good standing qualify for admission to the degree programs in Physics. Admission in good standing for students transferring from another institution requires a minimum transfer GPA of 2.2, while students transferring from another USU major are required to have a minimum total GPA of 2.0. Students wishing to complete the Teaching Major in Physics must apply for admission to the Secondary Education program as well. Requirements for admission to the **Secondary Teacher Education Program (STEP)** include a minimum GPA of 3.0 in PHYS 2210, PHYS 2215, PHYS 2220 and PHYS 2225; and at least 60 total credits completed with a minimum GPA of 2.75. A Composite Teaching Major in Physical Science is available through either the Physics or the Chemistry and Biochemistry departments. Students applying for admission to the STEP with the Composite major must satisfy the latter requirements, plus a minimum GPA of 3.0 in CHEM 1210, CHEM 1215, CHEM 1220, and CHEM 1225.

Students may use no more than one course with the P-D-F option to satisfy a major or minor requirement in Physics. All other courses used to satisfy major or minor requirements must be completed with at least a *C-* grade, and the total GPA in all required Physics courses must be at least 2.3. The Teaching Major and Teaching Minor in Physics and the Composite Teaching Major in Physical Science require a 3.0 minimum GPA in Physics courses and a minimum 2.75 overall GPA for graduation.

Suggested Four-year Plans

Suggested semester-by-semester four-year plans for students working toward a Bachelor of Science or Bachelor of Arts degree in majors are available in the Department of Physics.

Students should consult with their advisor to develop a plan of study tailored to their individual needs and interests.

Undergraduate Research Opportunities

The Physics Department at Utah State University has a long record of successfully involving its undergraduate students in research and extracurricular scholarly activities. Learning what science is, requires more than just doing homework and taking exams; it requires getting involved in the pursuit of knowledge that is not yet in any textbook. Undergraduates can take PHYS 4900 (Research in Physics) for academic credit. However, many students participate in research activities without credit, because they enjoy being immersed in the act of discovery. Having a meaningful research experience and working closely with faculty are useful for applying for employment, admission to graduate schools, and applying for competitive scholarships. For more information, contact Charles Torre at charles.torre@usu.edu, or visit the following website: http://physics.usu.edu/research/undergrad.html

University Honors Program

The University Honors Program offers students in all colleges and majors the unique opportunity to deepen their educational experience with hands-on practical applications of their academic knowledge. The Honors Program admits incoming, transfer, and existing USU students based on application. High achieving students with at least one year remaining are encouraged to apply. See the University Honors Program catalog entry and website (honors.usu.edu) for more information.

Learning Objectives

The Physics Department has the following learning objectives. While many of these objectives are applicable to all six departmental programs, some apply only to specific programs. To see which program(s) includes each learning objective, see the footnotes which follow.

1. Capable communication, written and oral 1,2,3,4,5,6
2. Skepticism 1,2,3,4,5,6
3. Ability in critical thinking and problem solving 1,2,3,4,5,6
4. Knowledge of physics subjects to an advanced undergraduate level 1,2,3,4,5,6
5. Wide knowledge of physics subjects to an advanced undergraduate level 2,3
6. Knowledge of focused applied areas of study to the undergraduate level 4
7. Experience in experimental physics 1,2,3,4,5,6
8. Experience in physics research 1,2,3,4,5,6
9. Knowledge of computer methods in physics 1,2,3,4,5,6
10. Knowledge of broadening subjects 1,2,3,4,5,6
11. Knowledge of mathematics to undergraduate calculus level 1,2,3,4,5,6
12. Knowledge of mathematics to undergraduate differential equations level 1,2,3,4,5
13. Knowledge of statistics to undergraduate level 5,6
14. Knowledge of philosophy of science to the undergraduate level 1
15. Knowledge of a foreign language to the undergraduate level 1

Programs

The footnotes following each of the preceding learning objectives indicate which program(s) include that objective. The six undergraduate programs are as follows:

1 BA degree in physics
2 BS degree in physics
3 BS degree in physics with professional emphasis
4 BS degree in physics with applied emphasis
5 BS degree in physics teaching
6 BS in composite teaching physical science

Assessment

The Physics Department supports an ongoing program of assessment based upon input from students, alumni, colleagues, professional organizations, etc. For details, see: http://physics.usu.edu/assessment/assessment.htm

Additional Information

Information concerning degree programs, recommended schedules of courses, career opportunities, and opportunities to participate in the Get Away Special (GAS) or Society of Physics Students (SPS) activities, and in other areas of undergraduate research may be obtained by consulting the Physics advisor in SER 250. Also see the department's website at www.physics.usu.edu/.

Major requirement sheets, which provide details of undergraduate programs in physics, can be obtained from the department.

Graduate Programs

Admission Requirements

In addition to the general requirements for admission established by the School of Graduate Studies, the department admission committee bases its decisions for offering admission on the following criteria: review of applicants' undergraduate records, letters of recommendation, performance in graduate courses (if any), performance in research (if any), and scores on the Graduate Record Examination. Students whose native language is not English are strongly encouraged to submit to the School of Graduate Studies results of the Test of Spoken English (TSE). Regardless, nonnative English speakers must submit a score for the Test of English as a Foreign Language (TOEFL). If a satisfactory score on the TSE is not provided, such students will be required to take a test given by the Intensive English Language Institute (IELI) at USU. The purpose of this test is to guide the selection of remedial language courses, if needed, to help with physics coursework comprehension.

Placement

Prior to registering for graduate courses for the first time, each student will consult with the Graduate Student Tracking Committee and the departmental advisor. Based on these discussions, the student will be advised to register for courses in either the Physics Department standard curriculum or advanced curriculum. Continuing advisement concerning courses will be provided by the Graduate Student Tracking Committee, the departmental advisor, and the student's graduate supervisory committee.

Qualification Requirements

Each student enrolled in the PhD program will be evaluated for qualification for PhD work. Consideration of qualification will occur no later than the end of the second semester after the student has been admitted for study in the PhD program and has taken a first graduate course in physics. Evaluation will be based on whatever relevant information the student wishes to have presented on his or her behalf (coursework, research, TA performance, subject GRE, etc.), but must include a faculty evaluation of coursework in physics for courses taken at USU. Normally, the student should present the results of at least four physics courses. Based on the various pieces of information presented on behalf of the student, the department will judge whether or not the student is qualified to continue in the PhD program. If not, a student already having an MS in physics from USU will be asked to leave. A student without an MS in physics from USU will be invited to finish his or her MS degree. Upon completion, the student can reapply to the PhD program, but acceptance will be contingent on the evaluation of the student's graduate work to that point.

Research

Space Science

The Physics Department is active in the field of atmospheric and space science, in close association with the interdisciplinary Center for Atmospheric and Space Sciences and the Space Dynamics Laboratory. Atmospheric and space science involves many areas of physics, in addition to such disciplines as engineering, chemistry, and meteorology. At USU, these groups enjoy a strong cooperative relationship and, as a result, the atmospheric and space science program has flourished for many years. Once the departmental requirements have been met, students may select courses from the offerings of the associated departments suited for their particular interests and needs while they gain research experience on challenging problems in atmospheric and space science. Opportunities are available for students in both experimental and theoretical projects. These include participation in instrument development and data analysis related to rocket, satellite, and space shuttle projects and projects in experimental design and data analysis related to incoherent-scatter and coherent radars, ground-based magnetometer, and ground-based optical instruments including a LIDAR system. Opportunities also exist in theoretical modeling of physical processes occurring in both the neutral atmosphere and in the plasma in the solar-terrestrial environment.

Plasma Theory and Confinement

Research in the field of magnetic confinement fusion at Utah State University includes the theoretical development of improved hybrid fluid/kinetic models for terrestrial and astrophysical plasmas. This work provides theoretical support for next-step fusion experiments such as the International Thermonuclear Experimental Reactor (ITER).

Surface Physics

The surface physics group has an active experimental research program studying the structure, growth, dynamics, electronic properties, and optical properties of surfaces, interfaces, and adsorbed layers. The group has expertise in the interactions of electrons, ions, and photons with materials. Experimental techniques used within the group include atomic force microscopy (AFM), Auger electron spectroscopy (AES), infrared spectroscopy, ion scattering spectroscopy, ion implantation, low-energy electron diffraction (LEED), photo emission spectroscopy, scanning electron microscopy (SEM), scanning tunneling microscopy (STM), secondary ion mass spectroscopy (SIMS), thermal deflection spectroscopy, ultra fast femtosecond laser spectroscopy, vapor pressure adsorption isotherms, and x-ray diffraction. This interdisciplinary research brings together the fields of solid-state physics, surface physics and chemistry, optics, physical chemistry, and electrochemistry through active collaborations between Physics, Chemistry and Biochemistry, Mechanical and Aerospace Engineering, and other departments. It includes both basic and applied research.

Physics of Quantum Devices

The rapid advance of technology has made quantum physics an indispensable foundation of the nanoscale devices. The Physics Department is positioned to explore this new field with two complementary research themes. The first theme is to study the growth of novel electronic/photonic materials involving group III-V elements using a commercial, state-of-the-art molecular beam epitaxy machine. Also, novel semiconductor quantum nanostructures are studied using an in-situ scanning tunneling microscope directly attached to the machine. The second theme is to use the most advanced surface science techniques to fabricate nanoscale structures on semiconductor surfaces. The interdisciplinary nature of this field provides a stimulating research environment for faculty and students with backgrounds in physics, electrical engineering, material sciences, and chemistry.

Fields, Astrophysics, and Spacetime Theory

The fundamental theoretical physics group at USU engages in research in selected areas of: general relativity and gravitation, supergravity, string theory, unified field theories, black hole astrophysics, mathematical physics, computer algebra. The research group benefits from a strong collaborative connection with the researchers from the Department of Mathematics and Statistics.

Physics Education

The USU Physics Department is engaged in the study of how to improve the teaching and learning of physics. The program currently emphasizes introductory and general education courses and involves the development of hands-on, inquiry-based curricula for lecture and laboratory, development of associated laboratory and multimedia equipment and modules, preparation of new texts and workbooks, sponsorship of undergraduate research, and outreach to the precollege community.

Complex Materials and Dynamics

Current work at USU in the interdisciplinary area of complex systems includes development of new data analysis techniques for uncovering evidence for determinism and computation in biological systems.

Financial Assistance

Financial assistance in the form of teaching assistantships and fellowships is awarded by the department. Research assistantships are available from research groups or individuals. Some support for teaching laboratory sections or grading papers is available. To be eligible for a teaching assistantship (TA), a student must successfully complete a graduate TA workshop. Nonnative English-speaking students must pass a test of spoken English (or submit a satisfactory TSE score) administered by the Intensive English Language Institute before being admitted to the TA workshop. The MS specialization in Upper Atmospheric Physics is a Western Regional Graduate Program, see School of Graduate Studies.

Career Opportunities

Master's degree holders in physics are generally employed by industrial or government laboratories as either physicists or engineers. Some are hired as teachers by high schools and by two-year colleges. Holders of the PhD in physics will generally be hired as research and development physicists by industrial or government laboratories and as professors in universities (though this may require additional postdoctoral research experience).

Additional Information

Regularly updated information about Physics Department activities and programs may be obtained via the Web at www.physics.usu.edu/.

College of Arts and Sciences Faculty

Programs

Physical Science - Composite Teaching (Physics) - BS
Photonics - Post-Bachelor's Certificate
Photonics - Certificate
Physics Teaching - Minor
Physics Teaching - BS
Physics - Minor
Physics: Applied Emphasis - BS
Physics - BA
Physics - BS
Physics - MS
Physics - PhD
Physics: Professional Emphasis - BS

Courses

PHYS1010 - Elementary Physics (BPS) - 3 - Credits
PHYS1015 - Elementary Physics Laboratory - 1 - Credits
PHYS1040 - Introductory Astronomy (BPS) - 3 - Credits
PHYS1080 - Intelligent Life in the Universe (BPS) - 3 - Credits
PHYS1100 - Great Ideas in Physics (BPS) - 3 - Credits
PHYS1200 - Introduction to Physics by Hands-on Exploration (BPS) - 4 - Credits
PHYS1800 - Physics of Technology (BPS) - 4 - Credits
PHYS2010 - General Physics I - 4 - Credits
PHYS2015 - General Physics Lab I - 1 - Credits
PHYS2020 - General Physics II - 4 - Credits
PHYS2025 - General Physics Lab II - 1 - Credits
PHYS2110 - General Physics—Life Sciences I - 4 - Credits
PHYS2120 - General Physics - Life Sciences II (BPS) - 4 - Credits
PHYS2210 - Physics for Scientists and Engineers I (QI/BPS) - 4 - Credits
PHYS2215 - Physics for Scientists and Engineers Lab I - 1 - Credits
PHYS2220 - Physics for Scientists and Engineers II (BPS/QI) - 4 - Credits
PHYS2225 - Physics for Scientists and Engineers Lab II - 1 - Credits
PHYS2310 - Physics for Scientists I (BPS) - 4 - Credits
PHYS2320 - Physics for Scientists II (BPS) - 4 - Credits
PHYS2710 - Introductory Modern Physics - 3 - Credits
PHYS2977 - Cooperative Education - 1 - 3 Credits
PHYS3010 - Space Exploration from Earth to the Solar System (DSC/QI) - 3 - Credits
PHYS3030 - The Universe (DSC/QI) - 3 - Credits
PHYS3150 - Energy in the Twenty-first Century (DSC/QI) - 3 - Credits
PHYS3500 - Topics in Physics - 1 - 3 Credits
PHYS3550 - Intermediate Classical Mechanics - 3 - Credits
PHYS3600 - Electromagnetism I - 3 - Credits
PHYS3700 - Thermal Physics - 3 - Credits
PHYS3710 - Intermediate Modern Physics - 3 - Credits
PHYS3750 - Foundations of Wave Phenomena - 3 - Credits
PHYS3870 - Intermediate Physics Laboratory (CI) - 3 - Credits
PHYS3880 - Advanced Physics Laboratory (CI) - 3 - Credits
PHYS4600 - Electromagnetism II - 3 - Credits
PHYS4700 - Quantum Mechanics I - 3 - Credits
PHYS4710 - Quantum Mechanics II - 3 - Credits
PHYS4900 - Research in Physics (CI) - 1 - 3 Credits
PHYS5210 - Introduction to Photonics and Devices - 3 - Credits
PHYS5250 - Photonics Laboratory - 3 - Credits
PHYS5340 - Methods of Theoretical Physics I - 3 - Credits
PHYS5350 - Methods of Theoretical Physics II - 3 - Credits
PHYS5500 - Intermediate Topics in Physics (Topic) - 1 - 3 Credits
PHYS5530 - Solid State Physics I - 3 - Credits
PHYS5650 - Optics I - 3 - Credits
PHYS5700 - Introduction to Microfabrication - 3 - Credits
PHYS5710 - Advanced Microfabrication - 3 - Credits
PHYS5800 - Physics Colloquium - 1 - Credits
PHYS5910 - Relativity I - 3 - Credits
PHYS6010 - Classical Mechanics I - 3 - Credits
PHYS6110 - Electrodynamics I - 3 - Credits
PHYS6120 - Electrodynamics II - 3 - Credits
PHYS6210 - Quantum Mechanics I - 3 - Credits
PHYS6240 - Space Environment and Engineering - 3 - Credits
PHYS6250 - Cooperative Work Experience - 1 - 6 Credits
PHYS6310 - Solar-terrestrial Physics I - 3 - Credits
PHYS6410 - Statistical Mechanics I - 3 - Credits
PHYS6530 - Solid State Physics I - 3 - Credits
PHYS6550 - Physics of Materials I - 3 - Credits
PHYS6650 - Optics I - 3 - Credits
PHYS6910 - Relativity I - 3 - Credits
PHYS6930 - Quantum Field Theory I - 3 - Credits
PHYS6940 - Quantum Field Theory II - 3 - Credits
PHYS6970 - Thesis Research - 1 - 10 Credits
PHYS6990 - Continuing Graduate Advisement - 1 - 9 Credits
PHYS7210 - Spacecraft Instrumentation - 3 - Credits
PHYS7500 - Advanced Topics in Physics (Topic) - 3 - Credits
PHYS7510 - Seminar - 1 - 3 Credits
PHYS7970 - Dissertation Research - 1 - 15 Credits
PHYS7990 - Continuing Graduate Advisement - 1 - 9 Credits

Plants, Soils and Climate Department

Plants, Soils and Climate

Department Head: Matt Yost
Location: Agricultural Science 344A
Phone: (435) 797-4210 | **FAX:** (435) 797-3376
E-mail: matt.yost@usu.edu
Website: psc.usu.edu/

Undergraduate Advisor: Abby Macbeth, Agricultural Science 411B, (435) 797-0454, abby.macbeth@usu.edu

Undergraduate Off-Campus Advisor: Tayler Mountford, Salt Lake Center, (435) 797-4230, tayler.mountford@usu.edu

Graduate Program Director: Jeanette Norton, Agricultural Science 340, (435) 797-2166, jeanette.norton@usu.edu

Degrees Offered: Bachelor of Science (BS) and Bachelor of Arts (BA) in Soils and Sustainable Land Systems; BS in Residential Landscape Design and Construction, and Plant Science; Master of Science (MS), and Doctor of Philosophy (PhD) in Climate Science, Plant Science, Soil Science and Ecology.

Undergraduate emphases: Soils and Sustainable Land Systems BS, BA - Environmental Soil Science; Sustainable Food Production; Applied Climatology; Plant Science BS-Horticulture and Cropping Systems; Plant Science, BS-Research; Residential Landscape Design and Construction

Graduate specialization: Bioinformatics and Computational Biology

One Year Certificate and Associate of Applied Science Degree: Ornamental Horticulture - AAS
Full Details of the learning objectives, assessment plan, student outcomes, and evidence of continuous improvement for these programs of study can be found at psc.usu.edu/assessment.

Undergraduate Programs

Objectives

The departmental curricula emphasize understanding the physical, chemical, and biological mechanisms that operate in the continuum of the soil, plants, and the atmosphere; and how they affect management of a wide range of agricultural and natural systems.

The undergraduate teaching program facilitates the acquisition and application of knowledge, understanding, and skills by students within their chosen field of study. The program also prepares students to develop lifelong learning skills, understand and appreciate diversity, be productive citizens of the world, and be professionals in their vocations.

The department also provides training of undergraduates for graduate school and maintains a strong graduate program in biometeorology, plant science, and soil science. The research that underlies the graduate program is conducted in biometeorology (micro- and meso-scale), crop biotechnology, crop ecology, crop physiology, crop science, horticulture (general and ornamental), plant breeding, soil microbiology, pedology, soil chemistry, soil physics, soil fertility, environmental soil and water science, and arid landscaping.

A major effort is directed at extending research and teaching programs to all citizens of the State of Utah.

Departmental Facilities

To support these objectives, departmental facilities include well equipped laboratories and greenhouses on campus. The University has significant acreage for field research at strategic locations throughout the state. In addition, the USU Botanical Center in Kaysville offers opportunities to a broad spectra of clientele. The department maintains state-of-the-art analytical equipment for the measurement of critical soil, plant, and climatic variables.

Requirements

Departmental Admission Requirements
Persons meeting the admission requirements for the university are admitted to the Department of Plants, Soils, and Climate by listing the department major code on the university admission application form. A change of major form is used when students in good standing wish to transfer from another department to the Department of Plants, Soils and Climate.

ARCPACS Certification
Students who meet specific requirements are eligible, after five years of work experience, for professional certification as an Agronomist, Crop Scientist, Crop Specialist, Horticulturist, Soil Scientist, Soil Specialist, or Soil Classifier through the American Registry of Certified Professionals in Agronomy, Crops, and Soils (ARCPACS). General information about ARCPACS certifications can be found at agronomy.org/certifications/. Students interested in becoming certified should inform their advisor of their intent. This certification is granted in addition to the bachelor's degree.

Sample Four-year Plans
Students should consult with their advisor to develop a plan of study tailored to their individual needs and interests. Due to the many changes and new major options, degree plans are not published in this catalog. To obtain current information, students should visit the College of Agriculture and Applied Sciences Student Services Center.

Undergraduate Research Opportunities
The Plants, Soils, and Climate Department is dedicated to providing undergraduate students with opportunities to participate with faculty members in research and creative activities. Examples of recent research include seed germination requirements, plant growth regulators, salt cedar control, pasture growth dynamics, soil-less media characteristics, gene sequencing, and essential oils from native plants. In addition to faculty mentorship of such activities, students may obtain grants of up to $1,000 for support of their projects. For further information, students may contact any departmental faculty member, or view the research website at: research.usu.edu/.

Departmental Assessment
Review and assessment of departmental programs is a commitment of the Plants, Soils, and Climate Department. In 2010, the department completed a USDA-National Institute for Food and Agriculture (NIFA) review. On an ongoing basis, the department evaluates all academic programs. More information about departmental assessment can be found at: psc.usu.edu/htm/about/assessment/.

University Honors Program

The University Honors Program offers students in all colleges and majors the unique opportunity to deepen their educational experience with hands-on practical applications of their academic knowledge. The Honors Program admits incoming, transfer, and existing USU students based on application. High achieving students with at least one year remaining are encouraged to apply. See the University Honors Program catalog entry and website (honors.usu.edu) for more information.

Additional Information

For more information about requirements for undergraduate programs and the sequence in which courses should be taken, see major requirement sheets available from the advisor for the Plants, Soils, and Climate Department.

Graduate Programs

Admission Requirements

Admission requirements for the Plant, Soils and Climate department are similar to those of the USU School of Graduate Studies. Students without an undergraduate or graduate degree in plant science, soil science, climate, or other biological or physical science discipline may be required to complete selected coursework prior to full matriculation into the graduate program. Qualified applicants are sometimes denied admission because faculty members do not have funding or time to advise additional students. Therefore, it is highly recommended that applicants discuss his or her goals with appropriate members of the graduate faculty prior to preparing an application.

Degree Programs and Specializations

Research projects associated with the following degrees will vary over time so students are encouraged to visit the home page websites of the graduate faculty to determine research interests and lists of recent publications https://qanr.usu.edu/psc/directory/#faculty. The Master of Science and Doctor of Philosophy degrees are offered as follows:

Plant Science: This degree includes research in the areas of environmental plant physiology, genetics, molecular biology, plant breeding, crop production, sustainable and organic crop and forage production systems, weed science, bioinformatics and computational biology, urban landscape management, and water management in agricultural and horticultural crops, including turf and other ornamentals.

Soil Science: This degree includes research soil and water chemistry/biogeochemistry, soil biology and ecology, soils and nutrient bioavailability, soil physics, soil and water management, soil genesis, morphology and classification, and sustainable agroecosystems.

Climate Science: This degree includes research of climate dynamics and variability, regional climate modeling, modeling of hydrological processes, spatial variation in surface fluxes of heat and water vapor, micrometeorology, and remote sensing.

Ecology: This is an interdepartmental program in cooperation with the Ecology Center.

Climate Adaptation Science Specialization: This is offered as an interdepartmental program.

Course Requirements

Students upon admission are expected to have courses or knowledge equivalent to an undergraduate BS degree in the program or a closely related field. Course requirements leading to MS or PhD degrees are developed jointly by the student and the student's supervisory committee. Each student must have a Program of Study approved by their supervisory committee. Course selections reflect areas of specialization. Designation of a specialization is optional. Official specializations will appear on transcript. There are additional specific departmental requirements regarding physical sciences, biological sciences, and mathematics courses, which differ depending on the program and area of specialization.

All graduate students are required to complete two credits of PSC graduate seminar (PSC 6890 /7890).

Financial Assistance and Assistantships

The financial awards provided by the School of Graduate Studies are listed in this site. Most monies used to assist students in the department come from research grants controlled by individual faculty members. Negotiations for financial assistance (research assistantships or part time employment) are made between faculty members and students. The MS and PhD in Biometeorology is a Western Regional Graduate Program.

Additional Information and Updates

Additional information and updates concerning graduate faculty and graduate student opportunities can be obtained from the Web at: psc.usu.edu/.

FACULTY - College of Agriculture and Applied Sciences

Programs

Agronomy - Minor
Climate Change and Energy - Minor
Climate Science - BS
Crop Biotechnology - Minor
Climate Science - MS
Climate Science - PhD
Ecology - Plants, Soils and Climate - MS
Ecology - Plants, Soils and Climate - PhD
Horticulture - Minor
Horticulture - BS
Horticulture - MPSH (NOT CURRENTLY OFFERED)
Ornamental Horticulture - Minor
Ornamental Horticulture - AAS
Ornamental Horticulture - Certificate
Plant Science - Horticulture and Cropping Systems Emphasis - BS
Plant Science - MS
Plant Science - PhD
Plant Science - Research Emphasis - BS
Precision Agriculture Technology - Post-Bachelor's Certificate
Residential Landscape Design - Minor
Residential Landscape Design and Construction - BS
Soil Science - Minor
Soil Science - MS
Soil Science - PhD
Soils and Sustainable Land Systems - Environmental Soil Science Option - BS
Soils and Sustainable Land Systems - Sustainable Food Production Option - BS

Courses

PSC1050 - Plants, Soils, and Climate Orientation - 1 - Credits
PSC1800 - Introduction to Horticulture (BLS) - 3 - Credits
PSC1900 - Spring Pruning - 1 - Credits
PSC2000 - The Atmosphere and Weather (BPS) - 3 - Credits
PSC2010 - Soils, Waters, and the Environment (BPS) - 3 - Credits
PSC2030 - Basic Flower Arranging - 2 - Credits
PSC2040 - Aviation Meteorology (BPS) - 3 - Credits
PSC2200 - Pesticide Certification - 2 - Credits
PSC2250 - Occupational Experience in Agronomy and Horticulture - 1 - 4 Credits
PSC2600 - Herbaceous Plant Materials - 3 - Credits
PSC2620 - Woody Plant Materials: Trees and Shrubs for the Landscape - 3 - Credits
PSC2650 - Native Plants - 2 - Credits
PSC2700 - Climate Change Impacts (BPS) - 3 - Credits
PSC2710 - General Meteorology - 3 - Credits
PSC2900 - Special Problems in Plant Science - 1 - 4 Credits
PSC3000 - Fundamentals of Soil Science - 4 - Credits
PSC3100 - Soils and Civilization (DSC) - 3 - Credits
PSC3300 - Residential Landscapes - 3 - Credits
PSC3400 - Arboriculture - 3 - Credits
PSC3430 - Construction Methods for Residential Landscape Installation - 2 - Credits
PSC3500 - Structure and Function of Plants - 3 - Credits
PSC3600 - An Introduction to Plant Breeding and Heredity - 3 - Credits
PSC3700 - Plant Propagation - 4 - Credits
PSC3800 - Fundamentals of Organic Agriculture - 3 - Credits
PSC3801 - Fundamentals of Organic Agriculture Lab I - 1 - Credits
PSC3802 - Fundamentals of Organic Agriculture Fall Lab 2 - 1 - Credits
PSC3810 - Turfgrass Management - 3 - Credits
PSC4050 - Greenhouse Management and Crop Production - 4 - Credits
PSC4250 - Internship in Plants, Soils, and/or Climate - 1 - 4 Credits
PSC4280 - Field and Food Cropping Systems - 3 - Credits
PSC4301 - Computer Aided Residential Landscape Design - 3 - Credits
PSC4302 - Advanced Residential Landscape Design - 3 - Credits
PSC4320 - Forage Production and Pasture Management - 3 - Credits
PSC4350 - Applied Entomology - 3 - Credits
PSC4400 - Modern Vegetable Production - 3 - Credits
PSC4450 - Plant Diseases - 3 - Credits
PSC4500 - Urban Soil Management and Reclamation - 3 - Credits
PSC4550 - Integrated Weed Management - 3 - Credits
PSC4740 - Climate Practicum - 4 - Credits
PSC4810 - Climate and Climate Change (DSC)(QI) - 3 - Credits
PSC4820 - Challenges in Climate Change and Energy - 3 - Credits
PSC4890 - Senior Seminar (CI) - 1 - Credits
PSC4900 - Special Problems - 1 - 4 Credits
PSC4970 - Undergraduate Research - 1 - 6 Credits
PSC5000 - Environmental Instrumentation - 2 - Credits
PSC5003 - Remote Sensing of Land Surfaces - 3 - Credits
PSC5050 - Principles of Environmental Soil Chemistry - 3 - Credits
PSC5070 - Agroecology - 3 - Credits
PSC5080 - Applied Statistics in Agricultural Research - 3 - Credits
PSC5090 - Sustainable Low Water Landscaping - 3 - Credits
PSC5100 - Professional Turf and Urban Landscape Water Management - 3 - Credits
PSC5123 - Climate Data Analysis - 3 - Credits
PSC5130 - Soil Genesis, Morphology, and Classification - 4 - Credits
PSC5150 - Bioinformatics and Big Data Mining - 3 - Credits
PSC5201 - Hydroponics - 3 - Credits
PSC5222 - Temperate Zone Fruit Production - 3 - Credits
PSC5270 - Environmental Plant Physiology - 2 - Credits
PSC5280 - Plant Stress Physiology - 3 - Credits
PSC5310 - Soil Microbiology - 3 - Credits
PSC5333 - Plant-Microbe Interactions - 3 - Credits
PSC5350 - Wildland Soils - 3 - Credits
PSC5410 - Hydroclimate - 3 - Credits
PSC5420 - Landscape Irrigation Design (QI) - 2 - Credits
PSC5430 - Plant Nutrition - 2 - Credits
PSC5500 - Environmental Physics of Land Ecosystems & Climate - 3 - Credits
PSC5530 - Soil Health and Fertility (QI) - 3 - Credits
PSC5550 - Fundamentals of Integrated Weed Management - 4 - Credits
PSC5560 - Analytical Techniques for the Soil Environment - 3 - Credits
PSC5670 - Environmental Soil Physics - 4 - Credits
PSC5680 - Paleoclimatology - 3 - Credits
PSC5710 - Irrigated Soils - 3 - Credits
PSC5720 - Advanced Plant Breeding - 3 - Credits
PSC5740 - Environmental Quality: Soil and Water (CI) - 2 - Credits
PSC5760 - Climate and Climate Change (DSC)(QI) - 3 - Credits
PSC5777 - Philosophy and History Leading to Science - 2 - Credits
PSC5830 - Atmospheric Instrumentation and Operation - 3 - Credits
PSC5840 - Atmospheric Dynamics - 3 - Credits
PSC5850 - Physical Climatology - 3 - Credits
PSC5860 - Atmospheric Thermodynamics - 3 - Credits
PSC5875 - Synoptic Meteorology - 4 - Credits
PSC5880 - Earth System Science - 3 - Credits
PSC5999 - Precision Agriculture Practicum - 3 - Credits
PSC6000 - Environmental Instrumentation - 2 - Credits
PSC6003 - Remote Sensing of Land Surfaces - 3 - Credits
PSC6050 - Principles of Environmental Soil Chemistry - 3 - Credits
PSC6070 - Agroecology - 3 - Credits
PSC6080 - Applied Statistics in Agricultural Research - 3 - Credits
PSC6090 - Sustainable Low Water Landscaping - 3 - Credits
PSC6100 - Professional Turf and Urban Landscape Water Management - 3 - Credits
PSC6123 - Climate Data Analysis - 3 - Credits
PSC6125 - Climate Modeling and Simulation - 3 - Credits
PSC6130 - Soil Genesis, Morphology, and Classification - 4 - Credits
PSC6140 - Unsaturated Flow and Transport - 3 - Credits
PSC6150 - Bioinformatics and Big Data Mining - 3 - Credits
PSC6201 - Hydroponics - 3 - Credits
PSC6222 - Temperate Zone Fruit Production - 3 - Credits
PSC6270 - Environmental Plant Physiology - 2 - Credits
PSC6280 - Plant Stress Physiology - 3 - Credits
PSC6310 - Soil Microbiology - 3 - Credits
PSC6333 - Plant-Microbe Interactions - 3 - Credits
PSC6350 - Wildland Soils - 3 - Credits
PSC6410 - Hydroclimate - 3 - Credits
PSC6420 - Landscape Irrigation Design - 2 - Credits
PSC6430 - Plant Nutrition - 2 - Credits
PSC6500 - Environmental Physics of Land Ecosystems & Climate - 3 - Credits
PSC6530 - Soil Health and Fertility - 3 - Credits
PSC6550 - Fundamentals of Integrated Weed Management - 4 - Credits
PSC6560 - Analytical Techniques for the Soil Environment - 3 - Credits
PSC6670 - Environmental Soil Physics - 4 - Credits
PSC6680 - Paleoclimatology - 3 - Credits
PSC6700 - Integrative Topics in Plants, Soils, and Climate - 1 - 3 Credits
PSC6710 - Irrigated Soils - 3 - Credits
PSC6720 - Advanced Plant Breeding - 3 - Credits
PSC6760 - Climate and Climate Change - 3 - Credits
PSC6777 - Philosophy and History Leading to Science - 2 - Credits
PSC6820 - Environmental Biophysics - 2 - Credits
PSC6830 - Atmospheric Instrumentation and Operation - 3 - Credits
PSC6840 - Atmospheric Dynamics - 3 - Credits
PSC6850 - Physical Climatology - 3 - Credits
PSC6860 - Atmospheric Thermodynamics - 3 - Credits
PSC6870 - Ecology Seminar - 1 - Credits
PSC6875 - Synoptic Meteorology - 4 - Credits
PSC6880 - Earth System Science - 3 - Credits
PSC6890 - Plants, Soils, and Climate Graduate Seminar - 1 - Credits
PSC6900 - Special Problems in Plants, Soils, and/or Climate - 1 - 8 Credits
PSC6970 - Research and Thesis - 1 - 18 Credits
PSC6990 - Continuing Graduate Advisement - 1 - 12 Credits
PSC7210 - Advanced Topics in Pedology - 2 - Credits

PSC7890 - Plants, Soils, and Climate Graduate Seminar - 1 - Credits
PSC7900 - Special Problems in Plants, Soils, and/or Climate - 1 - 8 Credits
PSC7970 - Research and Thesis - 1 - 18 Credits
PSC7990 - Continuing Graduate Advisement - 1 - 12 Credits

Psychology Department

Psychology Department

The Department of Psychology aims to improve human flourishing by training students, conducting research, and collaborating with and serving its community. It is home to 29 tenured/tenure-track faculty, two instructional faculty, one research faculty, one clinical faculty, seven core staff, research staff, postdocs, teaching, and research assistants. We work to educate more than 800 undergraduate majors in Psychology and over 200 graduate students, delivering courses that fill more than 5,000 seats annually.

Degrees offered include a Bachelor of Science (BS) and Bachelor of Arts (BA) degree in Psychology, a Master of Education (M.Ed.) in School Counseling, an Education Specialist Degree (Ed.S.) in Psychology, a Doctor of Philosophy (Ph.D.) in Neuroscience, and a Doctor of Philosophy (Ph.D.) in Psychology. Doctoral specializations include Behavior Analysis, Brain and Cognition, Combined Clinical/Counseling, and School Psychology.

The faculty of the psychology department conducts research on various topics, including impulsivity, self-control, addictions, relapse, treatment of severe problem behavior among individuals with disabilities, cognitive development, multisensory processing, neuropsychiatric disorders, evidence-based intervention, behavioral health, culture and inclusivity, self-regulated learning, child behavior problems, school mental health, and youth and caregiver mental health.

Contact Information

Department Main Office

Email: Psychology@usu.edu
Phone: (435) 797-1460
Address: 2810 Old Main Hill, Logan, UT, 84322–2810
Office: EDUC487
Website: https://cehs.usu.edu/psychology/

Scott Bates, Department Head: Scott.Bates@usu.edu, EDUC 487E

Graduate Program

Directors

- Behavioral Analysis Ph.D. Specialization - Gregory Madden: Greg.Madden@usu.edu, EDUC 498
- Brain and Cognition Ph.D. Specialization - Chris Warren: Chris.Warren@usu.edu, EDUC 490
- Combined Clinical/Counseling Ph.D. Specialization - Renee Galliher (Director of Clinical Training): Renee.Galliher@usu.edu, EDUC 430. Michael Twohig (Associate Director of Clinical Training): Michael.Twohig@usu.edu, SCCE 418
- Neuroscience Ph.D. Program - Erin Bobeck: Erin.Bobeck@usu.edu, BNR237
- School Counseling M.Ed. Program - Anjanette Todd: Anjanette.Todd@usu.edu, EDUC 488
- School Psychology Ph.D. Specialization - Tyler Renshaw: Tyler.Renshaw@usu.edu, EDUC 418
- School Psychology Ed.S. Specialization - Greg Callan: Greg.Callan@usu.edu, EDUC 422

Graduate Program Coordinators

Ph.D. and Ed.S. Programs - Krista Terrell: Krista.Terrell@usu.edu, EDUC 487B
M.Ed. Program - Meg Campbell: Meg.Campbell@usu.edu

Undergraduate Program

Co-directors

Jennifer Grewe, Co-Director: Jenn.Grewe@usu.edu, EDUC 486
Crissa Draper, Co-Director: Crissa.Draper@usu.edu

Professional Advisors

Becca Boman: Becca.Boman@usu.edu, EDUC 475
Ben Elwood: Ben.Elwood@usu.edu, EDUC 473
Tressa Haderlie: Tressa.Haderlie@usu.edu, EDUC 477

For advising appointments, schedule online here: **cehs.usu.edu/advising**.

FACULTY - Emma Eccles Jones College of Education and Human Services

Programs

Behavioral Health - Minor
Mental Health Advocacy and Awareness - Minor
Neuroscience - PhD
Psychology Teaching - Minor
Psychology - Minor
Psychology - BA, BS
Psychology - EdS
Psychology - MEd
Psychology - MS
Psychology - PhD
School Counseling - MEd

Courses

PSY1010 - General Psychology (BSS) - 3 - Credits
PSY1100 - Lifespan Development - 3 - Credits
PSY1400 - Analysis of Behavior: Basic Principles - 3 - Credits
PSY1410 - Analysis of Behavior: Basic Principles Lab - 1 - Credits
PSY2010 - Orientation to Psychology as a Career and Profession - 2 - Credits
PSY2100 - Developmental Psychology: Adolescence - 3 - Credits
PSY2250 - Introductory Cooperative Work Experience - 1 - 6 Credits
PSY2300 - Psychological Disorders - 3 - Credits
PSY2400 - Happiness: An Evolutionary, Experimental, Experiential Course - 3 - Credits
PSY2710 - Brain and Behavior - 3 - Credits
PSY3000 - Special Topics - 3 - Credits
PSY3010 - Psychological Statistics (QI) - 3 - Credits
PSY3020 - Career Organization for the Psychology Major - 1 - Credits
PSY3110 - Health Psychology - 3 - Credits
PSY3120 - Abuse, Neglect, and the Psychological Dimensions of Intimate Violence (DSS) - 3 - Credits
PSY3400 - Analysis of Behavior: Advanced (DSS) - 4 - Credits
PSY3450 - Sensation and Perception - 3 - Credits
PSY3460 - Neuroscience I - 3 - Credits
PSY3500 - Research Methods in Psychology (DSS/CI) - 3 - Credits
PSY3510 - Social Psychology (DSS) - 3 - Credits
PSY3700 - Mental Health Advocacy and Awareness - 3 - Credits
PSY4000 - Mental Aspects of Sports Performance - 3 - Credits
PSY4020 - Career Preparation for the Psychology Major - 1 - Credits
PSY4140 - Cognitive Neuroscience - 4 - Credits
PSY4210 - Personality Theory (DSS) - 3 - Credits
PSY4230 - Psychology of Gender (DSS) - 3 - Credits
PSY4240 - Multicultural Psychology (DSS) - 3 - Credits
PSY4250 - Advanced Cooperative Work Experience - 1 - 12 Credits
PSY4400 - Matlab for Neuroscience - 4 - Credits
PSY4420 - Cognitive Psychology (DSS) - 4 - Credits
PSY4460 - Neuroscience II - 3 - Credits
PSY4910 - Undergraduate Research Creative Opportunity - 1 - 3 Credits
PSY4920 - Practicum - 1 - 3 Credits
PSY4930 - Practicum in Mental Health - 1 - Credits
PSY4940 - Indigenous Community Engaged Learning - 3 - Credits
PSY4950 - Undergraduate Apprenticeship (CI) - 3 - Credits
PSY4960 - Capstone Seminar in Psychology (CI) - 3 - Credits
PSY5050 - Psychological Aspects of Sports Performance - 3 - Credits
PSY5100 - History and Systems of Psychology - 3 - Credits
PSY5330 - Principles of Psychological Measurement and Test Theory - 3 - Credits
PSY5710 - Advanced Behavioral Neuroscience - 3 - Credits
PSY5900 - Independent Study - 1 - 3 Credits
PSY5910 - Independent Research - 1 - 3 Credits
PSY5930 - Instructional Apprenticeship in Psychology - 1 - 3 Credits
PSY6010 - Introduction to Program Evaluation: Evaluation Models and Practical Guidelines - 3 - Credits
PSY6020 - Cellular and Molecular Neuroscience - 3 - Credits
PSY6050 - Psychological Aspects of Sports Performance - 3 - Credits
PSY6060 - Introduction to Statistics in School Counseling - 1 - Credits
PSY6100 - History and Systems of Psychology - 3 - Credits
PSY6120 - Behavioral Neuroscience - 3 - Credits
PSY6130 - Evidence-Based Practice: School Intervention - 3 - Credits
PSY6160 - Evidence-Based Psychotherapy Across Ages - 3 - Credits
PSY6230 - Effective Interventions with Parents - 1 - Credits
PSY6240 - Comprehensive and Systemic School Counseling Programs - 3 - Credits
PSY6260 - Career Literacy and Development for School Counselors - 3 - Credits
PSY6290 - Diversity Issues in Treatment and Assessment - 1 - 3 Credits
PSY6291 - Diversity Issues in Treatment and Assessment: Self-Awareness - 1 - Credits
PSY6292 - Diversity Issues in Treatment and Assessment: Skills - 1 - Credits
PSY6310 - Intellectual Assessment - 3 - Credits
PSY6320 - Objective Assessment of Personality and Affect - 3 - Credits
PSY6330 - Evidence-Based Practice: School Assessment and Measurement - 3 - Credits
PSY6340 - Consultation in the Schools - 3 - Credits
PSY6350 - Introduction to Theories of Intervention in Psychology - 3 - Credits
PSY6380 - Practicum in School Psychology - 3 - Credits
PSY6390 - Program Evaluation in the Schools: Models and Guidelines - 3 - Credits
PSY6410 - Psychoeducational Assessment - 3 - Credits
PSY6420 - Group Counseling in the Schools - 3 - Credits
PSY6440 - Legal and Ethical Issues in the Schools - 3 - Credits
PSY6450 - Introduction to School Psychology - 3 - Credits
PSY6460 - Ethical, Legal and Professional Issues in School Counseling - 3 - Credits
PSY6470 - Health Psychology - 3 - Credits
PSY6510 - Social Psychology - 3 - Credits
PSY6530 - Developmental Psychology - 3 - Credits
PSY6540 - School Mental Health I: Assessment - 3 - Credits
PSY6560 - Introduction to Educational and Psychological Research - 3 - Credits
PSY6580 - Collaborative Classroom Instruction, Leadership and Professional Topics - 3 - Credits
PSY6600 - Statistical Foundations - 3 - Credits
PSY6610 - College and Career Readiness for School Counselors - 3 - Credits
PSY6630 - Supervision and Consultation in Psychological and Educational Settings - 3 - Credits
PSY6650 - Theories of Learning: The Behavioral Perspective - 3 - Credits
PSY6660 - Cognition and Instruction - 3 - Credits
PSY6670 - Neuropharmacology - 2 - 3 Credits
PSY6680 - Neuroeconomics - 3 - Credits
PSY6760 - Fundamentals of Acceptance and Commitment Therapy - 3 - Credits
PSY6770 - Pre-Practicum: Counseling Skills and Techniques - 3 - Credits
PSY6775 - Practicum in School Counseling - 3 - Credits
PSY6780 - Internship in School Counseling - 1 - 10 Credits
PSY6810 - Seminar - 1 - 3 Credits
PSY6850 - Introduction to the Combined Doctoral Program - 1 - Credits
PSY6900 - Independent Study - 1 - 3 Credits
PSY6910 - Independent Research - 1 - 3 Credits
PSY6930 - University Teaching Apprenticeship - 1 - Credits
PSY6950 - Internship in School Psychology - 1 - 3 Credits
PSY6970 - Thesis - 1 - 6 Credits
PSY6990 - Continuing Graduate Advisement - 1 - 12 Credits
PSY7070 - Advanced Measurement Theories and Practice - 3 - Credits
PSY7090 - Experimental and Applied Psychological Science Program Seminar - 1 - Credits
PSY7100 - Biological Basis of Behavior - 3 - Credits
PSY7110 - Cognitive Neuroscience - 3 - Credits
PSY7140 - Methods in Neuroscience - 3 - Credits
PSY7200 - School Mental Health II: Intervention - 3 - Credits
PSY7250 - Professional Ethics and Standards - 1 - 3 Credits
PSY7270 - Lifespan Psychopathology - 3 - Credits
PSY7350 - Integrated Practicum with Adults, Adolescents, and Children - 3 - Credits
PSY7360 - Practicum in Clinical Child/School Psychology - 3 - Credits
PSY7370 - Practicum in Counseling/Clinical Psychology - 3 - Credits
PSY7380 - Practicum in Psychology - 1 - 6 Credits
PSY7390 - Externship in Adult Clinical/Counseling Psychology - 1 - Credits
PSY7395 - Externship in Child/Adolescent Psychology - 1 - Credits
PSY7530 - Advanced Developmental Psychology - 3 - Credits
PSY7540 - Advanced Cognition and Development - 3 - Credits
PSY7550 - Multicultural Perspectives on Social Development - 3 - Credits
PSY7610 - Regression Analysis - 3 - Credits
PSY7630 - Supervision and Consultation in Applied Psychology - 1 - Credits
PSY7650 - Multilevel and Marginal Models for the Social Sciences - 3 - Credits
PSY7670 - Literature Reviews in Education and Psychology - 2 - Credits
PSY7700 - Grant Writing - 3 - Credits
PSY7740 - Behavioral Pharmacology - 3 - Credits
PSY7750 - Behavioral Economics - 3 - Credits

PSY7760 - Structural Equation Modeling - 3 - Credits
PSY7770 - Longitudinal Data Analysis - 3 - Credits
PSY7810 - Seminar - 1 - 3 Credits
PSY7820 - Neuropsychology: Principles and Assessment - 2 - 4 Credits
PSY7830 - Mechanisms of Neuropsychiatric Disease - 3 - Credits
PSY7840 - Psychopharmacology - 1 - Credits
PSY7850 - Internship and Professional Development Seminar - 1 - Credits
PSY7900 - Independent Study - 1 - 3 Credits
PSY7910 - Independent Research - 1 - 3 Credits
PSY7950 - Internship in Professional Psychology - - Credits
PSY7970 - Dissertation - 1 - 18 Credits
PSY7990 - Continuing Graduate Advisement - 1 - 12 Credits
PSYDIVE - Psychology Diversity and Inclusivity Courses - 3 - Credits
PSYMAJR - Psychology Major Elective Courses - 3 - Credits
PSYRESE - Psychology Research Core Courses - 4 - Credits

School of Accounting Department

School of Accountancy

Department Head: Christopher Skousen
Location: Eccles Business Building (EBB) 815
Phone: (435) 797-2429 | **FAX:** (435) 797-1475
Website: huntsman.usu.edu/acct/

Undergraduate Advisors:
Myra Durrant, EBB 309, (435) 797-2272, myra.durrant@usu.edu
Oakley Ransom, EBB 309, 435-797-2272, oakley.ransom@usu.edu

Director of Graduate Accounting Programs:
Devon Erickson, EBB 808, (435) 797-2993, devon.erickson@usu.edu

Degrees Offered:
Majors: Bachelor of Science (BS), Bachelor of Arts (BA) in Accounting
Undergraduate Minors: Accounting
Graduate Programs: Master of Accounting (MAcc)

Assessment
Full details of the learning objectives, assessment plan, student outcomes, and evidence of continuous improvement for these programs of study can be found at huntsman.usu.edu/soaassessment/index.

Department Mission Statement
"We achieve excellence in accounting education by providing an engaged learning experience, enabling our students to distinguish themselves as ethical, dedicated, and successful business professionals."

Guiding Principles
The following eight values guide us in accomplishing our mission:

- **Integrity:** We expect adherence to the highest standards of honesty, personal accountability, and ethical behavior from our faculty and our students.
- **Respect:** We promote the fair treatment of individuals and aspire to an increased global vision by respecting, experiencing, and learning from diverse points of view.
- **Teaching:** We seek to disseminate accounting, information technology, and business knowledge in dynamic and creative ways to our students and business community.
- **Discovery:** We are committed to producing new and relevant educational and business ideas and to a process of lifelong learning for ourselves and our students.
- **Stakeholders:** We value the diverse contributions received from our students, faculty, alumni, employers, and business community.
- **Rigor:** We seek to create rigorous learning activities that challenge our students to be well-rounded critical thinkers and communicators, capable of undertaking leadership roles.
- **Global Vision:** We embrace the opportunities resulting from an increasingly dynamic and interconnected global business environment.
- **Resources:** We seek continual improvement in our financial strength and national prominence.

Financial Assistance
The Huntsman School offers scholarships to undergraduate students. Each graduate program has unique scholarships, fellowships, assistantships, and waivers available. Details about Huntsman School scholarships can be found at huntsman.usu.edu/scholarships.

Undergraduate Program Requirements

Huntsman School of Business Admission Requirements

First-Year and Transfer Students are admitted to the Huntsman School of Business based on USU's Admission Requirements. **Current USU Students** in good standing qualify for admission to a Huntsman School major.
Huntsman School Admission Details: https://huntsman.usu.edu/undergraduate/apply

All students enrolled at USU are required to satisfy the General Education Requirements and University Studies Requirements of the University.

Matriculation Requirement and Transfer Limitation
To earn a bachelor's degree in a Huntsman School major, at least 50 percent of the required Huntsman School credits must be earned from coursework taken from the Utah State University Huntsman School of Business.

USU Credits and Business Credits
At least 30 of the last 60 semester credits must be taken from Utah State University, at least 20 of which must be completed in upper-division courses, of which at least 10 credits must be completed in courses required by the student's major. At least 50 percent of the Huntsman School credits required for a Huntsman School degree must be taken from the Utah State University Huntsman School or its departments, which include: School of Accountancy, Economics and Finance, Management, Marketing and Strategy, and Data Analytics and Information Systems. At least 12 credits of 3000-level or above accounting courses must be completed through the USU School of Accountancy.

Accounting Admission Requirements
In addition to meeting the Huntsman School of Business requirements, students must have achieved an overall GPA of 2.0 or higher.

General Instructions for all Accounting Majors
Since some accounting courses are not offered every semester and many have prerequisites, students should plan their program at least a year ahead.

Internships
All Accounting majors are required to complete an experiential learning experience. Accounting students are strongly encouraged to consider obtaining this experience via formal internships. Increasingly, professional placement opportunities upon graduation are found through participation in the internship program options. Some of the internship opportunities may require absence from campus for a semester, oftentimes during the January to April time period. Therefore, students should consult with their academic advisor and internship coordinator early in their academic career, in order to establish a proper curriculum plan enabling them to take full advantage of internship opportunities with the least disruption to their academic schedule and progress.

Graduation Requirements
To be recommended by the department for graduation, majors in the School of Accountancy must have a grade point average of at least 2.50 in their upper-division Huntsman School of Business acumen and major requirement courses, a C or better in HSB business acumen courses, at least a 2.50 GPA in ACCT courses, and an overall GPA of 2.0. This includes transfer credits. At least fifty percent of the business credits required for a business degree must be taken on the Utah State University campus or at a designated residence center.

Four-Year Degree Plan (8 Semesters)
A four-year degree plan for the Accounting major can be found in the catalog and at huntsman.usu.edu/advising/majors/accounting_major.

Second Bachelor's Degree in Accounting
Students seeking a second bachelor's degree in accounting must be approved by the School of Accountancy, must achieve an accounting and overall grade point average of 2.5, and must complete the course of study listed above for an accounting major. For further information, refer to the *Second Bachelor's Degree*, in the Bachelor's Degree Requirements section.

Graduate Program

The Master of Accounting (MAcc) program provides greater breadth and depth in accounting, auditing, and taxation to develop the level of understanding, skill, and leadership ability necessary to enter professional accountancy and related business careers.

Admission Requirements
Candidates are considered based on their demonstrated excellence in their undergraduate degree program. A GPA of 3.0 or better for the last 60 semester credits of undergraduate work is strongly recommended. The recommended undergraduate accounting core GPA is 3.0 or better. Official GMAT scores (not required) may be provided for consideration for merit-based tuition waivers such as the Excellence waiver. Letters of recommendation, professional experience, professional certification, and leadership are also considered in admission decisions. Students may apply for admission during their junior year of baccalaureate study. USU accounting students may take graduate courses during their last year of undergraduate study, provided prerequisite courses have been completed, they have been admitted into a graduate program, they have approval from the MAcc advisor, and a split registration form is approved by the dean of the School of Graduate Studies.

Students with the equivalent of a USU undergraduate degree in Accounting have completed all of the preparatory work for graduate study. Students with less than the equivalent of the undergraduate program are expected to make up the deficiencies. The director of Graduate Accounting Programs will assist in necessary program scheduling.

Graduate students are expected to maintain an overall GPA of 3.0 to remain in the program.

Complete information relative to the details of the program and course scheduling is available from the School of Accountancy.

Financial Assistance
Financial assistance is available in the form of President's Fellowships, Graduate School Fellowships, graduate assistantships, and special School of Accountancy scholarships. Applications for assistance should be made after the application for admission to the School of Graduate Studies is filed but before March 1 of each year. Application forms are available from the School of Accountancy, and the awards are normally announced by April 15.

FACULTY - Jon M. Huntsman School of Business Faculty

Programs

Accounting - Minor
Accounting - BA, BS
Executive Master of Accounting - EMAcc (NOT CURRENTLY OFFERED)
Accounting - MAcc

Courses

ACCT2010 - Financial Accounting Principles - 3 - Credits
ACCT2020 - Managerial Accounting Principles - 3 - Credits
ACCT3100 - Critical Evaluation of Accounting Issues - 3 - Credits
ACCT3110 - Intermediate Financial Accounting and Reporting I - 3 - Credits
ACCT3130 - Business Taxation - 3 - Credits
ACCT3140 - Auditing Principles and Techniques - 3 - Credits
ACCT3400 - Auditing Principles and Techniques - 3 - Credits
ACCT3810 - Accounting for Entrepreneurial Strategy - 3 - Credits
ACCT4250 - Accounting Internship - 3 - Credits
ACCT4700 - Seminar in Accounting - 3 - Credits

ACCT4900 - Independent Research and Readings - 1 - 3 Credits
ACCT5010 - Intermediate Financial Accounting and Reporting II - 3 - Credits
ACCT5020 - Intermediate Managerial Accounting - 3 - Credits
ACCT5030 - Individual Taxation - 3 - Credits
ACCT5040 - Accounting Information Systems - 3 - Credits
ACCT5104 - Accounting Analytics - 3 - Credits
ACCT5105 - Taxes and Business Strategy - 3 - Credits
ACCT5200 - Advanced Financial Accounting - 3 - Credits
ACCT5250 - Accounting Research - 3 - Credits
ACCT5300 - Advanced Accounting Internship - 3 - Credits
ACCT5310 - Advanced Managerial Accounting Topics - 3 - Credits
ACCT5420 - Corporate Taxation - 3 - Credits
ACCT5440 - Partnership Taxation - 3 - Credits
ACCT5460 - Advanced Tax Topics - 3 - Credits
ACCT5510 - Advanced Auditing - 3 - Credits
ACCT5540 - Fraud Examination and Forensic Accounting - 3 - Credits
ACCT5620 - Financial Statement Analysis and Valuation - 3 - Credits
ACCT5810 - Applied Accounting for Entrepreneurial Success - 3 - Credits
ACCT5850 - Strategic Accounting Consulting - 3 - Credits
ACCT6010 - Financial and Managerial Accounting - 3 - Credits
ACCT6100 - Financial Reporting and the SEC - 3 - Credits
ACCT6101 - Advanced Strategic Cost Management - 3 - Credits
ACCT6102 - Research and Valuation - 3 - Credits
ACCT6103 - Accounting Information and the Capital Markets - 3 - Credits
ACCT6104 - Accounting Analytics - 3 - Credits
ACCT6105 - Taxes and Business Strategy - 3 - Credits
ACCT6106 - International Business, Finance, and Accounting - 3 - Credits
ACCT6107 - Corporate Governance - 3 - Credits
ACCT6108 - Leadership for Financial Executives - 3 - Credits
ACCT6109 - Financial Strategy - 3 - Credits
ACCT6200 - Advanced Financial Accounting - 3 - Credits
ACCT6250 - Accounting Research - 3 - Credits
ACCT6300 - Advanced Accounting Internship - 3 - Credits
ACCT6310 - Advanced Managerial Accounting Topics - 3 - Credits
ACCT6350 - Accounting for Management Decision Making - 3 - Credits
ACCT6420 - Corporate Taxation - 3 - Credits
ACCT6440 - Partnership Taxation - 3 - Credits
ACCT6460 - Advanced Tax Topics - 3 - Credits
ACCT6500 - Advanced Accounting Information Systems - 3 - Credits
ACCT6510 - Advanced Auditing - 3 - Credits
ACCT6540 - Fraud Examination and Forensic Accounting - 3 - Credits
ACCT6560 - Businees Law and Professional Responsibilities - 3 - Credits
ACCT6600 - Information Systems Auditing and Control - 3 - Credits
ACCT6620 - Financial Statement Analysis and Valuation - 3 - Credits
ACCT6700 - Advanced Accounting Topics - 3 - Credits
ACCT6800 - Accounting Communications and Professional Conduct - 3 - Credits
ACCT6810 - Applied Accounting for Entrepreneurial Success - 3 - Credits
ACCT6850 - Strategic Accounting Consulting - 3 - Credits
ACCT6900 - Independent Reading and Research - 1 - 3 Credits
ACCT6960 - Professional Paper - 1 - 3 Credits
ACCT6990 - Continuing Graduate Advisement - 1 - 3 Credits

School of Computing Department

School of Computing

Interim Department Head: Jacob Gunther
Location: SER 300E
Phone: (435) 797-2451 | **FAX:** (435) 797-3265
Email: jacob.gunther@usu.edu
WWW: cs.usu.edu/

Undergraduate Advisors:
Caitlin Thaxton (last name A-R), SER 301C, (435) 797-0778, caitlin.thaxton@usu.edu
Robin Reid (last name S-Z) ENGR 314, (435)797-2705, robin.reid@usu.edu

Graduate Program Coordinator: Taryn Sommers, SER 301D, (435) 797-2209 taryn.sommers@usu.edu
Schedule appointment: https://studentappts.usu.edu/ramonline/BookAppt?AG=1404

Undergraduate Degrees and Programs Offered: Computer Science - BS

Graduate Degrees Offered: Master of Science (MS) in Computer Science, Master of Science (MS) in Data Science, and Doctor of Philosophy (PhD) in Computer Science; Master of Computer Science (MCS)

Graduate Specializations: *MS*—Artificial Intelligence, Information Systems, Parallel Systems, Software Engineering

Full details of the learning objectives, assessment plan, student outcomes, and evidence of continuous improvement for these programs of study can be found at cs.usu.edu/assessment/undergraduate/index for undergraduate programs and cs.usu.edu/assessment/graduate/index for graduate programs.

Accreditation: The Computer Science undergraduate program is accredited by the Computing Accreditation Commission of ABET, www.abet.org, 111 Market Place, Suite 1050, Baltimore, MD 21202-4012; telephone (410) 347-7700.

Program Educational Objectives

As defined by ABET, program educational objectives are broad statements that describe what graduates are expected to attain within a few years of graduation. The School of Computing at Utah State University has the following program educational objectives. The Computer Science program of study is designed to provide undergraduates with the knowledge, skills, and tools to reach these educational objectives.

Program Educational Objective I: Our graduates will be successfully employed in the computing profession and/or obtain advanced degrees in computing or a related discipline.

Program Educational Objective II: Our graduates will adapt and innovate in a rapidly changing field, engage in lifelong learning and engagement through continued professional development, contribute to professional societies and organizations, promote growth and prosperity of the regional economy at the state and national level, and foster personal and organizational growth.

Program Educational Objective III: Our graduates will participate in professional societies, engage in service to the community, and contribute to efforts to comply with software licensing, privacy protection, and quality and safety assurance.

Student Outcomes

The School of Computing Bachelor of Science degree program is designed in accordance with the ABET accreditation criteria for Computer Science degrees. The program is ABET-accredited.

The student outcomes of the School of Computing are governed by ABET, which has established the following student outcomes:

- Analyze a complex computing problem and apply principles of computing and other relevant disciplines to identify solutions.
- Design, implement, and evaluate a computing-based solution to meet a given set of computing requirements in the context of the program's discipline.
- Communicate effectively in a variety of professional contexts.
- Recognize professional responsibilities and make informed judgments in computing practice based on legal and ethical principles.
- Function effectively as a member or leader of a team engaged in activities appropriate to the program's discipline.
- Apply computer science theory and software development fundamentals to produce computing-based solutions.

Assessment

The School of Computing has an ongoing assessment process. Faculty members devote time and resources to frequent assessment of the level or degree to which stated objectives are being met, the objectives themselves, and the departmental mission statement. The department then uses these results to establish priorities and guide the program. For further information, go to cs.usu.edu/ and click on **assessment**.

Computer Science

Computer Science is one of the fastest growing fields of study in our society. Excellent employment opportunities are available to computer science graduates. Graduates in Computer Science work for numerous Utah-based corporations, as well as companies such as Google, Amazon.com, Microsoft, IBM, and Hewlett-Packard.

The Computer Science bachelor's degree is a four-year degree. By working with a departmental advisor, students may develop a plan of study tailored to their own unique career objectives.

Undergraduate Research

The School of Computing provides opportunities for undergraduates to participate in research projects. A student may register for CS 4950 to receive credit for their research. Students may work on a project of their own under faculty supervision, or they may do research as part of a faculty member's research team. To learn about research opportunities, students should contact a Computer Science faculty member.

General Requirements

Minimum Utah State University Requirements

In addition to meeting the requirements for the Computer Science major, all students graduating with a bachelor's degree in Computer Science must meet the minimum Utah State University requirements.

General Education/University Studies Requirements

In addition to meeting the requirements for the Computer Science major, all students graduating with a bachelor's degree in Computer Science must meet all Utah State University general education and university studies requirements. These requirements can be found in the General Catalog at the following links:

General Education Requirements
University Studies Depth Requirements

Additionally, students are strongly urged to work with their advisor in selecting courses that fill general education requirements. In several cases, there are courses that can simultaneously fill a general education/university studies requirement and a major requirement.

Changes in Graduation/Catalog Requirements

Students who complete a baccalaureate degree within seven years of enrollment at USU qualify for graduation by meeting (1) the General Education/University Studies requirements in effect when they initially enrolled and (2) the major requirements in effect when they officially declared their major (meaning they have achieved advanced standing in the Computer Science program), even though there may have been changes in General Education/University Studies and major requirements since that time.

Students who have not completed the baccalaureate requirements within seven years of their initial enrollment at USU must have their General Education/University Studies and major requirements evaluated and approved by their department head and dean.

Course Expiration Policy

Coursework (including transfer credit) that is more than 10 years old and is required by the major may be disallowed by the student's department. Students will have an opportunity to revalidate coursework that is disallowed.

Summary of Departmental Admission and Retention Requirements

Admission requirements of the School of Computing for freshmen and transfer students must satisfy the admission policies and entrance requirements of the university (General Education Requirements), the College of Engineering, and the department. Transfer students with a 2.5 GPA and who are "calculus ready" (1. achieve a score of 27 or higher on the math ACT test; 2. complete MATH 1050 and MATH 1060; or 3. achieve an AP score of at least 3 on the AB Calculus or BC Calculus test) may apply for admission to the department.

Before students can register for a Computer Science course, they must earn a grade of C- or better in all prerequisite courses. Students must earn a grade of C- or better in all classes that fill a Computer Science major, regardless of the subject, and regardless of whether the class is also used to fill a general education/university studies requirement. For example, PHYS 2220 may be used to fill part of the science-plus-breadth requirement described below. It also fills the breadth physical science (BPS) requirement. Because it fills a major requirement, students must earn at least a C- in the course. Computer Science majors must be in the professional program or have authorization to register for Computer Science courses at the 3000-level or above.

In addition to completing the required courses, students must comply with the following regulations, in order to graduate with a bachelor's degree in Computer Science.

- Once students are admitted to the professional program, they must maintain a minimum overall GPA of 2.0 and a minimum major GPA of 2.5.
- Students must attain a minimum grade of C- in all courses fulfilling Computer Science major requirements.
- At most, students may have three repeats among the preprofessional classes.

Professional Program

In order to enter the professional program, students must achieve a minimum institution GPA of 2.0. They must also achieve a minimum GPA of 2.5, as well as a grade of C- or better, among courses in the following core sequence. Further, students are allowed a total of three repeats in the required courses in the preprofessional program. Note that these requirements are built into the **Major Requirements.**

Core Sequence: CS 1400, CS 1410, CS 1440, CS 2410, CS 2420, and CS 2610; MATH 1210 and MATH 3310.

Suggested Four-year Plans

A suggested semester-by-semester four-year plan for students working towards a Bachelor of Science in Computer Science is available in the School of Computing and the College of Engineering Advising Center. Students should consult with their advisor to develop a plan of study tailored to their individual needs and interests.

University Honors Program

The University Honors Program offers students in all colleges and majors the unique opportunity to deepen their educational experience with hands-on practical applications of their academic knowledge. The Honors Program admits incoming, transfer, and existing USU students based on application. High achieving students with at least one year remaining are encouraged to apply. See the University Honors Program catalog entry and website (honors.usu.edu) for more information.

Additional Information

For more information about requirements for the Computer Science major and minor, contact the School of Computing.

Graduate Program

The School of Computing offers MS, PhD, and MCS degrees in Computer Science, as well as an MS degree in Data Science.

Admission Requirements

Applicants for admission to the graduate program should have a bachelor's degree in Computer Science **or** extensive experience in computing. The minimum requirement for computing experience is a grade of B- or better in a course equivalent to CS 2420 - Algorithms and Data Structures–CS 3 (QI). The GRE is optional for admission to the MS and PhD programs. The GRE is not required for admission to the MCS program. Decisions on financial aid are made on or near April 1st for the following fall semester. These are in addition to the graduate school's requirements.

Course Requirements

In addition to the specific departmental admission and degree requirements described in the Computer Science-MS, Data Science-MS, Computer Science-MCS, and the Computer Science PhD section of the catalog, students are advised that they must also meet all Graduate School requirements as described in the Graduate School section of the catalog. Please note that departmental requirements change from time to time, so students should work closely with their advisor in designing their graduate program.

Financial Assistance

Applicants for admission in fall semesters who meet the priority application deadline may choose to apply for financial aid in the form of Graduate Teaching Assistantships (GTA). Acceptance into the program does not guarantee financial assistance.

FACULTY - College of Engineering

Programs

Computer Science - Minor
Computer Science - BS
Master of Computer Science - MCS
Computer Science - MS
Computer Science - PhD
Computer Science Cloud Computing - Institutional Certificate of Proficiency
Computer Science Software Development - Institutional Certificate of Proficiency
Computer Science Teaching - Level 1 - Institutional Certificate of Proficiency
Computer Science Teaching - Level 2 - Institutional Certificate of Proficiency
Computer Science Teaching - Minor
Computer Science Web & Mobile Developer - Institutional Certificate of Proficiency
Data Science - Minor
Data Science - BS
Data Science - Post-Bachelor's Certificate
Data Science: Computer Science Specialization - MS

Courses

CS1030 - Foundations of Computer Science (BPS) - 3 - Credits
CS1070 - Program Seminar - 1 - Credits
CS1400 - Introduction to Computer Science--CS 1 - 4 - Credits
CS1410 - Introduction to Computer Science--CS 2 (QI) - 3 - Credits
CS1420 - Accelerated Introduction to Computer Science--CS1 and CS2 (QI) - 7 - Credits
CS1440 - Software Engineering Fundamentals - 3 - Credits
CS2250 - Cooperative Work Experience - 1 - 9 Credits
CS2410 - Introduction to Event Driven Programming and GUI's - 3 - Credits
CS2420 - Algorithms and Data Structures--CS 3 (QI) - 3 - Credits
CS2610 - Developing Dynamic, Database-Driven Web Applications - 3 - Credits
CS2810 - Computer Systems Organization and Architecture I - 3 - Credits
CS3010 - Information Acquisition, Analysis and Presentation - 3 - Credits
CS3100 - Operating Systems and Concurrency - 3 - Credits
CS3110 - Databases in Practice - 3 - Credits
CS3200 - Mobile Application Development - 3 - Credits
CS3430 - Scientific Computing (DSC/QI) - 3 - Credits
CS3450 - Introduction to Software Engineering (CI) - 4 - Credits
CS3460 - Modern C++ - 3 - Credits
CS3680 - AI-First Web Development - 9 - Credits
CS4250 - Cooperative Work Experience - 1 - 9 Credits
CS4320 - Applied Machine Learning - 3 - Credits
CS4350 - Computer Science Teaching Methods - 3 - Credits
CS4460 - Introduction to Cybersecurity - 3 - Credits
CS4610 - Modern Web Development - 3 - Credits
CS4680 - AI-First Software Engineering - 9 - Credits
CS4700 - Programming Languages - 3 - Credits
CS4890 - Topics in Computer Science (Topic) - 3 - Credits
CS4950 - Undergraduate Research - 1 - 4 Credits
CS5000 - Theory of Computability - 3 - Credits
CS5030 - High Performance Computing - 4 - Credits
CS5040 - Scientific Visualization for Data Science - 3 - Credits
CS5050 - Advanced Algorithms - 3 - Credits
CS5060 - Decision Making: Algorithms Under Uncertainty - 3 - Credits
CS5080 - Data Mining - 3 - Credits
CS5110 - MultiAgent Systems - 4 - Credits
CS5140 - Human Factors in Computing - 3 - Credits
CS5215 - Computer Networks and Security - 3 - Credits
CS5270 - Introduction to Cloud Development - 3 - Credits
CS5300 - Compiler Construction - 4 - Credits
CS5311 - Technology Startup Business Principles - 1 - Credits
CS5312 - Modern Technology Stacks - 4 - Credits
CS5313 - Technology Startup Software Engineering - 4 - Credits
CS5314 - Technology Startup Business Launch - 1 - Credits
CS5315 - Computer Science Innovations - 4 - Credits
CS5316 - Commercial Software Engineering - 4 - Credits
CS5330 - Data-Driven Programming Language Processing - 3 - Credits
CS5400 - Computer Graphics I - 4 - Credits
CS5410 - Game Development - 4 - Credits
CS5470 - Introduction to Interactive Virtual Reality - 3 - Credits
CS5510 - Robot Intelligence - 4 - Credits
CS5600 - Intelligent Systems - 4 - Credits
CS5615 - Natural Language Processing - 3 - Credits
CS5620 - AI Applications In Education - 3 - Credits
CS5640 - Artificial Neural Networks - 3 - Credits
CS5661 - AI-First Capstone I - 12 - Credits
CS5662 - AI-First Capstone II - 12 - Credits
CS5665 - Machine Learning for Data Science - 3 - Credits
CS5680 - Computer Vision: Foundations and Applications - 3 - Credits
CS5700 - Object-Oriented Software Development - 4 - Credits
CS5710 - Software Security - 3 - Credits
CS5715 - Program Analysis and Its Application - 3 - Credits
CS5750 - Computing Education Research - 3 - Credits
CS5800 - Introduction to Database Systems - 3 - Credits
CS5820 - Interactive Information Visualization for Data Science - 3 - Credits
CS5830 - Data Science in Practice - 3 - Credits
CS5840 - Graph Mining - 3 - Credits
CS5850 - Introduction to Data Analysis - 3 - Credits
CS5890 - Topics in Computer Science (Topic) - 1 - 4 Credits
CS5950 - Independent Study - 3 - Credits
CS6030 - High Performance Computing - 4 - Credits
CS6040 - Scientific Visualization for Data Science - 3 - Credits
CS6050 - Advanced Algorithms - 3 - Credits
CS6110 - MultiAgent Systems - 4 - Credits
CS6140 - Human Factors in Computing - 3 - Credits
CS6215 - Computer Networks and Security - 3 - Credits
CS6250 - Cooperative Work Experience, Graduate - 1 - 9 Credits
CS6270 - Introduction to Cloud Development - 3 - Credits
CS6311 - Technology Startup Business Principles - 1 - Credits
CS6312 - Modern Technology Stacks - 4 - Credits
CS6313 - Technology Startup Software Engineering - 4 - Credits
CS6314 - Technology Startup Business Launch - 1 - Credits
CS6315 - Computer Science Innovations - 4 - Credits
CS6316 - Commercial Software Engineering - 4 - Credits
CS6330 - Data-Driven Programming Language Processing - 3 - Credits
CS6400 - Computer Graphics II - 3 - Credits
CS6460 - Usable Privacy and Security - 3 - Credits
CS6470 - Introduction to Interactive Virtual Reality - 3 - Credits
CS6510 - Robot Intelligence - 4 - Credits
CS6600 - Intelligent Systems - 4 - Credits
CS6615 - Natural Language Processing - 3 - Credits
CS6620 - AI Applications In Education - 3 - Credits
CS6630 - Fuzzy Logic and its Application - 3 - Credits
CS6640 - Artificial Neural Networks - 3 - Credits
CS6650 - Neural Networks - 3 - Credits
CS6665 - Machine Learning for Data Science - 3 - Credits
CS6675 - Advanced Data Mining - 3 - Credits
CS6680 - Computer Vision: Foundations and Applications - 3 - Credits
CS6710 - Software Security - 3 - Credits
CS6715 - Program Analysis and Its Application - 3 - Credits
CS6750 - Computing Education Research - 3 - Credits
CS6800 - Advanced Database Systems - 3 - Credits
CS6810 - Wavelets and Wavelet Algorithms - 3 - Credits
CS6820 - Interactive Information Visualization for Data Science - 3 - Credits
CS6830 - Data Science in Practice - 3 - Credits
CS6840 - Graph Mining - 3 - Credits
CS6850 - Introduction to Data Analysis - 3 - Credits
CS6890 - Topics in Computer Science (Topic) - 1 - 4 Credits
CS6900 - Seminar - 1 - Credits
CS6950 - Directed Readings in Computer Science - 3 - Credits
CS6970 - Thesis and Research - 1 - 9 Credits
CS6990 - Continuing Graduate Advisement - 1 - 6 Credits
CS7050 - Computational Geometry: Algorithms and Applications - 3 - Credits
CS7150 - Computational Complexity - 3 - Credits
CS7460 - Contextualized Privacy by Critical Design - 3 - Credits
CS7650 - Advanced CVP RIP: Computer Vision, Pattern Recognition and Image Processing - 3 - Credits
CS7680 - Advanced Computer Vision - 3 - Credits
CS7810 - Wavelets and Wavelet Algorithms - 3 - Credits
CS7890 - Advanced Topics in Computer Science - 3 - Credits
CS7950 - Reading and Reports - 3 - Credits
CS7970 - Dissertation Research - 1 - 15 Credits
CS7990 - Continuing Graduate Advisement - 1 - 6 Credits

School of Social Sciences Department

Undergraduate Programs

Anthropology

Anthropology at Utah State University educates and trains a new generation of citizen-scholars to understand the complex human dimensions of environment, community, and well-being, past and present. The faculty strives to build a premier student-centered program through research excellence, transformative and challenging student experiences. Areas of emphasis include archaeology in cultural resource management, biological anthropology, cultural (medical) anthropology, and museum studies

Criminal Justice

Utah State University offers a comprehensive **Criminal Justice program** that provides a broad interdisciplinary foundation drawing from sociology, social work, and political science. Core topics include law enforcement, courts and the legal system, corrections, criminal law and procedure, and forensic investigations. The program prepares the next generation of Criminal Justice professionals while serving current career professionals in transitioning to new careers in adjacent fields.

Political Science

The Utah State University Political Science program is dedicated to engaging with the fundamentals of political science, law and constitutional studies, and international studies to a broad community through innovative teaching, respected research, and committed service. Our faculty and students address pressing questions to improve the community, the state, the nation, and beyond. Political Science at USU emphasizes contextual knowledge, empirical analysis, and applied learning with available internships in local, state, and federal government, lobbying firms, and NGOs.

Sociology

Sociology at Utah State University strives to advance our collective understanding of critical social issues, particularly within the areas of social inequality, health equity, rural communities, natural resources, and environmental justice. Sociology has a strong basis in survey research methods and social data analysis that informs social impacts of policy decisions across many institutions. The program emphasizes internships, service learning, and research across the core areas.

Graduate Programs

Archaeology in Cultural Resource Management (MS and PhD)

Utah State University offers both the Master's (MS) and Doctoral (PhD) degrees in archaeology with an emphasis in cultural resource management. Students can pursue a traditional academic degree plan or organize their coursework into three post-baccalaureate certificates (18 credits each) in Cultural Resource Management Policy, Advocacy, and Administration, Archaeology Data Analytics, and/or Museum Administration and Collections Management Policy. Graduate research involving original data or synthetic analysis of legacy datasets is encouraged. Graduates in the program are prepared for leadership positions in public and private sector cultural resource management, museum administration, and careers in academia.

Political Science (MA and MS)

Utah State University (USU) offers two graduate degrees in Political Science: a **Master of Science (MS)** and a **Master of Arts (MA)**. Both programs are designed to prepare students for careers in government, policy analysis, international affairs, and academia. Core areas include American politics, comparative politics, international relations, and political theory. The MS in Political Science focuses on quantitative research methods and is ideal for students interested in data-driven policy analysis or preparing for PhD programs. The MA in Political Science requires foreign language proficiency and is suited for students pursuing international careers or further academic study.

Sociology (MS and PhD)

Utah State University (USU) offers both **Master's (MS)** and **Doctoral (PhD)** degrees in Sociology. The program is known for its strong emphasis on research, mentoring, and community engagement. Graduate students choose from three primary areas. Students in *Demography* study population change, migration, fertility, mortality, and health through the Yun Kim Population Research Lab. Students in the *Environment and Community* area study environmental sociology, natural resources, and community development often collaborating with natural sciences and engineering. Students in the *Social Inequality* area study race, gender, class disparities and conduct comparative and cross-national research. Program graduates pursue careers in academia and research, government and policy analysis, community development and environmental planning, and nonprofit organization leadership.

Contact Information

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Program Directors

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Criminal Justice: Jason Marshall, CIB-212, (435) 650-4790, jason.marshall@usu.edu
Political Science: Josh Ryan, Main 324b, (435) 797-5780, josh.ryan@usu.edu
Sociology: Erin Hofmann, Main 224J, (435) 797-9123, erin.hofmann@usu.edu

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Political Science: Anna Pechenkina, Main 328D, (435)797-7318, anna.pechenkina@usu.edu
Sociology: Guadalupe Marquez-Verlarde, Main 216F, (435) 797-1241, guadalupe.marquez-velarde@usu.edu

Full List of Programs Offered

Click for a full list of Anthropology program degrees (Anthropology BA/BS, Minor, MS and PhD) and certificates Undergraduate Certificates; and Graduate Certificates

Click here for a full list of Criminal Justice program degrees (Criminal Justice BA/BS, Online Associates and Minor) and certificates.

Click here for a full list of Political Science program degrees (Political Science BA/BS, Political Science Minor, Political Science Teaching Minor) and (Political Science MS/MA) and certificates.

Click here for a full list of Sociology program degrees (Sociology BA/BS, Sociology Teaching BA/BS, Social Dimensions of Climate Change Minor and Environmental Justice Minor), (Sociology MS and PhD), and certificates (Social Analytics, Social Dimensions of Climate Change).

College of Arts and Sciences Faculty

Programs

Criminal Justice - AS
Anthropology and Cultural Resource Management - PhD
Anthropology - Minor
Anthropology - BA, BS
Anthropology - MS
Archaeological Data Analytics - Post-Bachelor's Certificate
Criminal Justice - Minor
Criminal Justice - BA, BS
Courtroom Assistance - Certificate
Corrections Leadership Development - Certificate
Corrections - Certificate
Cultural Resource Management Policy, Advocacy and Business Administration - Post-Bachelor's Certificate
Environmental Advocacy - Certificate
Environmental Equity - Post-Bachelor's Certificate
Environmental Justice - Institutional Certificate of Proficiency
Foundations of Criminal Justice - Certificate
Forensic Testimony - Minor
Forensic Specialist and Crime Scene Investigation - Certificate
Global Peacebuilding - Certificate
Health Equity - Post-Bachelor's Certificate
Intersectional Gender Studies - Minor
Inclusive Leadership - Certificate
Interfaith Leadership Certificate - Certificate
International Studies - Minor
International Studies - BA
Juvenile Justice - Certificate
Law and Constitutional Studies - BA, BS
Law and Society Area Studies - Institutional Certificate of Proficiency
Leadership & Diplomacy - Certificate
Museum Administration and Collections Management - Post-Bachelor's Certificate
Middle East Studies - Minor
Museum Studies - Institutional Certificate of Proficiency
Native American Studies - Minor
Police Officers and Policing - Certificate
Political Communication - Certificate
Political Science - Minor
Political Science - BA, BS
Political Science - MA
Political Science - MS
Political Science Teaching - Minor
Police Officer Standards Training (POST) Academy - Certificate
Philosophy, Politics and Economics - Certificate
School Resource Officers - Certificate
Social Dimensions of Climate Change and Environmental Justice - Minor
Social Dimensions of Climate Change - Institutional Certificate of Proficiency
Social Determinants of Crime - Certificate
Sexuality Studies - Minor
Social Analytics - Post-Bachelor's Certificate
Social Analytics - Certificate
Sociology - Minor
Sociology - BA, BS
Sociology - MS
Sociology - PhD
Sociology Teaching - Minor
Survey Methods - Post Bachelor's Certificate

Courses

ANTH1010 - Cultural Anthropology (BSS) - 3 - Credits
ANTH1020 - Biological Anthropology (BLS) - 3 - Credits
ANTH1030 - World Archaeology (BSS) - 3 - Credits
ANTH1090 - Introduction to Interfaith Leadership (BHU) - 3 - Credits
ANTH1099 - Resources in Anthropology at USU - 1 - Credits
ANTH2010 - Peoples of the Contemporary World (BSS) - 3 - Credits
ANTH2011 - Introduction to Peoples of the Southwest (BHU) - 3 - Credits
ANTH2018 - Introduction to Native American History and Culture (BSS) - 3 - Credits
ANTH2030 - Principles of Archaeology (BSS) - 3 - Credits
ANTH2210 - Introduction to Folklore (BHU) - 3 - Credits
ANTH2520 - Introductory Archaeology Field School - 3 - 5 Credits
ANTH2525 - Introductory Archaeology Lab - 1 - 3 Credits
ANTH2720 - Survey of American Folklore - 3 - Credits
ANTH2977 - Cooperative Education - 1 - 3 Credits
ANTH2988 - Independent Studies - 1 - 3 Credits
ANTH2999 - Workshop - 1 - 3 Credits
ANTH3090 - Introduction to Shamanism: Shamanic Healing for Personal and Planetary Transformation - 3 - Credits
ANTH3110 - North American Indian Cultures (DSS) - 3 - Credits
ANTH3120 - African Healing Systems - 3 - Credits
ANTH3130 - Peoples of Latin America (CI) - 3 - Credits
ANTH3140 - Anthropology of Sex and Gender (DSS) - 3 - Credits
ANTH3150 - Applied Anthropology Survey: History, Uses, Methods, and Careers - 3 - Credits
ANTH3160 - Anthropology of Religion (DSS) - 3 - Credits
ANTH3165 - Bridging Religious Difference in Theory and Practice: an Introduction to Interfaith Leadership - 3 - Credits
ANTH3180 - Peoples of the Middle East (DSS) - 3 - Credits
ANTH3200 - Perspectives on Race (DSS/CI) - 3 - Credits
ANTH3225 - Sex, Evolution, and Health (DSC) - 3 - Credits
ANTH3240 - Anthropology of Disease (DSC) - 3 - Credits
ANTH3250 - Osteology - 3 - Credits
ANTH3260 - Men's Health and Wellness - 3 - Credits
ANTH3300 - Archaeology in North America (DSS) - 3 - Credits
ANTH3310 - Introduction to Museum Studies (CI) - 3 - Credits
ANTH3320 - Archaeology of Climate Change (DSS) - 3 - Credits
ANTH3330 - Geophysical Survey Systems for Archaeology - 3 - Credits
ANTH3340 - Geographic Information Science for Anthropology (QI) - 3 - Credits
ANTH3350 - Archaeology of Ancient Civilizations (DSS) - 3 - Credits
ANTH3360 - Utah Archaeology (DSS) - 3 - Credits
ANTH3370 - Archaeology of Prehistoric Europe (DSS) - 3 - Credits
ANTH3380 - Archaeology Field Trip - 1 - 3 Credits
ANTH3390 - Objects of War - 3 - Credits
ANTH3550 - Culture of East Asia (DHA) - 3 - Credits
ANTH3710 - Topics in Folklore (CI) - 3 - Credits
ANTH4100 - The Study of Language - 3 - Credits
ANTH4115 - Tourism, Culture, and Development - 3 - Credits
ANTH4120 - Anthropology of Childhood (DSS/CI) - 3 - Credits
ANTH4130 - Introduction to Medical Anthropology (DSS) - 3 - Credits
ANTH4150 - Cognition, Stress, and Health - 3 - Credits
ANTH4160 - Evolution of Religion: The Cognitive Science of Religion and Faith - 3 - Credits
ANTH4180 - Ethnography of Virtual Cultures - 3 - Credits
ANTH4190 - Anthropology of Narratives, Stories, and Fiction - 3 - Credits
ANTH4200 - The Anthropology of War - 3 - Credits
ANTH4240 - Primates of the World - 3 - Credits
ANTH4250 - Behavioral Ecology - 3 - Credits
ANTH4330 - Archaeology of Latin America (DSS) - 3 - Credits
ANTH4650 - Utah's Public Lands: Past, Present, Future (DSS/HASS) - 3 - Credits
ANTH4800 - Topics in Anthropology - 1 - 3 Credits
ANTH4980 - History and Theories of Anthropology - 3 - Credits
ANTH4990 - Contemporary Issues in Anthropology (CI) - 3 - Credits
ANTH5110 - Southwest Indian Cultures, Past and Present (DSS) - 3 - Credits
ANTH5115 - Applied Anthropology/Ethnographic Research Lab - 1 - 3 Credits
ANTH5130 - Ethnographic Field School - 3 - 6 Credits
ANTH5140 - Anthropology of Global Health (CI) - 3 - Credits
ANTH5170 - Ethnographic Methods in Anthropology - 3 - Credits
ANTH5190 - Applied Anthropology Practicum - 1 - 5 Credits
ANTH5195 - Interfaith Leadership Practicum Experience - 3 - Credits
ANTH5200 - Anthropological Perspectives on Conservation - 3 - Credits
ANTH5210 - Women's Reproductive Health Research - 3 - Credits
ANTH5250 - Problems in Bioarchaeology (QI) - 3 - Credits
ANTH5260 - Impact of Environmental Factors on Health - 3 - Credits
ANTH5300 - Archaeology Field School - 6 - Credits
ANTH5320 - Zooarchaeology - 3 - Credits
ANTH5330 - Geoarchaeology - 3 - Credits
ANTH5340 - Archaeology of the Desert West - 3 - Credits
ANTH5420 - Lithic Analysis - 1 - 3 Credits
ANTH5650 - Developing Societies (DSS) - 3 - Credits
ANTH5700 - Folk Narrative - 3 - Credits
ANTH5800 - Museum Development - 1 - 3 Credits
ANTH5820 - Museum Collections Handling - 3 - Credits
ANTH5900 - Independent Studies - 1 - 3 Credits
ANTH5980 - Senior Project - 1 - Credits
ANTH6110 - Southwest Indian Cultures, Past and Present - 3 - Credits
ANTH6115 - Applied Anthropology/Ethnographic Research Lab - 1 - 3 Credits
ANTH6130 - Ethnographic Field School - 3 - 6 Credits
ANTH6140 - Anthropology of Global Health - 3 - Credits
ANTH6170 - Ethnographic Methods in Anthropology - 3 - Credits
ANTH6190 - Applied Anthropology Practicum - 1 - 5 Credits
ANTH6200 - Anthropological Perspectives on Conservation - 3 - Credits
ANTH6250 - Problems in Bioarchaeology - 3 - Credits
ANTH6300 - Archaeology Field School - 6 - Credits
ANTH6320 - Zooarchaeology - 3 - Credits
ANTH6330 - Geoarchaeology - 3 - Credits
ANTH6340 - Archaeology of the Desert West - 3 - Credits
ANTH6350 - Archaeological Theory - 3 - Credits
ANTH6360 - Research Design and Quantitative Methods in Archaeology - 3 - Credits
ANTH6370 - GIS in Archaeology - 3 - Credits
ANTH6390 - Cultural Resources Management Policy - 3 - Credits
ANTH6400 - Collections Management - 1 - 3 Credits
ANTH6410 - Writing for Archaeologists - 3 - Credits
ANTH6420 - Lithic Analysis - 1 - 3 Credits
ANTH6430 - Archaeometry - 3 - Credits
ANTH6460 - Engaging Communities in Archaeology - 3 - Credits
ANTH6650 - Developing Societies - 3 - Credits
ANTH6700 - Archaeology Internship - 2 - 3 Credits
ANTH6800 - Museum Development - 1 - 3 Credits
ANTH6810 - Museum Collections Law, Policy, and Best Practices - 3 - Credits
ANTH6820 - Museum Collections Handling - 3 - Credits
ANTH6900 - Independent Studies - 1 - 3 Credits
ANTH6950 - Archaeology Special Topics/Seminar - 1 - 3 Credits
ANTH6970 - Thesis Research - 1 - 12 Credits
CJ1010 - Introduction to Criminal Justice (BSS) - 3 - Credits
CJ1030 - Introduction to Firearms Handling/Safety - 3 - Credits
CJ1060 - POST Certification: Special Function Officer (SFO) - 8 - Credits
CJ1070 - POST Certification: Basic Corrections Officer (BCO) - 5 - Credits
CJ1080 - POST Certification: Law Enforcement Officer (LEO) - 12 - Credits
CJ1300 - Introduction to Corrections - 3 - Credits
CJ1330 - Criminal Law - 3 - Credits
CJ1340 - Criminal Investigations - 3 - Credits
CJ1350 - Introduction to Forensic Science - 3 - Credits
CJ1355 - Crime Scene Processing - 3 - Credits
CJ1360 - Crime Scene Academy - 3 - Credits
CJ1390 - Introduction to Policing - 3 - Credits
CJ2110 - Managing Security: Threats, Risk, and Leadership - 3 - Credits
CJ2330 - Juvenile Justice - 3 - Credits
CJ2350 - Laws of Evidence - 3 - Credits
CJ2360 - Juvenile Law and Procedures - 3 - Credits
CJ2370 - Child Abuse and Neglect - 3 - Credits

CJ2860 - Criminal Justice Field Experience - 3 - Credits
CJ2977 - Cooperative Education - 1 - 3 Credits
CJ2988 - Special Problems - 1 - 3 Credits
CJ3110 - School Resource Officer: Safety and Crime Prevention in an Educational Setting - 3 - Credits
CJ3150 - Moot Court - 3 - Credits
CJ3320 - Criminal Procedure - 3 - Credits
CJ3370 - Gender-Based Violence - 3 - Credits
CJ3400 - Tribal Criminal Justice Systems - 3 - Credits
CJ3440 - Victimology - 3 - Credits
CJ4200 - Criminal Justice Ethics - 3 - Credits
CJ4310 - Corrections Law & Inmate Rights - 3 - Credits
CJ4350 - Courtroom Communication (CI) - 3 - Credits
CJ4440 - The Origins of the United States Criminal Justice System (DSS) - 3 - Credits
CJ4450 - Foundations of Leadership - 3 - Credits
CJ4460 - Advanced Leadership Skills - 3 - Credits
CJ4470 - Specialized Leadership Project - 3 - Credits
CJ4480 - Executive Leadership - 3 - Credits
CJ4770 - Criminal Justice Field Education and Experience - 3 - Credits
CJ4900 - CJ Capstone Experience - 1 - 3 Credits
IOGP4850 - Public Policy and Community Leadership - 1 - Credits
IOGP5900 - Government and Policy Internship Seminar - 3 - Credits
IOGP5910 - Campaign Internship - 1 - 9 Credits
IOGP5920 - Washington Internship - 1 - 9 Credits
IOGP5930 - State and Local Government Internship - 0.5 - 9 Credits
IOGP5940 - Administrative Internship - 1 - 9 Credits
IOGP5950 - International Internship - 1 - 9 Credits
LATS2200 - Introduction to Latin America - 3 - Credits
MUSM1010 - Introduction to Museums - 3 - Credits
MUSM1020 - Museum Administration - 3 - Credits
MUSM1030 - Museum Collection Management and Ethics - 3 - Credits
MUSM2010 - Museum Exhibitions I - 3 - Credits
MUSM2011 - Museum Exhibitions II - 3 - Credits
MUSM2020 - Museum Preventative Conservation - 3 - Credits
MUSM2090 - Museum Practicum - 3 - Credits
MUSM2977 - Cooperative Education - 1 - 3 Credits
MUSM2988 - Independent Studies - 1 - 3 Credits
MUSM2999 - Workshop - 1 - 3 Credits
MUSM3310 - Introduction to Museum Studies (CI) - 3 - Credits
NAS1010 - Introduction to Native American Studies (BHU) - 3 - Credits
POLS1010 - Introduction to Political Science (BSS) - 3 - Credits
POLS1100 - United States Government and Politics (BAI) - 3 - Credits
POLS1200 - Native American Government - 3 - Credits
POLS2100 - Introduction to International Relations (BSS) - 3 - Credits
POLS2110 - Contemporary Indian Affairs - 3 - Credits
POLS2200 - Comparative Politics (BSS) - 3 - Credits
POLS2300 - Introduction to Political Theory (BHU) - 3 - Credits
POLS2430 - Contemporary Geopolitics (BSS) - 3 - Credits
POLS2500 - Introduction to International Studies (BSS) - 3 - Credits
POLS2971 - Campaign Internship - 1 - 12 Credits
POLS2972 - Washington Internship - 1 - 12 Credits
POLS2973 - State Government Internship - 1 - 12 Credits
POLS2974 - Administrative Internship - 1 - 12 Credits
POLS2975 - International Internship - 1 - 12 Credits
POLS2988 - Special Problems - 1 - 3 Credits
POLS2999 - Workshop - 1 - 3 Credits
POLS3000 - Introduction to Political Research (QI) - 3 - Credits
POLS3050 - Politics in Film - 3 - Credits
POLS3100 - Global Issues: Non-Democratic Politics - 3 - Credits
POLS3110 - Parties and Elections (DSS) - 3 - Credits
POLS3115 - Electoral Behavior - 3 - Credits
POLS3120 - Law and Politics (DSS) - 3 - Credits
POLS3130 - United States Legislative Politics (DSS) - 3 - Credits
POLS3135 - Public Opinion and American Democracy (CI) - 3 - Credits
POLS3140 - The Presidency (DSS) - 3 - Credits
POLS3145 - Political Identities - 3 - Credits
POLS3150 - State and Local Government - 3 - Credits
POLS3155 - Political Psychology - 3 - Credits
POLS3170 - Law and Economics - 3 - Credits
POLS3180 - Introduction to Public Administration - 3 - Credits
POLS3190 - Politics of Economic Development - 3 - Credits
POLS3200 - The Politics of Development (CI/DSS) - 3 - Credits
POLS3210 - Western European Government and Politics (DSS) - 3 - Credits
POLS3220 - Russian and East European Government and Politics (DSS) - 3 - Credits
POLS3230 - Middle Eastern Government and Politics - 3 - Credits
POLS3240 - African Government and Politics - 3 - Credits
POLS3250 - Chinese Government and Politics (DSS) - 3 - Credits
POLS3260 - Politics and Society in Post-Colonial States - 3 - Credits
POLS3270 - Latin American Government and Politics (DSS) - 3 - Credits
POLS3310 - American Political Thought (DSS) - 3 - Credits
POLS3320 - The Foundations of American Constitutionalism - 3 - Credits
POLS3400 - United States Foreign Policy (DSS) - 3 - Credits
POLS3410 - International Human Rights System - 3 - Credits
POLS3430 - Political Geography (CI/DSS) - 3 - Credits
POLS3700 - Terrorism and Counterterrorism - 3 - Credits
POLS3810 - Introduction to Public Policy (DSS) - 3 - Credits
POLS4120 - American Constitutional Law - 3 - Credits
POLS4130 - Constitutional Theory - 3 - Credits
POLS4140 - Political Organizations - 3 - Credits
POLS4150 - The Supreme Court and the Shaping of America - 3 - Credits
POLS4160 - The First Amendment - 3 - Credits
POLS4210 - European Union Politics - 3 - Credits
POLS4220 - Ethnic Conflict and Cooperation (CI/DSS) - 3 - Credits
POLS4230 - Issues in Middle East Politics - 3 - Credits
POLS4260 - Asian Government and Politics (DSS) - 3 - Credits
POLS4270 - The Politics of Global Inequality - 3 - Credits
POLS4280 - Peacebuilding After War - 3 - Credits
POLS4310 - History of Political Thought I (CI) - 3 - Credits
POLS4320 - History of Political Thought II (DSS) - 3 - Credits
POLS4330 - Political Theory and Literature - 3 - Credits
POLS4350 - Public Policy and Democratic Theory - 3 - Credits
POLS4360 - Critical Topics in Political Theory (DHA) - 3 - Credits
POLS4370 - Modern Political Thought (DHA) - 3 - Credits
POLS4410 - International Negotiations - 3 - Credits
POLS4450 - United States and Latin America (CI) - 3 - Credits
POLS4460 - National Security Policy - 3 - Credits
POLS4462 - The US Intelligence Community - 3 - Credits
POLS4463 - Grand Strategy and International Politics - 3 - Credits
POLS4464 - Why Nations Fight? International Security in the 21st Century (DSS) - 3 - Credits
POLS4470 - Foreign Policy in the Pacific - 3 - Credits
POLS4500 - The Politics of Social Movements (DSS) - 3 - Credits
POLS4800 - Constitutional Design - 3 - Credits
POLS4820 - Natural Resources and Environmental Policy: Political Economy of Environmental Quality (DSS) - 3 - Credits
POLS4840 - Regulatory Politics - 3 - Credits
POLS4850 - Public Policy and Community Leadership - 1 - Credits
POLS4890 - Special Topics - 1 - 5 Credits
POLS4910 - Readings and Conference - 1 - 5 Credits
POLS4990 - Senior Research Seminar (CI) - 3 - Credits
POLS5000 - Political Analysis (QI) - 3 - Credits
POLS5100 - Politics and Public Policy - 3 - Credits
POLS5110 - Social Policy - 3 - Credits
POLS5130 - Law and Policy - 3 - Credits
POLS5140 - Law, Politics, and War - 3 - Credits
POLS5210 - Comparative Political Change/Development - 3 - Credits
POLS5270 - Latin American Politics and Development - 3 - Credits
POLS5300 - Cyber Warfare and International Politics - 3 - Credits
POLS5400 - National Security Strategy and Strategic Uncertainty - 3 - Credits
POLS5420 - The Mass Media and Politics - 3 - Credits
POLS5480 - International Trade Policy - 3 - Credits
POLS5770 - Strategic Culture - 3 - Credits

POLS5890 - Special Topics - 1 - 5 Credits
POLS5900 - Government and Policy Internship Seminar - 3 - Credits
POLS5910 - Campaign Internship - 1 - 12 Credits
POLS5920 - Washington Internship - 1 - 9 Credits
POLS5930 - State Government Internship - 1 - 9 Credits
POLS5940 - Administrative Internship - 1 - 9 Credits
POLS5950 - International Internship - 1 - 9 Credits
POLS5960 - International Studies Internship - 1 - 9 Credits
POLS6000 - Advanced Topics in Political Science Research Methods - 3 - Credits
POLS6010 - Research Design - 3 - Credits
POLS6020 - Public Policy Analysis - 3 - Credits
POLS6030 - Political Theory, Political Economy, and Capitalism - 3 - Credits
POLS6040 - Public Choice - 3 - Credits
POLS6050 - Qualitative Methods - 3 - Credits
POLS6110 - Budgeting and Finance - 3 - Credits
POLS6130 - Law and Administration - 3 - Credits
POLS6140 - Leadership in Public Organizations - 3 - Credits
POLS6210 - International Security - 3 - Credits
POLS6215 - Seminar on Comparative Grand Strategies - 3 - Credits
POLS6220 - Comparative Politics Seminar - 3 - Credits
POLS6225 - Advanced Topics In Comparative Politics - 3 - Credits
POLS6230 - Terrorism and Counter-Terrorism - 3 - Credits
POLS6240 - Democratic Theories and Practice - 3 - Credits
POLS6250 - International Relations Seminar - 3 - Credits
POLS6255 - Advanced Topics in International Relations - 3 - Credits
POLS6260 - Topics in International Politics - 3 - Credits
POLS6280 - U.S. Institutions - 3 - Credits
POLS6300 - American Politics Seminar - 3 - Credits
POLS6305 - Advanced Topics in American Politics - 3 - Credits
POLS6310 - Political Theory Seminar - 3 - Credits
POLS6315 - Advanced Topics in Political Theory - 3 - Credits
POLS6400 - United States Foreign Policy - 3 - Credits
POLS6405 - Seminar on Intelligence and Covert Action - 3 - Credits
POLS6420 - The Mass Media and Politics - 3 - Credits
POLS6810 - Graduate Seminar - 1 - 4 Credits
POLS6910 - Directed Studies - 1 - 3 Credits
POLS6920 - Internship - 1 - 15 Credits
POLS6970 - Thesis Research - 1 - 9 Credits
POLS6990 - Continuing Graduate Advisement - 1 - 3 Credits
SOC1010 - Introductory Sociology (BSS) - 3 - Credits
SOC1020 - Social Problems (BSS) - 3 - Credits
SOC1030 - Introduction to Gender & Sexuality Studies (BSS) - 3 - Credits
SOC2120 - Social Statistics in Everyday Life (QI) - 3 - Credits
SOC2370 - Sociology of Gender (BSS) - 3 - Credits
SOC2500 - Research Methods for the Social Sciences - 3 - Credits
SOC2600 - Families Yesterday and Today - 3 - Credits
SOC2630 - Sociology of Race and Ethnicity (BSS) - 3 - Credits
SOC2650 - Globalization and International Development (BSS) - 3 - Credits
SOC2800 - Seminar in Sociology - 3 - Credits
SOC2988 - Special Problems - 1 - 3 Credits
SOC2999 - Workshop - 1 - 3 Credits
SOC3010 - Social Inequality (DSS) - 3 - Credits
SOC3020 - Inclusive Leadership & Community Engagement (CI) - 3 - Credits
SOC3110 - Methods of Social Research (CI) - 3 - Credits
SOC3120 - Social Statistics I (QI) - 3 - Credits
SOC3200 - Population and Society (DSS) - 3 - Credits
SOC3260 - Politics and Society in Post-Colonial States - 3 - Credits
SOC3300 - Sociology of Climate Change - 3 - Credits
SOC3310 - Environmental Justice - 3 - Credits
SOC3320 - Work, Inequality and the American Dream (DSS) - 3 - Credits
SOC3330 - Medical Sociology (DSS) - 3 - Credits
SOC3340 - Activism, Protest, and Social Movements (DSS) - 3 - Credits
SOC3370 - Gender-Based Violence - 3 - Credits
SOC3400 - Tribal Criminal Justice Systems - 3 - Credits
SOC3410 - Juvenile Delinquency - 3 - Credits
SOC3420 - Criminology - 3 - Credits
SOC3430 - Social Deviance (DSS) - 3 - Credits
SOC3440 - Victimology - 3 - Credits
SOC3500 - Social Psychology - 3 - Credits
SOC3520 - Sociology of Mental Illness - 3 - Credits
SOC3600 - Finding Community in Today's Society (DSS) - 3 - Credits
SOC3610 - Rural People and Places (DSS) - 3 - Credits
SOC3650 - Sociology of Education - 3 - Credits
SOC3750 - Sociology of Aging (DSS) - 3 - Credits
SOC3905 - Gender, Sexuality and Adolescence - 3 - Credits
SOC3910 - Theories of Gender and Sexuality - 3 - Credits
SOC3930 - Gender and Sexuality in Contemporary Families - 3 - Credits
SOC4010 - Sociological Theory: Insights from Classical and Contemporary Perspectives (DSS) - 3 - Credits
SOC4350 - People, Power, and the Political - 3 - Credits
SOC4410 - Race and Crime (CI) - 3 - Credits
SOC4420 - Law and Society (CI) - 3 - Credits
SOC4600 - Senior Research Capstone Seminar - 3 - Credits
SOC4620 - Sociology of the Environment and Natural Resources (DSS) - 3 - Credits
SOC4640 - Managing Community Conflict (CI) - 3 - Credits
SOC4720 - Effective Community Engagement - 3 - Credits
SOC4800 - Seminar in Sociology - 1 - 3 Credits
SOC4900 - Capstone Experience - 1 - 3 Credits
SOC5120 - Population and Health - 3 - Credits
SOC5130 - Ethnographic Field School - 3 - 6 Credits
SOC5230 - Techniques of Demographic Analysis - 3 - Credits
SOC5270 - Global Migration - 3 - Credits
SOC5420 - Gender, Sexuality and Social Inequality - 3 - Credits
SOC5460 - Sociology of Health, Illness, and Disability - 3 - Credits
SOC5470 - Inequalities in the Criminal Justice System - 3 - Credits
SOC5640 - Managing Community Conflict (CI) - 3 - Credits
SOC5900 - Directed Study: Gender and Sexuality Studies - 1 - 3 Credits
SOC5920 - Research Methods in Gender & Sexuality Studies - 3 - Credits
SOC6010 - Development of Sociological Theory - 3 - Credits
SOC6100 - Advanced Methods of Social Research - 3 - Credits
SOC6120 - Population and Health - 3 - Credits
SOC6130 - Ethnographic Field School - 3 - 6 Credits
SOC6150 - Social Statistics II - 3 - Credits
SOC6200 - Social Demography - 3 - Credits
SOC6230 - Techniques of Demographic Analysis - 3 - Credits
SOC6250 - Sociology Internship/Co-op - 1 - 6 Credits
SOC6270 - Global Migration - 3 - Credits
SOC6280 - Event History and Survival Analysis - 3 - Credits
SOC6310 - Sociology of Work and Occupations - 3 - Credits
SOC6420 - Gender, Sexuality, and Social Inequality - 3 - Credits
SOC6450 - Theories and Methods in Medical Sociology - 3 - Credits
SOC6460 - Sociology of Health, Illness, and Disability - 3 - Credits
SOC6470 - Inequalities in the Criminal Justice System - 3 - Credits
SOC6480 - Seminar in Race and Ethnicity - 3 - Credits
SOC6620 - Environment, Technology, and Social Change - 3 - Credits
SOC6630 - Social and Community Dimensions of Natural Resources - 3 - Credits
SOC6640 - Multispecies Justice and Indigenous Environmentalisms - 3 - Credits
SOC6650 - Developing Societies - 3 - Credits
SOC6700 - Advanced Rural Sociology - 3 - Credits
SOC6720 - Applied Community Development - 3 - Credits
SOC6730 - Gender and International Development - 3 - Credits
SOC6760 - Theory and Research in Social Inequality - 3 - Credits
SOC6770 - Social Policy and Inequality - 3 - Credits
SOC6800 - Seminar in Sociology - 1 - 3 Credits
SOC6900 - Independent Readings in Sociology - 1 - 3 Credits
SOC6970 - Thesis Research - 1 - 12 Credits
SOC6990 - Continuing Graduate Advisement - 1 - 3 Credits
SOC7010 - Issues in Sociological Theory - 3 - Credits
SOC7100 - Advanced Survey Techniques - 3 - Credits
SOC7110 - Advanced Quantitative Analysis - 3 - Credits
SOC7150 - Advanced Qualitative Methods in Sociology - 3 - Credits
SOC7250 - Advanced Seminar in Social Demography - 3 - Credits
SOC7350 - People, Power, and the Political - 3 - Credits

SOC7400 - Perspectives on Inequality and Social Problems - 3 - Credits
SOC7620 - Sociology of Environmental Hazards and Risks - 3 - Credits
SOC7640 - Population and Environment - 3 - Credits
SOC7660 - Public Sociology: Ecological Justice and Community Action - 3 - Credits
SOC7720 - Applied Community Theory and Development - 3 - Credits
SOC7800 - Topical Seminar in Sociology - 3 - Credits
SOC7900 - Independent Study - 1 - 3 Credits
SOC7910 - Second Year Project for BA/BS to PhD Students - 3 - Credits
SOC7970 - Dissertation Research - 1 - 12 Credits
SOC7990 - Continuing Graduate Advisement - 1 - 9 Credits

School of Teacher Education & Leadership Department

School of Teacher Education and Leadership

Department Head of School of Teacher Education and Leadership: Steven Camicia
Location: Emma Eccles Jones Education 385A
Phone: (435) 797-0389
E-mail: teal@usu.edu
Website: teal.usu.edu

Graduate Program Director: Dr. Nicole Pyle, Emma Eccles Jones Education 392, (435) 797-0392, nicole.pyle@usu.edu

Master's Program Director: Dr. Max Longhurst, Emma Eccles Jones Education 382, (435) 797-7093, max.longhurst@usu.edu

Undergraduate Elementary Teacher Preparation: Dr. Marla Robertson, (435) 722-1752, marla.robertson@usu.edu

Director of Undergraduate Secondary Teacher Preparation: Marilyn Cuch, USU-Uintah Basin, (435) 722-1709 marilyn.cuch@usu.edu

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Asst. Director: Anita Shuman, Education 330F, (435) 797-0371, anita.shuman@usu.edu

TEAL Undergraduate Advisors (Elementary and Secondary Education):
Shannon M. Burgin, Coordinator of Recruitment, Education 379, (435) 797-0377, shannon.burgin@usu.edu
Jennifer Caines, Education 381, (435) 797-2224, jennifer.caines@usu.edu
Ashley Fluegel, Education 378, (435) 797-0375, ashley.fluegel@usu.edu

Associate's Degrees offered: Elementary Education

Elementary Education Degrees offered: Elementary Education, Early Childhood Education, Early Childhood/Elementary Education

Special Education Composite Degrees offered (housed on their department page): Special Education: Birth to 5 Emphasis/Early Childhood Education Composite, Special Education: Birth to 5 Emphasis/Elementary Education Composite, Special Education: Mild/Moderate Emphasis/Elementary Education Composite, Special Education: Severe Emphasis/Elementary Education Composite

Secondary Education Degrees offered: BS and BA in Composite Teaching-Social Studies; Second Bachelor of Science (BS), Second Bachelor of Arts (BA) in Secondary Education.

Graduate Certificates offered: Elementary Mathematics Specialist (EMS)

Graduate Degrees and Specializations: MEd and MS in Curriculum and Instruction with specializations in Early Childhood Education, ESL Education, Literacy Education, Math Education, Science Education and Social Studies Education; Master in Elementary Education (MET); Master in Secondary Education (MST); MEd in School Leadership; EdS and EdD in Curriculum and Instruction, and PhD in Education with specialization in Curriculum and Instruction. PhD students also select a concentration among Cultural Studies, School Leadership, Literacy Education and Leadership, Mathematics Education and Leadership, and Science Education.

Full Details of the learning objectives, assessment plan, student outcomes, and evidence of continuous improvement for these programs of study can be found at cehs.usu.edu/teal/assessment/index.

Undergraduate Programs

Elementary Education Program-AS

An Associate of Science (AS) degree in Elementary Education prepares a student interested in a career in education to obtain a degree as they determine the role that best suits their career goals.

This degree can stack into a BA or BS in a chosen teaching major (e.g. Elementary Education or Early Childhood education), transfer into another major, or allow movement into the workforce. The future BA or BS degree leads to a recommendation for Professional License from the Utah State Board of Education to teach in the grade-level or content of the chosen degree.

Elementary Education Program- BA/BS

Objectives
The purposes of the Elementary Education Program are:

1. To develop professional educators.
2. To advance knowledge in the field of education.

These purposes are realized through teaching, scholarly activities, and service. The program provides leadership in the preparation of teachers, supervisors, curriculum specialists, and other professional personnel for careers in elementary education, early childhood education, and middle level education.

The Elementary Education Program at Utah State University offers multiple programs leading to licensure as a teacher. In the following list, each program name is followed by the grades that can be taught with the licensure obtained (shown in parentheses).

- Elementary Education (kindergarten through grade 8)
- Early Childhood Education (preschool through grade 3)
- Early Childhood/Elementary Education (preschool through grade 8)
- *Special Education*: Birth to 5 Emphasis/Early Childhood Education Composite (preschool through grade 3, and Special Education birth through age 5)
- *Special Education*: Birth to 5 Emphasis/Elementary Education Composite (kindergarten through grade 8/kindergarten through grade 12)
- *Special Education*: Mild/Moderate Emphasis/Elementary Education Composite (kindergarten through grade 8/kindergarten through grade 12)
- *Special Education*: Mild/Moderate Emphasis/Elementary Education Composite (kindergarten through grade 8/kindergarten through grade 12)
- Elementary Education General Studies: For people interested in becoming a teacher or teacher's aide. **Does not lead to a recommendation for licensure.**

Minimum Application Requirements

Given the shortage of teachers in the nation, as well as demands for high quality teachers, and reflecting the multiple routes to licensure approved by the Utah State Board of Education, the School of Teacher Education and Leadership provides degrees by which a student may procure teacher licensure.

Admission to the Elementary and Early Childhood Education Programs requires: (1) an overall GPA 2.0 minimum to apply, (2) minimum grades in a set of core courses, (3) the number of credits a student has taken. In addition, applicants must have a cleared FBI/BCI background check through the Utah State Board of Education. Applications are accepted each semester.

Students who have completed the requirements may complete an application available on eGrad. Application instructions can be found at cehs.usu.edu/teal/undergraduate/eled-ece-majors. At the time of application, students should schedule a time to meet with an advisor for assistance at cehs.usu.edu/advising.

Continuing Licensure Lane Designation Requirements

A minimum GPA of 3.0 is required to graduate from the program. Major subject courses passed with less than a B- grade may be repeated once. A student who fails to maintain a 3.0 GPA will be referred to their advisor.

Students complete a professional semester of student teaching. An application for student teaching must be made at least one semester in advance, and credentials are reevaluated at that time. Since not all student teachers can be accommodated by the schools located within Cache Valley, placements are made on a first-come, first-served basis. Students should be financially prepared to spend that time off-campus in the event such an arrangement is necessary. Students must be responsible for their own transportation and housing.

Students will have the opportunity to complete coursework leading to various teaching endorsements. Students should meet with their advisors for further information.

Students may also get an early start on a master's degree through the EMPowerment program. More information on this option is available from the TEAL advisors. Contact Shannon Burgin for more information (shannon.burgin@usu.edu).

Students who have teaching licenses in areas other than elementary education may obtain the elementary license by meeting the same or equivalent requirements for licensure expected of an elementary education major. Those desiring to acquire a dual license should work with an advisor from the Elementary Education Program.

For a complete description of the program and requirements for graduation and licensure, students should visit the Elementary Education Program website at https://cehs.usu.edu/teal/undergraduate/eled-and-ece/. At the time of graduation, students in the Licensure Lane may apply for their teaching license through the Emma Eccles Jones College of Education and Human Services.

Suggested Four-year Plans

Suggested semester-by-semester four-year plans for students working toward bachelor's degrees within the Elementary Education Program of the School of TEAL can be found on the university catalog department degree maps page.

Each plan provides a model of the requirements and a possible sequence of courses. However, students may progress through their program or have more flexibility if they have high ACT scores, CLEP credit, concurrent enrollment credit, AP credit, and/or transfer credit; or if they attend during summer semesters.

Students should consult with their advisor to develop a plan of study tailored to their individual circumstances.

Secondary Education Program

Objectives

The Secondary Education Program coordinates state-approved programs for secondary teacher licensure across campus. The program offers the Secondary Teacher Education Program (STEP), a set of courses and field experiences designed to prepare students for teaching careers in secondary schools. STEP is approved by the Utah State Board of Education and fully accredited by the Association for Advancing Quality Educator Preparation (AAQEP). Students who successfully complete the program are recommended for secondary licensure in the State of Utah, enabling them to teach in grades 6-12.

Program Entrance Requirements

In addition to meeting the admission requirements for the university, students in good standing must have a minimum entrance GPA of 2.0 and maintain a major GPA of 3.0 in order to student teach. Students must complete all requirements of the pre-major prior to being admitted to the full major. Students must complete all requirements of the pre-major prior to being admitted to the full major. All students must be admitted to the teacher education program. See details below.

Admission to the Secondary Teacher Education Program (STEP)

Prior to enrolling in STEP courses, students must be admitted to the teacher education program. Criteria for admission include completion of a minimum of 12 semester credits, and (1) University Studies requirements, (2) recommendations from an advisor in a single-subject major, (3) have a GPA of at least 3.00 and a minimum C grade in all STEP Courses and teaching major or teaching minor courses, and (4) a cleared USBE background check. STEP applications are completed online through eGrad. Instructions are available here: https://cehs.usu.edu/teal/undergraduate/secondary-ed/step-admissions.

Composite Majors, Teaching Majors, and Teaching Minors

Secondary Teacher Licensure requires that students complete a composite teaching major or a single-subject teaching major, but students may also elect to complete a teaching minor. Students are strongly encouraged to meet as soon as possible with advisors in their declared teaching major to determine teaching minor requirements and options. The following composite teaching majors, single-subject teaching majors, and teaching minors are approved for Utah State University.

Composite Teaching Majors (46 credits minimum)
Agricultural Education, Art Education, Biological Science, Business Education, Earth Science, English Teaching, Family and Consumer Sciences Education, Mathematics and Statistics Education, Music Education, Physical Science, Social Studies Education, and Technology and Engineering Education.

Teaching Majors (30 credits minimum)
Chemistry, Computer Science, English, Geography, History, Mathematics, Physical Education Coaching, Physics, Political Science, Psychology, School Library Media, Sociology, Special Education, Theatre Arts, and World Languages.

Teaching Minors (16 credits minimum)
Chemistry, Computer Science Education, English, Geography, History, Mathematics, World Languages, Physical Education Coaching, Physics, Political Science, Psychology, School Library Media, Sociology, Special Education, and Theatre Arts.

Social Studies Composite Teaching Major
The Social Studies Composite Teaching Major is housed in the School of Teacher Education and Leadership. All other teaching composite majors, single subject majors, and teaching minors are completed within partner departments in colleges throughout the university. Suggested semester-by-semester four-year plans for students working toward bachelor's degrees leading to a secondary teaching license can be found on the university catalog department degree maps page. Students should meet with their content area advisors in their respective colleges and their STEP advisor in the Advisement Center of the School of Teacher Education and Leadership for guidance on completing their programs.

Students may also complete coursework leading to a teaching endorsement in Dual Immersion and English as a Second Language (ESL).

Additional Undergraduate Information

Major Requirement Sheets
For more information concerning requirements for university graduation and for basic professional teaching licensure in secondary education, elementary education and early childhood education, see major requirement sheets available from the TEAL Advisement Center, Emma Eccles Jones Education Building, 3rd floor or on the department web page at this link: https://cehs.usu.edu/teal/.

Financial Support
Students in the School of Teacher Education and Leadership are supported by as many as 55 separate scholarships provided by kind donors who support the mission of TEAL. Applications are available from the TEAL Advisement Center and are due by February 28th.

Honors Program
The University Honors Program offers students in all colleges and majors the unique opportunity to deepen their educational experience with their academic knowledge. The Honors Program admits incoming, transfer, and existing USU students based on application. High achieving students with at least two years remaining are encouraged to apply. See the University Honors Program catalog website for more information.

Undergraduate Research
Undergraduate research opportunities are available with many departmental faculty members. Interested students should contact Dr. Sylvia Read, Associate Dean in the Emma Eccles Jones College of Education and Human Services, (435) 797-2714, sylvia.read@usu.edu.

Graduate Programs

Admission Requirements
To apply to the doctoral (Ph.D. and Ed.D.) and Education Specialist (EdS) degree programs, please refer to the TEAL Admissions for Doctoral Program website. At least two years of teaching experience are required. Admission committees consider relevant experience, previous coursework, degrees completed, formal recommendations, Statement of Purpose, and research interests with faculty expertise.

Degree Programs
Three avenues exist for both Logan and Statewide Campus students wishing to pursue a master's degree in the School of Teacher Education and Leadership at Utah State University. They are as follows:

- Master of Science—Plan A
- Master of Education—Plan C

Doctoral Programs (PhD and EdD)
TEAL administers a doctoral program in Education, which includes the Doctor of Philosophy (PhD) and the Doctor of Education (EdD). For information about the Doctor of Philosophy (Ph.D.), please refer to the TEAL Ph.D. in Education website. For information about the Doctor of Education (Ed.D.), please refer to the TEAL Doctor of Education website.

Additional Information
The Program of Study for the MEd should be approved by the program advisor at the beginning of the semester of graduation. The Program of Study form for the MS degree should be approved by the student's committee and submitted to the School of Graduate Studies *at least two months prior to the oral exam, oral review, or presentation appropriate to that degree.* For the EdS, EdD or PhD, the Program of Study form must be submitted to the School of Graduate Studies by the end of their third semester of coursework.

After matriculation into the program, a master's degree must be completed within a six-year time period. Pass/fail grades will be accepted only for seminars, special problems, interdisciplinary workshops, thesis or dissertation research, and continuing graduate advisement. Transfer credit accepted toward a degree is normally limited to 6 credits; however, with prior approval, 12 transfer credits may be accepted. A maximum of 12 credits taken before admission to the program may be counted toward the degree if the credits were not counted towards another earned degree. Transfer of coursework in the student's area of specialization is limited to 1/2 of the specialization credits required at USU and may include 5000-level courses. All subsequent coursework in a student's area of specialization must be taken at the 6000 level or above, in order to be applied toward a graduate degree in the School of TEAL. Coursework expires after eight years.

Admission applications for master's degrees are accepted 3 times a year. Their deadlines are November 1st, March 1st, and June 1st.

Research
Cooperation with other departments and research centers at the university, as well as with public school and Utah State Board of Education collaborators, permits strong graduate programs. Research opportunities are available with the Edith Bowen Laboratory School, cooperating school districts in Utah and surrounding states, the Utah State Board of Education, and the United States Department of Education.

Financial Assistance
Both departmental and School of Graduate Studies support may be available for the regular academic program and is awarded on a competitive basis.

Assistantships
Teaching assistantships may be available through TEAL. Some research assistantships are available through faculty members who have ongoing projects with off-campus funding agencies. Acceptance to pursue graduate study does not guarantee student financial assistance. To apply for a TEAL Graduate Assistantship, please refer to the TEAL Graduate Assistantship Application form.

Career Opportunities
Positions in Higher Education—Master Teachers
Many school districts support and encourage teachers to further their education and expertise by obtaining a master's degree. Added financial remuneration generally accompanies the completion of such a degree. Supervisors, curriculum specialists, and other professional careers are enhanced by completion of a master's degree.

Completion of a doctoral degree qualifies the graduate for a wide variety of careers, including positions in higher education, curriculum specialist positions in school districts and state offices of education, positions in educational agencies of the United States government, and education specialist positions in business and industry.

FACULTY - Emma Eccles Jones College of Education and Human Services

Programs

Curriculum and Instruction - MEd
Curriculum and Instruction - MS
Curriculum and Instruction - EdS
Dual Language Immersion - Institutional Certificate of Proficiency
Dual Language Immersion - Post-Bachelor's Certificate
Early Childhood Education - BA, BS
Education Paraprofessional - Certificate (NOT CURRENTLY OFFERED)
Education - Curriculum and Instruction Specialization - EdD
Education: Curriculum and Instruction Specialization - PhD
Elementary Education - AS
Elementary Education - BA, BS
Elementary Mathematics Specialist (EMS) - Post-Bachelor's Certificate
Master in Elementary Teaching - MET
School Leadership - Higher Education/Student Affairs - MEd (NOT CURRENTLY OFFERED)
School Leadership - MEd
School Leadership - Post-Master's Certificate
Secondary Education - 2nd BA, BS
Special Education: Birth to 5 Emphasis/Early Childhood Education Composite - BA, BS
Special Education: Birth to 5 Emphasis/Elementary Education Composite - BA, BS
Special Education: Mild/Moderate Emphasis/Elementary Education Composite - BA, BS
Special Education: Severe Emphasis/Elementary Education Composite - BA, BS
Master in Secondary Teaching - MST
Social Studies (Composite Teaching) - BA, BS

Courses

ELED1010 - Orientation to Elementary Education - 3 - Credits
ELED2620 - Early Childhood Education Kindergarten Through Grade 3 - 3 - Credits
ELED3000 - Historical, Social, and Cultural Foundations of Education (CI) - 3 - Credits
ELED3002 - Foundations Practicum - 1 - Credits
ELED3050 - PE and Health in the Elementary Classroom - 2 - Credits
ELED3100 - Classroom Reading Instruction - 3 - Credits
ELED3200 - Literacy Clinic Practicum - 3 - Credits
ELED3800 - ArtsBridge - 2 - Credits
ELED4040 - Reading Assessment and Intervention (CI) - 2 - Credits
ELED4042 - Reading Assessment and Intervention Practicum - 1 - Credits
ELED4049 - Foundations of Reading Review - 1 - Credits
ELED4061 - Teaching Elementary School Mathematics I: Rational Numbers, Operations, and Proportional Reasoning - 3 - Credits
ELED4150 - Assessment and Differentiation Across the Curriculum - 3 - Credits
ELED4250 - Advanced Cooperative Work Experience - 1 - 8 Credits
ELED4900 - Senior Project - 1 - 5 Credits
ELED4970 - Senior Thesis - 1 - 5 Credits
ELED5010 - Teaching Social Studies in Elementary School - 2 - Credits
ELED5020 - Teaching Science in Elementary School - 2 - Credits
ELED5030 - Teaching Language Arts (CI) - 2 - Credits
ELED5040 - Teaching Elementary School Mathematics II: Number, Operations, and Algebraic Reasoning - 2 - Credits
ELED5050 - Student Teaching - Kindergarten - 3 - 9 Credits
ELED5060 - Elementary Content Practicum - 4 - Credits
ELED5105 - Motivation and Classroom Management - 3 - Credits
ELED5150 - Student Teaching: Elementary - 3 - 9 Credits
ELED5250 - Elementary Education Student Teaching Seminar - 3 - Credits
ELED5900 - Independent Study - 0.5 - 2 Credits
SCED1000 - Volunteer Experience - 1 - Credits
SCED3210 - Educational and Multicultural Foundations (DSS/CI) - 3 - Credits
SCED3300 - Clinical Experience I - 1 - Credits
SCED3400 - Teaching Science I - 3 - Credits
SCED3500 - Teaching Social Studies - 3 - Credits
SCED3550 - Teaching Social Studies in the Middle Grades - 3 - Credits

SCED4300 - Clinical Experience II - 1 - Credits
SCED4900 - Senior Thesis - 1 - 6 Credits
SCED5100 - Motivation and Classroom Management - 3 - Credits
SCED5200 - Language, Literacy, and Learning in the Content Areas (CI) - 3 - Credits
SCED5210 - Learning Theory, Curriculum, and Assessment - 3 - Credits
SCED5240 - Public School Internship - 12 - Credits
SCED5400 - Laboratory Practicum - 3 - Credits
SCED5500 - Student Teaching Seminar - 2 - Credits
SCED5630 - Student Teaching in Secondary Schools - 10 - Credits
SCED5810 - Social Studies Teaching Methods - 3 - Credits
SCED5820 - Science Education Teaching and Dispositions Knowledge - 3 - Credits
SCED5821 - Three-Dimensional Science and Engineering Pedagogical Knowledge - 3 - Credits
SCED5900 - Independent Study - 1 - 3 Credits
SCED6305 - Graduate Clinical Experience - 1 - Credits
SCED6555 - Practicum Improvement in Instruction/Seminar - 1 - Credits
TEAL1010 - Introduction to Education - 3 - Credits
TEAL2660 - Educational Psychology for Teachers - 2 - Credits
TEAL3080 - Integrating Arts into Academic Learning (DHA) - 3 - Credits
TEAL3780 - History of American Education (DSS) - 3 - Credits
TEAL4530 - Anthropology of Education - 3 - Credits
TEAL4730 - Educational Linguistics - 3 - Credits
TEAL4745 - Second Language/Literacy Acquisition and Development - 3 - Credits
TEAL4760 - Foundations of Dual Language Immersion/ESL/Bilingual Education - 3 - Credits
TEAL4780 - Assessment for Language Learners - 3 - Credits
TEAL4900 - Undergraduate Research in Teaching and Learning - 1 - 3 Credits
TEAL5064 - Methods for Teaching Middle Level Mathematics - 3 - Credits
TEAL5235 - Instructional Implications for Literacy Development - 3 - Credits
TEAL5420 - Learning, Development, and Individual Differences in Gifted Education - 3 - Credits
TEAL5440 - Creativity in Education - 2 - Credits
TEAL5450 - Learning Environments for Gifted Students - 3 - Credits
TEAL5521 - Mathematics for Teaching K-8: Numbers and Operations - 3 - Credits
TEAL5523 - Mathematics for Teaching K-8: Algebraic Reasoning - 3 - Credits
TEAL5560 - Special Topics - 0.5 - 4 Credits
TEAL5630 - Study Abroad Student Teaching - 3 - 6 Credits
TEAL5700 - Modified Student Teaching - 2 - 5 Credits
TEAL5710 - Instruction for Linguistically and Culturally Diverse Learners - 3 - Credits
TEAL5735 - Language Systems, Acquisition, and Instruction for English Learners - 3 - Credits
TEAL5745 - Second Language Acquisition for Teachers - 3 - Credits
TEAL5755 - Family and Community Involvement for ELs - 3 - Credits
TEAL5760 - Foundations of Bilingual/ESL/Educational and Dual Language Immersion for Teachers - 3 - Credits
TEAL5770 - Content Based Instruction for Dual Language Immersion/English as a Second Language - 3 - Credits
TEAL5780 - Assessment for Language Learners - 3 - Credits
TEAL5790 - ESOL Field Experience - 0.5 - 3 Credits
TEAL6010 - Critical Issues in Education - 3 - Credits
TEAL6040 - Designing and Interpreting Measurements for Assessing Student Learning - 3 - Credits
TEAL6050 - Theories of Instructional Supervision - 3 - Credits
TEAL6060 - Instructional Leadership: Assessment for Curricular - 3 - Credits
TEAL6064 - Methods for Teaching Middle Level Mathematics - 3 - Credits
TEAL6080 - Leadership and the School Principal - 3 - Credits
TEAL6090 - Theories of Organizational Leadership in Education - 3 - Credits
TEAL6150 - Foundations of Curriculum - 3 - Credits
TEAL6190 - Theories of Learning and Models of Teaching - 3 - Credits
TEAL6205 - Nature of Science and Engineering for Teachers - 3 - Credits
TEAL6210 - Graduate Student Teaching - 3 - 10 Credits
TEAL6211 - Graduate Student Teaching Seminar - 3 - Credits
TEAL6220 - Workshop in Early Childhood Education - 1 - 6 Credits
TEAL6230 - Standards and Evidence-Based Literacy Instruction in the Elementary School (K-6) - 3 - Credits
TEAL6235 - Literacy Curriculum and Instruction - 3 - Credits
TEAL6250 - Graduate Cooperative Work Experience - 1 - 10 Credits
TEAL6255 - Mathematics Curriculum and Instruction - 2 - Credits
TEAL6270 - Introduction to Methods, Planning, and Assessment - 3 - Credits
TEAL6280 - Instructional Leadership: Instructional Practices for Diverse Learners - 3 - Credits
TEAL6300 - Workshop in Mathematics Education - 1 - 6 Credits
TEAL6320 - Theories and Models of Reading - 3 - Credits
TEAL6321 - Foundations of Literacy and Language - 3 - Credits
TEAL6323 - Literacy Education Teaching Training and Development - 3 - Credits
TEAL6330 - Leadership in the School Community - 3 - Credits
TEAL6350 - Literacy Assessment and Intervention - 3 - Credits
TEAL6381 - Writing Research and Instruction - 3 - Credits
TEAL6390 - Researching K-12 Literacy Using Fiction and Non-Fiction Texts - 3 - Credits
TEAL6400 - Foundations of Instructional Coaching - 3 - Credits
TEAL6410 - Social Foundations of Education - 3 - Credits
TEAL6415 - History of Policy Change in US Schools - 3 - Credits
TEAL6420 - Learning, Development, and Individual Differences in Gifted Education - 3 - Credits
TEAL6440 - Creativity in Education - 2 - Credits
TEAL6450 - Learning Environments for Gifted Students - 3 - Credits
TEAL6500 - School Finance and Resource Management - 3 - Credits
TEAL6505 - Science Curriculum and Instruction - 2 - Credits
TEAL6521 - Mathematics for Teaching K-8 - Numbers and Operations - 3 - Credits
TEAL6522 - Mathematics for Teaching K-8 - Rational Numbers and Proportional Reasoning - 3 - Credits
TEAL6523 - Mathematics for Teaching K-8 - Algebraic Reasoning - 3 - Credits
TEAL6524 - Mathematics for Teaching K-8 - Geometry and Measurement - 3 - Credits
TEAL6525 - Mathematics for Teaching K-8 - Data Analysis and Problem Solving - 3 - Credits
TEAL6530 - Anthropology of Education - 3 - Credits
TEAL6540 - Data-Based Decision Making for School Leaders - 3 - Credits
TEAL6545 - Research For Teachers - 3 - Credits
TEAL6550 - Practicum in the Evaluation of Instruction - 1 - 4 Credits
TEAL6551 - Mathematics for Teaching K - 8: Assessment and Intervention - 3 - Credits
TEAL6552 - Mathematics Education Leadership Knowledge and Skills - 3 - Credits
TEAL6560 - Special Topics - 0.5 - 4 Credits
TEAL6570 - K-12 Comprehension Research - 3 - Credits
TEAL6580 - Character and Values Education - 2 - Credits
TEAL6590 - Supervising School Reading Program - 3 - Credits
TEAL6675 - Discourse Analysis in Education - 3 - Credits
TEAL6710 - Diversity in Education - 3 - Credits
TEAL6720 - Practicum in Science Instruction - 1 - Credits
TEAL6740 - School Law - 3 - Credits
TEAL6755 - Family and Community Involvement for ELs - 3 - Credits
TEAL6770 - Content Based Instruction for Dual Language Immersion/English as a Second Language - 3 - Credits
TEAL6780 - Assessment for Language Learners - 3 - Credits
TEAL6790 - ESOL Field Experience - 0.5 - 3 Credits
TEAL6800 - Advanced Review of Research in Social Studies - 3 - Credits
TEAL6900 - Independent Study - 0.5 - 3 Credits
TEAL6910 - Independent Research - 0.5 - 3 Credits
TEAL6930 - Supervision and Administrative Internship Seminar - 3 - Credits
TEAL6945 - Supervision and Administration Internship - 3 - Credits
TEAL6970 - Thesis - 3 - 6 Credits
TEAL6980 - Portfolio Project - 1 - Credits
TEAL6990 - Continuing Graduate Advisement - 1 - 9 Credits
TEAL7000 - Student Teaching Supervision - 1 - 3 Credits
TEAL7010 - Critical Issues in Education - 3 - Credits
TEAL7015 - Orientation to Educational Research - 1 - Credits

TEAL7050 - Theories of Instructional Supervision - 3 - Credits
TEAL7055 - Internship in Program Evaluation - 1 - 6 Credits
TEAL7060 - Assessment and Data Issues for Instructional Leaders - 3 - Credits
TEAL7065 - Internship in Research - 1 - 6 Credits
TEAL7090 - Theories of Organizational Leadership in Education - 3 - Credits
TEAL7100 - Practices of Instructional Supervision - 2 - Credits
TEAL7150 - Curriculum Theory - 3 - Credits
TEAL7200 - Advanced Review of Cultural Studies Research - 3 - Credits
TEAL7300 - Historical, Social, and Cultural Foundations of Education - 3 - Credits
TEAL7310 - Teaching-Learning Foundations in Education - 3 - Credits
TEAL7320 - Theories and Models of Reading - 3 - Credits
TEAL7321 - Foundations of Literacy and Oral Language Development - 3 - Credits
TEAL7322 - Research in Literacy - 3 - Credits
TEAL7323 - Literacy Education Teacher Training and Development - 3 - Credits
TEAL7324 - Advanced Studies in Literacy Assessment and Intervention - 3 - Credits
TEAL7325 - Instructional Leadership - 3 - Credits
TEAL7326 - Designing and Conducting Literacy Research: A Capstone Experience - 3 - Credits
TEAL7327 - Literacy Research Apprenticeship - 1 - Credits
TEAL7330 - Internship in Supervision - 1 - 3 Credits
TEAL7350 - Internship in Curriculum Development - 1 - 3 Credits
TEAL7380 - Writing Research and Instruction - 3 - Credits
TEAL7390 - Researching K-12 Literacy Using Fiction and Non-Fiction Texts - 3 - Credits
TEAL7415 - History of Policy Change in US Schools - 3 - Credits
TEAL7500 - Interdisciplinary Workshop - 1 - 2 Credits
TEAL7540 - College Teaching Apprenticeship - 1 - 3 Credits
TEAL7545 - Research for Teachers - 3 - Credits
TEAL7546 - Qualitative Data Analysis - 3 - Credits
TEAL7547 - Thinking with Theory in Qualitative Research - 3 - Credits
TEAL7548 - Qualitative Research Apprenticeship - 1 - 3 Credits
TEAL7549 - Autoethnography as Research MethodologyMethodology - 3 - Credits
TEAL7550 - Evaluation of Supervisory Performance - 1 - 4 Credits
TEAL7551 - Mathematics Education Research Foundations - 3 - Credits
TEAL7552 - Mathematics Education Learning Theory - 3 - Credits
TEAL7553 - Mathematics Education Curriculum Content and Evaluation - 3 - Credits
TEAL7554 - Mathematics Education Teacher Preparation and Pedagogy - 3 - Credits
TEAL7555 - Mathematics Education Current Issues and Policy - 3 - Credits
TEAL7556 - Mathematics Education Research Design and Assessment - 3 - Credits
TEAL7557 - Advanced Research Design in Mathematics Education and Leadership - 3 - Credits
TEAL7570 - K-12 Comprehension Research - 3 - Credits
TEAL7670 - Education Literature Reviews - 3 - Credits
TEAL7675 - Discourse Analysis in Education - 3 - Credits
TEAL7710 - History of Science Education - 3 - Credits
TEAL7711 - Contemporary Perspectives on Teaching and Learning K-12 Science Education - 3 - Credits
TEAL7712 - STEM Education: Research Development - 3 - Credits
TEAL7713 - Nature of Science Research - 3 - Credits
TEAL7714 - Misconceptions in Science Education - 3 - Credits
TEAL7715 - Research Practices for Science Educators - 3 - Credits
TEAL7800 - Advanced Review of Research in Social Studies - 3 - Credits
TEAL7810 - Research Seminar - 1 - 3 Credits
TEAL7820 - Seminar: Special Topics in Teacher Education and Leadership - 1 - 3 Credits
TEAL7830 - Queer and Transgender Studies in Education - 3 - Credits
TEAL7900 - Independent Study - 0.5 - 3 Credits
TEAL7910 - Independent Research - 0.5 - 3 Credits
TEAL7970 - Dissertation Research in Curriculum and Instruction - 1 - 18 Credits
TEAL7990 - Continuing Graduate Advisement - 1 - 12 Credits
TESYTECH - - 1 - 3 Credits

Social Work Department

Social Work

Department Head: Jessica Lucero, Ph.D., MSW
Location: Main 239D
Phone: (435) 797-9122 | **FAX:** (435) 797-1240
E-mail: socialwork@usu.edu
Website: socialwork.usu.edu

Master of Social Work (MSW) Program Director (Logan): J.C. Sheen, Ph.D., MSW, 435-797-8113, jeff.sheen@usu.edu

Master of Social Work (MSW) Program Director (Statewide): Susan Cutler Egbert, Ph.D., MSW, 801-518-1115, susan.egbert@usu.edu

Master of Social Work (MSW) Graduate Program Coordinator (Logan): Morgan Walton, MSW, morgan.walton@usu.edu

Master of Social Work (MSW) Graduate Program Coordinator (Statewide): Chelsey Spears, MSW, chelsey.spears@usu.edu

Social Work Undergraduate (BSW) Program Director: Jen Evers, (435) 797-5104, jenifer.evers@usu.edu

Degrees offered: Bachelor of Science (BS) and Bachelor of Arts (BA) in Social Work; Master of Social Work (MSW)

Full details of the learning objectives, assessment plan, student outcomes, and evidence of continuous improvement for these programs of study can be found at socialwork.usu.edu. (For assessment specifically, see socialwork.usu.edu/assessment.)

Bachelor of Social Work Program (BSW) Objectives

The BSW program serves the public by preparing its graduates for employment as generalist social workers who are committed to enhancing human well-being and meeting basic human needs of all people, particularly vulnerable populations. As a community-engaged department, we take pride in serving Utah communities through our research and student learning opportunities ranging from mentored research to field placements. Students learn from seasoned social work practitioners and scholars in the classroom and connect their classroom learning to the field during their culminating field placement. The program trains students to engage, assess, intervene, and evaluate with individuals, groups, and communities. Students have access to highly engaged faculty who are committed to supporting their success and connecting them with individualized opportunities for their professional development. Graduates are in high demand in the human service sector and are eligible for the social service worker (SSW) license in the State of Utah.

Master of Social Work Program (MSW) Objectives

The MSW program prepares its graduates as professionals in advanced generalist practice and equips them with skills necessary for leadership roles within the Social Work profession. The MSW program emphasizes the advanced generalist practice knowledge and skills essential to the tasks of promoting social welfare, especially among vulnerable populations, in a wide range of settings ranging from behavioral health agencies to schools, to criminal justice contexts and more. The program is dedicated to the development of social workers who understand the need to advocate for vulnerable populations, and to work toward the establishment of societies free from poverty, violence, oppression, and discrimination.

The MSW program's curriculum is grounded in the strength's perspective, the empowerment approach, and a social justice philosophy. Students have access to highly engaged faculty who are deeply committed their success and unique professional development. Faculty empower students to be part of meaningful community-based change, serving each student nested in their own community and context. Students receive training to engage a multidimensional, multisystem problem-solving process and apply their classroom-based learning in their field internship where they further refine their skills to engage, assess, intervene, and evaluate with clients and client-systems. Graduates leave our program with excellent preparation to enter clinical career paths (e.g., mental health therapy) and other practice areas such as social administration. Graduates are eligible for the Certified Social Worker (CSW) license which permits them to practice clinical social work under the supervision of another licensed mental health professional. Once required hours and supervision requirements are met, graduates are eligible to sit for the Licensed Clinical Social Work (LCSW) exam.

College of Arts and Sciences Faculty

Programs

Social Work - Minor
Social Work - BA, BS
Social Work - MSW

Courses

SW1010 - Introduction to Social Welfare (BSS) - 3 - Credits
SW2100 - Human Behavior in the Social Environment - 3 - Credits
SW2400 - Social Work with Diverse Populations - 3 - Credits
SW3000 - BSW Orientation - 1 - Credits
SW3050 - Practice I - 3 - Credits
SW3350 - Child Welfare - 3 - Credits
SW3360 - Adolescents: Theories, Problems, and Issues - 3 - Credits
SW3450 - School Social Work - 3 - Credits
SW3540 - Forensic Child Welfare - 3 - Credits
SW3580 - Crisis Intervention Response - 3 - Credits
SW3650 - Mental Health - 3 - Credits
SW3850 - Spirituality and Social Work - 3 - Credits
SW4100 - Social Work Research (CI) - 3 - Credits
SW4150 - Practice II - 3 - Credits
SW4160 - Practice III - 3 - Credits
SW4870 - Beginning Field Practicum - 6 - Credits
SW4900 - Topical Issue Seminar - 3 - Credits
SW4925 - Resilience and Human Flourishing - 3 - Credits
SW4950 - Directed Readings - 1 - 5 Credits
SW5010 - Spanish for Social Services - 3 - Credits
SW5040 - Community Justice Advocacy: Debt Navigation - 3 - Credits
SW5350 - Social Policy and Social Justice (CI) - 3 - Credits
SW5400 - Social Work Ethics - 3 - Credits
SW5525 - Aging in the 21st Century - 3 - Credits
SW5530 - Social Work and Community Health - 3 - Credits
SW5540 - Nonprofit Management for Social Workers - 3 - Credits
SW5575 - Substance Use Disorders: Approaches to Treatment and Policy - 3 - Credits

SW5580 - Grief and Loss in Social Work Practice - 3 - Credits
SW5870 - Advanced Field Practicum - 6 - Credits
SW5901 - Human Behavior in the Social Environment - 3 - Credits
SW5902 - Social Work Practice Methods - 3 - Credits
SW5903 - Social Welfare Policy - 3 - Credits
SW5920 - Trauma and Resilience - 3 - Credits
SW6000 - Principles and Philosophy of Social Work - 3 - Credits
SW6010 - Spanish for Social Services - 3 - Credits
SW6040 - Community Justice Advocacy: Debt Navigation - 3 - Credits
SW6050 - HBSE: Individuals and Families in Their Environment - 3 - Credits
SW6100 - Generalist Practice I: SW Practice with Individuals, Families, and Groups - 3 - Credits
SW6150 - Generalist Practice II: SW Practice with Groups, Organizations, and Communities - 3 - Credits
SW6200 - Social Work Research Methods - 3 - Credits
SW6300 - Social Policy Analysis - 3 - Credits
SW6350 - Emotionally Focused Therapy: Advanced Practice - 3 - Credits
SW6370 - Acceptance and Commitment Therapy: Theory and Practice - 3 - Credits
SW6400 - Field Practicum I - 4 - Credits
SW6425 - Foundation Optional Practicum - 1 - 5 Credits
SW6450 - Field Practicum II - 5 - Credits
SW6475 - Foundation Block Field Practicum - 9 - Credits
SW6480 - Advanced School Social Work Practice - 3 - Credits
SW6525 - Aging in the 21st Century - 3 - Credits
SW6530 - Social Work and Community Health - 3 - Credits
SW6540 - Nonprofit Management for Social Workers - 3 - Credits
SW6550 - Advanced Practice with Victims and Perpetrators of Family Violence - 3 - Credits
SW6575 - Substance Use Disorders: Approaches to Treatment and Policy - 3 - Credits
SW6580 - Grief and Loss in Social Work Practice - 3 - Credits
SW6590 - Advanced Standing Seminar I: Social Work Generalist Practice-Theories and Methods - 3 - Credits
SW6595 - Advanced Standing Seminar II: Social Work Generalist Practice-Research Policy - 3 - Credits
SW6600 - Policy and Administration - 3 - Credits
SW6630 - Social Work in the Healthcare Setting - 3 - Credits
SW6650 - Advanced Research Methods - 3 - Credits
SW6700 - Advanced Generalist Practice I: Individuals and Families - 3 - Credits
SW6725 - Diagnosis and Intervention in Social Work Practice - 3 - Credits
SW6750 - Advanced Generalist Practice II: Groups - 3 - Credits
SW6850 - Psychopharmacology in Advanced Social Work Practice - 3 - Credits
SW6900 - Field Practicum III - 6 - Credits
SW6905 - I-System Model and Mind-Body Bridging - Foundation - 3 - Credits
SW6907 - I-System Model and Mind-Body Bridging - Advanced - 3 - Credits
SW6920 - Trauma and Resilience - 3 - Credits
SW6925 - Advanced Optional Practicum - 1 - 3 Credits
SW6950 - Field Practicum IV - 6 - Credits
SW6975 - Advanced Block Field Practicum - 12 - Credits
SW6990 - Independent Study - 1 - 3 Credits
SW6995 - Special Topics on Social Work Practice - 1 - 3 Credits

Special Education & Rehab Counseling Department

Special Education and Rehabilitation Counseling

Department Head: Thomas Higbee
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Phone: (435) 797-1933 | **FAX:** (435) 797-3572
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Undergraduate Program Coordinator:
Julia Lyman, Education 336A, (435) 797-7205, julia.lyman@usu.edu

Undergraduate Advisors:
Special Education Undergraduate – Wade Hirschi (A-J), Education 371, (435) 797-3670, wade.hirschi@usu.edu
Special Education Undergraduate - Laura Parrish (K-Z), Education 371, (435) 797-7575, laura.parrish@usu.edu
Graduate Program Coordinator - Kris Wengreen, Education 306, (435) 797-3246, kris.wengreen@usu.edu

Graduate Program Coordinators:
Special Education Master's Programs: Kaitlin Bundock, Education 327, (435) 797-3911, kaitlin.bundock@usu.edu
Rehabilitation Counseling Program: Trent Landon, Education 322, (435) 797-3269, trent.landon@usu.edu
Doctoral Program: Brian Phillips, Education 318 , (435) 797-2381, brian.philips@usu.edu

Online Program Coordinator: Kristen Rolf, kristen.rolf@usu.edu

Degrees offered: Bachelor of Science (BS), Bachelor of Arts (BA), Master of Science (MS), Master of Education (MEd), and Educational Specialist (EdS) in Special Education; Master of Rehabilitation Counseling (MRC); Doctor of Philosophy (PhD) in Disability Disciplines. The Special Education and Rehabilitation Counseling department participates in the Doctorate of Education (EdD) administered by the School of Teacher Education and Leadership (TEAL).

Undergraduate emphases: *BS*, *BA*—Mild/Moderate Disabilities, Severe Disabilities, Early Childhood (Birth to age 5) Special Education, Visual Impairments, Mild/Moderate Disabilities OPTT (Online Practical Teacher Training), Severe Disabilities OPTT, Early Childhood (Birth to Age 5) OPTT.

Graduate concentrations: *MEd*, *MS*, —General Special Education, Applied Behavior Analysis, School Leadership Certificate.(Note: Graduate concentrations will not appear on student transcripts or diplomas.)

PhD specializations: Special Education, Applied Behavior Analysis, Rehabilitation Counseling, Speech-Language Pathology, Pathokinesiology and Audiology

Licensure is available for teachers in early childhood (birth to age 5) special education, mild/moderate disabilities, severe disabilities, and visual impairments. A Special Education composite licensure program is available with the Elementary Education Program in the School of Teacher Education and Leadership (TEAL) for Logan Main Campus students. A dual licensure program is available with secondary education content majors in the School of TEAL and with early childhood students pursuing a master's in Deaf Education for Logan Main Campus students. See website for more information https://cehs.usu.edu/shs/.

Full details of the learning objectives, assessment plan, student outcomes, and evidence of continuous improvement for these programs of study can be found at sperc.usu.edu/assessment/index.

Undergraduate Programs

Objectives

The undergraduate programs in the Department of Special Education and Rehabilitation Counseling offer educational and training opportunities for teachers and support personnel working with exceptional children and adults with disabilities. The programs prepare individuals to work with individuals with mild/moderate and severe disabilities, visual impairments, and with early childhood (birth to age 5) special education. Students who are majoring in other teaching fields (i.e., elementary education, secondary education) are encouraged to pursue a second certification by taking those courses which lead to a special education license. Teacher education programs in the department are accredited by the State of Utah. These programs are also fully accredited through the Association for Advancing Quality in Educator Preparation (AAQEP).

Areas of Emphasis

The Department of Special Education and Rehabilitation Counseling offers training programs for individuals who want to work with children and adults with disabilities. A student fulfilling the undergraduate course requirements will qualify for a BS or BA degree in special education and be eligible for a license to teach students with mild/moderate disabilities, students with severe disabilities, students with visual impairments, or young children with disabilities. The severe, mild/moderate, and visual impairment licenses allow graduates to teach pupils with disabilities from kindergarten through 12th grades. The birth to age 5 special education license allows graduates to teach young children with disabilities.

The special education degree is offered on the Logan Main Campus as a traditional teacher preparation program. The special education degree is also offered online across the state of Utah for teacher candidates who are working as a para-professional or teacher of record in Utah (OPTT - Online Teacher Preparation Program). The OPTT emphases can be taken as a first or a second bachelor's degree. When taken as a 2nd BS, some of the credits can be applied towards a master's degree.

In addition, the department offers composite and dual teaching majors with the Elementary Education Program and dual teaching majors with the Secondary Education Program, both of which are part of the School of Teacher Education and Leadership. These composite/dual degrees are only available on the Logan Main Campus. Students completing the dual major requirements in secondary education will be eligible for teacher licensure in one of the special education areas and the secondary education content major. Students completing the composite or dual major requirements in elementary education will be eligible for teacher licensure in one of the special education areas and elementary education. Students interested in teaching preschool children with disabilities may receive a birth to age 5 special education license for ages 0-5, in addition to a K-12 special education license in visual impairments, severe, or mild/moderate disabilities. A Birth to Age 3 minor is available for Human Development and Family Studies majors.

Requirements

Admission Requirements
Students are admitted to the Department of Special Education and Rehabilitation Counseling as Pre-Special Education majors by meeting the Utah State University minimum requirements. To become a Special Education major, a student must make written application to the department after meeting the following prerequisites:

1. Completion of at least 40 attempted semester credits with an institution GPA of 2.00 or higher; and
2. Completion of admission requirements to the Emma Eccles Jones College of Education and Human Services Teacher Education Program.

- Visual impairment, mild/moderate and severe students must also complete Quantitative Literacy (QL) and MATH 2020 and MATH 2010.
- Birth to age five students must complete one of the following: Quantitative Literacy (QL)

Students should apply to the department during spring semester of their sophomore year (February 1 deadline). Admission to the department is competitive based on several factors. These include:

1. The student's current GPA.
2. The number of credit hours completed by the end of fall semester.

3. Completion of pre-major classes (such as Math and HDFS 1500).
4. Experience working with people with disabilities.
5. The student's career goals and experiences.

GPA Requirement
A minimum GPA of 2.00 is required to apply for admission, to remain in good standing, and to graduate from the program from the undergraduate programs. All graduate programs require a minimum GPA of 3.0 for admission. All required special education classes must be completed with a grade of *B-* or better.

Advising Plans

Students should consult with their advisor to develop a plan of study tailored to their individual needs and interests.

University Honors Program

The University Honors Program offers students in all colleges and majors the unique opportunity to deepen their educational experience with hands-on practical applications of their academic knowledge. The Honors Program admits incoming, transfer, and existing USU students based on application. High achieving students with at least one year remaining are encouraged to apply. See the University Honors Program catalog entry and website (honors.usu.edu) for more information.

Additional Information

For more information concerning Bachelor of Science or Bachelor of Arts requirements and the sequence in which courses should be taken, see major planning guides available on the department webpage or degree maps in the USU Catalog.

Financial Support

Scholarships, assistantships, grants-in-aid, and work-study programs are available through the university. In addition, there are some endowed scholarships available through the department and, sometimes, there are stipends available from federal grants.

Graduate Programs

Admission Requirements
Admission decisions are made by the department's Graduate Program Committees: Disability Disciplines Doctoral Committee, Special Education Master's Committee, and Rehabilitation Counseling Master's Committee. Admission Requirements are based upon those of the School of Graduate Studies. In addition, the committees consider experience, academic record and curriculum, and formal recommendations. The Special Education master's program, Rehabilitation Counseling master's program and Disability Disciplines Doctoral program do not require GRE scores for admission.

Deadlines for application to the Special Education Master's program are March 1, June 1, and October 1. Applications for the Rehabilitation Counseling Master's program are March 15th and October 15. Applications for the School Leadership Certificate program are due by March 1st for summer, June 1st for fall, and November 1st for spring. The deadline for application to the Disabilities Disciplines Doctoral program is January 15th. Only complete files will be reviewed. Applications received after these dates will be considered, but opportunities for financial assistance may be limited. No applications will be considered until all required information arrives at the School of Graduate Studies office.

Teaching Licenses

The department prepares students for licensure as teachers of students with mild/moderate disabilities, students with severe disabilities, and preschool-age students with disabilities. Licensure may also be obtained in visual and/or hearing impairments through a multi university consortium program. Licensure may be obtained as part of the graduate degree program or without a graduate degree.

Financial Assistance

Scholarships, teaching assistantships, and research assistantships are available for qualified doctoral students. Scholarships are also available to qualified students in the Master of Rehabilitation Counseling program.

Additional Information

For additional information regarding the Special Education and Rehabilitation Counseling graduate programs, check the departmental website at sperc.usu.edu/.

FACULTY - Emma Eccles Jones College of Education and Human Services

Programs

Clinical Rehabilitation Counseling - Post-Master's Certificate
Disability Disciplines - PhD
Disability Studies - Minor
Health, Wellness, and Equity - Certificate
Aggies Elevated - Integrated College and Community Studies - Certificate
Infant Toddler Early Intervention - Certificate
Rehabilitation and Disability Studies - Post-Master's Certificate
Rehabilitation Counseling - MRC
Special Education: Birth to 5 Emphasis/Early Childhood Education Composite - BA, BS
Special Education: Birth to 5 Emphasis/Elementary Education Composite - BA, BS
Special Education: Mild/Moderate Emphasis/Elementary Education Composite - BA, BS
Special Education: Severe Emphasis/Elementary Education Composite - BA, BS
Special Education - Minor
Special Education - AS
Special Education: Birth to 5 Emphasis - BA, BS
Special Education Online Practical Teacher Training (OPTT): Birth to Age 5 Emphasis - BA, BS
Special Education - BA, BS
Special Education - EdS
Special Education - MEd
Special Education: Mild/Moderate & Birth to 5 Dual Emphasis - BA, BS
Special Education: Mild/Moderate Emphasis - BA, BS
Special Education Online Practical Teacher Training (OPTT): Mild/Moderate Emphasis - BA, BS
Special Education: Mild/Moderate & Severe Dual Emphasis - BA, BS
Special Education - MS
Special Education: Severe & Birth to 5 Dual Emphasis - BA, BS
Special Education: Severe Emphasis - BA, BS
Special Education Online Practical Teacher Training (OPTT): Severe Emphasis - BA, BS
Special Education: Visual Impairments Emphasis - BA, BS

Courses

EDUC0100 - Foundations of Reading and Writing - 3 - Credits
EDUC1020 - Career Exploration I - 3 - Credits
EDUC1030 - Healthy Relationships - 2 - Credits
EDUC1040 - Career Exploration II - 3 - Credits
EDUC1050 - Self-Determination - 3 - Credits
EDUC2100 - Everyday Social Skills - 2 - Credits
EDUC2110 - Work Internship - 1 - 3 Credits
EDUC2120 - Navigating Adulthood - 3 - Credits
REH2010 - Neurodiversity and Society - 3 - Credits
REH2060 - Health Promotion for Individuals with Chronic Illness and Disability - 3 - Credits
REH4200 - Disability Culture & The Workplace - 3 - Credits
REH4210 - Ethics in Behavioral Health - 3 - Credits
REH4250 - Communication Skills for Helping Professions - 3 - Credits
REH4350 - Introduction to Counseling Theories - 3 - Credits
REH6000 - Professional Seminar in Counseling - 1 - Credits
REH6100 - Professional Counseling Orientation - 3 - Credits
REH6110 - Medical Aspects of Disability - 3 - Credits
REH6120 - Psychosocial Aspects of Disability - 2 - Credits
REH6130 - Counseling Skill Development - 3 - Credits
REH6140 - Counseling Practicum - 3 - Credits
REH6150 - Case Management for Health Professions - 2 - Credits
REH6160 - Career Development, Analysis and Placement - 3 - Credits
REH6170 - Counseling Internship I - 4 - Credits
REH6175 - Counseling Internship II - 5 - Credits
REH6180 - Mental Illness, Disability, and Trauma - 2 - Credits
REH6190 - Vocational Assessment in Rehabilitation Counseling - 3 - Credits
REH6200 - Theories of Counseling - 3 - Credits
REH6210 - Mental Health Assessment - 3 - Credits
REH6220 - Multicultural Aspects of Counseling - 3 - Credits
REH6230 - Research in Clinical Rehabilitation Counseling - 3 - Credits
REH6240 - Ethical Decision-Making in Counseling - 3 - Credits
REH6250 - Group Counseling - 3 - Credits
REH6260 - Human Growth and Development - 3 - Credits
REH6320 - The Diagnostic and Statistical Manual (DSM 5) of Mental Health Disorders - 3 - Credits
REH6350 - Treatment Approaches for Addiction Disorders - 3 - Credits
REH6500 - Fundamental Skills for Transition Services - 3 - Credits
REH6510 - Transition to Supported/Competitive Employment - 3 - Credits
REH6520 - Capstone Demonstration Project: Education, Services, and Processes Leading to Postsecondary Life - 2 - Credits
REH6560 - Special Topics in Rehabilitation - 1 - 6 Credits
REH6570 - Collaboration in Transition Services - 3 - Credits
REH6700 - Internship in Counseling I - 2 - Credits
REH6710 - Internship in Counseling II - 2 - Credits
REH6790 - Special Topics - 1 - 4 Credits
REH6900 - Independent Study - 1 - 3 Credits
REH7010 - Doctoral Practicum - 1 - Credits
REH7040 - Literature Review - 1 - 3 Credits
REH7050 - Professional Issues in Rehabilitation Counselor Education - 3 - Credits
REH7060 - Research Internship - 1 - 3 Credits
REH7070 - REH Grant Writing Internship - 1 - 3 Credits
REH7080 - Writing for Publication - 1 - 3 Credits
REH7090 - Professional Conference Presentation - 1 - 3 Credits
REH7250 - Leadership & Advocacy Internship - 1 - 3 Credits
REH7330 - Supervision Internship - 1 - 3 Credits
REH7340 - College Teaching Internship - 1 - 3 Credits
REH7350 - Counseling Internship - 1 - 3 Credits
REH7750 - Social and Legal Context of Disability - 3 - Credits
REH7760 - Clinical Supervision - 3 - Credits
REH7770 - College Teaching - 3 - Credits
REH7780 - Bioethics, Ethics and Disability - 3 - Credits
REH7790 - Theoretical Foundations of Counseling - 3 - Credits
REH7820 - Special Topics in Rehabilitation Counseling - 1 - 3 Credits
REH7840 - Preliminary Examinations - 1 - Credits
REH7900 - Independent Study - 1 - 3 Credits
REH7970 - Dissertation - 1 - 15 Credits
SPED1000 - Principles of Effective Peer Teaching - 2 - Credits
SPED1010 - Disability and Society (BSS) - 3 - Credits
SPED2790 - Special Topics - 1 - 9 Credits
SPED2910 - Early Field Experience in Special Education - 3 - Credits
SPED4000 - Education of Students with Disabilities - 3 - Credits
SPED4300 - What is Normal?: Introduction to Disability Studies - 3 - Credits
SPED4910 - Undergraduate Research and Creative Opportunities - 1 - 3 Credits
SPED5010 - Applied Behavioral Analysis 1: Principles, Assessment, and Analysis (QI) - 3 - Credits
SPED5011 - Foundations in Special Education: Instructional Strategies, Behavior Management, and IEPs - 2 - Credits
SPED5012 - Basic Behavior Management and Instructional Strategies (QI) - 3 - Credits
SPED5013 - Advanced Behavior Management and Instructional Strategies - 3 - Credits
SPED5014 - Foundations in Assessment - 2 - Credits
SPED5015 - Law/Policies/Procedures - 3 - Credits
SPED5016 - Technology and Collaboration for Teaching Exceptional Learners - 3 - Credits
SPED5017 - Transition Planning and Collaboration for Exceptional Learners - 3 - Credits
SPED5018 - Eligibility Assessment - 1 - Credits
SPED5030 - Assessment in Special Education - 2 - Credits
SPED5040 - Foundations of Effective Instructional Practices - 4 - Credits
SPED5050 - Applied Behavioral Analysis 2: Applications - 3 - Credits
SPED5070 - Policies, Procedures, and Collaboration in Special Education - 3 - Credits
SPED5080 - Transition-Focused Education and Collaboration - 2 - Credits
SPED5105 - Introduction to Visual Impairments - 1 - Credits
SPED5106 - Visual Impairments Overview - 1 - Credits
SPED5110 - Social and Psychological Implications of Visual Impairments - 2 - Credits
SPED5111 - Psychosocial Implications of Visual Impairments - 2 - Credits
SPED5120 - Ocular Disorders and Examination Techniques - 2 - Credits
SPED5121 - Examination Techniques for Ocular Disorders - 2 - Credits
SPED5122 - Educational Implications for Students with Low Vision - 2 - Credits
SPED5123 - Functional and Educational Considerations for Students with Low Vision - 2 - Credits
SPED5130 - Literary Braille Codes - 3 - Credits
SPED5131 - Braille Literacy - 3 - Credits
SPED5135 - Assistive Technology for Students with Visual Impairments - 3 - Credits
SPED5136 - Visual Impairment Assistive Technology - 3 - Credits
SPED5140 - Advanced Braille Codes & Abacus Instruction - 3 - Credits
SPED5141 - Advanced Abacus Instruction and Braille Codes - 3 - Credits
SPED5150 - Teaching Children with Dual Sensory Impairments (Deaf/Blind) - 3 - Credits
SPED5151 - Teaching Children who are Deaf/Blind (Dual Sensory Impairments) - 3 - Credits
SPED5160 - Introduction to Orientation and Mobility - 2 - Credits
SPED5161 - Orientation and Mobility Introduction - 2 - Credits
SPED5170 - Instructional Management for Students with Visual Impairments (0-21) - 3 - Credits
SPED5171 - Visual Impairment Instructional Management for Students Ages 0-21 - 3 - Credits
SPED5175 - Early Literacy for Young Children with Visual Impairment, Birth to Five - 2 - Credits
SPED5176 - Visual Impairment Early Literacy for Young Children (Birth to Age 5) - 2 - Credits
SPED5190 - Understanding the Brain, Damage to the Brain and Cerebral/Cortical Visual Impairment - 2 - Credits
SPED5191 - Damage to the Brain and Cerebral/Cortical Visual Impairment - 2 - Credits
SPED5200 - Student Teaching in Special Education (CI) - 3 - 15 Credits

SPED5230 - Special Education Student Teaching (CI) - 3 - 15 Credits
SPED5310 - Teaching Reading and Language Arts to Students with Disabilities - 1 - 4 Credits
SPED5311 - Reading and Language Arts Interventions for Students with Disabilities - 1 - 3 Credits
SPED5312 - MM K-12 Math Content, Applications, and Co-Teaching - 3 - Credits
SPED5340 - Teaching Math to Students with Mild/Moderate Disabilities - 3 - Credits
SPED5410 - Practicum I (Elementary) for Mild/Moderate Disabilities - 3 - Credits
SPED5415 - Practicum I for Mild/Moderate Disabilities - 3 - Credits
SPED5420 - Practicum II (Secondary) for Mild/Moderate Disabilities - 3 - 4 Credits
SPED5425 - Practicum II for Mild/Moderate Disabilities - 4 - Credits
SPED5500 - Interdisciplinary Disability Awareness and Community Engaged Learning - 3 - Credits
SPED5510 - Curriculum and Assessment for Students with Severe Disabilities I - 2 - Credits
SPED5511 - Effective Instruction and Curriculum for Students with Severe Disabilities I - 2 - Credits
SPED5512 - Effective Instruction and Curriculum for Students with Severe Disabilities II - 3 - Credits
SPED5520 - Curriculum and Assessment for Students with Severe Disabilities II - 3 - Credits
SPED5530 - Family/Professional Collaboration and Technology for Teaching Exceptional Learners - 3 - Credits
SPED5600 - Practicum I Severe - 3 - Credits
SPED5610 - Practicum II Severe - 2 - 3 Credits
SPED5615 - Practicum I for Severe Disabilities - 3 - Credits
SPED5625 - Practicum II for Severe Disabilities - 3 - Credits
SPED5710 - Young Children with Disabilities: Characteristics and Services - 3 - Credits
SPED5711 - Introduction to Instruction for Preschoolers with Disabilities - 3 - Credits
SPED5713 - Early Intervention: Services for Infants and Families - 3 - Credits
SPED5714 - Early Childhood Development and Social Competency: Implications for Intervention - 3 - Credits
SPED5715 - Practicum I: Birth to Five Special Education - 2 - Credits
SPED5725 - Practicum II: Birth to Five Special Education - 2 - Credits
SPED5730 - Intervention Strategies for Young Children with Disabilities - 3 - Credits
SPED5790 - Special Topics - 1 - 4 Credits
SPED5810 - Seminar and Field Experiences with Infants and Families - 4 - Credits
SPED5820 - Preschool Practicum with Young Children with Disabilities in Community Environments - 2 - 3 Credits
SPED5840 - Practicum: Working with Young Children with Autism - 1 - Credits
SPED5900 - Independent Study - 1 - 3 Credits
SPED5920 - Internship in Early Intervention - 1 - 3 Credits
SPED5930 - Special Education International Teaching and Service - 3 - Credits
SPED6060 - Legal Issues in Special Education - 3 - Credits
SPED6100 - Introduction to Blindness and Visual Impairment - 3 - Credits
SPED6101 - The Human Eye and Visual System - 3 - Credits
SPED6102 - Introduction to Low Vision - 3 - Credits
SPED6103 - The Role of Paraeducators with Individuals Who are Blind or Visually Impaired - 3 - Credits
SPED6104 - Introduction to Multiple Disabilities - 3 - Credits
SPED6105 - Introduction to Braille - 3 - Credits
SPED6201 - Blind/Visually Impaired Seminar: VIISA Trainers Training - 0.5 - 3 Credits
SPED6203 - Multiple Disabilities Seminar: INSITE Trainers Training - 0.5 - 3 Credits
SPED6204 - Deaf/Hard-of-Hearing Seminar: SKI*HI Trainers Training - 0.5 - 3 Credits
SPED6300 - Effective Practices with Culturally and Linguistically Diverse Populations - 3 - Credits
SPED6320 - Seminars in Learning Characteristics of Students with Dual Sensory Impairments - 2 - Credits
SPED6410 - Field Studies I: Analysis of Service for Students with Dual Sensory Impairments - 2 - Credits
SPED6420 - Field Studies II: Analysis of Service for Students with Dual Sensory Impairments - 2 - Credits
SPED6430 - Field Studies III: Analysis of Service for Students with Dual Sensory Impairments - 2 - Credits
SPED6550 - Practicum in the Evaluation of Instruction - 1 - 4 Credits
SPED6560 - Improvement of Instruction - 1 - 4 Credits
SPED6700 - Introduction to Behavioral Research in Education - 3 - Credits
SPED6710 - Concepts and Principles of Behavior Analysis in Education - 3 - Credits
SPED6720 - Educational Applications of Behavior Analysis I - 3 - Credits
SPED6730 - Educational Applications of Behavior Analysis II - 3 - Credits
SPED6740 - Development & Proposal of Individual Student Master's Project - 3 - Credits
SPED6750 - Supervised Practicum in Applied Behavior Analysis - 1 - 3 Credits
SPED6760 - Supervised Practicum in Applied Behavior Analysis: Seminar - 2 - Credits
SPED6770 - Coaching and Systems Change - 3 - Credits
SPED6780 - Ethics & Professional Behavior in Behavior Analysis - 3 - Credits
SPED6790 - Special Topics - 1 - 4 Credits
SPED6810 - Seminar in Special Education - 1 - 3 Credits
SPED6900 - Independent Study - 1 - 3 Credits
SPED6910 - Independent Research - 1 - 3 Credits
SPED6930 - Internship in Special Education - 2 - 10 Credits
SPED6960 - Creative Project - 1 - 6 Credits
SPED6970 - Thesis - 1 - 9 Credits
SPED6990 - Continuing Graduate Advisement - 1 - 8 Credits
SPED7020 - Teaching in Disability Disciplines - 3 - Credits
SPED7030 - Advanced Functional Assessment - 3 - Credits
SPED7040 - Literature Review - 1 - Credits
SPED7050 - Internship in Program Evaluation - 1 - 5 Credits
SPED7060 - Research Internship - 1 - Credits
SPED7070 - SPED Grant Writing Internship - 1 - 3 Credits
SPED7080 - Writing for Publication - 1 - 3 Credits
SPED7090 - Conference Presentation - 1 - 3 Credits
SPED7330 - Supervision Internship - 1 - 5 Credits
SPED7340 - College Teaching Internship - 1 - 3 Credits
SPED7400 - Cultural and Linguistic Diversity and Disability - 3 - Credits
SPED7420 - Systematic Literature Reviews - 3 - Credits
SPED7430 - Educational Neuroscience - 3 - Credits
SPED7500 - Leadership Education in Disabilities - 1 - 3 Credits
SPED7700 - Single-Subject Research Methods and Designs - 3 - Credits
SPED7710 - Advanced Single-Subject Research Methods and Design - 3 - Credits
SPED7720 - Advanced Applied Behavior Analysis - 3 - Credits
SPED7730 - Advanced Topics in Behavior Analysis - 3 - Credits
SPED7740 - Verbal Behavior and Relational Responding - 3 - Credits
SPED7750 - Social and Legal Context of Disability - 3 - Credits
SPED7800 - Seminar: Issues in Special Education and Rehabilitation - 1 - 3 Credits
SPED7810 - Research Seminar in Special Education and Rehabilitation - 1 - 3 Credits
SPED7820 - Seminar: Special Topics - 1 - 3 Credits
SPED7830 - Personal Preparation in Disability Disciplines - 3 - Credits
SPED7840 - Preliminary Exams - 1 - Credits
SPED7900 - Independent Study - 1 - 3 Credits
SPED7910 - Independent Research - 1 - 3 Credits
SPED7920 - Doctoral Program Professional Seminar - 1 - Credits
SPED7930 - Internship in Special Education - 1 - 12 Credits
SPED7940 - Journal Reading Group - 1 - 2 Credits
SPED7970 - Dissertation - 1 - 15 Credits
SPED7990 - Continuing Graduate Advisement - 1 - 9 Credits

Speech and Hearing Sciences Department

Speech and Hearing Sciences

Department Head: Karen Muñoz
Location: Lillywhite 105
Phone: (435) 797-3701 | **FAX:** (435) 797-0221
E-mail: karen.munoz@usu.edu
Website: https://cehs.usu.edu/shs/

Assistant Department Head: Teresa Ukrainetz, Lillywhite 103, (435) 797-1384, teresa.ukrainetz@usu.edu

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Campus Bachelors, Victor Blocher, Lillywhite 150, (435) 797-9271, victor.blocher@usu.edu
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American Sign Language Minor - Mason Hayes, Lillywhite 148, (435) 797-9094, mason.hayes@usu.edu

Graduate Advisor:
Mason Hayes, Lillywhite 148, (435) 797-9094, mason.hayes@usu.edu

Degrees offered: Bachelor of Science (BS) and Bachelor of Arts (BA) in Speech and Hearing Sciences, 2nd Bachelor of Science (BS) in Speech and Hearing Sciences, Master of Science (MS) and Master of Arts (MA) in Speech-Language Pathology, Master of Science (MS) in Communication Sciences, and Master of Education (MEd) in Deaf Education with a specialization in Listening and Spoken Language; Doctor of Audiology (AuD); interdisciplinary Doctor of Philosophy in Disabilities Disciplines (PhD) *(Interdisciplinary)*, and Doctor of Philosophy in Neuroscience (PhD) *(Interdisciplinary)* with emphasis in Speech-Language Pathology or Audiology.

Certificates offered: Hearing Foundations Certificate, Speech-Language Pathology Assistant Certificate.

Objectives

Three main objectives of the Department of Speech and Hearing Sciences are (1) to train competent audiologists, educators of the deaf and hard of hearing, speech-language pathologists, and speech-language pathologist assistants who will be qualified to receive state licensure and national certification; (2) to provide clinical services to individuals with hearing, balance, speech, language and swallowing deficits in the university population or in the community at large; and (3) to provide research opportunities for students related to the fields of speech and hearing sciences.

Suggested Four-year Plans

Suggested semester-by-semester four-year plans for students working toward bachelor's degrees are available in the Department of Speech and Hearing Sciences.

These plans are models of the requirements and possible sequences of courses. However, students may progress through their program or have more flexibility if they have high ACT scores, CLEP credit, concurrent enrollment credit, AP credit, and/or transfer credit; or if they attend during summer semesters.

Students should consult with their advisor to develop a plan of study tailored to their individual circumstances.

University Honors Program

The University Honors Program offers students in all colleges and majors the unique opportunity to deepen their educational experience with hands-on practical applications of their academic knowledge. The Honors Program admits incoming, transfer, and existing USU students based on application. High-achieving students with at least one year remaining are encouraged to apply. See the University Honors Program catalog entry and website (honors.usu.edu) for more information or contact the Department of Speech and Hearing Sciences Honors representative, Annalise Fletcher (annalise.fletcher@usu.edu).

Graduate Programs

Admission Requirements

A bachelor's degree in communication disorders or equivalent must be completed before the student enters the graduate program. For speech-language pathology, students with a bachelor's degree in another area must complete a second bachelor's degree in speech and hearing sciences or equivalent. For those seeking a doctorate of audiology, students with a bachelor's degree in another area must complete the following courses (or an equivalent) prior to beginning their graduate program: *Anatomy and Physiology of Speech and Hearing* and *Basic Audiology*.

Applications for the graduate degrees are considered once a year during spring semester. Admission is on a competitive basis. Students applying to the audiology and speech-language pathology programs must have completed the application process to the School of Graduate Studies by January 15th. The application deadline for the Deaf Education program is March 1. Deaf Education applications received after March 1 will be reviewed on a space-available basis. For further information see individual graduate program application and admission requirements at https://comdde.usu.edu/.

Research and Practicum Opportunities

Research experiences are available at both the undergraduate and graduate level. Students may choose to complete a thesis project or assist in faculty research with specific opportunities depending on the degree and specialization.

Practicum experience at the graduate level is available in a variety of settings. The department houses clinics specializing in hearing, balance, cochlear implants, tinnitus, speech, language, cognitive rehabilitation, assistive communication devices (AAC) and feeding and swallowing. These clinics offer a full range of care including diagnostic and treatment services to individuals across the lifespan. The department also houses the Sound Beginnings Early Intervention Pre-School and Kindergarten Program to support families of children who are deaf or hard of hearing who use hearing technology to develop listening and spoken language. Finally, our department has a close relationship with the Institute for Disability Research, Policy, and Practice and their care providers.

Students have opportunities to participate in practicum off the Logan campus. These off-campus sites throughout Utah include hospitals, schools for the deaf, long-term and rehabilitation care centers, physician's offices, public schools, private clinical practices, and early intervention programs. Placement at out-of-state practicum sites may be offered depending on availability.

Licensure

The programs in audiology, speech-language pathology, and deaf education meet requirements for Utah State Office of Education licensure, American Speech-Language-Hearing Association certification, and Utah State Professional Licensure.

Financial Assistance

Departmental and federal grant support is available to graduate students and is awarded on a competitive basis. Students should contact the graduate advisor to identify financial support submission deadlines.

Career Opportunities

Graduates from the clinical doctorate of **audiology** program are prepared to work in diverse hearing healthcare settings, such as hospitals, private practice, industry, U.S. military, research labs, and school districts. MEd graduates in **deaf education** are prepared to work in early intervention, general education, and special education programs that serve children with hearing loss who use listening and spoken language. Graduates with the MS/MA in **speech-language pathology** are prepared to work across the lifespan in medical, rehabilitation, educational, and early intervention settings. Graduates from the bachelor's degrees in **speech and hearing sciences** and the certificate in **speech-language pathology assistant** are prepared to work in educational settings under the supervision of a master's degree speech-language pathologist, with specific requirements depending on state and employer.

Additional Information

For more information concerning graduation requirements and course sequencing, students should meet with their departmental advisors prior to beginning classes in any COMDDE program. Information on the department programs, policies, faculty, research, and services can be found at https://comdde.usu.edu/ and at the individual undergraduate and graduate degree catalog pages.

Learning objectives, assessment plan, student outcomes, and evidence of continuous improvement for these programs of study can be found at https://cehs.usu.edu/comdde/assessment/.

FACULTY - Emma Eccles Jones College of Education and Human Services

Programs

American Sign Language - Minor
Audiology - AuD
Communication Sciences - MS
Deaf Education - Listening and Spoken Language Specialization - MEd
Hearing Foundations - Certificate
Interdisciplinary Studies (Education) - BA, BS
Listening and Spoken Language Deaf Education - Post-Master's Certificate
Speech and Hearing Sciences (Online) 2nd Bachelor of Science Degree - BS
Speech and Hearing Sciences - BA, BS
Speech-Language Pathology - MA, MS
Speech-Language Pathology Assistant - Certificate

Courses

ASL1010 - American Sign Language I - 4 - Credits
ASL1020 - American Sign Language II - 4 - Credits
ASL2010 - American Sign Language III - 4 - Credits
ASL2020 - American Sign Language IV - 4 - Credits
ASL3080 - American Sign Language Practice - 1 - Credits
ASL3085 - ASL Practice II - 1 - Credits
ASL4780 - Deaf Culture - 3 - Credits
COMD5750 - Strategies for Teaching Deaf and Hard of Hearing Students with Exceptionalities - 3 - Credits
SHS1500 - Basics of Human Anatomy and Physiology for Applied Sciences - 3 - Credits
SHS2400 - Orientation and Observation - 1 - Credits
SHS2600 - Introduction to Communication Disorders - 3 - Credits
SHS3100 - Speech Science - 3 - Credits
SHS3200 - Child Language Development - 3 - Credits
SHS3400 - Hearing Science - 3 - Credits
SHS3500 - Phonetics and Phonological Development - 3 - Credits
SHS3600 - Language Science (CI) - 3 - Credits
SHS3800 - Anatomy and Physiology of Speech and Hearing - 3 - Credits
SHS3850 - Anatomy and Physiology of Hearing - 1 - Credits
SHS4100 - Clinical Practicum in Speech-Language Pathology (CI) - 1 - Credits
SHS4200 - Clinical Methods (CI) - 3 - Credits
SHS4450 - Developmental Communication Disorders - 3 - Credits
SHS4500 - Acquired Communication Disorders - 3 - Credits
SHS4700 - Basic Audiology - 3 - Credits
SHS5070 - Acoustics of Speech and Hearing - 3 - Credits
SHS5120 - Management of Speech Sound Disorders - 3 - Credits
SHS5240 - Neural Bases of Cognition and Communication - 3 - Credits
SHS5330 - Aural Rehabilitation - 3 - Credits
SHS5900 - Independent Study - 1 - 6 Credits
SHS5905 - Special Topics in Communicative Disorders - 1 - 3 Credits
SHS5950 - Cooperative Education Experience - 1 - 3 Credits
SHS5960 - Clinical Experience: Speech-Language Pathology Assistant - 3 - Credits
SHS6020 - Language Assessment and Intervention for School-Age Children and Adolescents - 3 - Credits
SHS6030 - Disorders of Fluency-Stuttering - 3 - Credits
SHS6050 - Professional Practice in Speech-Language Pathology - 1 - 2 Credits
SHS6100 - Advanced Clinical Practicum in Speech-Language Pathology - 1 - 4 Credits
SHS6120 - Adult Language Disorders - 3 - Credits
SHS6130 - Motor Speech Disorders - 3 - Credits
SHS6140 - Dysphagia - 1 - 3 Credits
SHS6150 - Phonological Assessments and Intervention - 3 - Credits
SHS6200 - Internship in Public Schools-Speech-Language Pathology - 1 - 5 Credits
SHS6220 - Severe Communication Impairments - 1 - 3 Credits
SHS6230 - Introduction to Research in Communicative Disorders - 3 - Credits
SHS6250 - Birth to Five Language Intervention - 3 - Credits
SHS6300 - Externship in Speech-Language Pathology - 1 - 12 Credits
SHS6320 - Language Learning and Literacy Acquisition in Children with Hearing Loss - 3 - Credits
SHS6340 - Foundations of Listening and Spoken Language - 3 - Credits
SHS6350 - Early Elementary and Itinerant Support for Children who are DHH using LSL - 3 - Credits
SHS6360 - LSL Preschool Curriculum: Language and Cognition - 3 - Credits
SHS6400 - Medical Externship in Speech-Language Pathology - 1 - 12 Credits

SHS6560 - Speech and Language Assessment and Intervention for Children Who are Deaf or Hard of Hearing - 3 - Credits
SHS6580 - Family Centered Practices for Children who are Deaf, Hard of Hearing (DHH) - 3 - Credits
SHS6700 - Practicum in Education of Children who are Deaf and Hard of Hearing - 1 - 3 Credits
SHS6715 - Listening and Spoken Language Practicum Workshop - 1 - Credits
SHS6720 - Interdisciplinary Implementation of IDEA - 2 - Credits
SHS6730 - Multiple Disabilities and Differentiated Instruction - 2 - Credits
SHS6770 - Audiology and Teachers of Children who are Deaf and Hard of Hearing - 1 - 3 Credits
SHS6850 - Seminar in Communicative Disorders and Deaf Education - 1 - 3 Credits
SHS6880 - Listening and Spoken Language Deaf Education Student Teaching - 6 - 12 Credits
SHS6900 - Independent Study - 1 - 9 Credits
SHS6905 - Special Topics in Communicative Disorders - 1 - 3 Credits
SHS6930 - Comprehensive Examination in Speech-Language Pathology - 1 - Credits
SHS6970 - Thesis - 1 - 7 Credits
SHS6990 - Continuing Graduate Advisement - 1 - 9 Credits
SHS7000 - Implementation Science Seminar - 1 - Credits
SHS7050 - Introduction to the Field of Audiology - 1 - Credits
SHS7100 - Acoustics - 1 - Credits
SHS7200 - Introduction to Clinical Practice - 1 - 4 Credits
SHS7240 - Anatomy and Physiology - 3 - Credits
SHS7250 - Pediatric Audiology Practicum for the Listening and Spoken Language Emphasis - 1 - 9 Credits
SHS7300 - Intermediate Clinical Practicum - 1 - 9 Credits
SHS7310 - Psychoacoustics - 2 - Credits
SHS7320 - Amplification I - 3 - Credits
SHS7340 - Pediatric Audiology - 2 - 3 Credits
SHS7360 - Pediatric Amplification - 1 - 3 Credits
SHS7380 - Advanced Audiology - 3 - Credits
SHS7400 - Advanced Clinical Practicum - 1 - 9 Credits
SHS7410 - Noise and Hearing Conservation - 1 - 3 Credits
SHS7420 - Amplification II - 3 - Credits
SHS7430 - Electrophysiology - 3 - Credits
SHS7450 - Counseling for Audiological Care - 3 - Credits
SHS7460 - Aural Rehabilitation Across the Lifespan - 3 - Credits
SHS7490 - Medical Aspects of Audiology - 3 - Credits
SHS7510 - Supervision in Speech and Hearing Sciences - 2 - Credits
SHS7520 - Introduction to Cochlear Implants - 2 - 3 Credits
SHS7530 - Balance Evaluation and Management - 3 - Credits
SHS7710 - Evidence-Based Practice in Audiology - 3 - Credits
SHS7730 - Advanced Topics in Audiology - 3 - Credits
SHS7740 - Research in Audiology - 3 - Credits
SHS7800 - Clinical Externship in Audiology - 1 - 9 Credits
SHS7820 - Clinical Research in Audiology - 1 - Credits
SHS7830 - Special Topics in Speech-Language Pathology - 3 - Credits
SHS7840 - Journal Reading Group in Speech-Language Pathology - 1 - Credits
SHS7860 - Practice Management in Audiology - 1 - Credits
SHS7870 - Clinical Research Project - 1 - 6 Credits
SHS7880 - Research Methods in Audiology - 3 - Credits
SHS7890 - Journal Reading - Audiology - 1 - Credits
SHS7900 - Independent Study - 1 - 2 Credits
SHS7910 - Independent Research - 1 - 2 Credits
SHS7920 - Preliminary Exam - 1 - Credits
SHS7930 - Comprehensive Exam - 1 - Credits
SHS7990 - Continuing Graduate Advisement - 1 - 9 Credits

Technology, Design & Technical Ed Department

Technology, Design and Technical Education

Interim Co-Department Heads: Keith Christensen and Zak Konakis

Keith Christensen
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Phone: 435-797-0507
Email: keith.christensen@usu.edu

Zak Konakis
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Email: zak.konakis@usu.edu

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Undergraduate Academic Advisors:

Logan - Lisa Hunsaker, AGRS 414, lisa.hunsaker@usu.edu, appointments: caas.usu.edu/advising or call (435) 797-2282

Logan - Barbara Baird, AGRS 413, Barbara.baird@usu.edu, appointments: caas.usu.edu/advising or call (435) 797-2282

Logan & Brigham City - JessicaTami DeceusterSpackman, AGRS 411A & Brigham City Campus C202419, jessicatami.deceuster@ususpackman@usu.edu, appointments: caas.usu.edu/advising or call (435) 797-2282

Brigham City - Amanda Peterson, (435) 919-1228, mandi.peterson@usu.edu, appointments: caas.usu.edu/advising or call (435) 797-2282

Kaysville - Melissa Thomas, (435) 919-1262, melissa.thomas@usu.edu, appointments: caas.usu.edu/advising or call (435) 797-2282

Price - DanyanBrinley PowellBradley, (435) 613-53515298, danyanbrinley.powell@usubradley@usu.edu, appointments: caas.usu.edu/advising or call (435) 797-2282

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Price- Dean McGuire, (435) 613-5286, dean.mcguire@usu.edu, appointments: caas.usu.edu/advising or call (435) 797-2282

Blanding - Heidi Swenson, (435) 678-8115, heidi.swenson@usu.edu, appointments: caas.usu.edu/advising or call (435) 797-2282

Blanding - Marla Palmares Ruiz, (435) 678-8221, marla.palomaresruiz@usuruiz@usu.edu, appointments: caas.usu.edu/advising or call (435) 797-2282

Overview

The Department of Technology, Design, and Technical Education Department provides instruction to students seeking a certificate, an associate, and/or a baccalaureate degree. Our programs are career-focused and allow students to gain expertise in the fields of business skills, health professions, outdoor product design and development, and trades and technology.

The Department of Technology, Design, and Technical Education has faculty members located in Logan, Brigham City, and the USU-Eastern campuses in Price, Moab, and Blanding. Students are encouraged to enhance their education through hands-on applications using specialized classrooms and laboratories throughout the state. The department embraces technology and accessibility and offers many classes and several programs with some online options. Additionally, various industries and communities are served by career and technical certifications offered through Workforce Education programs.

Full details of the learning objectives, assessment plan, student outcomes, and evidence of continuous improvement for these programs of study can be found at caas.usu.edu/tdte/assessment.

Undergraduate Programs

Mission Statement

Our mission is to provide introduction, discovery, and mastery of skills as they relate to business skills, health professions, outdoor product design and development, and trades and technology. Working together, we cultivate the professionals of tomorrow by using proven educational processes, which include formal and informal instruction, experiential learning, leadership, and personal development at the certificate, associate degree, bachelor's degree, and community-based levels, including stackable credentials.

The department brings enthusiasm to the mission of Utah State University in supporting student-centered instruction. We believe in teaching students to be contributing members of their communities and societies.

Requirements

Admission Requirements

Admission requirements for the Department of Technology, Design, and Technical Education are the same as those described for the university for incoming freshmen and most transfer students. Technical Education programs in the Southeast are recognized as open enrollment and do not require a minimum high school GPA or ACT/SAT score for admission. See individual program listings and advisors for additional information and requirements.

University Honors Program

The University Honors Program offers students in all colleges and majors the unique opportunity to deepen their educational experience with hands-on practical applications of their academic knowledge. The Honors Program admits incoming, transfer, and existing USU students based on application. High-achieving students with at least one year remaining are encouraged to apply. See the University Honors Program catalog entry and website (honors.usu.edu) for more information.

Additional Information

For further information about undergraduate programs and requirements, visit the following website: tdte.usu.edu

For further information about stackable credential options, visit the following website: caas.usu.edu/tdte/programs/cte

FACULTY - College of Agriculture and Applied Sciences

Programs

Additive and Advanced Manufacturing Process - Certificate
Automotive Technology - AAS
Diesel and Heavy Equipment Mechanics - AAS
Welding Technology - AAS
Accounting Practices - Technical Certificate
Additive Manufacturing - Technical Certificate

Agricultural Science - AS
Airframe Maintenance - Technical Certificate
Apprentice Electrician - Technical Certificate
Automated Manufacturing - Technical Certificate
Automotive Technology - Technical Certificate
Basic Corrections Officer - Technical Certificate
Business - AB
Business - Technical Certificate
Construction Technology and Management - Technical Certificate
Commercial Driver's License (CDL) - Class A - Technical Certificate
Medical Assistant - Technical Certificate
Construction Fundamentals - Technical Certificate
Cosmetology - AAS
Cosmetology - Technical Certificate
Cybersecurity - Certificate
Diesel Technology - Technical Certificate
Digital Design - Technical Certificate
Drafting Design - Technical Certificate
Engineering Drafting and Design Technology - Technical Certificate
Emergency Medical Technician - Technical Certificate
Engineering Technology - AAS
Engineering Technology - BAS
Food Production Management - Certificate
Heavy Equipment Operator - Technical Certificate
Heating, Ventilation, Air Conditioning, and Refrigeration Technician - Technical Certificate
Information and Computer Technology - Certificate
Instruments and Controls (for Powerplant) - Technical Certificate
Industrial Mechanics/Maintenance - Technical Certificate
Information Technology - Technical Certificate
IT Support and Web Development - AAS
Law Enforcement Officer - Technical Certificate
Manufacturing and Design Technology - Certificate
Machining Technology - Technical Certificate
Nail Technician - Technical Certificate
Networking and Cybersecurity - Technical Certificate
Nursing Assistant - Technical Certificate
Outdoor Product Design and Development - BS
Phlebotomy Technician - Technical Certificate
Product Development - Certificate
Pharmacy Technician - Technical Certificate
Plumbing Apprenticeship - Technical Certificate
Powerplant Maintenance - Technical Certificate
Peace Officer Standards Training (POST) - Technical Certificate
Professional Bookkeeping - Technical Certificate
Welding Technology - Technical Certificate (formerly Certificate of Proficiency)
Quality and Reliability - Institutional Certificate of Proficiency
Software Development - Technical Certificate
Special Function Officer - Technical Certificate
Surgical Technology - AAS
Technology and Design - AAS
Technology and Design: Health Sciences Emphasis - AAS
Technology and Design: Design and Creative Arts Emphasis - AAS
Technology and Design: General Business Emphasis - AAS
Technology and Design: Technology Systems Emphasis - AAS
Technology Systems - BS
Technology Systems: Computer Technology Emphasis - BS
Technology Systems: Manufacturing Emphasis - BS
Technology Systems: Technical Management Emphasis - BS
Unmanned Aircraft Systems - Technical Certificate
Veterinary Assisting - Technical Certificate
Web Business - Technical Certificate
Welding Technology - Technical Certificate

Courses

APPR2301 - Electrical Apprentice 1-A - 5 - Credits
APPR2302 - Electrical Apprentice 1-B - 5 - Credits
APPR2303 - Electrical Apprentice 2-A - 5 - Credits
APPR2304 - Electrical Apprentice 2-B - 5 - Credits

APPR2310 - Electrical Apprentice 3-A - 5 - Credits
APPR2320 - Electrical Apprentice 3-B - 5 - Credits
APPR2410 - Electrical Apprentice 4-A - 5 - Credits
APPR2420 - Electrical Apprentice 4-B - 5 - Credits
APPR2988 - Special Problems - 1 - 3 Credits
AUTO1000 - Introduction to Transportation Technology I - 2 - Credits
AUTO1010 - Introduction to Transportation Technology II - 5 - Credits
AUTO1020 - Vehicle Maintenance - 3 - Credits
AUTO1030 - Small Engine Repair - 3 - Credits
AUTO1100 - Engine Repair Theory - 3 - Credits
AUTO1105 - Engine Repair Lab - 3 - Credits
AUTO1200 - Automatic Transmission/Transaxle Theory - 3 - Credits
AUTO1205 - Automatic Transmission/Transaxle Lab - 2 - Credits
AUTO1300 - Manual Drive Train and Axle Theory - 3 - Credits
AUTO1305 - Manual Drive Train and Axle Lab - 2 - Credits
AUTO1400 - Suspension and Steering Theory - 3 - Credits
AUTO1405 - Suspension and Steering Lab - 3 - Credits
AUTO1500 - Brakes - Theory - 3 - Credits
AUTO1505 - Brakes - Lab - 2 - Credits
AUTO1550 - Professional Vocational Leadership (VICA) - 1 - Credits
AUTO1600 - Electrical and Electronics I Theory - 3 - Credits
AUTO1605 - Electrical and Electronics I Lab - 3 - Credits
AUTO1800 - Engine Performance I Theory - 3 - Credits
AUTO1805 - Engine Performance I Lab - 3 - Credits
AUTO2600 - Electrical and Electronics II Theory - 3 - Credits
AUTO2605 - Electrical and Electronics II Lab - 2 - Credits
AUTO2700 - Heating and Air Conditioning Theory - 3 - Credits
AUTO2705 - Heating and Air Conditioning Lab - 2 - Credits
AUTO2800 - Engine Performance II Theory - 3 - Credits
AUTO2805 - Engine Performance II Lab - 2 - Credits
AUTO2977 - Internship Education Experiences - 1 - 3 Credits
AUTO2988 - Special Problems - 1 - 3 Credits
BCCM1010 - Building Construction Safety - 1 - Credits
BCCM1150 - Basic Print Reading - 2 - Credits
BCCM1250 - Carpentry Concepts - 4 - Credits
BCCM2010 - Framing I - 2 - Credits
BCCM2015 - Masonry I - 2 - Credits
BCCM2020 - Interior Masonry I - 2 - Credits
BCCM2030 - Framing II - 2 - Credits
BCCM2080 - Concrete I - 2 - Credits
BCCM2090 - Concrete II - 2 - Credits
BCCM2100 - Interior Finish I - 2 - Credits
BCCM2110 - Interior Finish II - 2 - Credits
BCCM2120 - Building Site Layout - 2 - Credits
BCCM2125 - Basic Cabinet Making and Millwork - 3 - Credits
BCCM2130 - Finish Lab - 2 - Credits
BCCM2170 - Exterior Finish I - 2 - Credits
BCCM2180 - Exterior Finish II - 2 - Credits
BCCM2200 - Construction Management - 3 - Credits
BCCM2230 - Construction Management Lab I - 3 - Credits
BCCM2240 - Construction Estimating - 3 - Credits
BCCM2250 - Construction Management Lab II - 3 - Credits
BCCM2270 - Building Codes and Inspections - 2 - Credits
BCCM2320 - Plumbing Maintenance I - 2 - Credits
BCCM2340 - Heating, Ventilating, and Air Conditioning Maintenance (HVAC) I - 2 - Credits
BCCM2350 - Electrical Maintenance I - 2 - Credits
BCCM2500 - Specialty Construction Lab - 2 - Credits
BCCM2600 - Contractor Preparation - 2 - Credits
BCCM2977 - Cooperative Education - 1 - 3 Credits
BCCM2988 - Special Problems - 1 - 3 Credits
BCIS1000 - Introduction to Computer Science - 3 - Credits
BCIS1040 - Introduction to Programming - 3 - Credits
BCIS1050 - Career and Workplace Relations - 1 - Credits
BCIS1081 - Introduction to Mobile Application Development - 3 - Credits
BCIS1100 - Introduction to Networking - 1 - Credits
BCIS1200 - Introduction to Operating Systems - 2 - Credits
BCIS1250 - A+ Core 1 - 3 - Credits
BCIS1260 - A+ Core 2 - 3 - Credits
BCIS1300 - Website Design - 3 - Credits
BCIS1310 - Digital Image Basics - 2 - Credits
BCIS1320 - Linux Foundations - 2 - Credits
BCIS1340 - Digital Video Production - 3 - Credits
BCIS1350 - Interactive Web Design - 3 - Credits
BCIS1500 - Introduction to Scripting - 1 - Credits
BCIS1540 - Introduction to Cloud - 2 - Credits
BCIS1550 - Introduction to Python - 3 - Credits
BCIS2010 - Business Computer Applications - 3 - Credits
BCIS2210 - Linux + - 3 - Credits
BCIS2300 - Web Programming - 3 - Credits
BCIS2330 - Business Data Communications and Networking - 3 - Credits
BCIS2340 - Introduction to Multimedia Authoring - 3 - Credits
BCIS2345 - Multimedia Authoring - 2 - Credits
BCIS2346 - Multimedia Authoring Lab - 2 - Credits
BCIS2441 - Photoshop - 3 - Credits
BCIS2500 - Web Business - 3 - Credits
BCIS2631 - Network+ - 4 - Credits
BCIS2632 - Computer Repair, A+ - 3 - Credits
BCIS2650 - Information Security Fundamentals - 2 - Credits
BCIS2651 - Cybersecurity/Security+ - 4 - Credits
BCIS2652 - Intro to Cloud Security - 3 - Credits
BCIS2653 - Network Intrusion Detection and Control - 2 - Credits
BCIS2654 - Disaster Recovery - 3 - Credits
BCIS2655 - Computer Forensics - 2 - Credits
BCIS2977 - Internship - 1 - 3 Credits
BCIS2988 - Special Problems - 1 - 3 Credits
BCIS2999 - Workshop - 1 - 3 Credits
BHIS1010 - Medical Coding Theory I - 3 - Credits
BHIS1015 - Medical Coding Applications I - 1 - Credits
BHIS1020 - Medical Coding Theory II - 3 - Credits
BHIS1025 - Medical Coding Applications II - 1 - Credits
BHIS2010 - Advanced E/M Coding - 3 - Credits
BHIS2015 - Virtual Medical Coding for E/M - 1 - Credits
BHIS2020 - Advanced Topics in Medical Coding - 3 - Credits
BHIS2025 - Virtual Medical Coding for Advanced Topics - 1 - Credits
BHIS2030 - Advanced ICD-9-CM Coding II - 1 - Credits
BHIS2035 - Advanced ICD-9-CM Coding II - 1 - Credits
BHIS2040 - Medical Coding Health Care Specialties - 1 - Credits
BHIS2988 - Special Problems - 1 - 3 Credits
BHIS2999 - Workshop - 1 - 3 Credits
BUSN1010 - Business Principles (BSS) - 3 - Credits
BUSN1020 - Digital Literacy - 2 - Credits
BUSN1021 - Personal Finance - 3 - Credits
BUSN1050 - Business Mathematics - 3 - Credits
BUSN1091 - Business Presentations - 2 - Credits
BUSN1111 - Accounting Principles - 3 - Credits
BUSN1310 - Introduction to Business Management - 2 - Credits
BUSN1400 - Introduction to Hospitality Management - 3 - Credits
BUSN1405 - Word Processing - 2 - Credits
BUSN1410 - Spreadsheet (Excel) - 2 - Credits
BUSN1500 - Business Leadership Club - 1 - Credits
BUSN2010 - Financial Accounting - 4 - Credits
BUSN2020 - Managerial Accounting - 4 - Credits
BUSN2050 - Business Law - 3 - Credits
BUSN2100 - Business English - 4 - Credits
BUSN2151 - Income Tax Preparation - 2 - Credits
BUSN2160 - Introduction to Business Finance - 3 - Credits
BUSN2200 - Professional Communications - 3 - Credits
BUSN2201 - Digital Marketing Concepts - 3 - Credits
BUSN2202 - International Marketing - 3 - Credits
BUSN2211 - Introduction to Advertising - 2 - Credits
BUSN2241 - Retail Merchandising - 2 - Credits
BUSN2251 - Consumer Behavior - 3 - Credits
BUSN2320 - Small Business Management - CTE - 3 - Credits

BUSN2321 - Small Business Management - 2 - Credits
BUSN2390 - Organizational Behavior - 3 - Credits
BUSN2420 - Database (Access) - 3 - Credits
BUSN2430 - Desktop Publishing - 2 - Credits
BUSN2451 - Travel and Tourism - 2 - Credits
BUSN2590 - Business Ethics and Social Responsibility - 2 - Credits
BUSN2600 - Business Consulting - 1 - 3 Credits
BUSN2620 - Digital Marketing - 3 - Credits
BUSN2700 - Business Forum - 1 - Credits
BUSN2710 - Entrepreneurial Mindset - 3 - Credits
BUSN2720 - Introduction to Project Management - 3 - Credits
BUSN2800 - Computerized Accounting - 3 - Credits
BUSN2977 - Internship Education Experiences - 1 - 3 Credits
BUSN2988 - Special Problems - 1 - 3 Credits
BUSN2999 - Workshop - 1 - 3 Credits
COST1000 - Nail Technician Foundations - 1 - Credits
COST1100 - Cosmetology Theory I - 5 - Credits
COST1110 - Cosmetology Lab I - 6 - 10 Credits
COST1200 - Cosmetology Theory II - 5 - Credits
COST1210 - Cosmetology Lab II - 6 - 10 Credits
COST1300 - Introduction to Barbering - 5 - Credits
COST1310 - Introduction to Barbering Lab - 10 - Credits
COST1400 - Intermediate Barbering - 5 - Credits
COST1407 - Nail Technician I - 3 - Credits
COST1410 - Intermediate Barbering Lab - 10 - Credits
COST1500 - Professional Vocational Leadership (VICA) - 1 - Credits
COST1507 - Nail Technician II - 3 - Credits
COST1602 - Nail Technician Clinicals I - 2 - Credits
COST2300 - Intermediate Cosmetology Theory I - 5 - Credits
COST2310 - Intermediate Cosmetology Lab I - 6 - 10 Credits
COST2400 - Intermediate Cosmetology Theory - 5 - Credits
COST2410 - Intermediate Cosmetology Lab - 6 - 10 Credits
COST2500 - Advanced Cosmetology Theory - 5 - Credits
COST2510 - Advanced Cosmetology Lab - 5 - 10 Credits
COST2600 - Eyelash Technology - 3 - Credits
COST2610 - Spray Tanning - 1 - Credits
COST2620 - Body Waxing - 1 - Credits
COST2700 - Student Instructor - 1 - 15 Credits
COST2800 - Nail Technician - 9 - Credits
COST2977 - Internship Experience - 3 - Credits
COST2988 - Special Problems - 1 - 3 Credits
DSME1000 - Introduction to Transportation Technology I - 2 - Credits
DSME1110 - Diesel Engine Overhaul Theory - 4 - Credits
DSME1130 - Diesel Engine Overhaul Lab - 4 - Credits
DSME1310 - Fluid Power Theory - 4 - Credits
DSME1330 - Fluid Power Lab - 4 - Credits
DSME1340 - Mobile Electrical and Electronics Theory - 5 - Credits
DSME1360 - Mobile Electrical and Electronics Lab - 3 - Credits
DSME1500 - Professional Vocational Leadership (VICA) - 1 - Credits
DSME2210 - Advanced Diesel Engine Theory - 5 - Credits
DSME2230 - Advanced Diesel Engine Lab - 5 - Credits
DSME2410 - Heavy Duty Chassis and Power Train Theory - 5 - Credits
DSME2430 - Heavy Duty Chassis and Power Train Lab - 5 - Credits
DSME2440 - Mobile Air Conditioning Theory - 2 - Credits
DSME2460 - Mobile Air Conditioning Lab - 1 - Credits
DSME2977 - Internship Education Experiences - 1 - 3 Credits
DSME2988 - Special Problems - 1 - 3 Credits
EDDT1010 - Technical Drafting - 4 - Credits
EDDT1040 - CAD Level I: Intro to CAD - 3 - Credits
EDDT1070 - CAD Level II: Intro to 3-D - 3 - Credits
EDDT1100 - Residential Architectural Drafting - 3 - Credits
EDDT1200 - 3D Modeling - 3 - Credits
EDDT1500 - Introduction to Geographic Information Systems - 3 - Credits
EDDT1700 - Additive Manufacturing Processes I - 3 - Credits
EDDT2100 - Commercial Architectural Drafting - 3 - Credits
EDDT2500 - Introduction to Global Positioning Systems - 3 - Credits
EDDT2620 - 3-D Modeling Advanced - 3 - Credits
EDDT2650 - Mechanical Blueprint Reading - 2 - Credits
EDDT2700 - Additive Manufacturing Processes II - 3 - Credits
EDDT2750 - Architectural Revit - 3 - Credits
EDDT2977 - Internship Education Experiences - 1 - 3 Credits
EDDT2988 - Special Problems - 1 - 3 Credits
ELET1010 - Introduction to Manufacturing - 3 - Credits
ELET1110 - Technical Mathematics - 3 - Credits
ELET1120 - Computer Tools for Technology - 3 - Credits
ELET1130 - Circuit Analysis - 3 - Credits
ELET1140 - Circuit Analysis Lab - 2 - Credits
ELET1150 - Digital Systems Theory - 4 - Credits
ELET1160 - Digital Systems Lab - 1 - Credits
ELET1170 - Electronic Devices and Circuits - 3 - Credits
ELET1180 - Electronic Devices and Circuits Lab - 1 - Credits
ELET1200 - Motor Controls - 4 - Credits
ELET1210 - Motor Controls Lab - 2 - Credits
ELET2110 - Micro Systems - 3 - Credits
ELET2120 - Micro Systems Lab - 2 - Credits
ELET2130 - Communication Systems - 3 - Credits
ELET2140 - Communication Systems lab - 1 - Credits
ELET2150 - Industrial Instrumentation Systems - 3 - Credits
ELET2160 - Industrial Instrumentation Systems Lab - 1 - Credits
ELET2200 - Industrial Mechanics II - 3 - Credits
ELET2210 - Advanced PLC's - 3 - Credits
ELET2220 - Advanced PLC's Lab - 1 - Credits
ELET2230 - Communication Systems II - 3 - Credits
ELET2240 - Communication Systems II Lab - 1 - Credits
ELET2250 - Industrial Control Systems - 6 - Credits
ELET2260 - Industrial Control Systems Lab - 1 - Credits
ELET2270 - Principles of Robotics - 3 - Credits
ELET2280 - Principles of Robotics Lab - 2 - Credits
ELET2330 - Telecom Mediums - 3 - Credits
ELET2340 - Telecom Mediums Lab - 1 - Credits
ELET2510 - Telecom Systems - 3 - Credits
ELET2520 - Telecom Systems Lab - 1 - Credits
ELET2977 - Cooperative Education - 1 - 3 Credits
ELET2988 - Special Problems - 1 - 3 Credits
ETEC1000 - Introduction to Engineering Technology - 1 - Credits
ETEC1010 - Engineering Technology Principles - 3 - Credits
ETEC1100 - Chemistry for Engineering Technology - 3 - Credits
ETEC1500 - Applied Physics for Technologists - 3 - Credits
ETEC2020 - Introduction to Automation - 3 - Credits
ETEC2200 - Engineering Technology Communications - 3 - Credits
ETEC2300 - Introduction to Electronics - 4 - Credits
ETEC2310 - Electronics Systems - 3 - Credits
ETEC3010 - Materials Sciences for Engineering Technology - 3 - Credits
ETEC3020 - Energy Systems - 3 - Credits
ETEC3130 - Manufacturing and Quality Systems - 3 - Credits
ETEC3850 - Statics and Strengths of Materials - 3 - Credits
ETEC4200 - Professional Communication and Documentation for Engineering Technology - 3 - Credits
ETEC4900 - Senior Capstone I - 3 - Credits
ETEC4910 - Senior Capstone II - 3 - Credits
HEAL1006 - Health Careers Exploration - 2 - Credits
HEAL1008 - Medical Terminology - 2 - Credits
HEAL1030 - Medical Assistant: Administrative Competencies - 4 - Credits
HEAL1035 - Medical Assistant: Administrative Competencies Lab - 3 - Credits
HEAL1110 - Pharmacology for Health Professions - 3 - Credits
HEAL1500 - Anatomy and Physiology (BLS) - 4 - Credits
HEAL1600 - Medical Assistant: Clinical Competencies - 6 - Credits
HEAL1700 - Medical Assistant Externship I - 1 - Credits
HEAL1701 - Medical Assistant Externship II - 3 - Credits
HEAL1900 - Diseases of the Human Body - 3 - Credits
HEAL2000 - Global Health Practitioner Outreach Program - 3 - Credits
HEAL2020 - Emergency First Response - 3 - Credits
HEAL2977 - Cooperative Education - 1 - 3 Credits
HEAL3000 - Global Health Professions and Services - 3 - Credits

HETR1610 - General Maintenance - 4 - Credits
HETR1620 - Front End Loader Operation - 2 - Credits
HETR1630 - Tractor Loader Backhoe Operation - 2 - Credits
HETR1640 - Hydraulic Excavator Operation - 2 - Credits
HETR1650 - Motor Grader Operation - 2 - Credits
HETR1660 - Dozer Operation - 2 - Credits
HETR1670 - Fork Lift Operation - 2 - Credits
HETR2750 - Advanced Trailering Techniques - 2 - Credits
HETR2760 - Dump and Trailering - 2 - Credits
HETR2770 - Laws and Regulations - 4 - Credits
HETR2780 - Maintenance - 3 - Credits
HETR2790 - Behind the Wheel - 6 - Credits
HETR2977 - Internship Education Experiences - 1 - 3 Credits
HETR2988 - Special Problems - 1 - 3 Credits
MACH1010 - Machine Tool Technology I - 3 - Credits
MACH1020 - Machine Tool Technology II - 3 - Credits
MACH1030 - Machine Tool Technology III - 3 - Credits
MACH1040 - Machine Tool Technology IV - 3 - Credits
MACH1050 - Machine Tool Technology V - 3 - Credits
MACH1110 - Manufacturing Fundamentals - 3 - Credits
MACH1120 - Process Control - 3 - Credits
MACH1130 - Mill Concepts - 3 - Credits
MACH1140 - Engine Machining Theory - 2 - Credits
MACH1150 - Advanced Print Reading - 3 - Credits
MACH1160 - Engine Machining Lab - 2 - Credits
MACH1170 - Computer Numerical Control (CNC) Lathe Concepts - 3 - Credits
MACH1190 - Computer Numerical Control (CNC) Lathe Programming - 3 - Credits
MACH1200 - Introduction to Computer-Numeric Control Machining - 3 - Credits
MACH1240 - Lathe Concepts - 3 - Credits
MACH1260 - Computer Numerical Control (CNC) Mill Concepts - 3 - Credits
MACH2977 - Internship Education Experiences - 1 - 3 Credits
MACH2988 - Special Problems - 1 - 3 Credits
MINT2210 - Initial Electrical (80 hour) - 6 - Credits
MINT2460 - EMT Recertification or First Responder - 1 - 3 Credits
MINT2988 - Special Problems - 1 - 3 Credits
MLT1010 - Introduction to Medical Laboratory - 3 - Credits
MLT2230 - Urinalysis and Other Body Fluids - 4 - Credits
MLT2240 - Hematology - 6 - Credits
MLT2270 - Immunology/Serology - 3 - Credits
MLT2280 - Immunohematology - 5 - Credits
MLT2430 - Clinical Chemistry I - 3 - Credits
MLT2450 - Clinical Chemistry II - 4 - Credits
MLT2550 - Practicum in Medical Technology - 3 - Credits
MLT2570 - Clinical Microbiology I - 5 - Credits
MLT2580 - Clinical Microbiology II - 5 - Credits
OPDD1000 - Product Concept Sketching - 3 - Credits
OPDD1010 - Introduction to Digital Visualization - 3 - Credits
OPDD1050 - Fundamentals of Design - 3 - Credits
OPDD1100 - Introduction to Product Creation - 3 - Credits
OPDD1750 - History of Outdoor Products (BHU) - 3 - Credits
OPDD2000 - From Insight to Innovation: Design Research Foundations - 3 - Credits
OPDD2010 - Form Development - 3 - Credits
OPDD2050 - Intermediate Soft Goods Gear Construction & Development - 3 - Credits
OPDD2420 - Digital Technologies for 2-D Design - 3 - Credits
OPDD2430 - Digital Technologies for 3-D Design - 3 - Credits
OPDD2710 - Outdoor Product Design& Development Professional Seminar - 1 - Credits
OPDD3030 - Design Thinking, Methods, and Materials (CI) - 3 - Credits
OPDD3400 - Color Theory & Design - 3 - Credits
OPDD3500 - Applied Material Science - 3 - Credits
OPDD3600 - Sustainable Design and Operations - 3 - Credits
OPDD3700 - Outdoor Product Design & Development Professional Seminar II - 1 - Credits
OPDD3760 - Outdoor Product Design and Development Studio I - 3 - Credits
OPDD3770 - Outdoor Product Design and Development Studio II - 3 - Credits
OPDD3800 - Advanced Digital Visualization - 3 - Credits
OPDD3810 - Performance Wear - 3 - Credits
OPDD3820 - Equipment Design - 3 - Credits
OPDD3900 - Special Problems in Outdoor Product Design and Development - 1 - 6 Credits
OPDD4040 - Outdoor Product Testing & Research - 3 - Credits
OPDD4240 - Advanced Gear Design - 3 - Credits
OPDD4250 - Outdoor Product Design and Development Industry Experience - 1 - 6 Credits
OPDD4440 - Aesthetics and Brand Identity - 3 - Credits
OPDD4510 - Footwear Concepts - 3 - Credits
OPDD4750 - Senior Design Studio I - 3 - Credits
OPDD4760 - Senior Design Studio II - 3 - Credits
OPDD4770 - Senior Exhibit - 1 - Credits
OPDD4900 - Senior Project Research and Creative Opportunity - 3 - Credits
OPDDCRSE - Outdoor Product Design and Development Course - 3 - Credits
OPDDTECH - OPDD Technical Elective - 3 - Credits
OSS1050 - Bookkeeping Essentials - 3 - Credits
OSS1060 - Introduction to Personal Financial Planning - 1 - 3 Credits
OSS1110 - Keyboarding - 2 - Credits
OSS1400 - Microcomputer Applications - 3 - Credits
OSS1410 - Special Topics - 1 - 3 Credits
OSS1420 - Word Processing Applications - 3 - Credits
OSS1450 - Financial Software for Small Business Applications - 3 - Credits
OSS1550 - Business Correspondence - 3 - Credits
OSS2300 - Data Communications and Networking - 3 - Credits
OSS2400 - Web Design Applications - 3 - Credits
OSS2450 - Spreadsheets and Databases - 3 - Credits
OSS2500 - Visual Basic Applications - 3 - Credits
OSS2520 - Integrating Office Technology - 3 - Credits
OSS2600 - Office Procedures - 3 - Credits
OSS2800 - Principles of Selling - 2 - Credits
SLSC1010 - New Student Orientation - 1 - Credits
SLSC1030 - International Student Orientation - 1 - Credits
SLSC1110 - Leadership Perspectives - 1 - 3 Credits
SLSC1120 - Leadership Perspectives - 2 - Credits
SLSC1130 - Leadership Perspectives - 2 - Credits
SLSC1140 - Leadership Perspectives - 2 - Credits
SLSC1150 - College Student Affairs - 1 - Credits
SLSC1300 - Tutoring Training - 1 - Credits
SLSC1800 - Leadership in Civic Engagement - 2 - Credits
SURG1030 - Surgical Technology I - 6 - Credits
SURG1035 - Surgical Technology Lab I - 4 - Credits
SURG1040 - Surgical Technology II - 6 - Credits
SURG1045 - Surgical Technology Lab II - 2 - Credits
SURG1050 - Surgical Technology III - 6 - Credits
SURG1055 - Surgical Technology III Laboratory - 2 - Credits
SURG1060 - Surgical Technology IV - 6 - Credits
SURG1065 - Surgical Technology IV Lab - 2 - Credits
SURG1600 - Surgical Technology Clinical Competencies I - 2 - Credits
SURG1700 - Surgical Technology Clinical Competencies II - 4 - Credits
SURG1800 - Surgical Technology III Clinical Competency - 6 - Credits
SURG1900 - Surgical Technology IV Clinical Competency Externship - 6 - Credits
TEAC1010 - Introduction to Air Conditioning, Heating, and Refrigeration - 3 - Credits
TEAC1100 - Heating, Ventilation, Air Conditioning, Refrigeration (HVACR) Electrical Essentials - 3 - Credits
TEAC1120 - Heating Systems - 3 - Credits
TEAC1140 - Basic Refrigeration Systems - 3 - Credits
TEAC1160 - Basic Installation Skills - 3 - Credits
TEAC1280 - Rocky Mountain Gas Association Gas Technician Certification - 2 - Credits
TEAC1500 - Carbon Steel Piping Practices and Refrigerant Certification - 3 - Credits
TEAC1510 - Air Distribution Systems - 3 - Credits
TEAM1010 - Essential Skills and Safety in Automation Technology - 3 - Credits

TEAM1020 - Pneumatics - 2 - Credits
TEAM1030 - Hydraulics - 2 - Credits
TEAM1040 - Industrial Mechanics - 3 - Credits
TEAM1050 - Electrical Systems - 2 - Credits
TEAM1060 - Motor Controls - 3 - Credits
TEAM1070 - Programmable Logic Controllers - 4 - Credits
TEAM1080 - Applied System Diagnostics - 2 - Credits
TEAM1100 - Electric Motors and Drives - 1 - Credits
TEAM1110 - Introduction to Industrial Robotics - 2 - Credits
TEAM1300 - Building Control Panels - 3 - Credits
TEAM1500 - Instrumentation Process Control - 3 - Credits
TEAM2000 - Programmable Logic Controllers II - 3 - Credits
TEAU1060 - Safety and Introduction to Automotive Service - 4 - Credits
TEAU1100 - Engine Repair - 3 - Credits
TEAU1200 - Automatic Transmissions - 4 - Credits
TEAU1300 - Manual Drivetrain and Axles - 4 - Credits
TEAU1400 - Suspension and Steering - 4 - Credits
TEAU1500 - Brakes - 4 - Credits
TEAU1600 - Electrical I - 4 - Credits
TEAU1700 - Heating, Ventilation, and Air Conditioning - 3 - Credits
TEAU1800 - Engine Performance I - 4 - Credits
TEAU2600 - Electrical II - 4 - Credits
TEAU2800 - Engine Performance II - 4 - Credits
TEAV1000 - Technical Mathematics - 3 - Credits
TEAV1010 - Circuit Analysis - 3 - Credits
TEAV1020 - Circuit Analysis Lab - 2 - Credits
TEAV1130 - Flight Principles - 3 - Credits
TEAV1140 - Aircraft Components and Principles - 2 - Credits
TEAV1170 - Aircraft Structures - 3 - Credits
TEAV1240 - Aircraft Maintenance - 3 - Credits
TEAV2100 - Aircraft Reciprocating Powerplants and Accessories - 3 - Credits
TEAV2110 - Aircraft Reciprocating Powerplants and Accessories Lab - 3 - Credits
TEAV2140 - Aircraft Turbine Powerplants Maintenance Operations - 3 - Credits
TEAV2150 - Aircraft Turbine Powerplant Maintenance Operations Lab - 3 - Credits
TEAV2170 - Aircraft Systems - 3 - Credits
TEAV2180 - Aircraft Hydraulic and Pneumatic Systems - 3 - Credits
TEAV2200 - Composite Manufacturing and Repair - 3 - Credits
TEAV2420 - FAA Regulations, Records, and Certification - 2 - Credits
TEAV2430 - Aircraft Electrical Systems and Components - 2 - Credits
TEAV2440 - Aircraft Electrical Systems and Components Lab - 2 - Credits
TEBP1000 - Basic Financial Principles - 3 - Credits
TEBP1005 - Business Mathematics - 3 - Credits
TEBP1100 - Digital Literacy - 2 - Credits
TEBP1130 - Word Processing - 2 - Credits
TEBP1140 - Spreadsheets - 2 - Credits
TEBP1150 - Presentations - 2 - Credits
TEBP1200 - Professionalism - 3 - Credits
TEBP1300 - Accounting I - 2 - Credits
TEBP1350 - Computerized Accounting - 3 - Credits
TEBP1500 - Business English - 1 - Credits
TEBP1550 - Business Communications - 3 - Credits
TEBP1650 - Management Principles - 2 - Credits
TEBP1700 - Marketing I - 3 - Credits
TEBP1840 - Business Productivity - 3 - Credits
TEBP2000 - Introduction to Entrepreneurship - 3 - Credits
TEBP2300 - Accounting II - 2 - Credits
TEBP2320 - Accounting III - 2 - Credits
TEBP2999 - Business Externship - 1 - 3 Credits
TECD1100 - Commercial Driver's License Class A - 6 - Credits
TECD1110 - Advanced Trailering Techniques - 2 - Credits
TECD1120 - Dump and Trailering - 2 - Credits
TECD1130 - Maintenance - 2 - Credits
TECD1150 - Commercial Driver's License Class B - 3 - Credits
TECD1200 - Advanced Driving Techniques - 1 - 3 Credits
TECD1210 - Hazmat for CDL - 1 - Credits
TECD1220 - School Bus/Passenger Bus Endorsement - 2 - Credits
TECD1230 - Industry Safety Certifications - 2 - Credits
TECD1240 - Air Brake Adjustment Certification - 1 - Credits
TECE1000 - Industrial Networking Basics - 1 - Credits
TECE1050 - Vision System Basics - 1 - Credits
TECE1100 - Programmable Logic Controllers 2 - 3 - Credits
TECE1150 - Human Machine Interface (HMI) Programming - 2 - Credits
TECE1200 - Industrial Networking Lab - 2 - Credits
TECE1250 - Servo Motors and Drives - 1 - Credits
TECE1300 - Programmable Logic Controllers 3 - 3 - Credits
TECE1320 - Vision Systems Advanced - 1 - Credits
TECE1420 - Programmable Logic Controller Platforms - 1 - Credits
TECE1440 - Human Machine Interface Platforms - 1 - Credits
TECE1460 - Robot Platforms - 1 - Credits
TECE1480 - Vision Platforms - 1 - Credits
TECE1500 - FANUC Basic Programming - 1 - Credits
TECE1550 - FANUC ROBOGUIDE Simulation Software - 2 - Credits
TECE1620 - Robot Vision and Safety - 1 - Credits
TECE1700 - FANUC Advanced Programming - 1 - Credits
TECE1750 - Manufacturing Analytics - 2 - Credits
TECE1800 - Integration Capstone - 4 - Credits
TECO1010 - Introduction to Carpentry - 2 - Credits
TECO1020 - Carpentry Concepts - 4 - Credits
TECO1030 - Construction Print Reading - 3 - Credits
TECO1040 - Advanced Carpentry Concepts - 4 - Credits
TECO1050 - Interior Finishes - 4 - Credits
TECO1060 - Exterior Finishes - 4 - Credits
TECO1100 - Construction Estimating - 3 - Credits
TECO1600 - Building Site Layout - 2 - Credits
TECO1610 - Specialty Construction Lab - 2 - Credits
TECO1620 - Masonry - 2 - Credits
TECO1700 - Heating, Ventilation, and Air Conditioning (HVAC) Maintenance - 2 - Credits
TECO1710 - Plumbing Maintenance - 2 - Credits
TECO1720 - Electrical Maintenance - 2 - Credits
TECO1730 - Electronic and Technical Maintenance for Buildings - 3 - Credits
TECO1740 - Interior and Exterior Building Maintenance - 4 - Credits
TECO1750 - Pool and Spa Maintenance - 1 - Credits
TECS1005 - Design Basics - 3 - Credits
TECS1010 - Cosmetology, Barbering, and Hair Design Basics - 4 - Credits
TECS1020 - Barbering Basics - 2 - Credits
TECS1030 - Cosmetology and Hair Design Chemical Services Basics - 3 - Credits
TECS1040 - Esthetics and Nail Basics - 2 - Credits
TECS1050 - Cosmetology and Barbering Intermediate Theory and Practice - 3 - Credits
TECS1060 - Professional Development and Industry, State Laws, and Specific Continuing Education - 3 - Credits
TECS1070 - Advanced Training and Skills - 3 - Credits
TECS1080 - Esthetics Basics - 2 - Credits
TECS1090 - Nails Basics - 2 - Credits
TECS2310 - Progressive Training and Skills II - 3 - Credits
TECS2320 - Progressive Training and Skills III - 3 - Credits
TECS2510 - Cosmetology Skills Lab - 5 - Credits
TECS2900 - Cosmetology/Barbering Clinical I - 3 - Credits
TECS2910 - Cosmetology/Barbering Clinical II - 3 - Credits
TECS2920 - Cosmetology/Barbering Clinical III - 3 - Credits
TECS2930 - Cosmetology/Barbering Clinical IV - 3 - Credits
TECS2941 - Cosmetology and Barbering Salon Clinical V - 3 - Credits
TECS2952 - Cosmetology/Barbering Salon Clinical VI - 3 - Credits
TECT1050 - Career and Workplace Relations - 1 - Credits
TECT1100 - Introduction to Networking - 1 - Credits
TECT1200 - A+ Core 1 - 3 - Credits
TECT1210 - A+ Core 2 - 3 - Credits
TECT1300 - Linux Foundations - 2 - Credits
TECT1310 - Website Design - 3 - Credits
TECT1340 - Digital Video Production - 3 - Credits
TECT1350 - Interactive Web Design - 3 - Credits
TECT1400 - Introduction to Cloud - 2 - Credits

TECT1500 - Introduction to Scripting - 1 - Credits
TECT2100 - Computer Networks - 4 - Credits
TECT2200 - Security + - 4 - Credits
TECT2300 - Linux + - 3 - Credits
TECT2441 - Photoshop - 3 - Credits
TECT2500 - Web Business - 3 - Credits
TECT2977 - Internship - 1 - 3 Credits
TEDG1010 - Beginning Graphic Design - 3 - Credits
TEDG1110 - Intermediate Graphic Design - 4 - Credits
TEDG1210 - Advanced Graphic Design - 4 - Credits
TEDG1220 - Motion Design - 4 - Credits
TEDG1230 - Interactive Design - 4 - Credits
TEDG1300 - Audio/Video Editing - 3 - Credits
TEDG1320 - Image Editing - 3 - Credits
TEDG1400 - Social Media and Marketing - 3 - Credits
TEDG1410 - Illustration and Animation Fundamentals - 4 - Credits
TEDG1420 - Web Essentials - 3 - Credits
TEDG1430 - UX Design - 4 - Credits
TEDG1500 - Professional Development - 4 - Credits
TEDM1010 - Introduction to Marketing - 2 - Credits
TEDM1020 - Marketing Design - 2 - Credits
TEDM1030 - Content Marketing and Marketing Analytics - 4 - Credits
TEDM1040 - Email Marketing - 2 - Credits
TEDM1050 - Search Engine Optimization - 2 - Credits
TEDM1060 - Digital Advertising - 3 - Credits
TEDM1070 - Social Media Marketing - 3 - Credits
TEDM1080 - Advanced Digital Marketing - 2 - Credits
TEDR1000 - Technical Drafting - 4 - Credits
TEDR1003 - Career and Workplace Relations - 1 - Credits
TEDR1010 - Advanced Technical Drafting - 3 - Credits
TEDR1015 - Applied Technical Math - 1 - Credits
TEDR1100 - Residential Drafting - 3 - Credits
TEDR1110 - Introduction to Building Information Modeling - 3 - Credits
TEDR1130 - Commercial Drafting - 3 - Credits
TEDR1200 - Parametric Solid Modeling - 3 - Credits
TEDR1220 - Production Drafting - 4 - Credits
TEDR1300 - Civil Drafting - 3 - Credits
TEDR1500 - Construction Site Planning - 2 - Credits
TEDR1510 - Construction Materials, Methods, and Design - 3 - Credits
TEDR1520 - Advanced Design Concepts - 3 - Credits
TEDR1530 - Design for Manufacturing - 3 - Credits
TEDR1540 - Manufacturing Principles - 2 - Credits
TEDR2200 - Advanced Solid Modeling - 3 - Credits
TEDR2800 - Capstone Project - 3 - Credits
TEDT1010 - Introduction to Diesel Technology - 2 - Credits
TEDT1100 - Electrical I - 4 - Credits
TEDT1110 - Electrical II - 4 - Credits
TEDT1200 - Steering and Suspension - 4 - Credits
TEDT1300 - Brakes - 4 - Credits
TEDT1400 - Drivetrain - 4 - Credits
TEDT1500 - Preventative Maintenance I - 1 - Credits
TEDT1600 - Engines I - 4 - Credits
TEDT1610 - Engines II - 3 - Credits
TEDT1700 - Hydraulics - 2 - Credits
TEDT1800 - Heating, Ventilation, and Air Conditioning (HVAC) - 3 - Credits
TEE4320 - Advanced Applications in Woods and Composites - 3 - Credits
TEEL1110 - Electrician Apprentice IA - 3 - Credits
TEEL1120 - Electrician Apprenticeship IB - 3 - Credits
TEEL1210 - Electrician Apprentice IIA - 3 - Credits
TEEL1220 - Electrician Apprentice IIB - 3 - Credits
TEEL1310 - Electrician Apprentice IIIA - 3 - Credits
TEEL1320 - Electrician Apprentice IIIB - 3 - Credits
TEEL1410 - Electrician Apprentice IVA - 3 - Credits
TEEL1420 - Electrician Apprentice IVB - 3 - Credits
TEEM1011 - Emergency Medical Technician - 6 - Credits
TEHE1010 - Heavy Equipment Introduction/Basics - 2 - Credits
TEHE1050 - Skid Steer/Compact Loader Operation - 2 - Credits
TEHE1100 - Hydraulic Excavator Operation - 2 - Credits
TEHE1150 - Backhoe (Tractor Loader Backhoe) Operation - 2 - Credits
TEHE1200 - Front End Loader Operation - 2 - Credits
TEHE1250 - Dozer Operation - 2 - Credits
TEHE1300 - Road Grader Operation - 2 - Credits
TEHE1400 - Forklift Operation - 1 - Credits
TEHE1500 - Worksite Planning for Operators - 1 - Credits
TEHE1600 - Aerial Boom Lift/Scissor Lift Operation - 2 - Credits
TEIT1041 - Introduction to Programming - 3 - Credits
TEIT1050 - Career and Workplace Relations - 1 - Credits
TEIT1091 - Introduction to Mobile Application Development - 3 - Credits
TEIT1100 - Introduction to Networking - 1 - Credits
TEIT1170 - Computer Networks I - 2 - Credits
TEIT1200 - A+ Core 1 - 3 - Credits
TEIT1210 - A+ Core 2 - 3 - Credits
TEIT1300 - Linux Foundations - 2 - Credits
TEIT1310 - Website Design - 3 - Credits
TEIT1340 - Digital Video Production - 3 - Credits
TEIT1400 - Introduction to Cloud - 2 - Credits
TEIT1500 - Introduction to Scripting - 1 - Credits
TEIT1550 - Practical Python - 3 - Credits
TEIT1800 - Certification Test Prep I - 1 - Credits
TEIT1810 - Certification Test Prep II - 1 - Credits
TEIT1820 - Certification Test Prep III - 1 - Credits
TEIT1830 - Certification Test Prep IV - 1 - Credits
TEIT1840 - Certification Test Prep V - 1 - Credits
TEIT1850 - Certification Test Prep VI - 1 - Credits
TEIT2100 - Computer Networks - 4 - Credits
TEIT2170 - Computer Networks II - 3 - Credits
TEIT2200 - Security + - 4 - Credits
TEIT2300 - Linux + - 3 - Credits
TEIT2441 - Photoshop - 3 - Credits
TEIT2500 - Web Business - 3 - Credits
TEIT2977 - Internship - 1 - 3 Credits
TEIT2988 - Special Problems - 1 - 3 Credits
TELE1010 - Special Function Officer - 9 - Credits
TELE1020 - Basic Corrections Officer - 5 - Credits
TELE1030 - Law Enforcement Officer - 12 - Credits
TEMA1010 - Introduction to Medical Assisting - 2 - Credits
TEMA1020 - Medical Office I - 2 - Credits
TEMA1030 - Medical Office II - 2 - Credits
TEMA1040 - Anatomy and Physiology - 4 - Credits
TEMA1050 - Pharmacology - 3 - Credits
TEMA1060 - Clinical Procedures - 2 - Credits
TEMA1080 - Medical Terminology - 2 - Credits
TEMA1095 - Emergency First Response - 3 - Credits
TEMA1450 - Preparation for Workforce Entry - 1 - Credits
TEMA1700 - Phlebotomy I - 2 - Credits
TEMA1710 - Phlebotomy II - 1 - Credits
TEMA1900 - Medical Assistant Externship I - 2 - Credits
TEMA1910 - Medical Assistant Externship II - 2 - Credits
TEMT1000 - Manufacturing Fundamentals - 3 - Credits
TEMT1005 - Machining for Manufacturing Trades - 3 - Credits
TEMT1100 - Mill Concepts - 3 - Credits
TEMT1150 - Computer-Numeric Control (CNC) Mill Concepts - 3 - Credits
TEMT1200 - Lathe Concepts - 3 - Credits
TEMT1250 - Computer-Numeric Control (CNC) Lathe Concepts - 3 - Credits
TEMT1300 - Computer Numerical Control (CNC) Mill Programming - 3 - Credits
TEMT1350 - Computer-Numeric Control (CNC) Lathe Programming - 3 - Credits
TEMT1400 - Intro to Computer-Numeric Control (CNC) Machining - 3 - Credits
TEMT1565 - Advanced Print Reading - 3 - Credits
TEMT1600 - Introduction to Manual Machining - 3 - Credits
TEMT2000 - Process Control - 3 - Credits
TEMT2300 - Multi-Axis - 3 - Credits
TENA1100 - Nursing Assistant - 3 - Credits
TENT1110 - Nail Technician I - 4 - Credits
TENT1200 - Nail Technician II Clinical - 2 - Credits

TENT1700 - Nail Technician Business and Skill Application - 3 - Credits
TEPH1010 - Phlebotomy I - 2 - Credits
TEPH1020 - Phlebotomy II - 1 - Credits
TEPL1110 - Plumbing I A - 3 - Credits
TEPL1120 - Plumbing I B - 3 - Credits
TEPL1210 - Plumbing II A - 3 - Credits
TEPL1220 - Plumbing II B - 3 - Credits
TEPL1310 - Plumbing IIIA - 3 - Credits
TEPL1320 - Plumbing IIIB - 3 - Credits
TEPL1410 - Plumbing IVA - 3 - Credits
TEPL1420 - Plumbing IVB - 3 - Credits
TEPT1010 - Introduction to Pharmacy - 3 - Credits
TEPT1100 - Community Pharmacy Practice - 3 - Credits
TEPT1110 - Institutional Pharmacy Practice - 3 - Credits
TEPT1320 - Pharmacology - 3 - Credits
TEPT1620 - Pharmacy Technician National Exam and State Licensure Readiness - 1 - Credits
TEPT1900 - Pharmacy Technician Externship - 4 - Credits
TERT1020 - Radiography Anatomy and Procedures - 3 - Credits
TERT1030 - Radiographic Imaging and Exposure Techniques - 3 - Credits
TERT1050 - Patient Care - 1 - Credits
TERT1070 - Radiography Clinicals I - 6 - Credits
TERT1110 - Radiology Physics - 1 - Credits
TERT1120 - Radiography Anatomy and Procedures II - 3 - Credits
TERT1130 - Radiographic Imaging II - 2 - Credits
TERT1140 - Radiation Protection and Radiobiology - 1 - Credits
TERT1170 - Radiography Clinicals II - 6 - Credits
TERT2010 - Rad and Pediatric Pathology - 1 - Credits
TERT2020 - Radiography Anatomy and Procedures III - 2 - Credits
TERT2030 - Alternate Modality and Sectional Anatomy - 2 - Credits
TERT2070 - Radiography Clinicals III - 6 - Credits
TERT2150 - Registry Review - 3 - Credits
TERT2170 - Radiography Clinicals IV - 2 - Credits
TESY1000 - Introduction to Technology and Design - 2 - Credits
TESY1020 - Energy, Power, Transportation Systems Control Technology - 3 - Credits
TESY1030 - Material Processing Systems - 3 - Credits
TESY1200 - Computer-Aided Drafting and Design - 3 - Credits
TESY2200 - Intermediate CAD - 3 - Credits
TESY2250 - Occupational Experience in General Technology - 1 - 6 Credits
TESY2940 - Related Industry Experience and Credential - 1 - 12 Credits
TESY3000 - Hazard Recognition & Control - 3 - Credits
TESY3020 - Strategic Human Skills Development (CI) - 3 - Credits
TESY3030 - Computer-Integrated Manufacturing Systems - 3 - Credits
TESY3040 - Design for Additive Manufacturing - 3 - Credits
TESY3200 - Additive Manufacturing I - 3 - Credits
TESY3210 - Additive Manufacturing II - 3 - Credits
TESY3270 - Advanced Computer-Aided Drafting - 3 - Credits
TESY3300 - Electronic Systems and Programming (QI) - 3 - Credits
TESY3900 - Independent Study in Technology Systems - 1 - 6 Credits
TESY4000 - Technology Systems Seminar - 1 - Credits
TESY4230 - Advanced Materials and Processing Systems - 3 - Credits
TESY4250 - Internship in Technology Systems - 1 - 12 Credits
TESY4300 - Intellectual Property for Product Developers - 3 - Credits
TESY4330 - Product Innovation Processes, Tools, and Strategies - 3 - Credits
TESY4410 - Industrial Automation and Networking - 3 - Credits
TESY4420 - Industrial Robotics - 3 - Credits
TESY4430 - Advanced Programmable Logic Controllers - 3 - Credits
TESY4440 - Machine Vision and Inspection - 3 - Credits
TESY4450 - Human Machine Interface - 3 - Credits
TESY4500 - Quality Management Systems - 3 - Credits
TESY4510 - Quality Root Cause Analysis Methods and Applications - 3 - Credits
TESY4520 - Statistical Quality Control w/SPC - 3 - Credits
TESY4530 - Principles of Lean Manufacturing - 3 - Credits
TESY4540 - Quality Management Systems II - 3 - Credits
TESY4720 - IT Management - 3 - Credits
TESY4730 - Cloud Computing Architecture - 3 - Credits
TESY4750 - Network Administration - 3 - Credits
TESY4760 - Information Technology Management - 3 - Credits
TESY4770 - Database Administration - 3 - Credits
TESY4810 - Computer Server Defense - 3 - Credits
TESY4820 - Penetration Testing - 3 - Credits
TESY4830 - Network Defense and Traffic Analysis - 3 - Credits
TESY4840 - Security and Digital Forensics - 3 - Credits
TESY4850 - Scripting for IT and Cybersecurity - 3 - Credits
TESY4900 - Senior Project in Technology Systems - 1 - 6 Credits
TESY4940 - Related Occupational/Industrial Experience - 1 - 12 Credits
TESY5910 - Special Problems in Technology Systems - 1 - 6 Credits
TESYLWR - - 3 - Credits
TESYUPPR - - 3 - Credits
TEUA1011 - Unmanned Aircraft Systems Remote Pilot - 3 - Credits
TEUA1021 - Unmanned Aircraft Systems Part 107 Test - 1 - Credits
TEUA1201 - Unmanned Aircraft Systems Introduction to Fixed-Wings - 3 - Credits
TEUA1301 - Unmanned Aircraft Systems Introduction to Multirotor - 3 - Credits
TEUA1501 - Introduction to Unmanned Aircraft Systems Maintenance and Components - 3 - Credits
TEUA2041 - Aviation Meteorology - 3 - Credits
TEUA2051 - Unmanned Aircraft Systems Pilot in Command - 3 - Credits
TEUA2101 - Unmanned Aircraft Systems Flight Patterns and Maneuvers - 3 - Credits
TEUA2651 - Drones for Hire - 3 - Credits
TEUA2701 - Unmanned Aircraft Systems Introduction to Aerial Photography - 3 - Credits
TEVA1011 - Introduction to Veterinary Assisting - 2 - Credits
TEVA1111 - Patient Management and Nutrition - 3 - Credits
TEVA1201 - Vet Assist Clinical Sciences - 1 - Credits
TEVA1301 - Vet Assisting Applications - 1 - Credits
TEVA1401 - Emergency Critical Care/End of Life - 1 - Credits
TEVA1501 - Clinical Procedures I - 1 - Credits
TEVA1502 - Clinical Procedures II - 2 - Credits
TEVA1503 - Clinical Procedures III - 3 - Credits
TEVA2999 - Clinical Externship - 4 - Credits
TEWG1010 - Introduction to Web and Graphic Design - 3 - Credits
TEWG1020 - Raster Graphics - 3 - Credits
TEWG1030 - Vector Graphics - 3 - Credits
TEWG1040 - Responsive Web Design I - 3 - Credits
TEWG1050 - Responsive Web Design II - 3 - Credits
TEWG1060 - Introduction to User Experiences (UX) and User Interface (UI) - 3 - Credits
TEWG1070 - Content Management Systems - 3 - Credits
TEWG1100 - Typography - 2 - Credits
TEWG1110 - Digital Publishing - 3 - Credits
TEWG1130 - Digital Video I - 3 - Credits
TEWG1140 - Digital Video II - 3 - Credits
TEWG1150 - eMarketing for Designers - 3 - Credits
TEWG1170 - JavaScript Fundamentals - 3 - Credits
TEWG1180 - Modern JavaScript - 3 - Credits
TEWG1200 - Design Fundamentals - 2 - Credits
TEWG1210 - Introduction to JavaScript - 3 - Credits
TEWG1220 - Web Animation - 3 - Credits
TEWT1000 - Introduction to Welding and Cutting - 2 - Credits
TEWT1005 - Welding Overview - 3 - Credits
TEWT1008 - Welding for Manufacturing - 2 - Credits
TEWT1010 - Measurement Systems - 1 - Credits
TEWT1020 - Welding Symbols and Print Reading - 2 - Credits
TEWT1075 - Weld Inspection - 3 - Credits
TEWT1080 - Welding Metallurgy - 3 - Credits
TEWT1105 - Welding Qualifications - 3 - Credits
TEWT1111 - Shielded Metal Arc Welding (SMAW) I - 2 - Credits
TEWT1112 - Shielded Metal Arc Welding (SMAW) II - 2 - Credits
TEWT1140 - Shielded Metal Arc Welding (SMAW) Theory - 2 - Credits
TEWT1211 - Gas Tungsten Arc Welding (GTAW) I - 2 - Credits
TEWT1212 - Gas Tungsten Arc Welding (GTAW) II - 2 - Credits

TEWT1240 - Gas Tungsten Arc Welding (GTAW) Theory - 2 - Credits
TEWT1311 - Gas Metal Arc Welding (GMAW) I - 2 - Credits
TEWT1312 - Gas Metal Arc Welding (GMAW) II - 2 - Credits
TEWT1340 - Gas Metal Arc Welding (GMAW) and Flux-Cored Arc Welding (FCAW) Theory - 2 - Credits
TEWT1411 - Flux Cored Arc Welding (FCAW) I - 2 - Credits
TEWT1412 - Flux Cored Arc Welding (FCAW) II - 2 - Credits
TEWT1650 - Practical Fabrication and Layout - 5 - Credits
TEWT1730 - Professional Vocational Leadership - 2 - Credits
TEWT1815 - Welding Sculpture - 3 - Credits
WELD1010 - Beginning Arc Welding - 3 - Credits
WELD1100 - Shielded Metal Arc Welding (SMAW) - 5 - Credits
WELD1110 - Advanced Shielded Metal Arc Welding (SMAW) - 5 - Credits
WELD1120 - Beginning Gas Metal Arc Welding (GMAW) and Flux Cored Arc Welding (FCAW) - 5 - Credits
WELD1130 - Advanced Gas Metal Arc Welding (GMAW) and Flux Cored Arc Welding (FCAW) - 5 - Credits
WELD1140 - Related Welding Processes - 5 - Credits
WELD1150 - Beginning Gas Tungsten Arc Welding (GTAW) - 5 - Credits
WELD1160 - Advanced Gas Tungsten Arc Welding (GTAW) - 5 - Credits
WELD1170 - Advanced Pipe Welding - 7 - Credits
WELD1500 - Professional Vocational Leadership - 1 - Credits
WELD1550 - Weld Sculpture - 3 - Credits
WELD2400 - Print Reading for Welders - 3 - Credits
WELD2410 - Practical Fabrication and Layout - 5 - Credits
WELD2500 - Weld Inspection - 3 - Credits
WELD2600 - Metallurgy - 3 - Credits
WELD2977 - Internship Experience - 3 - Credits
WELD2988 - Special Problems - 1 - 3 Credits

Theatre Arts Department

Theatre Arts

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General Department Inquiries: theatre@usu.edu
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Undergraduate Advisors: Angela Neff, (435) 797-9751, angela.neff@usu.edu

BA and General Theatre Studies Minor: Jayne Gold, University Reserve 113, (435) 797-1855, jayne.gold@usu.edu

BFA Degree Acting Emphasis: Leslie Brott, Fine Arts Center 139C, (435) 797-3139, leslie.brott@usu.edu

BFA Degree Theatre Design and Technology Emphasis: Brent Innes, Fine Arts Center, 151D, brent.innes@usu.edu

BFA Degree Theatre Education Emphasis: Amanda Dawson, University Reserve 125, (435) 797-3103, amanda.dawson@usu.edu

MFA Degree: Joshua Legate, Program Director,Fine Arts Center, 151C, joshua.legate@usu.edu

Graduate Program Coordinator (GPC): Amy Critchfield, Fine Arts Center 152C, (435) 797-3049, amy.critchfield@usu.edu

Degrees offered: Bachelor of Arts (BA), Bachelor of Fine Arts (BFA), Master of Fine Arts (MFA)

Undergraduate programs: *BA*—General Theatre Arts Studies; *BFA*—Students choose an emphasis in Acting; Theatre Design and Technology, which offers options in costume design, lighting design, technical production or scenic design; or Theatre Education.

Graduate specializations: *MFA*—Design (scenery, costume, lighting)

Full details of the learning objectives, assessment plan, student outcomes, and evidence of continuous improvement for these programs of study can be found at theatre.usu.edu/assessment.

Mission

The Department of Theatre Arts supports the missions of Utah State University and the Caine School of the Arts by cultivating artistic and academic excellence, by contributing to the cultural enrichment of the university and surrounding communities through live theatre production, and by fostering respect for the arts through advocacy and professionalism.

We assist undergraduate and graduate theatre students in acquiring and developing the tools they need in order to succeed in their future pursuits by:

- Giving them a foundation based on a broad theoretical and working knowledge of the theatre.
- Providing advanced training in their chosen area of concentration.
- Offering performance and production activities that provide students with practical experience in their chosen field while challenging them to engage in a complex and diverse world.

Talented, well-trained students who are committed to the art of theatre and its potential to heighten intellectual, cultural, and humane sensibilities are essential to the fulfillment of our mission.

Production Groups and Theatres

The Department of Theatre Arts sponsors the following production groups and divisions: Utah State Theatre (UST) and the Lyric Repertory Company (Lyric Rep), a professional summer repertory theatre company. Facilities used for performances by these groups include the 700-seat thrust stage Morgan Theatre in the Chase Fine Arts Center, the 360-seat proscenium Caine Lyric Theatre in downtown Logan, and a flexible 90-seat Black Box. Facilities also include a costume shop, scene shop, design studio, dance and movement laboratory, and prop and costume storage areas.

Admission Requirements

Admission into the Department of Theatre Arts is limited and requires a minimum 2.75 overall GPA, application to USU, an audition or portfolio review, and interview with department program area faculty. Acceptance is competitive and not guaranteed. Audition and interview dates for new students are not automatic and will be scheduled by faculty (as needed) upon receipt of all require supporting materials and USU application referral from the Admissions Office. Auditions and interviews can be either in person or virtual, and are also held at regional theatre conferences and festivals. Students are encouraged to apply by December 1 for admission consideration for the following year. Contact the Department of Theatre Arts for more information or visit our website (www.theatre.usu.edu) for more information.

Retention Requirements

Most programs of study require theatre students to maintain an overall minimum 2.75 GPA. Courses within the required theatre programs must have a B- grade or better to count towards graduation. Theatre Education students must maintain an overall minimum 3.0 GPA. With the exception of practicum, theatre courses may not be taken on a pass/fail basis. All theatre students are required to enroll in practicum and attend required production strikes each semester. Other departmental and program retention requirements are outlined in the Theatre Student Handbook located on the Department website: http://theatre.usu.edu.

Degree Roadmaps

Advising sheets, which provide detailed information about requirements for the undergraduate degree programs within the Department of Theatre Arts, including sample semester-by-semester four-year plans, are available in the department office.

Students should consult with their advisor before registering for classes each semester to ensure they are following their program of study and meeting requirements.

Production Responsibilities

Production and practicum assignments provide students with a variety of opportunities to gain practical experience in the various theatre disciplines. They are not voluntary, nor in any sense extra-curricular. Practical production work is required and an essential part of a well-rounded professional theatre training. Successful completion of production assignments is a requirement for graduation.

Financial Support

Scholarships, grants, and work-study opportunities are available through the university. Contact Financial Aid for information. The department offers a small number of scholarship opportunities to full time theatre majors who have completed their first year of study through yearly departmental application. Visit USU's scholarship page for more information on applying for scholarships.

University Honors Program

The University Honors Program offers students in all colleges and majors the unique opportunity to deepen their educational experience with hands-on practical applications of their academic knowledge. The Honors Program admits incoming, transfer, and existing USU students based on application. High achieving students with at least one year remaining are encouraged to apply. See the University Honors Program catalog entry and website (honors.usu.edu) for more information.

Graduate Programs

Admission Requirements

Students applying to the MFA program are encouraged to have their applications in by December 1. Students who cannot interview with a member of the theatre arts faculty must submit a resume and a portfolio with renderings, designs, photographs appropriate to the specialization, and any special letters of reference not included with the formal application to the School of Graduate Studies, to the Department of Theatre Arts.

Students who have received their undergraduate training at other institutions, or in a discipline other than theatre, will be expected to meet a proficiency equivalent to that of USU Theatre Arts graduates. This may require the student to complete undergraduate level courses as deemed appropriate by the graduate student's committee, with a minimum accepted grade of B-, which will not count toward the graduate degree, and is not covered by assistantships. The student will be given credit for any equivalent courses taken within seven years prior to the date of admission.

Students accepted into the program must begin during the fall semester. The nature of the discipline and the program require that students maintain a continuous residence at the campus during the first two years of study.

Financial Assistance

Graduate Students are not guaranteed financial assistance during their initial year of residence. Teaching and general assistantships are awarded by the department, and are renewable for up to three years.

Additional Information

For more detailed information about individual MFA design specializations, contact the Department of Theatre Arts Graduate Advisor: joshua.legate@usu.edu

College of Arts and Sciences Faculty

Programs

General Theatre Studies - Minor
Theatre Arts: Acting - BFA
Theatre Arts - BA
Theatre Arts - MFA
Theatre Arts: Musical Theatre - BFA
Theatre Arts: Theatre Education - BFA
Theatre Arts Teaching - Minor

Courses

DANC1010 - Dance in Culture (BCA) - 3 - Credits
DANC1100 - Ballet I - 1 - Credits
DANC1200 - Modern Dance I - 1 - Credits
DANC1210 - Ballet II - 1 - Credits
DANC1220 - Beginning Pointe - 1 - Credits
DANC1240 - Musical Theatre Movement - 1 - Credits
DANC1500 - Jazz Dance I - 1 - Credits
DANC1520 - Folk/Cultural Dance - 1 - Credits
DANC1580 - Tap I - 1 - Credits
DANC2200 - Pointe and Variations - 1 - Credits
DANC2210 - Basic Partnering - 1 - Credits
DANC2220 - Modern Dance II - 1 - Credits
DANC2240 - Ballet III - 1 - Credits
DANC2260 - Dance Composition - 1 - 2 Credits
DANC2310 - Dance Ensemble - 1 - 2 Credits
DANC2800 - Dance Production - 1 - 3 Credits
DANC2977 - Cooperative Education - 1 - 3 Credits
DANC2988 - Special Problems - 1 - 3 Credits
DANC2999 - Workshop - 1 - 3 Credits
THEA1000 - Acting I: Introduction to Acting (BCA) - 3 - Credits
THEA1010 - Acting II: Audition Preparation - 2 - Credits
THEA1013 - Understanding Theatre (BCA) - 3 - Credits
THEA1023 - Introduction to Film (BCA) - 3 - Credits
THEA1033 - Beginning Acting (BCA) - 3 - Credits
THEA1113 - Voice for Actors I - 2 - Credits
THEA1210 - Movement for Actors - 2 - Credits
THEA1310 - Theatre Education Seminar - 1 - Credits
THEA1513 - Stagecraft (BCA) - 3 - Credits
THEA1713 - Playscript Analysis (BHU) - 3 - Credits
THEA2000 - Acting III: Scene Study-Text as Action - 3 - Credits
THEA2010 - Acting IV: Shakespeare - 3 - Credits
THEA2100 - Voice for ActorsII: Speech and IPA - 3 - Credits
THEA2110 - Voice for Actors III: Dialects - 2 - Credits
THEA2200 - Ballet - 2 - Credits
THEA2203 - Costume Construction and Technology - 3 - Credits
THEA2210 - Jazz Dance I - 2 - Credits
THEA2220 - Ballet II - 2 - Credits
THEA2370 - Applied Theatre - 3 - Credits
THEA2403 - Stage Management - 3 - Credits
THEA2500 - Drafting for Theatre I - 3 - Credits
THEA2510 - Scene Painting - 3 - Credits
THEA2520 - Costume Design I - 3 - Credits
THEA2530 - Theatre and Studio Sound - 3 - Credits
THEA2540 - Lighting Design I - 3 - Credits
THEA2555 - Production Practicum - 1 - Credits
THEA2560 - Scene Design I - 3 - Credits
THEA2570 - Theatre Props & Crafts - 3 - Credits
THEA2575 - Production Projects - 1 - Credits
THEA2580 - Costume Construction and Technology II - 3 - Credits
THEA2610 - Directing I - 3 - Credits
THEA3000 - Acting V: Acting for Musical Theatre - 3 - Credits
THEA3010 - Acting VI: Classical Comedy - 3 - Credits
THEA3030 - Acting VII: Contemporary Playwrights - 3 - Credits
THEA3100 - Voice for Actors IV: Vocal Challenges/Voice Over/Microphone Technique - 2 - Credits
THEA3200 - Stage Combat - 2 - Credits
THEA3210 - Musical Theatre Dance I - 2 - Credits
THEA3220 - Jazz Dance II - 2 - Credits
THEA3240 - Musical Theatre Dance II - 2 - Credits
THEA3300 - Clinical Experience in Teaching I - 1 - Credits
THEA3320 - Movement Exploration for Elementary Education Majors - 3 - Credits
THEA3330 - Drama for Classroom Teachers - 3 - Credits
THEA3340 - Methods of Teaching Drama, Grades K-6 - 3 - Credits
THEA3390 - Drama in the Community - 3 - Credits
THEA3440 - Musical Theatre Workshop I - 3 - Credits
THEA3500 - Drafting for Theatre II - 3 - Credits
THEA3550 - Advanced Stage Management - 3 - Credits
THEA3560 - Period Styles/Historic Interiors (DHA) - 3 - Credits
THEA3570 - Historic Clothing (DHA) - 3 - Credits
THEA3580 - Software for Theatre Production Design - 3 - Credits
THEA3610 - Directing I - 3 - Credits
THEA3710 - Theatre History and Literature I (DHA)(CI) - 3 - Credits
THEA3720 - Theatre History and Literature II (CI/DHA) - 3 - Credits
THEA4000 - Acting VIII: Acting for the Camera - 3 - Credits
THEA4010 - Acting IX - Modern Masters: Chekhov/Ibsen/Shaw - 3 - Credits
THEA4020 - Acting X-Modern American Masters: O'Neill, Williams, and Miller - 3 - Credits
THEA4200 - Period and Social Dance - 2 - Credits
THEA4210 - Musical Theatre Dance III - 2 - Credits
THEA4300 - Clinical Experience in Teaching II - 1 - Credits
THEA4340 - Methods of Teaching Theatre, Grades 7-12 - 3 - Credits
THEA4350 - Theatre for Young Audiences - 3 - Credits
THEA4360 - Play Production in Secondary Schools - 2 - Credits
THEA4440 - Musical Theatre Workshop II - 3 - Credits
THEA4450 - Musical Theatre Workshop III - 3 - Credits
THEA4520 - Costume Design II - 3 - Credits
THEA4540 - Lighting Design II - 3 - Credits
THEA4550 - Theatre Leadership and Management - 3 - Credits
THEA4555 - Production Assignments - 2 - Credits
THEA4560 - Scene Design II - 3 - Credits
THEA4710 - Contemporary Theatre (CI/DHA) - 3 - Credits
THEA4720 - Musical Theatre History and Literature: Roots through the Golden Age - 3 - Credits
THEA4730 - Musical Theatre History and Literature II: New Directions - 3 - Credits
THEA4760 - Playwriting - 3 - Credits
THEA4820 - Company Workshop - 3 - Credits
THEA4860 - Playwriting Workshop - 3 - Credits
THEA5390 - Student Teaching Seminar - 2 - Credits
THEA5550 - Rendering and Painting for Theatre Design - 3 - Credits
THEA5590 - Design Studies for Theatre - 2 - Credits
THEA5610 - Directing II - 3 - Credits
THEA5630 - Student Teaching in Secondary Schools - 10 - Credits
THEA5631 - Student Teaching in Secondary Schools Out of State - 10 - Credits
THEA5720 - Special Topics in Theatre History and Literature - 3 - Credits
THEA5900 - Special Projects - 2 - 3 Credits
THEA5910 - Capstone Project - 2 - Credits
THEA5960 - Special Topics in Theatre Production - 2 - Credits
THEA5980 - Theatre Internship - 2 - 8 Credits
THEA6010 - Introduction to Graduate Study in Theatre - 1 - Credits
THEA6250 - Playwriting - 3 - Credits
THEA6330 - Methods of Teaching Drama, Grades K-6 - 3 - Credits
THEA6340 - Methods of Teaching Theatre, Grades 7-12 - 3 - Credits
THEA6500 - Drafting for Theatre - 2 - Credits
THEA6520 - Advanced Costume Design for Theatre - 2 - Credits
THEA6530 - Specialized Theatre Props and Crafts - 2 - Credits
THEA6540 - Advanced Lighting for Theatre Design - 2 - Credits
THEA6550 - Rendering in Theatre Design - 2 - Credits
THEA6555 - Scene Painting - 2 - Credits
THEA6560 - Advanced Scene Design for Theatre - 2 - Credits
THEA6565 - Historic Styles: Interiors & Architecture - 2 - Credits
THEA6570 - Historic Clothing - 2 - Credits
THEA6580 - Computer Design in Theatre - 2 - Credits
THEA6590 - Design Studies for Theatre - 2 - Credits
THEA6710 - Contemporary Theatre Studies - 2 - Credits
THEA6720 - Specialized Theatre History and Literature Topics - 2 - Credits
THEA6900 - Research Studies - 1 - 4 Credits
THEA6910 - Graduate Studies in Theatre - 1 - 6 Credits
THEA6920 - Graduate Projects in Theatre - 2 - 3 Credits
THEA6930 - Theatre Production Portfolio - 1 - Credits
THEA6960 - Special Topics in Theatre Production - 2 - Credits

THEA6970 - Thesis - 1 - 3 Credits
THEA6980 - Theatre Internship - 2 - 8 Credits
THEA6990 - Continuing Graduate Advisement - 1 - 2 Credits

Veterinary Clinical & Life Sciences Department

Veterinary Clinical and Life Sciences

Website: Department of Veterinary Clinical and Life Sciences (VCLS)

Department Head: Ralph G. Meyer
Location: Veterinary Medical Education (VME) 386
Phone: 435-797-1774
Email: ralph.meyer@usu.edu

Administrative Assistant: Rebekah Pratt
Graduate Program Coordinator: Rebekah Pratt
Location: Veterinary Medical Education (VME) 390
Phone: 435-797-1762
Email: rebekah.pratt@usu.edu

Degrees Offered

- Master of Science (Biomedical Sciences - MS)
- Doctor of Philosophy (Biomedical Sciences - PhD)
- Master of Public Health: (Veterinary Public Health Specialization - MPH)

NOTE: Students who are seeking a Doctor of Veterinary Medicine (DVM) should visit Doctor of Veterinary Medicine - DVM for more information.

Objectives
The Veterinary Clinical and Life Sciences Department (VCLS) is currently the only department in the College of Veterinary Medicine (CVM). The VCLS department houses the graduate program MS and PhD degrees in Biomedical Sciences, whereas the Doctor of Veterinary Medicine (DVM) is conferred by the College of Veterinary Medicine (CVM), not the VCLS department.

Biomedical Sciences Degrees
The Biomedical Sciences Program is a graduate program within the College of Veterinary Medicine (CVM) in which both Master of Science (MS) and Doctor of Philosophy (PhD) degrees are offered. Students in this program engage in coursework and interdisciplinary basic and clinical research focused on human and animal health and disease. Research areas are determined by individual faculty members and are listed on the VCLS research website.

Currently, undergraduate coursework is not available in the CVM, but undergraduate students who are interested in engaging in biomedical research are encouraged to visit the VCLS department research website. Research opportunities, including a limited number of summer research stipends, are available on a competitive basis to undergraduate students, dependent on funding.

Admission to the Biomedical Sciences MS and PhD Graduate Program
Prior to applying to either an MS or PhD degree in Biomedical Sciences, a student must identify and contact a graduate faculty member within the Department of Veterinary Clinical and Life Sciences who is willing to act as their major (supervisory) professor for the desired program. Finding a professor does not guarantee acceptance into the Biomedical Sciences Program.

To find a major professor, interested students are encouraged to view the CVM faculty directory to learn more about their research areas. The individual faculty members will need the following information from the interested student:

- Cover Letter stating the student's interest in their research and how it would be consistent with the student's career goals.
- Current CV/Resume
- Most Recent Unofficial Transcript

For general admission requirements, see Graduate School Admissions. All prospective graduate students must apply through the School of Graduate Studies and comply with the requirements set forth by USU. The School of Graduate Studies admission and program requirements can be found in the School of Graduate Studies catalog page.

Required Credits for Completion

- BS to MS: Total Minimum 30 Credits
- BS to PhD: Total Minimum 70 Credits
- MS to PhD: Total Minimum 42 Credits
- DVM to PhD: Total Minimum 42 Credits

For full details of admission, program requirements and policies, please visit:

- Biomedical Sciences - MS - MS
- Biomedical Sciences - PhD-PhD

Financial Assistance
Several forms of financial assistance are available to graduate students and are awarded on a competitive basis. Students requesting financial support should have completed their application to the School of Graduate Studies by March 1st and then have submitted an application for a Teaching Assistantship to the VCLS department by March 15th for the coming academic year. Graduate teaching assistantships may be available through the VCLS department. Research assistantships may be available through funds provided by individual faculty members.

Acceptance in the Biomedical Sciences graduate program per se does not guarantee any financial assistance. Continuous funding is contingent upon availability and may change during a student's program.

Residency

Domestic matriculated graduate students are required to obtain residency at the soonest possible date upon beginning their program. A student is eligible to apply for residency upon having proof of having resided in Utah for 12 continuous months, prior to the term for which the student is seeking resident student status.

It is the student's responsibility to provide evidence that they are eligible for resident student status prior to the first day of classes for the term for which the student seeks resident tuition. See the Utah System of Higher Education website to view residency status requirements.

Note: International matriculated graduate students are not eligible to obtain residency but are eligible for the Research Nonresident Tuition Waiver. See the School of Graduate Studies website for more information on all financial aid opportunities.

FACULTY - College of Veterinary Medicine

Programs

Biomedical Sciences - MS
Biomedical Sciences - PhD

Courses

VCLS5130 - Biomedical Sciences: Cell Culture - 3 - Credits
VCLS5230 - Biomedical Sciences: Molecular Techniques - 3 - Credits
VCLS5900 - Special Topics in Biomedical Sciences - 1 - 3 Credits
VCLS6000 - Ecology and Health: Case Studies of Relationships Between the Environment, Organisms, and Health - 3 - Credits
VCLS6020 - One Health: People, Animals, and the Environment - 3 - Credits
VCLS6100 - Biomedical and Life Sciences Seminar Series - 1 - Credits
VCLS6110 - MPH Practicum - 3 - Credits
VCLS6130 - Biomedical Sciences: Cell Culture - 3 - Credits
VCLS6200 - Research Animal Anatomy and Physiology - 3 - Credits
VCLS6210 - Principles of Pharmacology and Toxicology - 3 - Credits
VCLS6220 - Mechanisms of Disease - 3 - Credits
VCLS6230 - Biomedical Sciences: Molecular Techniques - 3 - Credits
VCLS6800 - Biomedical and Life Sciences Graduate Seminar - 1 - Credits
VCLS6830 - Communicating and Evaluating Public Health Information: Case Studies in Environmental Health - 3 - Credits
VCLS6840 - Epigenetics in Public Health - 3 - Credits
VCLS6900 - Special Topics in Biomedical Sciences - 1 - 3 Credits
VCLS6970 - Veterinary Clinical and Life Sciences Research and Thesis - 1 - 12 Credits
VCLS7101 - Cell Biology and Metabolism - 3 - Credits
VCLS7132 - General Pathology - 3 - Credits
VCLS7142 - Agents of Infection and Immunity - 3 - Credits
VCLS7162 - Fundamentals of Pharmacology - 1 - Credits
VCLS7510 - Veterinary Microscopic Anatomy - 4 - Credits
VCLS7511 - Veterinary Anatomy I - 5 - Credits
VCLS7519 - Veterinary Physiology I - 4 - Credits
VCLS7520 - Veterinary Physiology II - 5 - Credits
VCLS7522 - Fundamentals of Pharmacology - 3 - Credits
VCLS7523 - Veterinary Toxicology - 3 - Credits
VCLS7534 - Veterinary Immunology - 3 - Credits
VCLS7535 - Veterinary Virology - 3 - Credits
VCLS7536 - Veterinary Bacteriology - 4 - Credits
VCLS7543 - Veterinary Medicine and Human Health - 2 - Credits
VCLS7545 - General Pathology - 3 - Credits
VCLS7546 - Systemic Pathology - 6 - Credits
VCLS7585 - Epidemiology - 2 - Credits
VCLS7602 - Leadership Principles for Biomedical Scientists and Veterinarians - 1 - Credits
VCLS7680 - Seminar in Veterinary Pathology and Histopathology - 3 - Credits
VCLS7970 - Veterinary Clinical and Life Sciences Dissertation Research - 1 - 12 Credits
VM7003 - Clinical Skills III - 2 - Credits
VM7004 - Clinical Skills IV - 2 - Credits
VM7012 - Professional Skills II - 2 - Credits
VM7013 - Professional Skills III - 2 - Credits
VM7014 - Professional Skills IV - 2 - Credits
VM7023 - Thinking Like a Veterinarian III - 1 - Credits
VM7024 - Thinking Like a Veterinarian IV - 1 - Credits
VM7033 - Exploration of Post-DVM Career Opportunities III - 0.5 - Credits
VM7034 - Exploration of Post-DVM Career Opportunities IV - 0.5 - Credits
VM7221 - The Body in Disease 1 - 7 - Credits
VM7222 - The Body in Disease 2 - 6 - Credits
VM7223 - The Body in Disease 3 - 5 - Credits
VM7224 - The Body in Disease 4 - 3 - Credits
VM7242 - Anesthesia - 2 - Credits
VM7262 - Population Health - 4 - Credits
VM7272 - Theriogenology I - 2 - Credits
VM7625 - Clinical Zoological & Wildlife Medicine - 1 - Credits
VM7626 - Immobilization and Conservation of African Wildlife - 4 - Credits
VM7651 - Zoological Medicine: Aquatic Animals - 1 - Credits
VM7652 - Zoological Medicine: General Zoo Management - 1 - Credits

Watershed Sciences Department

Watershed Sciences

Interim Department Head: Edd Hammill
Location: Natural Resources 210
Phone: (435) 797-2213
Website: www.qcnr.usu.edu/wats

Undergraduate Advisor: Wake Harper, Natural Resources 122, (435) 797-3375, qcnr.usu.edu/advising/

Degrees offered: Bachelor of Science (BS) in Fisheries and Aquatic Sciences; BS in Management and Restoration of Aquatic Ecosystems; Master of Ecological Restoration (MoER); Master of Science (MS) and Doctor of Philosophy (PhD) in Watershed Science; MS and PhD in Ecology; MS in Fisheries Biology

Minors offered: Fisheries Science, Marine Science, Geographic Information Science, Watershed Science

Certificates offered: Certified Ecological Restoration Practitioner-in-Training (CERPIT) through Society for Ecological Restoration, Graduate Certificate in Aquatic Ecosystem Restoration, River Studies and Leadership Certificate

Graduate specializations: MS, PhD in Ecology—Aquatic Ecology; MS in Fisheries Biology—Conservation Biology, Fisheries Management; MS, PhD in Watershed Science—Geomorphology and Earth Surface Processes, Climate Adaptation Science

Full details of the learning objectives, assessment plans, student outcomes, and evidence of continuous improvement for these programs of study can be found at https://qcnr.usu.edu/wats/assessment/.

Undergraduate Programs

Objectives

Watershed science is the study of the physical, chemical, and biological processes associated with the movement of water across the landscape. Clean and adequate water supplies are essential elements of human societies. Understanding the interaction among water, earth materials, plants, and animals is essential to the management of wildland, agricultural, and urban ecosystems. The Department of Watershed Sciences offers comprehensive educational opportunities for undergraduate and graduate students interested in fisheries science, aquatic ecology, and the understanding of watershed ecosystems. Departmental faculty provide expertise in fish biology, the management and conservation of aquatic ecosystems, geographic information systems, and the analysis of the water cycle. Degree programs within the Watershed Sciences Department help students learn how water links the physical, biological, and geographic aspects of watersheds. Knowledge of this linkage process is necessary for understanding and managing water supply, water quality, and ecosystem health.

Career Opportunities

Watershed scientists work throughout the United States, as well as in the developed and developing world, performing the tasks of understanding, managing, and restoring water supplies, water quality, and ecosystem health. Graduates of programs within the Watershed Sciences Department become scientists and managers for natural resources agencies, professionals with consulting and nonprofit environmental firms, and teachers and researchers at major universities. Degree holders often work as environmental scientists, hydrologists, fisheries biologists, or specialists in geographic information analysis and remote sensing. With experience and/ or advanced degrees, graduates of programs within the Watershed Sciences Department may do natural resource assessment, management planning, and resource impact analysis.

Federal agencies, such as the Forest Service, Fish and Wildlife Service, Geological Survey, Bureau of Land Management, Environmental Protection Agency, National Park Service, Bureau of Reclamation, and National Marine Fisheries Service, hire graduates of the Department of Watershed Sciences academic programs. Graduates also find employment with state natural resource agencies, nongovernmental conservation organizations, and private consulting firms.

Requirements

Departmental Admission Requirements

Admission requirements for the department are the same as those described for the S.J. and Jessie E. Quinney College of Natural Resources.

Academic Advisement

Students are encouraged to meet with their advisor each semester prior to enrolling for courses. Students should contact the Department of Watershed Sciences (NR 210) or the S.J. and Jessie E. Quinney College of Natural Resources Academic Service Center (NR 120) to be assigned an advisor.

Recommended Four-Year Plans

Recommended semester-by-semester four-year plans for students working toward bachelor's degrees are available in the Academic Advising Office.

Students should consult with their advisor to develop a plan of study tailored to their individual needs and interests.

Financial Assistance

The main sources of undergraduate financial assistance include university scholarships, grants-in-aid, work-study, and loans. In addition, more than 65 scholarships are offered for eligible students in the S.J. and Jessie E. Quinney College of Natural Resources.

Scholarships are awarded for scholastic and professional achievements at the department, S.J. and Jessie E. Quinney College of Natural Resources, and university level. For more information, contact S.J. and Jessie E. Quinney College of Natural Resources academic advisors. Grants-in-aid and work-study are available from the Financial Aid Office. In addition, departmental faculty often employ undergraduate students to assist in research, extension, and outreach projects. These projects often involve field and laboratory data collection, data management and analysis, and report preparation.

University Honors Program

The University Honors Program offers students in all colleges and majors the unique opportunity to deepen their educational experience with hands-on practical applications of their academic knowledge. The Honors Program admits incoming, transfer, and existing USU students based on application. High achieving students with at least one year remaining are encouraged to apply. See the University Honors Program catalog entry and website (honors.usu.edu) for more information.

Additional Information

For additional information about the Bachelor of Science requirements, course sequencing, and departmental specialization options and their related coursework, as well as updated information describing current programs and courses offered by the Department of Watershed Sciences, visit the Watershed Sciences main office, Natural Resources 210, or visit qcnr.usu.edu/wats. Major requirement sheets may be obtained at the Academic Advising Office.

Graduate Programs

Admission Requirements

General admission requirements apply, in addition to the requirements which follow. Although admission to the graduate program is treated on an application-by-application basis, the following are usually required:

1. A bachelor's degree from an accredited college or university.
2. A GPA of 3.2 or better (out of 4.0) for the most recent 60 credits of academic coursework.
3. A letter of "interest and purpose" detailing the applicant's reasons for seeking an advanced degree.
    - The written statement of interest helps match applicants with faculty advisors. A faculty member must agree to serve as the major professor in order for an applicant to be accepted. Prospective students are encouraged to contact faculty members early in the application process to investigate mutual interests, projects, and prospects for financial support.
4. Foreign students should have a TOEFL score of at least 550.

Previous training in the field is not a prerequisite for admission, although a sound background in the physical and biological sciences is recommended. Successful applicants without the necessary background will be expected to obtain it in the course of their studies for the advanced degree.

Master of Ecological Restoration

The Master of Ecological Restoration (MoER) enables WATS undergraduates to obtain a professional master's degree in one year following completion of the MRAE or FAS degree. The degree is designed to prepare graduates for a career as a restoration practitioner. The MoER degree combines coursework, an internship, and design exercises.

The mission of the MoER program is to prepare future restoration professionals with the perspective and skillsets needed to assess the condition of wetland, lake and stream ecosystems; identify causes of degradation; and develop and implement plans for restoration of ecosystem health.

Master of Natural Resources

In addition to its MoER,Master of Science, and doctoral programs, the department participates in the Master of Natural Resources - MNR. This is a nonthesis master's degree program designed for students and practicing professionals seeking advanced training in natural resource management, with an emphasis on collaboration and interdisciplinary teamwork.

Financial Assistance

General aspects of financial support for graduate students at Utah State University are listed in the School of Graduate Studies in the *Graduate Financial Assistance* section. This includes important information on the university-wide policies and terms of reference for research and teaching assistantships, graduate tuition obligations and benefits, Western Regional Graduate Programs, and competitive university-wide fellowships and scholarships.

Assistantships

Research assistantships are available through individual faculty members who hold research grants or contracts. Occasionally, teaching assistantships are available through the department. Recipients of teaching assistantships are usually selected from among PhD students.

Western Regional Graduate Programs

The MS and PhD in Watershed Science are Western Regional Graduate Programs. For more information, see the School of Graduate Studies.

FACULTY - S.J. & Jessie E. Quinney College of Natural Resources

Programs

Ecology - Watershed Sciences - MS
Ecology - Watershed Sciences - PhD
Aquatic Ecosystem Restoration - Post-Bachelor's Certificate
Fisheries and Aquatic Sciences - BS
Fisheries Science - Minor
Fisheries Biology - MS
Freshwater and Marine Ecology - BS
Geographic Information Science - Minor
Marine Science - Minor
Master of Ecological Restoration - MOER (NOT CURRENTLY OFFERED)
Management and Restoration of Aquatic Ecosystems - BS
Watershed Science - Minor
Watershed Science - MS
Watershed Science - PhD

Courses

WATS1200 - The Natural World and Our Place Within It (BLS) - 3 - Credits
WATS2000 - Natural Resource Professional Orientation - 1 - Credits
WATS2050 - Data Management for Natural Resources – Cleaning and Shaping Data - 1 - Credits
WATS2060 - Data Management for Natural Resources – Data Display and Analysis - 1 - Credits
WATS2220 - General Ecology - 3 - Credits
WATS2500 - Introduction to Marine Biology (BLS) - 3 - Credits
WATS2800 - Introduction to Geographic Information Sciences - 4 - Credits
WATS3000 - Oceanography (DSC) - 3 - Credits
WATS3100 - Fish Ecology, Conservation, and Management (CI/DSC) - 3 - Credits
WATS3110 - Fish Ecology, Conservation, and Management Lab - 1 - Credits

WATS3200 - Marine Ecology: Expedition Sea of Cortez (DSC) - 3 - Credits
WATS3450 - Introduction to Coral Reefs-Field Course (DSC) - 3 - Credits
WATS3500 - Water and Power - 3 - Credits
WATS3700 - Fundamentals of Watershed Science (CI) - 3 - Credits
WATS4050 - Marine Global Change: Impacts and Conservation Strategies - 3 - Credits
WATS4100 - Climate Adaptation Intern Program - 3 - Credits
WATS4250 - Advanced Internship/Co-op - 1 - 9 Credits
WATS4300 - Principles of Ecosystem Restoration - 3 - Credits
WATS4490 - Small Watershed Hydrology (QI) - 4 - Credits
WATS4500 - Limnology: Ecology of Inland Waters - 3 - Credits
WATS4510 - Aquatic Ecology Methods - 2 - Credits
WATS4520 - Aquatic Ecology Practicum II: Analysis - 2 - Credits
WATS4530 - Water Quality and Pollution - 3 - Credits
WATS4540 - Ichthyology - 4 - Credits
WATS4600 - Environmental Water Management - 3 - Credits
WATS4720 - Drone Data Analysis for Environmental Restoration - 2 - Credits
WATS4950 - Special Topics - 1 - 3 Credits
WATS4960 - Directed Readings - 1 - 3 Credits
WATS4970 - Undergraduate Research - 1 - 3 Credits
WATS4980 - Watershed Sciences Departmental Seminar - 1 - Credits
WATS4990 - Senior Thesis - 2 - 3 Credits
WATS5003 - Remote Sensing of Land Surfaces - 4 - Credits
WATS5055 - American Academy of Underwater Sciences Scientific Diver Certification Course - 2 - Credits
WATS5110 - Environmental Biogeochemistry - 3 - Credits
WATS5150 - Fluvial Geomorphology - 3 - Credits
WATS5200 - Fish Habitats - 2 - Credits
WATS5210 - The Secret Life of Elements on Earth - 2 - Credits
WATS5305 - Ecology and Restoration of Plants - 3 - Credits
WATS5311 - Field Botany: Wetland and Riparian Plants - 1 - Credits
WATS5312 - Wetland Delineation - 1 - Credits
WATS5350 - Capstone and Professional Practice - 2 - Credits
WATS5360 - Wetland Ecology and Management - 3 - Credits
WATS5490 - Small Watershed Hydrology (QI) - 4 - Credits
WATS5500 - Limnology: Ecology of Inland Waters - 3 - Credits
WATS5530 - Water Quality and Pollution - 3 - Credits
WATS5540 - Ichthyology - 4 - Credits
WATS5550 - Freshwater Invertebrates - 3 - Credits
WATS5600 - Environmental Water Management - 3 - Credits
WATS5610 - Field Introduction to Low-Tech Process-Based Restoration of Riverscapes - 1 - Credits
WATS5620 - Intro to Low-Tech Process-Based Restoration of Riverscapes - 1 - Credits
WATS5621 - Science and Case Studies of Low-Tech Process-Based Restoration of Riverscapes - 1 - Credits
WATS5622 - Planning Low-Tech Process-Based Restoration of Riverscapes - 1 - Credits
WATS5623 - Designing Low-Tech Process-Based Restoration of Riverscapes - 1 - Credits
WATS5624 - Implementation of Low-Tech Process-Based Restoration of Riverscapes - 1 - Credits
WATS5625 - Adaptive Management and Monitoring of Low-Tech Process-Based Restoration of Riverscapes - 1 - Credits
WATS5630 - Beaver Translocation for Restoration - 1 - Credits
WATS5640 - Riparian Ecology and Management - 3 - Credits
WATS5650 - Analysis of Fisheries Data with R - 2 - Credits
WATS5655 - Principles in Fishery Management - 3 - Credits
WATS5660 - Watershed and Stream Restoration - 2 - Credits
WATS5670 - Watersheds and Stream Restoration Practicum - 2 - Credits
WATS5680 - Paleoclimatology - 3 - Credits
WATS5690 - Climate Data-Driven Resource Management - 3 - Credits
WATS5720 - Drone Data Analysis for Environmental Restoration - 2 - Credits
WATS5790 - Small Watershed Hydrology (QI) - 4 - Credits
WATS5800 - Watershed Sciences Departmental Seminar - 1 - Credits
WATS6003 - Remote Sensing of Land Surfaces - 4 - Credits
WATS6050 - Aquatic Ecosystems and Water Resources Systems Modeling - 2 - 4 Credits
WATS6110 - Environmental Biogeochemistry - 3 - Credits
WATS6120 - Aquatic Production Biology - 2 - Credits
WATS6150 - Fluvial Geomorphology - 3 - Credits
WATS6155 - Fluvial Geomorphology - Reading Riverscapes - 3 - Credits
WATS6210 - The Secret Life of Elements on Earth - 2 - Credits
WATS6220 - Advanced Limnology - 2 - Credits
WATS6230 - Fish Ecology - 2 - Credits
WATS6240 - Graduate Internship/Co-op - 1 - 9 Credits
WATS6260 - Watershed Sciences Graduate Student Induction Course - 1 - Credits
WATS6270 - Big Ideas in Watershed Science - 2 - Credits
WATS6305 - Ecology and Restoration of Plants - 3 - Credits
WATS6311 - Field Botany: Wetland and Riparian Plants - 1 - Credits
WATS6312 - Wetland Delineation - 1 - Credits
WATS6340 - Prioritizing Conservation and Management Actions With Marxan - 3 - Credits
WATS6350 - Capstone Mentoring - 1 - Credits
WATS6360 - Wetland Ecology and Management - 3 - Credits
WATS6400 - Communicating Science: A Short Course for Graduate Students - 1 - Credits
WATS6450 - Ecological Analysis with Mixed Effects Models - 3 - Credits
WATS6460 - Dynamic Models for Natural Resources Management Decisions - 3 - Credits
WATS6490 - Small Watershed Hydrology - 4 - Credits
WATS6491 - Streamflow Analysis - 1 - Credits
WATS6500 - Limnology: Ecology of Inland Waters - 3 - Credits
WATS6530 - Water Quality and Pollution - 3 - Credits
WATS6540 - Ichthyology - 4 - Credits
WATS6600 - Environmental Water Management - 3 - Credits
WATS6626 - Advanced Project Planning of Low-Tech Process-Based Restoration of Riverscapes - 1 - Credits
WATS6627 - Advanced Project Design of Low-Tech Process-Based Restoration of Riverscapes - 1 - Credits
WATS6628 - Intro to Action-Effectiveness Monitoring of Riverscape Restoration Projects - 1 - Credits
WATS6629 - Screening & Prioritization of Riverscape Restoration - 1 - Credits
WATS6655 - Principles in Fishery Management - 3 - Credits
WATS6680 - Paleoclimatology - 3 - Credits
WATS6690 - Climate Data-Driven Resource Management - 3 - Credits
WATS6700 - Restoration Ecology - 4 - Credits
WATS6720 - Drone Data Analysis for Environmental Restoration - 2 - Credits
WATS6750 - Prioritizing conservation and management actions with Marxan - 3 - Credits
WATS6800 - Watershed Sciences Departmental Seminar - 1 - Credits
WATS6840 - Ecohydraulics - 3 - Credits
WATS6850 - Geomorphic Change Detection: Restoration Monitoring - 1 - Credits
WATS6860 - Partnering with Beaver in Restoration Design - 1 - Credits
WATS6870 - Ecology Seminar - 1 - Credits
WATS6900 - Graduate Special Topics - 1 - 6 Credits
WATS6910 - Directed Study - 1 - 6 Credits
WATS6915 - GIS Fundamentals - 1 - Credits
WATS6940 - Snow Hydrology - 3 - Credits
WATS6970 - Thesis Research - 1 - 12 Credits
WATS6990 - Continuing Graduate Advisement - 1 - 9 Credits
WATS7120 - Aquatic Production Biology - 2 - Credits
WATS7230 - Fish Ecology - 2 - Credits
WATS7460 - Dynamic Models for Natural Resources Management Decisions - 3 - Credits
WATS7640 - Riparian Ecology and Management - 3 - Credits
WATS7800 - Watershed Sciences Departmental Seminar - 1 - Credits
WATS7900 - Graduate Special Topics - 1 - 6 Credits
WATS7910 - Directed Study - 1 - 6 Credits
WATS7970 - Dissertation Research - 1 - 12 Credits
WATS7990 - Continuing Graduate Advisement - 1 - 9 Credits

WILD3200 - Marine Ecology: Expedition Sea of Cortez (DSC) - 3 - Credits

Wildland Resources Department

Wildland Resources

Department Head: Christopher Keyes
Location: Natural Resources 206
Phone: (435) 797-2503
E-mail: stacey.brummer@usu.edu
Website: https://qanr.usu.edu/wild/

Undergraduate Advisor: Stephanie Myers, Natural Resources 116, (435) 797-2695, stephanie.myers@usu.edu

Degrees offered: Bachelor of Science (BS) in Conservation and Restoration Ecology, Forest Ecology and Management, Rangeland Ecology and Management, and Wildlife Ecology and Management; Master of Science (MS) and Doctor of Philosophy (PhD) in Ecology, Forestry, Range Science, and Wildlife Biology

Graduate specializations: *MS, PhD in Ecology*—Conservation Biology, Forest Ecology, Wildlife Ecology; *MS, PhD in Range Science*—Range Animal Nutrition, Range Management; *MS, PhD in Wildlife Biology*—Wildlife Management

Full details of the learning objectives, assessment plan, student outcomes, and evidence of continuous improvement can be found at https://qanr.usu.edu/wild/about/assessment/undergraduate for Wildland Resources undergraduate programs of study and at https://qanr.usu.edu/wild/about/assessment/graduate for graduate programs of study.

Undergraduate Programs

Objectives

The Department of Wildland Resources offers four undergraduate degrees: Conservation and Restoration Ecology, Forest Ecology and Management, Rangeland Ecology and Management, and Wildlife Ecology and Management. These degree programs offer broad educational opportunities for students interested in the analysis and management of forest and rangeland ecosystems and their associated wildlife populations. The department's philosophy of education is to promote a broad interdisciplinary approach to natural resources analysis, management, and science.

The first two years of study in the Department of Wildland Resources are designed to provide students with a sound background in the natural sciences, an introduction to the field of natural resources management, and an introduction to their respective major. The last two years are designed to provide an advanced understanding of natural resource management and science, depth concentration in the major, and experience with the integration of scientific and management concepts across a diversity of disciplines and management scenarios. To maintain correct course sequencing and to stay on track for graduation, students are encouraged to enroll for 15 or more credits of coursework per semester.

Career Opportunities

Graduates in all degree programs receive a solid background in biological and quantitative sciences, as well as the communication skills needed to succeed in many career paths. Our Forest Ecology and Management and Rangeland Ecology and Management degrees are accredited by the Society of American Foresters and Society for Range Management, respectively.

Requirements

Admission Requirements

Admission requirements for the Department of Wildland Resources are the same as those described for the S.J. and Jessie E. Quinney College of Natural Resources.

Recommended Four-year Plans

Recommended semester-by-semester four-year plans for students working toward bachelor's degrees are available on the program page and in the Department of Wildland Resources.

Students should consult with their advisor to develop a plan of study tailored to their individual needs and interests.

Financial Assistance

The main opportunities for undergraduates to find financial support through grants, work-study, and loans are listed in the Financial Aid and Scholarship information section. In addition, more than 30 scholarships are available for eligible students in the S.J. and Jessie E. Quinney College of Natural Resources. Some students may be able to find paid internships with private or governmental organizations or work for a faculty member on a research project. Interested persons should contact the college's Academic Service Center for more information on financial assistance for undergraduate students.

University Honors Program

The University Honors Program offers students in all colleges and majors the unique opportunity to deepen their educational experience with hands-on practical applications of their academic knowledge. The Honors Program admits incoming, transfer, and existing USU students based on application. High achieving students with at least one year remaining are encouraged to apply. See the University Honors Program catalog entry and website (honors.usu.edu) for more information.

Additional Information

The undergraduate program may be tailored to individual student needs with the help of the QCNR undergraduate advisor. For additional information about the degree requirements, course sequencing, and departmental specialization options and their related coursework, as well as updated information describing current programs and courses offered by the Department of Wildland Resources, visit the Wildland Resources main office, Natural Resources 206, or visit https://qanr.usu.edu/wild/.

Major requirement sheets, which outline career opportunities and required courses for departmental majors, can be obtained from the department.

Graduate Programs

Admission Requirements

The Department of Wildland Resources offers opportunities for graduate study through MS and PhD degree programs in Ecology, Forestry, Range Science, and Wildlife Biology. The programs of instruction and research leading to graduate degrees in the department are available only to students meeting high scholastic standards who are accepted for study by the departmental faculty. Students desiring entrance to these graduate programs should contact the department for information concerning eligibility.

USU School of Graduate Studies general admission requirements are listed in the Graduate Admissions section. Applicants for graduate study in the department should have a bachelor's degree from an accredited college or university, an overall GPA of at least 3.0 (out of 4.0), and GRE scores (quantitative and verbal) above the 40th percentile. Foreign students should submit a TOEFL score of at least 550. Exceptions to these standards will be considered on a case-by-case basis. Written statements of interest help match applicants with faculty advisors. A faculty member must agree to serve as the major professor in order for an applicant to be accepted for study. Prospective students are encouraged to contact faculty members early in the application process to investigate mutual interests, projects, and prospects for financial support.

A natural resources baccalaureate degree is not required for admission to the department's graduate programs although a sound background in the natural sciences is strongly recommended. Students lacking the requisite background will work with their supervisory committee to address deficiencies.

Research

Cooperation with other departments and research centers of the university, as well as with government collaborators, permits strong graduate programs in all aspects of forest, range, and wildlife-related sciences. Department faculty affiliate closely with the USU Ecology Center, the Utah Agricultural Experiment Station, the Utah Cooperative Fisheries and Wildlife Research Unit, the Predator Ecology and Behavior Field Station, the Jack H. Berryman Institute, the U. S. Forest Service, the Rocky Mountain Research Station, and the USDA Agricultural Research Service.

Financial Assistance

General aspects of financial support for graduate students at Utah State University are listed in the *Graduate Financial Assistance* section in the School of Graduate Studies. This includes important information on the university-wide policies and terms of reference for research and teaching assistantships, graduate tuition obligations and benefits, Western Regional Graduate Programs, and competitive university-wide fellowships and scholarships. The S.J. and Jessie E. Quinney College of Natural Resources also offers a limited number of Quinney Doctoral Fellowships for incoming doctoral students.

Graduate research assistantships may be available on a competitive basis to both MS and PhD students through major professors having contracts, grants, or other awards from the university, private sector, or government agencies. These assistantships vary in the amount of support offered, but they commonly offer a stipend to help cover living expenses and operating funds to carry out the research. Other benefits may include assistance with tuition and student health insurance, as well as opportunities to travel.

The department also has a few graduate teaching assistantships for MS and PhD students who help with teaching or grading. These typically pay only a modest supplement on a semester basis, however, and are not sufficient to cover living expenses. Acceptance to pursue graduate study does not guarantee the student financial assistance.

Master of Natural Resources

In addition to its Master of Science and doctoral programs, the department also participates in the Master of Natural Resources - MNR. This is a non-thesis master's degree program designed for students and practicing professionals seeking advanced training in natural resource management, with an emphasis on collaboration and interdisciplinary teamwork.

Additional Information

For more information about graduate programs and departmental faculty and their research emphasis areas, as well as updated information describing current programs and courses offered by the Department of Wildland Resources, visit the Wildland Resources main office, Natural Resources 206, or visit https://qanr.usu.edu/wild/

FACULTY - S.J. & Jessie E. Quinney College of Natural Resources

Programs

Conservation and Restoration Ecology - BS
Ecology - Wildland Resources - MS
Ecology - Wildland Resources - PhD
Forest Ecology and Management - BS
Forestry - MS
Forestry - PhD
Range Science - MS
Range Science - PhD
Rangeland Ecology and Management - BS
Wildlife Ecology and Management - BS
Wildlife Biology - MS
Wildlife Biology - PhD
Wildlife Science - Minor

Courses

WILD2000 - Natural Resource Professional Orientation - 1 - Credits
WILD2200 - Ecology of Our Changing World (BLS) - 3 - Credits
WILD2250 - Introductory Internship/Co-op - 1 - 3 Credits
WILD2400 - Wildland Resource Techniques - 3 - Credits
WILD2450 - Wildland Fire Operations - 2 - Credits
WILD2800 - Introduction to Geographic Information Sciences - 4 - Credits
WILD3100 - Introduction to Wildland Fire - 3 - Credits
WILD3300 - Wildlife Behavior - 3 - Credits
WILD3500 - Introduction to Rangeland Management - 3 - Credits
WILD3600 - Advanced Plant Identification and Terminology - 3 - Credits
WILD3800 - Wildland Plants and Ecosystems - 4 - Credits
WILD3810 - Wildlife Population Ecology - 3 - Credits
WILD3820 - Forest Plants: Identification, Biology, and Function - 3 - Credits
WILD3830 - Range Plant Taxonomy and Function - 3 - Credits
WILD3850 - Vegetation and Habitat Management - 3 - Credits
WILD3880 - Genetics in Conservation and Management - 3 - Credits
WILD4000 - Principles of Rangeland Management - 3 - Credits
WILD4100 - Scientific Communication for Natural Resource Professionals (CI) - 3 - Credits
WILD4150 - Post-Fire Restoration and Management - 3 - Credits

WILD4200 - Forest Health Topics - 2 - Credits
WILD4250 - Advanced Internship/Co-op - 1 - 9 Credits
WILD4340 - Range Ruminant Nutrition and Management - 3 - Credits
WILD4500 - Principles of Wildlife Management - 3 - Credits
WILD4550 - Wildlife Law Enforcement - 3 - Credits
WILD4570 - Forest Ecology of the Sierra Nevada and White Mountains - 3 - Credits
WILD4600 - Conservation Biology - 3 - Credits
WILD4640 - Studies in the American West - 3 - Credits
WILD4700 - Ecological Foundations of Restoration - 3 - Credits
WILD4750 - Monitoring and Assessment in Natural Resource and Environmental Management - 4 - Credits
WILD4910 - Vegetation Resource Management and Planning (CI) - 3 - Credits
WILD4950 - Special Topics - 1 - 3 Credits
WILD4960 - Directed Readings - 1 - 3 Credits
WILD4970 - Undergraduate Research - 1 - 3 Credits
WILD4980 - Undergraduate Seminar - 1 - Credits
WILD5100 - Forests and Fuels Measuring & Modeling - 3 - Credits
WILD5220 - Community-based Conservation Partnerships - 3 - Credits
WILD5300 - Human-Wildlife Interactions - 3 - Credits
WILD5310 - Forest Stand Dynamics - 3 - Credits
WILD5320 - Wildland Field Skills I - 1 - Credits
WILD5321 - Wildland Field Skills II - 1 - Credits
WILD5322 - Wildland Field Skills III - 1 - Credits
WILD5340 - Range Ruminant Nutrition and Management - 3 - Credits
WILD5350 - Wildland Soils - 3 - Credits
WILD5560 - Applied Avian Ecology (CI) - 3 - Credits
WILD5570 - Forest Ecology of the Sierra Nevada and White Mountains - 3 - Credits
WILD5580 - Mammalogy - 3 - Credits
WILD5680 - Management and Manipulation of Ecological Data Using R - 1 - Credits
WILD5700 - Forest Assessment and Management (CI) - 3 - Credits
WILD5710 - Forest Vegetation Disturbance Ecology and Management - 3 - Credits
WILD5750 - Applied Remote Sensing - 3 - Credits
WILD5860 - Poisonous Range Plants Affecting Livestock - 3 - Credits
WILD6060 - Applied Bayesian Analysis of Ecological Data - 3 - Credits
WILD6100 - Scientific Communication for Natural Resource Professionals - 3 - Credits
WILD6150 - Graduate Research Management - 2 - Credits
WILD6200 - Biogeochemistry of Terrestrial Ecosystems - 3 - Credits
WILD6240 - Graduate Internship/Co-op - 1 - 9 Credits
WILD6310 - Forest Stand Dynamics - 3 - Credits
WILD6320 - Wildland Field Skills I - 1 - Credits
WILD6321 - Wildland Field Skills II - 1 - Credits
WILD6322 - Wildland Field Skills III - 1 - Credits
WILD6340 - Range Ruminant Nutrition and Management - 3 - Credits
WILD6350 - Wildland Soils - 3 - Credits
WILD6400 - Ecology of Animal Populations - 3 - Credits
WILD6401 - Population State Variables - 2 - Credits
WILD6402 - Demographic Vital Rates - 1 - Credits
WILD6403 - Dynamics of Structured Populations - 2 - Credits
WILD6500 - Design and Analysis of Ecological Research Using R - 3 - Credits
WILD6520 - Generalized Linear Models and Hierarchical Models for Life Scientists - 1 - Credits
WILD6550 - Behavioral Ecology of Wildlife - 3 - Credits
WILD6560 - Applied Avian Ecology - 3 - Credits
WILD6570 - Forest Ecology of the Sierra Nevada and White Mountains - 3 - Credits
WILD6580 - Management and Manipulation of Ecological Data Using R - 1 - Credits
WILD6600 - Graduate Ecology - 3 - Credits
WILD6680 - Management and Manipulation of Ecological Data Using R - 1 - Credits
WILD6700 - Restoration Ecology - 4 - Credits
WILD6710 - Landscape Ecology - 3 - Credits
WILD6720 - Advanced Conservation Biology - 3 - Credits
WILD6730 - Forest Community Ecology - 4 - Credits
WILD6750 - Applied Remote Sensing - 3 - Credits
WILD6770 - Community Ecology - 3 - Credits
WILD6800 - Wildland Resources Departmental Seminar - 1 - Credits
WILD6870 - Ecology Seminar - 1 - Credits
WILD6880 - Space-Use Ecology - 1 - 2 Credits
WILD6900 - Graduate Special Topics - 1 - 6 Credits
WILD6910 - Directed Study - 1 - 6 Credits
WILD6920 - Python Programming For GIS - 3 - Credits
WILD6970 - Thesis Research - 1 - 12 Credits
WILD6990 - Continuing Graduate Advisement - 1 - 9 Credits
WILD7000 - Theory and Applications of Wildland Ecosystem Management - 3 - Credits
WILD7030 - Plant-Herbivore Interactions - 3 - Credits
WILD7150 - Graduate Research Management - 2 - Credits
WILD7220 - Community-based Conservation Partnerships - 3 - Credits
WILD7300 - Human-Wildlife Interactions - 3 - Credits
WILD7400 - Plant Population Ecology - 3 - Credits
WILD7720 - Advanced Conservation Biology - 3 - Credits
WILD7800 - Wildland Resources Departmental Seminar - 1 - Credits
WILD7900 - Graduate Special Topics - 1 - 6 Credits
WILD7910 - Directed Study - 1 - 6 Credits
WILD7970 - Dissertation Research - 1 - 12 Credits
WILD7990 - Continuing Graduate Advisement - 1 - 9 Credits

World Languages and Cultures Department

World Languages and Cultures

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Location: Main 002E
Phone: (435) 797-1195 | **FAX:** (435) 797-1092
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Department Section Coordinators:
Arabic: Abdulkafi Albirini, Main 202H, (435) 797-8630, abdulkafi.albirini@usu.edu
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Japanese: Atsuko O. Neely, Main 306, (435) 797-1365, atsuko.neely@usu.edu

Master of Second Language Teaching (MSLT):
Co-Directors:
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Degrees offered: Bachelor of Arts (BA) in Asian Studies, Chinese, French, French Teaching, German, German Teaching, Portuguese, Spanish, Spanish Teaching, Master of Second Language Teaching (MSLT).

Full details of the learning objectives, assessment plan, student outcomes, and evidence of continuous improvement for these programs of study can be found at lpcs.usu.edu/about/assessment/index.

Programs

Mission Statement

The Department of World Languages and Cultures offers programs in modern languages and literature, and intensive English education. The mission of the department is to explore thought, expression, and values in a global context. Thus, the department plays an important role in the "internationalization" of the university. The department seeks to increase its students' abilities to communicate with others, to critically and sensitively investigate multiple means of understanding the human experience. The department helps students achieve the language and cultural proficiency necessary to become active members of the global community. By doing so, the department prepares its students to meet both career and life goals.

The undergraduate language programs help students develop a greater knowledge about and love of specific world languages. These programs encourage students to be responsible members of the global community by increasing their understanding of the literature, culture, and history of the people who share these diverse languages. There are specific programs available for students interested in language teaching careers. The language majors and minors provide background for success in a wide variety of careers.

The Master of Second Language Teaching (MSLT) program is an innovative program with a multi-disciplinary approach to culture, language, literacy, and pedagogy. Students choose their own areas of focus depending on their language specialty and career objectives. The department's mission is to prepare students to be effective cross-cultural communicators and language teachers in a wide variety of professional settings.

The majors in the department are: Asian Studies (BA), Chinese (BA), French (BA), French with Teaching Emphasis (BA), German (BA), German with Teaching Emphasis (BA), Portuguese (BA), Spanish (BA), Spanish with Teaching Emphasis (BA), Second Language Teaching (MSLT).

The minors in the department are: Arabic Studies, Asian Studies, Chinese, Chinese with Teaching Emphasis, French, French with Teaching Emphasis, German, German with Teaching Emphasis, Japanese, Linguistics, Portuguese, Russian, Spanish, Spanish with Teaching Emphasis.

Courses offered by the department provide majors and minors with opportunities to achieve this understanding by increasing their communicative, interpretive, linguistic and research skills; their ability to function within an increasingly globalized society; and their awareness of ethical, aesthetic, and other values. Courses offered by the department also give students in the teaching emphasis and teaching minors the opportunity to serve the needs of the education professions.

The department furthers the education of both traditional and nontraditional students through faculty participation in interdisciplinary programs such as Honors, Latin American Studies, Medieval and Early Modern Studies, Asian Studies, and Women and Gender Studies; and in cooperative education, distance learning, extension, and study-abroad programs.

Admission Requirements

Admissions requirements for first-year students desiring entrance to major programs offered by the Department of World Languages and Cultures are the same as those for Utah State University. Transfer students from other institutions and from other majors within Utah State University must have an overall minimum GPA of 2.5 to be admitted to the department's major programs, except the Spanish and Spanish with Teaching Emphasis programs, which require a 3.00 GPA.

All students majoring in programs offered by this department must maintain a minimum GPA of 2.5 in their major (3.0 in Spanish) to be in good standing in the department and to obtain official approval for graduation.

Career Information

For career and graduate school information, students should contact undergraduate advisors in the department.

Scholarship Information

The following are scholarships offered through the Department of World Languages and Cultures.

Carl T. Degener Memorial Scholarship is awarded to an outstanding language major at the junior level.
The Edgar R. Lewandowski Memorial Scholarship Endowment is awarded to a major in German with a demonstrated financial need. Preferential consideration will be given to students from Logan High or another Cache Valley high school.
Gene W. and Ruth Miller Family Scholarship is for an academic major in languages.
Jaime Cantarovici Memorial Scholarship is awarded to an outstanding undergraduate senior majoring in Spanish.
Jean Inness Scholarship is awarded to outstanding upper-division student in French (and under some circumstances Spanish).
Thain Scholarship is given to an outstanding high school senior enrolling in a language or philosophy course at USU.

The **Mehdi Heravi Middle East Scholarship Endowment** is used to support scholarships for students studying Middle Eastern languages. Qualifying languages, in order of the donor's priority, are Farsi (Persian), Arabic and then Turkish.

University Honors Program

The University Honors Program offers students in all colleges and majors the unique opportunity to deepen their educational experience with hands-on practical applications of their academic knowledge. The Honors Program admits incoming, transfer, and existing USU students based on application. High achieving students with at least one year remaining are encouraged to apply. See the University Honors Program catalog entry and website (honors.usu.edu) for more information.

Additional Information

For detailed information about requirements for majors and minors within the World Languages and Cultures Department, see the major requirement sheets, which are available from the department.

Languages

Language Program Learning Objectives

The learning objectives for the various language programs reflects the ACTFL Standards of Foreign Language Learning (i.e., the 5 C's: Communication, Cultures, Connections, Comparisons, Communities) in the classroom.

1. Students will be proficient in speaking, listening, reading, and writing in their language of study.
2. Students will be able to interpret a variety of cultural products (texts, films, music, art, photography, etc.).
3. Students will be exposed to methods of inquiry and research appropriate to the humanities.
4. To prepare students for a broad selection of professional activities appropriate to the 21st century job market in which knowledge of a foreign language is important, including primary/secondary language instruction, as well as graduate or other professional studies.
5. The students with modern language teaching majors and minors will be able to apply theories and research about second language learning and current teaching methodologies that promote communicative competence to practical language teaching situations

Language faculty members in the Department of World Languages and Cultures teach courses leading to undergraduate degrees in Asian Studies, Chinese, French, German, Portuguese and Spanish, as well as to undergraduate minors in Arabic Studies, Chinese, French, German, Japanese, Portuguese, Russian, and Spanish. Teaching emphases and minors are also offered in Chinese, French, German, and Spanish. The department also offers a minor program in Linguistics. Other languages taught through the department include Arabic (with on-campus classes), as well as Korean. Italian is taught through Distance Education (see http://distance.usu.edu).

Sample Four-year Plans

Sample semester-by-semester four-year plans for students working toward a Bachelor of Arts degree in French, German, or Spanish can be found in the department. Students should consult with the academic advisor to develop a plan of study tailored to their individual needs and interests.

Proficiency Tests, Placement in Language Courses, and Obtaining Credit by Special Examination

Students who have completed one or more years of language study in French, German, Russian, or Spanish may take the CAPE proficiency tests offered by the Department of World Languages and Cultures to determine proximate placement in language courses. After taking the test and if they are a currently enrolled USU student, French, German, Russian, and Spanish testers have the option of buying 4-16 language credits and may get help with authorization and placement in a language course.

(**Note:** In order to purchase these language credits, a student must be an active student, have a USU "A" number, and be a current student enrolled in one or more courses at Utah State University.)

Students with skills beyond the basic level in Chinese or Japanese should take a departmental placement test for those languages. If someone taking these tests places at a 3000 proficiency level, they still need to take the 3010/3020 course in the language. After they complete the class with at least an A or B, they can purchase lower-division Chinese or Japanese credits that aren't showing on their transcript as classes. Students who are placed at the 1000 or 2000 proficiency level after testing must also take one 4-5 credit course that they place into. If that student gets at least an "A" or "B" range grade in that course, then they can come to the LPCS office and get a form to purchase the lower-division credits. The Chinese or Japanese class needs to be at a higher level than the credits to be acquired.

Students with skills beyond the basic level in Portuguese, Italian, or Korean need to contact the departmental office to obtain authorization and help getting into the Portuguese, Italian, or Korean course available. Portuguese and Korean are available as regular classes. Italian is available as a Distance Education class. After taking the higher-level class that is available and getting an A or B in that class, students can purchase 4-16 lower-division credits in Portuguese and Italian. With Korean, students can purchase 5-20 lower-division credits. These credits are a grade for each class and will affect the overall GPA.

The testing credits will not count toward a certain semester or the institution GPA, but will be counted into the overall GPA. For further details, students should email the department at lpsc@usu.edu or call (435) 797-1209.

Students who are proficient in a language not offered at USU (the list is available in Main 204) may receive up to 16 semester credits by taking the FLATS foreign language proficiency test. Students will need to have the USU language department proctor this test for them. There is a $25 proctor fee. Students interested in taking this test should register online at flats.byu.edu/. Before registering, students will pay online for the $50 FLATS test fee. Students will also need to provide the USU proctor information and where to have the test results sent to. This information may be obtained at Main 204, 435-797-1209 or lpcs@usu.edu.

(**Note:** In order to purchase these language credits, a student must have a USU "A" number and be a current student enrolled in and attending one or more courses at Utah State University.)

Technology Assisted Language Center

The department operates a technology assisted language center, located in Main 004, for instructional use associated with language classes, and for students desiring additional language practice outside of the classroom. The center includes computer workstations capable of running multimedia applications, as well as audio equipment.

Exchange Programs, Semester Abroad Programs, and Summer Study Abroad Programs

The World Languages and Cultures Department assists students with academic advising for study abroad exchange programs, semester abroad programs, and summer study abroad programs. Students must be in good standing at the university, and it is recommended that the students have some language preparation in order to participate in these programs. Students desiring to count study abroad credits toward a major or minor in this department must obtain approval for these courses prior to their participation in the study abroad program. For more information, contact the departmental office at (435) 797-1211 or visit the Department Study Abroad Programs website at lpcs.usu.edu/programs/languages/study-abroad/index.

For other study abroad program information, contact the USU Study Abroad Office, Taggart Student Center 311, or visit the Study Abroad Programs website at: http://www.usu.edu/studyabroad/.

National Honor Societies

Sigma Delta Pi (SDP) is the National Collegiate Hispanic Honor Society of the American Association of Teachers of Spanish and Portuguese for students studying Spanish. Among the goals of SDP are to honor those who attain excellence in the study of the Spanish language and of the literature and culture of the Spanish-speaking peoples, and to encourage college and university students to acquire a greater interest in and a deeper understanding of Hispanic culture.

Phi Sigma Iota (PSI) is an international language honor society for juniors, seniors, and graduate students who excel in foreign language. PSI promotes international communication and understanding, as well as a sentiment of unity among nations. Phi Sigma Iota helps members further their training through scholarship and graduation honors. The society also promotes trips abroad.

Intensive English Language Institute

Objectives

The Intensive English Language Institute (IELI) is an academic program contained in the College of Humanities and Social Sciences and the World Languages and Cultures Department. IELI teaches international students, residents, and refugees the English skills and cultural knowledge they need to be successful university students. IELI also trains international teaching assistants (ITAs) for USU. Information about the ITA training is available through the School of Graduate Studies.

The IELI program accepts students seeking a degree at Utah State University, as well as students who want to study English for personal or professional reasons. Students may enroll to study only English.

To be admitted to USU as an undergraduate, international applicants must present:

- a TOEFL score of 71 iBT (internet-based test) or 525 paper/pencil test, or
- an IELTS score of 6.0 (with a minimum of 5.0 on each subscale)

To be admitted to USU as a graduate student, international applicants must present:

- a TOEFL score of 79-80 iBT (internet-based test) or 550 paper-pencil test
- an IELTS score of 6.0

International applicants with less than the above scores on either the TOEFL or IELTS, or not presenting TOEFL or IELTS scores, must take the IELI Placement Test, given at the beginning of each semester (fall, spring, and summer), or be exempted from study in IELI and permitted to take classes in their major fields.

U.S. residents must present an SAT score or an ACT score for admission to USU. Residents who are still learning English and who do not have an ACT score of at least 17-22 (or a SAT score of at least 900-1100) may be admitted to USU on a provisional basis if they have graduated from a U.S. high school with a GPA of a least 2.5. They may take the IELI Placement Test and study in IELI until they have successfully completed the program, after which they may be eligible to continue in an academic major.

Curriculum

Four levels of study are offered each semester. The ability levels of classes range from high-beginning through advanced. Students entering IELI must have a basic knowledge of English in listening, speaking, reading and writing. Several of the level 1 and 2 classes are combined into multilevel classes. Classes focus on listening, speaking, reading, writing, and cultural skills. In addition, there are topics courses, covering topics ranging from current events and the environment to academic literacy and the cultures of the U.S. Students must complete one topics course for every level they study in the IELI program.

Students advance from one level of a class to the next higher level by obtaining a grade of C- or higher in the lower-level class. Students who do not obtain a C- or higher in a class must repeat the class. Students who complete all level 4 classes with a C- or higher may begin taking courses outside of IELI. Students at level 4, who have less than a full course load remaining in IELI, must take other university credits sufficient to stay in status with visa requirements. Exceptions to this policy must be approved by the director of IELI in consultation with students' major field advisors and the Office of International Students and Scholars.

Credit for Intensive English Study

Classes in IELI carry academic credit. Full-time students at each level take 18 credits per semester. A student who begins IELI at level 1 and progresses to level 4 may earn a total of 72 undergraduate elective credits. While all the credits will appear on a student's transcript, a maximum of 18 can be counted toward graduation. Application of the 18 credits will be determined by the student's college and major department. Students must, therefore, meet with their departmental advisors to determine the role of IELI credits in their graduation requirements. IELI 2470 and IELI 2475 count toward the General Education Breadth Social Science (BSS) requirement.

Services

New students in IELI take the Placement Examination and attend an orientation meeting prior to the beginning of each semester. All students are assigned an advisor in IELI who helps them with various difficulties they may encounter. In addition, all the services and privileges offered to students on campus are available to IELI students. These services include healthcare, clubs, recreational opportunities, and numerous special programs for international students.

College of Arts and Sciences Faculty

Programs

Arabic Studies - Minor

Asian Studies - Minor

Asian Studies - BA
Chinese - Minor
Chinese Teaching - Minor
Dual Language Immersion - Institutional Certificate of Proficiency
French - Minor
French Teaching Emphasis - Minor
German Teaching Emphasis - Minor
German - Minor
Healthcare Interpretation - Certificate
Japanese - Minor
Latin American Studies - Minor
Legal and Business Translation and Interpretation - Certificate
Linguistics - Minor
Middle East Studies - Minor
Portuguese - Minor
Russian - Minor
Second Language Teaching - MS
Spanish - Minor
Spanish Teaching Emphasis - Minor
Teaching English to Speakers of Other Languages (TESOL) - Certificate
World Languages and Cultures: Arabic Emphasis - BA
World Languages and Cultures - BA
World Languages and Cultures: Chinese Emphasis - BA
World Languages and Cultures: French Emphasis - BA
World Languages and Cultures: German Emphasis - BA
World Languages and Cultures: Japanese Emphasis - BA
World Languages and Cultures: Linguistics Emphasis - BA
World Languages and Cultures: Portuguese Emphasis - BA
World Languages and Cultures: Russian Emphasis - BA
World Languages and Cultures: Spanish Emphasis - BA
World Languages and Cultures: Translation and Interpretation Emphasis - BA

Courses

ARBC1010 - Arabic First Year I - 4 - Credits
ARBC1020 - Arabic First Year II - 4 - Credits
ARBC1800 - Study-Abroad Arabic Language and Society I - 1 - 8 Credits
ARBC2010 - Intermediate Standard Arabic Second Year I - 4 - Credits
ARBC2020 - Intermediate Standard Arabic Second Year II - 4 - Credits
ARBC2800 - Study-Abroad Arabic Language and Society II - 1 - 8 Credits
ARBC3010 - Advanced Arabic I - 3 - Credits
ARBC3020 - Advanced Arabic II - 3 - Credits
ARBC3030 - Introduction to Islam (DHA) - 3 - Credits
ARBC3800 - Study Abroad in Jordan - 3 - Credits
ARBC4040 - Language and Culture of the Arab World (DHA) - 3 - Credits
ARBC4920 - Arabic Language Tutoring - 1 - 3 Credits
CHIN1010 - Chinese First Year I - 4 - Credits
CHIN1020 - Chinese First Year II - 4 - Credits
CHIN1080 - Intensive Chinese Reading and Writing - 3 - Credits
CHIN1800 - Chinese I Study Abroad - 1 - 5 Credits
CHIN2010 - Chinese Second Year I - 4 - Credits
CHIN2020 - Chinese Second Year II - 4 - Credits
CHIN2050 - Chinese Conversation - 3 - Credits
CHIN2800 - Chinese II Study Abroad - 1 - 5 Credits
CHIN3000 - Chinese Conversation - 3 - Credits
CHIN3010 - Chinese Third Year I - 4 - Credits
CHIN3020 - Chinese Third Year II - 4 - Credits
CHIN3060 - Chinese Grammar and Composition - 3 - Credits
CHIN3080 - Chinese Outreach Practicum - 1 - 3 Credits
CHIN3090 - Introduction to Modern Chinese Literature and Film - 3 - Credits
CHIN3100 - Readings in Contemporary Chinese Culture (DHA) - 3 - Credits
CHIN3116 - Exploring China - Past, Present and You - 3 - Credits
CHIN3117 - Chinese Legacies - Tradition and Modernity - 3 - Credits
CHIN3118 - Chinese Popular Culture - 3 - Credits
CHIN3510 - Chinese Business Presentations - 3 - Credits
CHIN3520 - Chinese Business Strategies - 3 - Credits
CHIN3540 - Translating into and from Chinese (CI) - 3 - Credits
CHIN3600 - Contemporary Children's Literature in Chinese - 3 - Credits
CHIN3800 - Chinese III Study Abroad - 1 - 4 Credits
CHIN3880 - Individual Readings in Chinese - 1 - 4 Credits
CHIN3900 - Topics in Chinese Studies - 3 - Credits
CHIN4010 - Chinese Multimedia - 3 - Credits
CHIN4030 - Love and Death in Chinese Film - 3 - Credits
CHIN4050 - Chinese Media Topics - 3 - Credits
CHIN4070 - Advanced Chinese Reading - 3 - Credits
CHIN4080 - Expressive Chinese Communication Skills - 3 - Credits
CHIN4090 - Readings in Masterworks of Classical Chinese Fiction - 3 - Credits
CHIN4100 - Teaching Chinese as a Foreign Language - 3 - Credits
CHIN4210 - Chinese/Sinophone Theatre and Performance - 3 - Credits
CHIN4800 - Chinese IV Study Abroad - 1 - 4 Credits
CHIN4920 - Chinese Language Tutoring - 1 - Credits
CHIN6100 - Teaching Chinese as a Foreign Language - 3 - Credits
FREN1010 - French First Year I - 4 - Credits
FREN1020 - French First Year II - 4 - Credits
FREN1030 - Accelerated French - 4 - Credits
FREN1050 - French First Year I Study Abroad - 4 - Credits
FREN1150 - French First Year II Study Abroad - 4 - Credits
FREN1300 - French for Everyday Communication I - 3 - Credits
FREN1820 - Beginning Independent Study: Experiencing Francophone Culture - 2 - Credits
FREN2010 - French Second Year I - 4 - Credits
FREN2020 - French Second Year II - 4 - Credits
FREN2030 - Intermediate French for Everyday Communication - 3 - Credits
FREN2050 - French Second Year I Study Abroad - 4 - Credits
FREN2150 - French Second Year II Study Abroad - 4 - Credits
FREN2300 - Intermediate French for Everyday Communication - 3 - Credits
FREN2820 - Intermediate Independent Study: Experiencing Francophone Culture - 2 - Credits
FREN2880 - Individual Readings - 3 - Credits
FREN2988 - Special Problems - 1 - 3 Credits
FREN3030 - Advanced French for Everyday Communication - 3 - Credits
FREN3060 - French Intermediate Written Communication (CI) - 3 - Credits

FREN3070 - Advanced French Study Abroad I - 4 - Credits
FREN3080 - Advanced French Study Abroad II - 4 - Credits
FREN3116 - Adventure and Discovery: Journey in the Francophone World - 3 - Credits
FREN3117 - Francophone Studies: Past, Present and Future - 3 - Credits
FREN3118 - Paris, City of Lights - 3 - Credits
FREN3400 - Introduction to Translation - 3 - Credits
FREN3500 - French and Francophone Authors (DHA) - 3 - Credits
FREN3510 - Business French (CI) - 3 - Credits
FREN3550 - French Civilization (DHA) - 3 - Credits
FREN3570 - France Today - 3 - Credits
FREN3600 - Textual Analysis - 3 - Credits
FREN3700 - Francophone Music (CI) - 3 - Credits
FREN3820 - Advanced Independent Study: Experiencing Francophone Culture - 2 - Credits
FREN3880 - Individual Readings - 1 - 4 Credits
FREN3900 - Topics in French and Francophone Studies - 3 - Credits
FREN4060 - Advanced French Conversation (CI) - 3 - Credits
FREN4090 - Advanced Written Communication (CI) - 3 - Credits
FREN4200 - French Linguistics and Phonetics - 3 - Credits
FREN4610 - Studies in French Literature and Culture (DHA) - 3 - Credits
FREN4620 - Genre Studies in French Literature (DHA) - 3 - Credits
FREN4630 - French and Francophone Fairy Tales (DHA) - 3 - Credits
FREN4640 - Exploring the French and Francophone Short Story - 3 - Credits
FREN4880 - Individual Readings - 1 - 4 Credits
FREN4900 - Seminar in French and Francophone Studies - 3 - Credits
FREN4920 - French Language Tutoring - 1 - Credits
FREN6200 - French Linguistics and Phonetics - 3 - Credits
GERM1010 - German First Year I - 4 - Credits
GERM1020 - German First Year II - 4 - Credits
GERM1030 - Accelerated German First Year - 4 - Credits
GERM1800 - German I Study Abroad - 1 - 8 Credits
GERM2010 - German Second Year I - 4 - Credits
GERM2020 - German Second Year II - 4 - Credits
GERM2030 - Accelerated German Second Year - 4 - Credits
GERM2550 - German Civilization - 3 - Credits
GERM2570 - Contemporary Germany - 3 - Credits
GERM2800 - German II Study Abroad - 1 - 8 Credits
GERM2880 - Individual Readings - 1 - 4 Credits
GERM2988 - Special Problems - 1 - 3 Credits
GERM3000 - Introduction to German Studies (DHA) - 3 - Credits
GERM3040 - Advanced German Grammar & Culture (CI) - 3 - Credits
GERM3050 - Advanced German Conversation (CI) - 3 - Credits
GERM3116 - Popular Culture in the German-Speaking World - 3 - Credits
GERM3117 - Stories and Storytelling: Young Voices & Cultural Identity - 3 - Credits
GERM3118 - Berlin: Monuments, Multiculturalism, and Memory - 3 - Credits
GERM3300 - Contemporary German Speaking Cultures (DHA) - 3 - Credits
GERM3510 - Business German (CI) - 3 - Credits
GERM3540 - Techniques in Translating German Texts (CI) - 3 - Credits
GERM3550 - Cultural History of German Speaking Peoples (DHA) - 3 - Credits
GERM3600 - Classic German Art and Literature (DHA) - 3 - Credits
GERM3610 - Contemporary German Art and Literature (DHA)9 - 3 - Credits
GERM3750 - German Legends and Fairy Tales - 3 - Credits
GERM3800 - German III Study Abroad - 1 - 8 Credits
GERM3880 - Individual Readings - 1 - 4 Credits
GERM4200 - Applied German Linguistics and Phonetics - 3 - Credits
GERM4600 - Faust's Legacy - 3 - Credits
GERM4610 - German Narratives - 3 - Credits
GERM4650 - Trends in Modern Germany (DHA) - 3 - Credits
GERM4800 - German IV Study Abroad - 1 - 8 Credits
GERM4880 - Individual Readings - 1 - 4 Credits
GERM4900 - Special Topics - 3 - Credits
GERM4910 - German for Special Purposes - 3 - Credits
GERM4920 - German Language Tutoring - 1 - Credits
GERM6200 - German Linguistics and Phonetics - 3 - Credits
IELI1900 - Intermediate Topics in ESL and U.S. Culture - 1 - 3 Credits
ITAL1010 - Italian First Year I - 4 - Credits
ITAL1020 - Italian First Year II - 4 - Credits
ITAL2010 - Italian Second Year I - 4 - Credits
ITAL2020 - Italian Second Year II - 4 - Credits
ITAL2988 - Special Problems - 1 - 3 Credits
JAPN1010 - Japanese First Year I - 4 - Credits
JAPN1020 - Japanese First Year II - 4 - Credits
JAPN2010 - Japanese Second Year I - 4 - Credits
JAPN2020 - Japanese Second Year II - 4 - Credits
JAPN2988 - Special Problems - 1 - 3 Credits
JAPN3000 - Gateway to Upper-Division Japanese - 4 - Credits
JAPN3010 - Japanese Third Year I - 4 - Credits
JAPN3020 - Japanese Third Year II - 4 - Credits
JAPN3050 - Japanese Calligraphy - 1 - Credits
JAPN3060 - Japanese Communication - 3 - Credits
JAPN3070 - Introduction to Japanese Culture and Society - 1 - Credits
JAPN3080 - Japanese Service Learning - 3 - Credits
JAPN3090 - Introduction to Japanese Literature - 3 - Credits
JAPN3100 - Readings in Contemporary Japanese Culture - 3 - Credits
JAPN3150 - Tadoku: Extensive Reading in Japanese - 1 - Credits
JAPN3300 - Interdisciplinary Project in Japan - 1 - Credits
JAPN3510 - Japanese for the Business Environment - 3 - Credits
JAPN3560 - Studies in Japanese Film - 3 - Credits
JAPN4200 - Introduction to Japanese Linguistics - 3 - Credits
JAPN4250 - Internship/Coop - 3 - 9 Credits
JAPN4800 - Japanese Education System - Study Abroad - 3 - Credits
JAPN4920 - Japanese Language Tutoring - 1 - Credits
KOR1010 - Korean First Year I - 5 - Credits
KOR1020 - Korean First Year II - 5 - Credits
KOR2010 - Korean Second Year I - 5 - Credits
KOR2020 - Korean Second Year II - 5 - Credits
KOR3010 - Korean Third Year I - 4 - Credits
KOR3020 - Korean Third Year II - 4 - Credits
KOR3510 - Business Korean - 3 - Credits
KOR4920 - Korean Language Tutoring - 1 - Credits
LANG1050 - Language Skills and Career Design - 1 - Credits
LANG2100 - Languages in Global and Historical Context (BSS) - 3 - Credits
LANG2400 - Cultures Across the Globe - 3 - Credits
LANG2420 - Writing from Academic Sources (CL1) - 4 - Credits
LANG2430 - Speaking and Writing for a Multilingual Audience - 3 - Credits
LANG3100 - A Linguistic Introduction to English - 3 - Credits
LANG3110 - Language Learning Pedagogy - 3 - Credits
LANG3120 - Introduction to English Language Assessment - 3 - Credits
LANG3150 - TESOL Practicum - 2 - Credits
LANG3550 - Culture of East Asia (DHA) - 3 - Credits
LANG3570 - Narrative Ethics in Asian Literature and Film (DHA) - 3 - Credits
LANG3580 - Israeli-Palestinian Conflict: Past, Present, and Everyday Life - 3 - Credits
LANG3650 - Women and Gender in East Asian Culture - 3 - Credits
LANG3990 - Special Topics - 1 - 5 Credits
LANG4200 - Senior Honors Seminar - 1 - Credits
LANG4210 - Senior Honors Thesis - 1 - 4 Credits
LANG4330 - Advanced Perspectives in Global Communication - 3 - Credits
LANG4822 - The Vietnam War - 3 - Credits
LANG5950 - Global Communication Practicum - 3 - Credits
LANG7010 - Academic Writing for Graduate Students - 3 - Credits
LANGAAAA - Language Exam 1st Year I - 4 - Credits
LANGBBBB - Language Exam 1st Year II - 4 - Credits
LANGCCCC - Language Exam 2nd Year I - 4 - Credits
LANGDDDD - Language Exam 2nd Year II - 4 - Credits
LING2100 - Languages in Global and Historical Context (BSS) - 3 - Credits
LING2250 - Cooperative Education - 1 - 3 Credits
LING2500 - Language & Religion - 3 - Credits
LING3100 - Language in Social Context - 3 - Credits
LING3200 - Introduction to Linguistics (DSS) - 3 - Credits
LING3300 - Clinical Experience I - 1 - Credits
LING4100 - The Study of Language - 3 - Credits

LING4250 - Cooperative Education - 1 - 3 Credits
LING4300 - Clinical Experience II - 1 - Credits
LING4520 - Technology for Language Teaching - 3 - Credits
LING4700 - Foundations of Dual Language and Immersion Education - 3 - Credits
LING4900 - Analysis of Cross-Cultural Difference - 3 - Credits
LING4920 - Practicum in Language Tutoring - 1 - Credits
LING5400 - Teaching Modern Languages - 3 - Credits
LING5410 - Teaching Languages in Context: Lesson Planning - 3 - Credits
LING5500 - Student Teaching Seminar - 2 - Credits
LING5630 - Student Teaching in Secondary Schools - 10 - Credits
LING6010 - Research in Second Language Learning - 3 - Credits
LING6100 - Second Language Assessment: Theory and Practice - 3 - Credits
LING6300 - Clinical Experience I - 1 - Credits
LING6310 - Clinical Experience II - 1 - Credits
LING6350 - Pro-Seminar on Second Language Teaching - 1 - 3 Credits
LING6400 - Second Language Teaching: Theory and Practice - 3 - Credits
LING6410 - Teaching Modern Languages - 3 - Credits
LING6500 - Second Language Acquisition: Theory and Practice - 3 - Credits
LING6510 - Linguistic Analysis - 3 - Credits
LING6520 - Technology for Language Teaching - 3 - Credits
LING6600 - Sociocultural Perspectives on Language Learning - 3 - Credits
LING6700 - Foundations of Dual Language and Immersion Education - 3 - Credits
LING6800 - Topics in Second Language Acquisition - 3 - Credits
LING6810 - Current Issues in Teaching World Languages - 3 - Credits
LING6820 - Second Language Pragmatics - 3 - Credits
LING6830 - Sociolinguistics, Sociolinguistic Competence, and Second Language Acquisition - 3 - Credits
LING6840 - Second Language Writing: Theory and Practice - 3 - Credits
LING6850 - Second Language Reading: Theory and Practice - 3 - Credits
LING6900 - Culture Teaching and Learning: Theory and Practice - 3 - Credits
LING6910 - Exploring the Portfolio - 1 - Credits
LING6920 - Developing the Portfolio - 1 - Credits
LING6930 - Finishing the Portfolio - 1 - Credits
LING6940 - Independent Study - 1 - 3 Credits
LING6950 - Second Language Teaching Practicum - 1 - 3 Credits
LING6970 - Thesis Research - 3 - 6 Credits
LING6990 - Continuing Graduate Advisement - 1 - 9 Credits
NAV1010 - Beginning Navajo for Native Speakers - 3 - Credits
NAV1030 - Beginning Navajo for Non-Native Speakers - 3 - Credits
NAV2010 - Intermediate Navajo for Native Speakers - 3 - Credits
NAV2030 - Intermediate Navajo for Non-Native Speakers - 3 - Credits
NAV2070 - Navajo Literacy for Native Speakers - 3 - Credits
NAV2080 - Advanced Navajo for Native Speakers - 3 - Credits
NAV3040 - Navajo Literacy and Grammar for Native Speakers - 3 - Credits
NAV3050 - Navajo Descriptive and Narrative Writing - 3 - Credits
NAV3100 - Navajo Healthcare Terminology - 3 - Credits
NAV4400 - Teaching Navajo as a Second Language - 3 - Credits
NAV4410 - Teaching Navajo to Native Speakers - 3 - Credits
PORT1010 - Portuguese First Year I - 4 - Credits
PORT1020 - Portuguese First Year II - 4 - Credits
PORT1030 - Accelerated Portuguese First Year - 4 - Credits
PORT1050 - Intensive Portuguese for Spanish Speakers - 4 - Credits
PORT1800 - Portuguese I Study Abroad - 1 - 4 Credits
PORT1820 - Beginning Independent Study Abroad: Experiencing Lusophone Culture I - 2 - Credits
PORT2010 - Portuguese Second Year I - 4 - Credits
PORT2020 - Portuguese Second Year II - 4 - Credits
PORT2030 - Accelerated Portuguese Second Year - 4 - Credits
PORT2800 - Portuguese II Study Abroad - 1 - 4 Credits
PORT2820 - Intermediate Independent Study: Experiencing Lusophone Culture II - 2 - Credits
PORT2880 - Individual Readings - 1 - 4 Credits
PORT3000 - Intermediate Grammar and Composition - 3 - Credits
PORT3040 - Advanced Portuguese Grammar and Composition (CI) - 3 - Credits
PORT3081 - Healthcare Translation in Portuguese - 3 - Credits
PORT3100 - Healthcare Portuguese - 3 - Credits
PORT3116 - Navigating Identities of the Portuguese-speaking World - 3 - Credits
PORT3117 - Cultural Issues Through Literature and FIlm - 3 - Credits
PORT3118 - Popular Culture in the Portuguese-speaking World - 3 - Credits
PORT3400 - Popular Music in the Portuguese-Speaking World - 3 - Credits
PORT3510 - Business Portuguese - 3 - Credits
PORT3540 - Introduction to Translation Studies in Portuguese - 3 - Credits
PORT3550 - Rio, The Wonder City - 3 - Credits
PORT3570 - Brazilian Culture and Civilization (DHA) - 3 - Credits
PORT3630 - Literatures of the Portuguese-Speaking World (DHA) - 3 - Credits
PORT3700 - Contemporary Brazilian Cinema - 3 - Credits
PORT3800 - Portuguese III Study Abroad - 1 - 4 Credits
PORT3820 - Advanced Independent Study Abroad: Experiencing Lusophone Culture III - 2 - Credits
PORT4000 - Contemporary Issues in Brazil - 3 - Credits
PORT4071 - Simultaneous and Consecutive Healthcare Interpretation - 3 - Credits
PORT4081 - Portuguese Medical Interpreting - 3 - Credits
PORT4100 - Trends in Lusophone Cultures - 3 - Credits
PORT4200 - Brazilian Media in Global Context - 3 - Credits
PORT4300 - Luso-Afro-Brazilian Women in Translation - 3 - Credits
PORT4800 - Portuguese IV Study Abroad - 1 - 4 Credits
PORT4880 - Individual Readings - 1 - 4 Credits
PORT4920 - Portuguese Language Tutoring - 1 - Credits
RUSS1010 - Russian First Year I - 4 - Credits
RUSS1020 - Russian First Year II - 4 - Credits
RUSS1030 - Accelerated Russian First Year - 4 - Credits
RUSS1050 - Eastern Slavic Civilization - 3 - Credits
RUSS2010 - Russian Second Russian Second Year I - 4 - Credits
RUSS2020 - Russian Second Year II - 4 - Credits
RUSS2030 - Accelerated Russian Second Year - 4 - Credits
RUSS2700 - Exploring Russian Folktales - 3 - Credits
RUSS2880 - Individual Readings - 1 - 4 Credits
RUSS2988 - Special Problems - 1 - 3 Credits
RUSS3040 - Advanced Russian Grammar and Composition - 3 - Credits
RUSS3050 - Advanced Russian Grammar and Composition - 3 - Credits
RUSS3100 - Healthcare Russian - 3 - Credits
RUSS3116 - Rusophone Popular Culture: Trends and Traditions - 3 - Credits
RUSS3117 - Exploring Russia: East to West - 3 - Credits
RUSS3300 - Contemporary Russian Language and Culture (DHA) - 3 - Credits
RUSS3400 - Russian Language through Art - 3 - Credits
RUSS3510 - Business Russian (CI) - 3 - Credits
RUSS3540 - Russian Translation for Science, Business, and Culture - 3 - Credits
RUSS3600 - Ethical Communication in Russian Life - 3 - Credits
RUSS4081 - Medical Interpreting Training - 3 - Credits
RUSS4880 - Individual Readings - 1 - 4 Credits
RUSS4920 - Russian Language Tutoring - 1 - 3 Credits
SPAN1010 - Spanish First Year I - 4 - Credits
SPAN1020 - Spanish First Year II - 4 - Credits
SPAN1030 - Accelerated Spanish First Year - 4 - Credits
SPAN1050 - Intensive First Year Spanish - 8 - Credits
SPAN1800 - Spanish I Study Abroad - 1 - 4 Credits
SPAN2010 - Spanish Second Year I - 4 - Credits
SPAN2020 - Spanish Second Year II - 4 - Credits
SPAN2030 - Accelerated Spanish Second Year - 4 - Credits
SPAN2800 - Spanish II Study Abroad - 1 - 4 Credits
SPAN2988 - Special Problems - 1 - 3 Credits
SPAN3010 - Hispanic Outreach Practicum - 1 - 4 Credits
SPAN3030 - Dungeons and Dialogues: Spanish Speaking Practice through Gameplay - 3 - Credits
SPAN3040 - Advanced Spanish Grammar - 3 - Credits
SPAN3041 - Bridging the Gap Medical Interpreter - 3 - Credits
SPAN3060 - Advanced Spanish Conversation and Composition (CI) - 3 - Credits
SPAN3061 - Fundamentals of Translation and Interpretation - 3 - Credits
SPAN3081 - Healthcare Translation - 3 - Credits
SPAN3082 - Legal and Business Translation - 3 - Credits
SPAN3083 - Literary Translation - 3 - Credits
SPAN3100 - Spanish Healthcare - 3 - Credits
SPAN3116 - Spanish Pop Culture: Film, Media and Entertainment - 3 - Credits

SPAN3117 - Building Identities (Breaking Down Walls, Building Identities) - 3 - Credits
SPAN3118 - Literature and Film: Contemporary Issues - 3 - Credits
SPAN3300 - Introduction to Hispanic Literature and Literary Analysis - 3 - Credits
SPAN3400 - Introduction to Hispanic Cinema - 3 - Credits
SPAN3510 - Business Spanish - 3 - Credits
SPAN3520 - Business Spanish Practicum - 1 - 4 Credits
SPAN3550 - Spanish Culture and Civilization (DHA) - 3 - Credits
SPAN3560 - Introduction to U.S. Latino/a Culture - 3 - Credits
SPAN3570 - Hispanic American Culture and Civilization (DHA) - 3 - Credits
SPAN3600 - Survey of Spanish Literature I (DHA) - 3 - Credits
SPAN3610 - Survey of Spanish Literature II (DHA/CI) - 3 - Credits
SPAN3620 - Survey of Hispanic American Literature I (DHA) - 3 - Credits
SPAN3630 - Survey of Hispanic American Literature II (DHA) - 3 - Credits
SPAN3640 - Introduction to U.S. Latino/a Literature - 3 - Credits
SPAN3650 - Spanish Literature-Study Abroad - 1 - 4 Credits
SPAN3660 - Hispanic American Literature - Study Abroad - 1 - 4 Credits
SPAN3800 - Spanish III Study Abroad - 1 - 4 Credits
SPAN4010 - Spanish for Social Services - 3 - Credits
SPAN4071 - Simultaneous and Consecutive Healthcare Interpretation - 3 - Credits
SPAN4072 - Simultaneous and Consecutive Legal Interpretation - 3 - Credits
SPAN4081 - Medical Interpretation Training (BTG) - 3 - Credits
SPAN4082 - Advanced Legal Translation and Interpretation - 3 - Credits
SPAN4091 - Computer Assisted Translation - 3 - Credits
SPAN4092 - Technical Communication Applied to Translation - 3 - Credits
SPAN4093 - Translation/Interpretation Internship - 3 - Credits
SPAN4200 - Introduction to Hispanic Linguistics - 3 - Credits
SPAN4800 - Hispanic Culture and Civilization-Study Abroad - 1 - 4 Credits
SPAN4880 - Individual Readings - 1 - 4 Credits
SPAN4900 - Topics of Spanish Cultural Production - 3 - Credits
SPAN4910 - Topics of Hispanic American Cultural Production - 3 - Credits
SPAN4920 - Spanish Language Tutoring - 1 - 3 Credits
SPAN4930 - Topics of U.S. Latina/o Literature and Culture - 3 - Credits
SPAN4940 - Topics of Hispanic American Cultural Production – Study Abroad - 3 - Credits
SPAN4990 - Spanish Degree Assessment - 1 - Credits
SPAN5060 - Spanish for Professional and Academic Purposes - 3 - Credits
SPAN6200 - Spanish Linguistics and Phonetics - 3 - Credits

All Programs

Additive and Advanced Manufacturing Process - Certificate

Program Overview

College
College of Agriculture & Natural Resources

Department
Technology, Design & Technical Ed

Program Level
Undergraduate

About this Degree

The Additive and Advanced Manufacturing Process Academic Certificate is a comprehensive program that provides students with the essential skills and knowledge required to excel in additive and advanced manufacturing. Through a carefully designed curriculum, students will gain expertise in computer-aided drafting, computer-integrated manufacturing systems, design optimization for additive manufacturing, and cutting-edge additive manufacturing techniques.

Upon successfully completing the 15 required credits in the Additive and Advanced Manufacturing Process Academic Certificate, students will be well-equipped to contribute to the rapidly growing field of additive and advanced manufacturing.

Program Requirements

Total Credits Required In Program Coursework
-

Total Credits Required To Earn This Credential
15

Simple Requisites

Program Requirements

Additive and Advanced Manufacturing Process - Certificate

Type
Completion Requirement

Required Courses (15 credits)

Complete ALL of the following Courses:

- TESY3030 - Computer-Integrated Manufacturing Systems - 3cr.
- TESY3040 - Design for Additive Manufacturing - 3cr.
- TESY3200 - Additive Manufacturing I - 3cr.
- TESY3210 - Additive Manufacturing II - 3cr.
- TESY3270 - Advanced Computer-Aided Drafting - 3cr.

Program Learning Outcomes

Program Learning Outcomes
https://caas.usu.edu/tdte/assessment/

Archiving and Public Programming - Post Bachelor's Certificate

Program Overview

College
College of Arts & Sciences

Department
History, Cultures & Ideas

Program Level
Graduate

Program Requirements

Total Credits Required In Program Coursework
12

Total Credits Required To Earn This Credential
12

Simple Requisites

Program Requirements

The Post-Bachelor's Certificate in Archiving and Public Programming provides professionalization and skills for those seeking employment in public, state, and non-profit institutions. It is open to any student already in enrolled in a graduate program at Utah State University. Please contact Lisa Gabbert, the Certificate advisor, for more information: lisa.gabbert@usu.edu.

Requires 12 total credits with a minimum 3.0 GPA in all coursework taken to fulfill certificate requirements.

Archiving and Public Programming - Post Bachelor's Certificate

Type
Completion Requirement

Required Courses (6 credits)

Fulfill ALL of the following requirements:

Required Course

Complete ALL of the following Courses:

- HIST6840 - Archives Management/Archives Internship - 1cr.

AND

Required Course

Complete at least 1 of the following courses:

- HIST6500 - Archiving Internship - 2cr.
- HIST6540 - Museum Internship - 2cr.
- ENGL6900 - Graduate Internship - 1cr.

Note: With permission of the certificate advisor, students may also substitute the internship course from their own department.

Elective Courses (6 credits)

Students should check with the certificate advisor, graduate program director, and with the instructor as they plan electives. Courses taken at the undergraduate level must be given graduate credit so students should work with instructor and advisor towards that goal.

Earn at least 6 credits from the following:

- ANTH6400 - Collections Management - 1cr.
- ARTH6270 - Graduate Native North American Art - 3cr.
- CCA3060 - Quantitative Methods for the Arts (QI) - 3cr.
- CMST3280 - Organizations and Social Change - 3cr.
- DATA6230 - Management of Database Systems - 3cr.
- HIST6720 - Oral History and Fieldwork Methods - 3cr.
- HIST6730 - Public Folklore - 3cr.
- ENGL6920 - Directed Study - 1cr.
- ENVS3400 - Fundamentals of Tourism - 3cr.
- HIST6880 - Special Topics: Advanced History Workshop - 1cr.
- ITLS6215 - Video and Audio Design and Production I - 3cr.
- ITLS6245 - eLearning Authoring Tools - 3cr.
- ITLS6265 - Internet Design and Development - 3cr.
- ITLS6760 - Grant and Proposal Writing - 3cr.
- JCOM4040 - Social Media Content Development - 3cr.
- JCOM5230 - Advanced Video Documentary Production - 3cr.
- JCOM6320 - Public Relations Agency - 3cr.
- MSLE6470 - Project Planning and Execution - 3cr.
- MUSC3970 - Non-Profit Arts Management - 3cr.
- NEPA6260 - Cultural and Natural Resource Compliance - 2cr.
- TCR3230 - Community Grant Writing - 3cr.
- TCR6240 - Communication Design - 3cr.

Program Learning Outcomes

Program Learning Outcomes

https://artsci.usu.edu/history-cultures-ideas/history/assessments

Applied Animal Reproduction - Certificate

Program Overview

College
College of Agriculture & Natural Resources

Department
Animal, Dairy & Veterinary Sciences

Program Level
Undergraduate

About this Degree

The Applied Animal Reproduction Certificate is a 15- to 16-credit program designed to provide students with specialized knowledge and hands-on experience in reproductive technologies and management practices for various animal species. The program includes courses allowing students to apply reproductive techniques in real-world settings. Students can also choose from focused electives and are required to complete a research project or internship in applied animal reproduction. This certificate is ideal for students seeking careers in animal management, veterinary sciences, or livestock reproduction, providing them with the critical skills and knowledge to excel in these fields.

Admission Requirements for this Program

Students must be declared in a major in the Animal, Dairy and Veterinary Sciences or Biology departments.

Program Requirements

Total Credits Required In Program Coursework
15

Total Credits Required To Earn This Credential
15

Simple Requisites

Program Requirements

1. Attain a grade point average of at least 2.50 across all courses applied toward this certificate.
2. Courses required for the certificate may *not* be taken for a *pass/fail* grade except for courses that are only offered as pass/fail.
3. A minimum grade of C is required in all courses applied toward this certificate.

Required Courses

Type
Completion Requirement

Complete all required courses

Complete ALL of the following Courses:

- ADVS2200 - Anatomy and Physiology of Animals - 3cr.
  AND ADVS2203 - Anatomy and Physiology of Animals: Exploratory Laboratory - 1cr.
- ADVS3930 - Sheep Day - 1cr.
- ADVS4200 - Physiology of Reproduction and Lactation (CI) - 4cr.

NOTE:

1. 2 credits are required for ADVS3930 SHEEP DAY (fall term is required).
2. Some of these courses have prerequisites, which may in turn have further prerequisites, etc. We encourage you to plan accordingly and/or speak with an advisor.

Required Course

Type
Completion Requirement

Choose one of the following courses:

Complete at least 1 of the following courses:

- ADVS4210 - Applied Reproduction and Artificial Insemination - 2cr.
  OR ADVS4220 - Applied Equine Reproduction I - 3cr.

Required Course

Type
Completion Requirement

Choose one of the following courses:

Complete at least 1 of the following courses:

- ADVS4250 - Internship in Animal Industry - 1cr.
- ADVS4800 - Undergraduate Research or Creative Opportunity - 1cr.

Student must identify a research or internship opportunity that provides substantial work experience in applied animal reproduction.

NOTE:

1. A minimum of 3 credits is required in ADVS4250 INTERN ANIMAL INDUSTRY if selected
2. A minimum of 3 credits is required in ADVS4800 UNDERGRADUATE RESEARCH if selected

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Undergraduate Academic or Technical Certificates)

Program Learning Outcomes

Program Learning Outcomes

https://qanr.usu.edu/advs/assessment/

Automotive Technology - AAS

Program Overview

College
College of Agriculture & Natural Resources

Department
Technology, Design & Technical Ed

Program Level
Undergraduate

About this Degree
This degree program is stackable with the Certificate Automotive program and encourages students to broaden their skill set in the automotive industry.

Program Requirements

Total Credits Required In Program Coursework
73

Total Credits Required To Earn This Credential
73

Simple Requisites

Program Requirements

This degree program is stackable with the Certificate Automotive program and encourages students to broaden their skill set in the automotive industry.

Associate of Applied Science in Auto Technology Requirements

Type
Completion Requirement

Required Courses

Complete ALL of the following Courses:

- AUTO1000 - Introduction to Transportation Technology I - 2cr.
- AUTO1100 - Engine Repair Theory - 3cr.
- AUTO1105 - Engine Repair Lab - 3cr.
- AUTO1200 - Automatic Transmission/Transaxle Theory - 3cr.
- AUTO1205 - Automatic Transmission/Transaxle Lab - 2cr.
- AUTO1300 - Manual Drive Train and Axle Theory - 3cr.
- AUTO1305 - Manual Drive Train and Axle Lab - 2cr.
- AUTO1400 - Suspension and Steering Theory - 3cr.
- AUTO1405 - Suspension and Steering Lab - 3cr.
- AUTO1500 - Brakes - Theory - 3cr.
- AUTO1505 - Brakes - Lab - 2cr.
- AUTO1600 - Electrical and Electronics I Theory - 3cr.
- AUTO1605 - Electrical and Electronics I Lab - 3cr.
- AUTO1800 - Engine Performance I Theory - 3cr.
- AUTO1805 - Engine Performance I Lab - 3cr.
- AUTO2600 - Electrical and Electronics II Theory - 3cr.
- AUTO2605 - Electrical and Electronics II Lab - 2cr.
- AUTO2700 - Heating and Air Conditioning Theory - 3cr.
- AUTO2705 - Heating and Air Conditioning Lab - 2cr.
- AUTO2800 - Engine Performance II Theory - 3cr.
- AUTO2805 - Engine Performance II Lab - 2cr.
- BUSN1010 - Business Principles (BSS) - 3cr.
- ENGL1010 - Writing as Inquiry (CL1) - 3cr.
- MATH1020 - Trade Mathematics - 3cr.
  OR ELET1110 - Technical Mathematics - 3cr.
- ***Human Relations course (3 credits)***
- ***Computer proficiency course (3 credits)***

Human Relations

Students may choose one of the following courses recognized as a Human Relations course:

Complete ALL of the following Courses:

- BUSN2320 - Small Business Management - CTE - 3cr.
- BUSN2390 - Organizational Behavior - 3cr.
- CMST2110 - Interpersonal Communication (BHU) - 3cr.
- CMST2120 - Group Collaboration and Decision Making - 3cr.
- HDFS2660 - Parenting and Child Guidance - 3cr.

Program Learning Outcomes

Program Learning Outcomes
https://www.usu.edu/oda/assessment/

Diesel and Heavy Equipment Mechanics - AAS

Program Overview

College
College of Agriculture & Natural Resources

Department
Technology, Design & Technical Ed

Program Level
Undergraduate

About this Degree

The Diesel and Heavy Equipment Mechanics program empowers students with the advanced, industry-ready skills needed to excel as diesel technicians. It's designed to be a continuation of the Diesel Technology Technical Certificate. Through immersive, hands-on training, students master diesel engine systems, electrical and electronic diagnostics, steering and suspension, braking systems, drivetrains, HVAC, hydraulics, and preventative maintenance. Alongside technical excellence, the program emphasizes safety, professionalism, and strong workplace communication—preparing graduates to thrive in diverse and dynamic career environments.

Program Requirements

Total Credits Required In Program Coursework
66

Total Credits Required To Earn This Credential
66

Simple Requisites

Program Requirements

Diesel and Heavy Equipment Mechanics - AAS Course Requirements

Type
Completion Requirement

Required Courses

Complete ALL of the following Courses:

- DSME1000 - Introduction to Transportation Technology I - 2cr.
- DSME1110 - Diesel Engine Overhaul Theory - 4cr.
- DSME1130 - Diesel Engine Overhaul Lab - 4cr.
- DSME1310 - Fluid Power Theory - 4cr.
- DSME1330 - Fluid Power Lab - 4cr.
- DSME1340 - Mobile Electrical and Electronics Theory - 5cr.
- DSME1360 - Mobile Electrical and Electronics Lab - 3cr.
- DSME2210 - Advanced Diesel Engine Theory - 5cr.
- DSME2230 - Advanced Diesel Engine Lab - 5cr.
- DSME2410 - Heavy Duty Chassis and Power Train Theory - 5cr.
- DSME2430 - Heavy Duty Chassis and Power Train Lab - 5cr.
- DSME2440 - Mobile Air Conditioning Theory - 2cr.
- DSME2460 - Mobile Air Conditioning Lab - 1cr.
- ELET1110 - Technical Mathematics - 3cr.
- ENGL1010 - Writing as Inquiry (CL1) - 3cr.
- WELD1010 - Beginning Arc Welding - 3cr.
- ***Computer Proficiency course (3 credits)***
- ***Human Relations course (3 credits)***

Human Relations

Students may choose one of the following courses recognized as a Human Relations course:

Earn at least 3 credits from the following:

- BUSN1010 - Business Principles (BSS) - 3cr.
- BUSN2320 - Small Business Management - CTE - 3cr.
- BUSN2390 - Organizational Behavior - 3cr.
- CMST2110 - Interpersonal Communication (BHU) - 3cr.
- CMST2120 - Group Collaboration and Decision Making - 3cr.
- HDFS2660 - Parenting and Child Guidance - 3cr.

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Bachelor's Degree)

Program Learning Outcomes

Program Learning Outcomes

- Demonstrate applied technical proficiency in diagnosing, servicing, and overhauling diesel engine systems using industry-standard tools and procedures.
- Apply foundational and advanced principles of hydraulic, pneumatic, electrical, and electronic systems to troubleshoot and repair heavy-duty equipment safely and effectively.
- Interpret and utilize technical documentation, mathematical reasoning, and precision measurement tools to support accurate diagnostics and informed repair decisions.
- Demonstrate competency in chassis, powertrain, and HVAC systems, including inspection, fault identification, and corrective maintenance.
- Communicate professionally and collaborate effectively in industrial environments, demonstrating workplace ethics, clear written communication, and human-relations skills essential to technical practice.

Welding Technology - AAS

Program Overview

College
College of Agriculture & Natural Resources

Department
Technology, Design & Technical Ed

Program Level
Undergraduate

About this Degree

The Associate of Applied Science (AAS) degree is offered through the Professional and Applied Technology Education Division and is intended for students who wish to finish their education in two years and then pursue employment in the welding industry. Alternatively, about 1/3 of the welding AAS program completers transfer into a 4-year welding engineering technology type of program. Students obtaining the AAS degree in welding must complete 46 credits of welding courses plus a minimum of 18 hours of general education for a total of 64 credit hours. General education requirements shall include specific courses in communication, math, human relations, machine shop, computer aided drafting, and an elective of the student's choosing.

Admission Requirements for this Program

1. New freshman admitted to USU-Eastern in good standing qualify for admission to this program

2. Transfer students from other institutions need a 2.5 GPA for admission to this major

3. Students transferring from other USU-Eastern majors need an overall GPA of 2.5 for admission to this major

4. No welding courses below a C- may be applied toward meeting graduation requirements

5. Visual acuity requirements: 20/40 vision and Jaeger J-2 at 12 inches, with or without corrective lenses. If corrective lenses are required to attain this level of visual acuity, the corrective lenses must be worn during class periods.

Program Requirements

Total Credits Required In Program Coursework
63

Total Credits Required To Earn This Credential
63

Simple Requisites

Program Requirements

Required Welding AAS Courses

Type
Completion Requirement

Required Welding Technical Certificate Courses (23 Credits):

Complete ALL of the following Courses:

- TEWT1000 - Introduction to Welding and Cutting - 2cr.
- TEWT1111 - Shielded Metal Arc Welding (SMAW) I - 2cr.
- TEWT1140 - Shielded Metal Arc Welding (SMAW) Theory - 2cr.
- TEWT1112 - Shielded Metal Arc Welding (SMAW) II - 2cr.
- TEWT1211 - Gas Tungsten Arc Welding (GTAW) I - 2cr.
- TEWT1240 - Gas Tungsten Arc Welding (GTAW) Theory - 2cr.
- TEWT1212 - Gas Tungsten Arc Welding (GTAW) II - 2cr.
- TEWT1311 - Gas Metal Arc Welding (GMAW) I - 2cr.
- TEWT1340 - Gas Metal Arc Welding (GMAW) and Flux-Cored Arc Welding (FCAW) Theory - 2cr.
- TEWT1411 - Flux Cored Arc Welding (FCAW) I - 2cr.
- WELD2400 - Print Reading for Welders - 3cr.

Welding Electives

Earn at least 20 credits from the following:

- WELD1110 - Advanced Shielded Metal Arc Welding (SMAW) - 5cr.
- WELD1130 - Advanced Gas Metal Arc Welding (GMAW) and Flux Cored Arc Welding (FCAW) - 5cr.
- WELD1140 - Related Welding Processes - 5cr.
- WELD1160 - Advanced Gas Tungsten Arc Welding (GTAW) - 5cr.
- WELD1170 - Advanced Pipe Welding - 7cr.
- TEWT1650 - Practical Fabrication and Layout - 5cr.

Additional Course Requirement

Earn at least 3 credits from the following:

- WELD2500 - Weld Inspection - 3cr.
- WELD2600 - Metallurgy - 3cr.

General Education

Complete ALL of the following Courses:

- ENGL1010 - Writing as Inquiry (CL1) - 3cr.
- MATH1020 - Trade Mathematics - 3cr.
  OR ELET1110 - Technical Mathematics - 3cr.

A higher QL math course may substitute ELET 1110/MATH 1020. See advisor for details.

Machining

Earn at least 3 credits from the following:

- MACH1010 - Machine Tool Technology I - 3cr.
  OR TEMT1600 - Introduction to Manual Machining - 3cr.

Drafting and Design

Earn at least 3 credits from the following:

- EDDT1040 - CAD Level I: Intro to CAD - 3cr.
  OR TEDR1010 - Advanced Technical Drafting - 3cr.
- EDDT1200 - 3D Modeling - 3cr.
  OR TEDR1200 - Parametric Solid Modeling - 3cr.
- EDDT2620 - 3-D Modeling Advanced - 3cr.
  OR TEDR2200 - Advanced Solid Modeling - 3cr.

Human Relations/Business

Earn at least 3 credits from the following:

- BUSN1010 - Business Principles (BSS) - 3cr.
  OR TEBP1650 - Management Principles - 2cr.
- BUSN1021 - Personal Finance - 3cr.
  OR TEBP1000 - Basic Financial Principles - 3cr.
- BUSN2200 - Professional Communications - 3cr.
  AND TEBP1550 - Business Communications - 3cr.
- BUSN2320 - Small Business Management - CTE - 3cr.
  OR TEBP2000 - Introduction to Entrepreneurship - 3cr.
- CMST2110 - Interpersonal Communication (BHU) - 3cr.

Additional Elective

Earn at least 3 credits
Students may choose any General Education course, or satisfy this requirement with additional WELD or TEWT courses/credits.

Minimum University Requirements

Minimum University Requirements
Minimum University Requirements (Bachelor's Degree)

Program Learning Outcomes

Program Learning Outcomes
https://www.usu.edu/oda/assessment/

Accounting - Minor

Program Overview

College
Jon M. Huntsman School of Business

Department
School of Accounting

Program Level
Undergraduate

Program Requirements

Total Credits Required In Program Coursework
15

Total Credits Required To Earn This Credential
15

Simple Requisites

Program Requirements

Students seeking a minor must be approved by the School of Accountancy and must achieve a 2.5 grade point average for accounting courses taken. Courses required for this minor may *not* be taken pass/fail.

Section 1

Type
Completion Requirement

Minor Requirements (15 credits)

Minimum B grade is required in ACCT 2010.

Complete ALL of the following Courses:

- ACCT2010 - Financial Accounting Principles - 3cr.
- ACCT2020 - Managerial Accounting Principles - 3cr.
- ACCT3110 - Intermediate Financial Accounting and Reporting I - 3cr.

Students must select two additional upper-division accounting courses from the following list:

Complete at least 2 of the following courses:

- ACCT3130 - Business Taxation - 3cr.
- ACCT3140 - Auditing Principles and Techniques - 3cr.
- ACCT5010 - Intermediate Financial Accounting and Reporting II - 3cr.
- ACCT5020 - Intermediate Managerial Accounting - 3cr.
- ACCT5030 - Individual Taxation - 3cr.
- ACCT5040 - Accounting Information Systems - 3cr.

Program Learning Outcomes

Program Learning Outcomes
https://huntsman.usu.edu/assessment/assessment-plan

Accounting - BA, BS

Program Overview

College
Jon M. Huntsman School of Business

Department
School of Accounting

Program Level
Undergraduate

About this Degree

Skilled accounting graduates are in high demand as they play the vital role of communicating financial information about a business to shareholders, managers, and other decision makers.

For this reason, the Utah State University School of Accountancy has developed a student-oriented teaching style in which accounting students will become experienced in financial management, business transaction tracking, financial reporting, audit, tax strategy, and information systems development.

- For more information about Accounting, see the website.
- Admitted and current students must meet with an advisor.
- Log on to Degree Works to check student-specific program progress.
- The highest math requirement for this degree is MATH1050 COLLEGE ALGEBRA (QL)

Admission Requirements for this Program

First-Year and Transfer Students may be admitted to the Huntsman School of Business based on USU's Admission Requirements.

Current USU Students in good standing qualify for admission into the Huntsman School of Business and to a major within the Huntsman School.

Huntsman School Admission Details: https://huntsman.usu.edu/undergraduate/apply

Program Requirements

Total Credits Required To Earn This Credential

120

Simple Requisites

Program Requirements

- To be recommended for graduation, Accounting - BA, BS students must have an overall 2.0 GPA as well as a 2.5 GPA in all major requirements and in all ACCT-prefix courses.
- Elective credits needed will be determined on an individual basis (a student with continuing education, AP credits, and Language credits may not require additional elective credits)
- Completing a minor is recommended to fulfill elective credits
- An experiential learning experience is required

A 2.5 GPA for all ACCT prefixes is required for graduation.

Accounting - BA, BS Course Requirements

Type
Completion Requirement

Major Requirements (24 credits)

Fulfill ALL of the following requirements:

Required

Complete ALL of the following Courses:

- ACCT3110 - Intermediate Financial Accounting and Reporting I - 3cr.
- ACCT3130 - Business Taxation - 3cr.
- ACCT5010 - Intermediate Financial Accounting and Reporting II - 3cr.

AND

Electives

Complete at least 3 of the following courses:

- ACCT3140 - Auditing Principles and Techniques - 3cr.
- ACCT5020 - Intermediate Managerial Accounting - 3cr.
- ACCT5040 - Accounting Information Systems - 3cr.
- ACCT5030 - Individual Taxation - 3cr.
- Any ACCT 5000-6999 courses, except ACCT6300 ACCOUNTING INTERNSHIP

These courses are prerequisites for the Accounting - MAcc program. If not counted toward the undergraduate degree, up to 2 of these courses could be taken as electives in the MAcc program.

AND

Required

Complete the following

- **Complete 3 credits from the following list:**
  - Any additional ACCT 3000-5999 course (*excluding* ACCT4250 ACCOUNTING INTERNSHIP)

Any FIN 3000-5999 course not already completed as part of the Business Acumen (*excluding FIN4250)*

- **Complete 3 credits from the following list:*****
  - Any additional ACCT 3000-5999 course
  - Any FIN 3000-5999 courses not already completed as part of the Business Acumen
  - Any 3000-5999 course in DATA, ECON, MGT or MSLE not already completed as part of the Business Acumen

****A maximum of 3 credits may be taken from internship courses*

***Note**: For students double majoring in Accounting and Finance, any FIN classes taken to satisfy the ACCT major requirements will also count toward the FIN major requirements. Likewise, any ACCT classes taken to satisfy the FIN major requirements will also count toward the ACCT major requirements.*

AND

Experiential Learning Experience

Fulfill ANY of the following requirements:

Option 1

Complete one of the following courses as approved by the Experiential Learning Advisor

Complete at least 1 of the following courses:

- ACCT4250 - Accounting Internship - 3cr.
- ACCT5850 - Strategic Accounting Consulting - 3cr.
- BUS2000 - Foundations for Global Learning Experiences - 0.5cr.

OR

Option 2

Complete the following:
Other non-credit activity approved by the Experiential Learning Advisor

Business Acumen (46-47 credits)

All acumen courses must have a minimum grade of C unless otherwise stated.

Complete ALL of the following Courses:

- ACCT2010 - Financial Accounting Principles - 3cr.
- ACCT2020 - Managerial Accounting Principles - 3cr.
- BUS3200 - Professional Communication with AI (CI) - 3cr.
- DATA1100 - Excel for Business Analysis - 1cr.
- DATA2100 - Data and Information in Business - 3cr.
- DATA3100 - Making Decisions with Data - 3cr.
- DATA3300 - Introduction to Modern Data Analytics (QI) - 3cr.
- ECON2010 - Introduction to Microeconomics (BSS) - 3cr.
- ECON2020 - Introduction to Macroeconomics (BAI) - 3cr.
- ECON3050 - Foundations of Business: Capitalism, Markets, and Innovation - 3cr.
- FIN3200 - Corporate Finance (QI) - 3cr.
- FIN3300 - Investments - 3cr.
- MGT3350 - Legal and Ethical Environment of Business - 3cr.
- MGT3700 - Operations Management - 3cr.
- MSLE3500 - Fundamentals of Marketing - 3cr.
- MSLE3800 - Leadership - 2cr.
- MSLE3890 - Systems Strategy and Problem Solving - 2cr.

Accounting majors require a B grade or higher in ACCT2010 FINANCIAL ACCT PRINCIPLES

Open Electives

Complete the following as needed:
Total elective credit is determined by General Education courses taken, degree type selected, additional credits earned, and any additional math or other prerequisite courses needed. Please consult your Academic Advisor for details.

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Bachelor's Degree)

Suggested Degree Maps

Degree Map Name
Suggested Degree Map - Accounting BA, BS
Total Degree Map Credits
115 - 139
Degree Map Effective Catalog Year
2027 -

Degree Map Narrative

- Following is a sample four-year plan. Please note that student-specific plans may differ.
- Meet with an academic advisor to create a specific plan that best fits your academic needs.
- The student is ultimately responsible for knowing and completing all degree requirements.
- Make sure you meet the registration requirements for each class by clicking the course link and checking any prerequisites or corequisites.
- Consultation with an advisor may result in an altered plan customized for an individual student.
- Check your Degree Works for requirements and completion.

Students who have not attended any school beyond high school and have a declared major in the Huntsman School of Business are expected to enroll in BUS 1000 during their first year at USU. The course is intended to acculturate students to college life, and is therefore not relevant for internal or external transfer students. Thus, transfer students are *not* expected to enroll in BUS 1000. BUS 1000 is an in-person course on the Logan campus for now, so those at statewide campuses or online are not able to enroll, and thus *not* expected to enroll.

Students should apply for graduation at http://www.usu.edu/registrar/htm/graduation/apply-online fall semester of their final year

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	17	0

Requirement Select

- ECON2020 - Introduction to Macroeconomics (BAI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- ENGL1010 - Writing as Inquiry (CL1)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- MATH1050 - College Algebra (QL)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- USU1010 - University Connections

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select

- BUS1000 - HSB Freshmen Academy

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- Breadth Life Sciences (BLS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Minimum C grade required in ECON2020; USU1010 starts the week prior to fall semester and is completed after the first 3 weeks of fall semester (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	16	0

Requirement Select

- ECON2010 - Introduction to Microeconomics (BSS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- ENGL2010 - Research and Argument Across Perspectives (CL2)

  OR

- ENGL2020 - Professional Communication (CL2)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- DATA1100 - Excel for Business Analysis

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- DATA2100 - Data and Information in Business

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Breadth Humanities (BHU) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Breadth Creative Arts (BCA) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- minimum C grade required for for ECON, ENGL, and DATA courses (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	12 - 16	0

Requirement Select
- ACCT2010 - Financial Accounting Principles

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- BUS3200 - Professional Communication with AI (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- DATA3100 - Making Decisions with Data

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Breadth Physical Sciences (BPS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	0 - 4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- General Electives (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- minimum B grade required in ACCT2010, minimum C grade required for BUS3200 and DATA3100 (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	15 - 18	0

Requirement Select
- ACCT2020 - Managerial Accounting Principles

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- DATA3300 - Introduction to Modern Data Analytics (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- FIN3200 - Corporate Finance (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Depth Life and Physical Sciences (DSC) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- General Electives (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- minimum C grade required in ACCT2020, DATA3300, FIN3200 (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Fall	12 - 27	0

Requirement Select

- ACCT3110 - Intermediate Financial Accounting and Reporting I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- ACCT3130 - Business Taxation

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- FIN3300 - Investments

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- MSLE3500 - Fundamentals of Marketing

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Communications Intensive (CI) Courses

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	0 - 15
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- minimum C grade required in FIN3300 and MSLE3500 (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Spring	17	0

Requirement Select

- ACCT3120 - Intermediate Financial Accounting and Reporting II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- ACCT3140 - Auditing Principles and Techniques

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- MGT3350 - Legal and Ethical Environment of Business

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- MGT3700 - Operations Management

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- General Electives (5 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	5
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- minimum C grade required in MGT3350 and MGT3700 (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Fall	14 - 16	0

Requirement Select
- ACCT5020 - Intermediate Managerial Accounting

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- ACCT5030 - Individual Taxation

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- ECON3050 - Foundations of Business: Capitalism, Markets, and Innovation

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- MSLE3800 - Leadership

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select

- MSLE3890 - Systems Strategy and Problem Solving

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select

- Depth Humanities and Creative Arts (DHA) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1 - 3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- minimum C grade required in ECON3050, MSLE3800, MSLE3890 (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Spring	12	0

Requirement Select

- ACCT4500 - Accounting Information Systems

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Upper-Division Business Elective (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- General Electives (6 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Program Learning Outcomes

Program Learning Outcomes

https://www.usu.edu/oda/assessment/

Executive Master of Accounting - EMAcc (NOT CURRENTLY OFFERED)

Program Overview

College	Department	Program Level
Jon M. Huntsman School of Business	School of Accounting	Graduate

About this Degree

The Executive Master of Accounting (EMAcc) at the Huntsman School of Accountancy is a pioneering effort in which both the content and delivery are tailored to aspiring financial executives in need of a graduate degree in accounting. Similar to executive MBA programs, this EMAcc program will build upon participants' experience in the business world by providing course content tailored to this group of individuals. As such, this degree is designed for individuals with substantial work experience (5+ years) in the accounting or finance professions. Students matriculated in the Executive Master of Accounting degree must complete the full program of study outlined below.

Admission Requirements for this Program

Students admitted to the EMAcc program will have met the following requirements:

- Obtained a bachelor's degree (not topic specific) from an accredited university
- Have five or more years of post-graduate work experience
- Have taken the following courses, or have work experience in the following areas sufficient to justify waiver of the course requirement:
  - Intermediate Financial Accounting
  - Corporate Tax
  - Auditing

Program Requirements

Total Credits Required In Program Coursework	Total Credits Required To Earn This Credential
-	-

Accounting - MAcc

Program Overview

College	Department	Program Level
Jon M. Huntsman School of Business	School of Accounting	Graduate

About this Degree

The MAcc degree in the School of Accountancy at the Huntsman School of Business helps students accelerate their professional opportunities and personal development by exposing them to richer, real-world problem-solving, critical thinking, and oral and written communication applications, while developing a deeper technical understanding of graduate-level accounting concepts. Beginning July 1, 2026, the MAcc degree reduces the accounting experience required in Utah for CPA licensure (from two years to one year).

The MAcc program enjoys strong recruiting relationships with dozens of employers, including the Big Four, regional, and local accounting firms as well as companies and government agencies.

More information about the program is available at the link below.

https://huntsman.usu.edu/macc/

Admission Requirements for this Program

Degree Verification

A bachelor's degree from an accredited U.S. institution or an internationally recognized equivalent is required for admission to and completion of the graduate program. Applicants must hold a bachelor's degree in accounting. Those with a degree in another field must complete all prerequisite coursework as determined by the MAcc Director.

Program Requirements

Total Credits Required In Program Coursework	Total Credits Required To Earn This Credential
30	30

Simple Requisites

Program Requirements

MAcc requirements for students who have completed all of the preparatory work for graduate study.

Students matriculated in the Master of Accounting degree must complete a Plan C approved program of study consisting of at least 30 credits. This program must include completion of the MAcc Core Requirements and one of the Focus Areas. Details for each requirement type are provided below.

- **Overall Graduate GPA at least 3.0 and no grades of C- or lower:** Graduate students are required to maintain at least a 3.0 GPA for degree-program courses. Grades of C- or lower will not be accepted for a graduate degree.
- **Course Number Acceptability:** The Program of Study for a master's degree must include at least 18 semester credits at the level of 6000 or above. A maximum of 12 semester credits at the 5000 level are allowed. Credits in the following areas are not acceptable in a degree program: foreign languages (unless included in an approved Program of Study), continuing graduate advisement, individual home study, military science, and courses numbered below 5000.

- **Matriculation Start Semester:** A master's degree must be completed within six years of entering the degree program. Additional time may be requested by the student's committee and submitted to the Vice Provost of Graduate Studies for review.
- **Coursework Validity:** Coursework over eight years old at the time of degree completion may not be used for a graduate degree unless it is revalidated.
- **Program of Study:** Approval of the Program of Study is required by the School of Graduate Studies.
- **Split Form:** If graduate level courses were taken concurrently with undergraduate courses, a split form must be submitted to 'split' out courses to the correct degree. A split form cannot be processed after the bachelor's degree has been completed and posted on the transcript.

MAcc Core Requirements (15 credits)

Type
Completion Requirement

MAcc Core Requirements

Complete ALL of the following Courses:

- ACCT5104 - Accounting Analytics - 3cr.
  OR ACCT6104 - Accounting Analytics - 3cr.
- ACCT5105 - Taxes and Business Strategy - 3cr.
  OR ACCT6105 - Taxes and Business Strategy - 3cr.
- ACCT5200 - Advanced Financial Accounting - 3cr.
  OR ACCT6200 - Advanced Financial Accounting - 3cr.
- ACCT5510 - Advanced Auditing - 3cr.
  OR ACCT6510 - Advanced Auditing - 3cr.
- ACCT5620 - Financial Statement Analysis and Valuation - 3cr.
  OR ACCT6620 - Financial Statement Analysis and Valuation - 3cr.

Focus Area

Type
Completion Requirement

Master of Accounting Focus Areas:

In addition to meeting the MAcc Core Requirements, students must complete requirements for **one** of the following focus areas, which includes two elective courses.

Fulfill ANY of the following requirements:

Professional Accountancy

Complete ALL of the following Courses:

- ACCT5250 - Accounting Research - 3cr.
  OR ACCT6250 - Accounting Research - 3cr.
- ACCT5310 - Advanced Managerial Accounting Topics - 3cr.
  OR ACCT6310 - Advanced Managerial Accounting Topics - 3cr.
- ACCT5540 - Fraud Examination and Forensic Accounting - 3cr.
  OR ACCT6540 - Fraud Examination and Forensic Accounting - 3cr.
- ***Two additional approved elective courses (6 credits)***

OR

Taxation

Complete ALL of the following Courses:

- ACCT5420 - Corporate Taxation - 3cr.
  OR ACCT6420 - Corporate Taxation - 3cr.
- ACCT5440 - Partnership Taxation - 3cr.
  OR ACCT6440 - Partnership Taxation - 3cr.
- ACCT5460 - Advanced Tax Topics - 3cr.
  OR ACCT6460 - Advanced Tax Topics - 3cr.
- ***Two additional approved elective courses (6 credits)***

OR

Fin/Tech

Complete 9 credit hours of DATA-designated classes at the 5000 or 6000 level. Recommended courses for this focus area are:

Earn at least 9 credits from the following:

- DATA5570 - Building Software With Artificial Intelligence - 3cr.
- DATA5600 - Introduction to Regression and Machine Learning for Analytics - 3cr.
- DATA6330 - Data Pipeline Engineering - 3cr.
- DATA6360 - Data Warehousing - 3cr.
- DATA6500 - Python Programming for Analytics - 3cr.
- DATA6610 - Advanced Machine Learning for Analytics - 3cr.
- DATA6690 - Computational Methods for FinTech - 3cr.
- ***Two additional approved accounting elective courses (6 credits)***

OR

Personal Financial Planning

Complete ALL of the following Courses:

- FIN5060 - Introduction to Personal Financial Planning - 3cr.
  OR FIN6060 - Introduction to Personal Financial Planning - 3cr.
- FIN5070 - Retirement Planning - 3cr.
  OR FIN6070 - Retirement Planning - 3cr.
- FIN5080 - Estate Planning - 3cr.
  OR FIN6080 - Estate Planning - 3cr.
- ***Two additional approved elective courses (6 credits)***
- ***In addition to the required PFP specialization courses, students must also complete, or have previously completed, FIN 4460 and FIN 6090 or their equivalents, to qualify to sit for the Certified Financial Planner (CFP) examination.***

Approved Electives

Type
Completion Requirement

Electives

Complete ANY of the following Courses:

- ACCT5850 - Strategic Accounting Consulting - 3cr.
  OR ACCT6850 - Strategic Accounting Consulting - 3cr.
- ACCT5300 - Advanced Accounting Internship - 3cr.
  OR ACCT6300 - Advanced Accounting Internship - 3cr.

Or courses chosen from the other focus area. Students may also select elective courses from other departments within the Huntsman School of Business based on student experience, interests, and career path choices, subject to advisor approval. Common elective courses come from DATA or FIN-prefix courses.

Additional Comments:

MAcc Application by Non-Accounting/Non-Business Degree Holders

Prerequisites for the Master of Accounting degree include courses in the Huntsman School of Business Acumen Requirements and the Undergraduate Accounting Major Requirements (21 credits). Before applying, it is recommended that applicants consult with the School of Accountancy MAcc director/graduate advisor.

Program Learning Outcomes

Program Learning Outcomes

https://huntsman.usu.edu/assessment/assessment-plan

Accounting Practices - Technical Certificate

Program Overview

College
College of Agriculture & Natural Resources

Department
Technology, Design & Technical Ed

Program Level
Undergraduate

About this Degree

Federal Gainful Employment Information

What if a student could master the principles of accounting and financial management so that they could build a successful career in auditing or taxation?

For example, students gain hands-on experience with industry-standard accounting software, learn to analyze financial data, and understand the regulations that shape business decisions.

This program equips students with the critical thinking and problem-solving skills needed to navigate the financial landscape and drive business success.

Program Requirements

Total Credits Required In Program Coursework
-

Total Credits Required To Earn This Credential
29

Simple Requisites

Program Requirements

Accounting Practices - Technical Certificate

Type
Completion Requirement

Technical Education Required Courses (29 credits)

Complete ALL of the following Courses:

- TEBP1000 - Basic Financial Principles - 3cr.
- TEBP1100 - Digital Literacy - 2cr.
- TEBP1140 - Spreadsheets - 2cr.
- TEBP1150 - Presentations - 2cr.
- TEBP1200 - Professionalism - 3cr.
- TEBP1300 - Accounting I - 2cr.
- TEBP1350 - Computerized Accounting - 3cr.
- TEBP1500 - Business English - 1cr.
- TEBP1550 - Business Communications - 3cr.
- TEBP1840 - Business Productivity - 3cr.
- TEBP2300 - Accounting II - 2cr.
- TEIT2500 - Web Business - 3cr.

Program Learning Outcomes

Program Learning Outcomes

https://caas.usu.edu/tdte/assessment/

Criminal Justice - AS

Program Overview

College
College of Arts & Sciences

Department
School of Social Sciences

Program Level
Undergraduate

About this Degree

The degree requires students have a substantial understanding of the criminal justice system in general. It reflects the realities and concerns of society and draws from a wide variety of academic disciplines such as political science, psychology, history and sociology.

- For more information about the Criminal Justice Associate Degree see the USU Criminal Justice page.
- Admitted and current students must meet with an advisor.
- Log on to Degree Works to check student-specific program progress.

Admission Requirements for this Program

- New freshmen must be admitted to USU in Good Standing.
- Transfer students from other institutions or other programs at USU must have a 2.50 GPA.

Program Requirements

Total Credits Required In Program Coursework
60

Total Credits Required To Earn This Credential
60

Simple Requisites

Program Requirements

Criminal Justice courses over 10 years old do not count toward the major requirement. 50% of classes need to be taken at USU.

Students must have a GPA of 2.5 or higher in Criminal Justice courses and an overall GPA of 2.0 or higher and overall USU GPA of 2.0 in order to graduate. Classes taken P/F and earning a "P" grade cannot be counted toward the major without special permission. You must earn a grade of "C" or better in CJ 1010, and a "C-" or better in all other courses to be counted toward the degree

Criminal Justice - AS

Type
Completion Requirement

Required Criminal Justice Courses (12 credits)

Complete ALL of the following Courses:

- CJ1010 - Introduction to Criminal Justice (BSS) - 3cr.
- CJ1300 - Introduction to Corrections - 3cr.
- CJ1330 - Criminal Law - 3cr.
- CJ1390 - Introduction to Policing - 3cr.

Criminal Justice Electives (9 credits)

Complete at least 3 of the following courses:

- CJ1060 - POST Certification: Special Function Officer (SFO) - 8cr.
- CJ1070 - POST Certification: Basic Corrections Officer (BCO) - 5cr.
- CJ1080 - POST Certification: Law Enforcement Officer (LEO) - 12cr.
- CJ1340 - Criminal Investigations - 3cr.
- CJ1350 - Introduction to Forensic Science - 3cr.
- CJ1355 - Crime Scene Processing - 3cr.
- CJ1360 - Crime Scene Academy - 3cr.
- CJ1390 - Introduction to Policing - 3cr.
- CJ2110 - Managing Security: Threats, Risk, and Leadership - 3cr.
- CJ2330 - Juvenile Justice - 3cr.
- CJ2350 - Laws of Evidence - 3cr.
- CJ2360 - Juvenile Law and Procedures - 3cr.
- CJ2370 - Child Abuse and Neglect - 3cr.
- CJ2860 - Criminal Justice Field Experience - 3cr.
- CJ2977 - Cooperative Education - 1cr.
- CJ2988 - Special Problems - 1cr.
- CJ3110 - School Resource Officer: Safety and Crime Prevention in an Educational Setting - 3cr.
- CJ3150 - Moot Court - 3cr.
- CJ3320 - Criminal Procedure - 3cr.
- CJ3370 - Gender-Based Violence - 3cr.
- CJ3440 - Victimology - 3cr.
- CJ4200 - Criminal Justice Ethics - 3cr.
- CJ4310 - Corrections Law & Inmate Rights - 3cr.
- CJ4440 - The Origins of the United States Criminal Justice System (DSS) - 3cr.
- CJ4450 - Foundations of Leadership - 3cr.
- CJ4460 - Advanced Leadership Skills - 3cr.
- CJ4470 - Specialized Leadership Project - 3cr.
- CJ4480 - Executive Leadership - 3cr.

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Associate Degrees)

Suggested Degree Maps

Degree Map Name
Suggested Degree Map - Criminal Justice AS
Total Degree Map Credits
60 - 61
Degree Map Effective Catalog Year
2027 -

Degree Map Narrative

- Following is a sample four-year plan. Please note that student-specific plans may differ.
- Meet with an academic advisor to create a specific plan that best fits your academic needs.
- The student is ultimately responsible for knowing and completing all degree requirements.
- Make sure you meet the registration requirements for each class by clicking the course link and checking any prerequisites or corequisites.
- Consultation with an advisor may result in an altered plan customized for an individual student.
- Check your Degree Works for requirements and completion.

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	15 - 16	0

Requirement Select

- C or higher grade in CJ 1010. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- CJ1010 - Introduction to Criminal Justice (BSS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	C
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Communications Literacy (CL1) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Breadth Creative Arts (BCA) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Breadth Humanities (BHU) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Elective (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	15	0

Requirement Select

- Minimum C- or "P" grade and No ACT waiver in STAT 1040 or STAT 1080. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Breadth Physical Sciences (BPS) Course
  OR
- Communications Literacy (CL2) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Criminal Justice Elective (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Quantitative Literacy (QL) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- CJ1330 - Criminal Law

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Communications Literacy (CL2) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	15	0

Requirement Select
- CJ1390 - Introduction to Policing

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Criminal Justice Elective (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Breadth Life Sciences (BLS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Breadth American Institutions (BAI) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	15	0

Requirement Select

- CJ1300 - Introduction to Corrections

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Criminal Justice Elective (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Elective (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Elective (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Breadth American Institutions (BAI) Course
  OR
- Breadth Creative Arts (BCA) Course
  OR
- Breadth Humanities (BHU) Course
  OR
- Breadth Life Sciences (BLS) Course
  OR
- Breadth Physical Sciences (BPS) Course
  OR
- Breadth Social Sciences (BSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	Total Major Credits
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Program Learning Outcomes

Program Learning Outcomes

https://www.usu.edu/oda/assessment/

Additive Manufacturing - Technical Certificate

Program Overview

College
College of Agriculture & Natural Resources

Department
Technology, Design & Technical Ed

Program Level
Undergraduate

About this Degree

What if students could turn their ideas into real, high-tech products using the power of 3D printing?

So that they can create everything from custom medical implants to next-gen aerospace parts—faster, lighter, and more efficiently than ever before.

Students can picture themselves designing a cutting-edge prototype, printing it, testing it, and seeing it come to life—all with the latest technology at their fingertips.

This program gives students hands-on experience, industry connections, and the skills to launch an exciting career in advanced manufacturing.

Program Requirements

Total Credits Required In Program Coursework
-

Total Credits Required To Earn This Credential
18

Simple Requisites

Program Requirements

Additive Manufacturing - Technical Certificate

Type
Completion Requirement

Required Additive Theory Courses (12 credit hours)

Complete ALL of the following Courses:

- EDDT1200 - 3D Modeling - 3cr.
- EDDT1700 - Additive Manufacturing Processes I - 3cr.
- EDDT2620 - 3-D Modeling Advanced - 3cr.
- EDDT2700 - Additive Manufacturing Processes II - 3cr.

Elective Technical Courses (6 credit hours)

Earn at least 6 credits from the following:

- EDDT2977 - Internship Education Experiences - 1cr.
- EDDT2988 - Special Problems - 1cr.
- TEBP1700 - Marketing I - 3cr.
- TEIT2500 - Web Business - 3cr.

Program Learning Outcomes

Program Learning Outcomes

https://caas.usu.edu/tdte/assessment/

Advanced Design, Geospatial, and Visualization Technologies - Institutional Certificate of Proficiency

Program Overview

College
College of Agriculture & Natural Resources

Department
Landscape Architecture & Environmental Planning

Program Level
Undergraduate

About this Degree

The **Advanced Design, Geospatial, and Visualization Technologies Certificate** is for students wanting to graduate with an advanced skillset in the latest technologies used in design and planning.

Program Requirements

Total Credits Required In Program Coursework
13-14

Total Credits Required To Earn This Credential
13-14

Simple Requisites

Program Requirements

A minimum overall GPA of 3.0 is required in LAEP-prefix courses, with no individual LAEP-prefix course grade less than a C-. No pass/fail grades are accepted to fulfill LAEP-prefix courses. A minimum USU overall GPA of 2.5 is required for all other courses used to fulfill certificate requirements.

To earn the certificate, students must complete the following courses (13-14 credits in total)

Advanced Design, Geospatial, and Visualization Technologies - Institutional Certificate of Proficiency

Type
Completion Requirement

Required Courses

Complete ALL of the following Courses:

- LAEP2400 - 3D Representation - 3cr.
- LAEP2900 - VR Design and Thematics Studio - 3cr.
- LAEP5300 - GIS for Environmental Planning - 4cr.
  OR LAEP6300 - GIS for Environmental Planning - 4cr.
- LAEP5400 - Advanced Geospatial Analysis and Visualization for Environmental Planning - 4cr.
  OR LAEP6400 - Advanced Geospatial Analysis and Visualization for Environmental Planning - 3cr.

LAEP6400 ADV GEO ANALYSIS/VIS ENVI PLAN required to be taken for 4 credits

Program Learning Outcomes

Program Learning Outcomes

https://caas.usu.edu/laep/assessment/

Animal, Dairy and Veterinary Sciences - MS

Program Overview

College	Department	Program Level
College of Agriculture & Natural Resources	Animal, Dairy & Veterinary Sciences	Graduate

About this Degree

The ADVS department conducts a broad range of basic and applied research in the areas of animal reproduction, animal growth and nutrition, livestock and dairy management, animal health and disease, virology, toxicology, animal biotechnology, and molecular genetics. Department facilities include over 30 research laboratories on campus and at local and regional animal research facilities. There are research herds and flocks of beef and dairy cattle, swine, and sheep housed close to the university. Research in the department is funded by a multi-million dollar budget derived from support by the Utah Agricultural Experiment Station and by substantial outside contracts and grants. Cooperation with other departments and research centers of the university, and with federal collaborators, enhances the ADVS research and graduate programs. Significant in this regard are the university Center for Integrated BioSystems, the Utah State Animal Disease Diagnostic Laboratories, the Laboratory Animal Research Center, the Institute for Antiviral Research, and the on-campus USDA Poisonous Plant Laboratory.

Graduate Programs Director: Dr. Lee Rickords
Location: Agricultural Science 248B
Phone: (435) 797-2195
E-mail: lee.rickords@usu.edu

Financial Assistance

Both departmental and research grant support are available to matriculated graduate students on a competitive basis.

The department funds graduate assistantships, which are available on a competitive basis to matriculated graduate students. Completion of the Graduate Record Examination (GRE) is required to be considered for a departmental assistantship. Applications for graduate assistantships for the following academic year must be submitted by March 15. Students interested in departmental assistantships may contact the graduate programs director.

Acceptance to graduate study in the ADVS department does not constitute a guarantee of financial assistance.

Admission Requirements for this Program

Prior to applying, the potential applicant must have a qualified ADVS faculty member agree to accept them into their laboratory and be their major (supervisory) professor. Contact Dr. Lee Rickords with questions.

Applications are processed as received and are reviewed on an ongoing basis. It is highly recommended that applicants submit all materials early in the year if they will also be applying for a departmental assistantship, the separate application for which is due March 15. Accepted students may begin their program in fall, spring, or summer semester.

General Requirements

All prospective graduate students must apply through the School of Graduate Studies. Refer to the School of Graduate Studies website for admission requirements. Please note that all applicants must meet the following general admission requirements:

- A bachelor's degree from an accredited college
- A 3.0 GPA as calculated by the School of Graduate Studies. An official transcript must be sent directly to the School of Graduate Studies from each college or university previously attended (except USU).
- Student recommendation request forms (included in application materials) should be used to request three people to submit letters of recommendation directly to the graduate school. At least one letter of recommendation should be from a faculty member from whom the applicant has taken course work.
- International Students: Please visit the School of Graduate Studies website for requirements.

Department Requirements

Applicants must secure an ADVS faculty member to be their major professor before being accepted into a graduate program. The department also strongly recommends the following:

- Applicants for a graduate program in ADVS should have completed a BS undergraduate program with courses similar to the science core of the USU Animal and Dairy Science BS degree. This background includes the following courses and their prerequisites:
  - BIOL1610 BIOLOGY I and BIOL1620 BIOLOGY II (BLS) or their equivalents
  - CHEM1210 PRIN OF CHEMISTRY I and CHEM1220 PRIN OF CHEMISTRY II (BPS) or their equivalents
  - MATH1050 COLLEGE ALGEBRA (QL) and STAT2000 STATISTICAL METHODS (QI) or their equivalents
- Applicants with deficiencies in these areas may be admitted to the graduate program subject to the completion of remedial course work specified by the department. Other preparatory courses may be specified by the student's supervisory committee.

Program Requirements

Total Credits Required In Program Coursework	Total Credits Required To Earn This Credential
30	30

Simple Requisites

Program Requirements

Specializations

All MS specializations are offered as Plan A programs. Animal Management may be taken as a Plan A or Plan B program.

- Animal Health and Disease
- Animal Management
- Animal Molecular Genetics
- Animal Nutrition
- Reproduction and Development

General Requirements for Plan A and Plan B

- A bachelor's degree from an accredited U.S. college or university or a similarly recognized international university is required for admission to and completion of a graduate program.
- Graduate students are required to maintain at least a 3.0 GPA for degree-program courses. Grades of C- or lower will not be accepted for a graduate degree.
- The Program of Study for a master's degree must include at least 18 semester credits at the level of 6000 or above.
- Coursework below the 5000 level may not be used toward a graduate degree. Undergraduate prerequisites for graduate programs may not be included on a Program of Study.

- Courses numbered 5000-5990 are advanced, upper-division courses and a maximum of 12 credits may be used on an approved program of study.
- Credits in the following areas are not acceptable in a degree program: foreign languages (unless included on an approved Program of Study), continuing graduate advisement, individual home study, military science, and courses numbered below 5000.
- Audited courses may not be used for a degree program or toward status as a full-time student.
- A master's degree must be completed within six years of entering the degree program. Additional time may be requested by the student's committee and submitted to the Vice Provost of Graduate Studies for review.
- Coursework over eight years old at the time of degree completion may not be used for a graduate degree unless it is revalidated by the Vice Provost of Graduate Studies.
- A student may transfer up to 12 graduate credits earned at another accredited institution, including credits with earned P grades, if approved by the department and the School of Graduate Studies. Credits cannot be from a previous degree.
- All graduate students are expected to have a statistics course included in their program of study.

Further MS Plan A Requirements

- The Plan A option requires the preparation and defense of a thesis and is best suited for students desiring research experience.
- A minimum of 30 credits applied toward a program of study approved by the student's supervisory committee, including:
    - 15 credits minimum of graduate-level coursework (this does not include thesis credits). Under exceptional circumstances, a student may petition for a waiver of the minimum 15-credit requirement of graduate-level coursework
    - 6-15 credits of ADVS6970 RESEARCH AND THESIS
    - 1 credit of ADVS6800 GRAD STUDENT SEMINAR
- ADVS6900 SPECIAL PROBLEMS credits shall not exceed 3 credits unless approved by the supervisory committee.
- Approved thesis proposal
- Approval of academic forms required by the School of Graduate Studies:
    - Supervisory committee approval form
    - Program of Study form
    - Thesis Proposal/Project Approval form
    - Appointment for Examination
    - Record of Examination
- Successful defense of a thesis based on original research
- Submission of thesis to the School of Graduate Studies and library for review and approval
- Annual ADVS Student Research Symposium participation
- Annual meetings with the student and his/her supervisory committee
- Submitted Annual Progress Report
- Annual lab safety training
- RCR training (two parts):
    - CITI online training
    - 8-hour in-person workshop
- Any additional trainings as specified by the student's major advisor

Further MS Plan B Requirements

- The Plan B option requires the preparation and defense of a paper and is best suited for animal science professionals not pursuing a research career path.
- A minimum of 30 credits applied toward a program of study approved by the student's supervisory committee, including:
    - 15 credits minimum of graduate-level coursework (this does not include thesis credits)
    - 2-3 credits of ADVS6970 RESEARCH AND THESIS
    - 1 credit of ADVS6800 GRAD STUDENT SEMINAR
- ADVS6900 SPECIAL PROBLEMS credits shall not exceed 3 credits unless approved by the supervisory committee.
- Approval of academic forms required by the School of Graduate Studies:
    - Supervisory committee approval form
    - Program of Study form
    - Thesis Proposal/Project Approval form (required by the ADVS department)
    - Appointment for Examination
    - Record of Examination
- Successful defense of a Plan B paper
- Plan B papers must be submitted directly to the Merrill-Cazier Library and uploaded to DigitalCommons
- Annual ADVS Student Research Symposium participation
- Annual meetings with the student and his/her supervisory committee
- Submitted Annual Progress Report
- Annual lab safety training
- RCR training (two parts):
    - CITI online training
    - 8-hour in-person workshop
- Any additional trainings as specified by the student's major advisor

Section 1

Type
Completion Requirement

Plan A Requirements

Complete ALL of the following Courses:

- ADVS6970 - Research and Thesis - 1cr.
- ADVS6800 - Graduate Student Seminar - 1cr.
- ***15 credits minimum of graduate-level coursework (this does not include thesis credits)***
- ***6-15 credits required of ADVS6970 RESEARCH AND THESIS***

- *1 credit required of ADVS6800 GRAD STUDENT SEMINAR*

Section 2

Type
Completion Requirement

Plan B Requirements

Complete ALL of the following Courses:

- ADVS6970 - Research and Thesis - 1cr.
- ADVS6800 - Graduate Student Seminar - 1cr.
- *15 credits minimum of graduate-level coursework (this does not include thesis credits)*
- *2-3 credits required of ADVS6970 RESEARCH AND THESIS*
- *1 credit required of ADVS6800 GRAD STUDENT SEMINAR*

Program Learning Outcomes

Program Learning Outcomes
https://qanr.usu.edu/advs/assessment/

Animal, Dairy and Veterinary Sciences - PhD

Program Overview

College	Department	Program Level
College of Agriculture & Natural Resources	Animal, Dairy & Veterinary Sciences	Graduate

About this Degree
The ADVS department conducts a broad range of basic and applied research in the areas of animal reproduction, animal growth and nutrition, livestock and dairy management, animal health and disease, virology, toxicology, animal biotechnology, and molecular genetics. Department facilities include over 30 research laboratories on campus and at local and regional animal research facilities. There are research herds and flocks of beef and dairy cattle, swine, and sheep housed close to the university. Research in the department is funded by a multi-million dollar budget derived from support by the Utah Agricultural Experiment Station and by substantial outside contracts and grants. Cooperation with other departments and research centers of the university, and with federal collaborators, enhances the ADVS research and graduate programs. Significant in this regard are the university Center for Integrated BioSystems, the Utah State Animal Disease Diagnostic Laboratories, the Laboratory Animal Research Center, the Institute for Antiviral Research, and the on-campus USDA Poisonous Plant Laboratory.

Graduate Programs Director: Dr. Lee Rickords
Location: Agricultural Science 248B
Phone: (435) 797-2195
E-mail: lee.rickords@usu.edu

Financial Assistance
Both departmental and research grant support are available to matriculated graduate students on a competitive basis.

The department funds graduate assistantships, which are available on a competitive basis to matriculated graduate students. Completion of the Graduate Record Examination (GRE) is required to be considered for a departmental assistantship. Applications for graduate assistantships for the following academic year must be submitted by March 15th. Students interested in departmental assistantships may contact the graduate programs director.

Acceptance to graduate study in the ADVS department does not constitute a guarantee of financial assistance.

Admission Requirements for this Program
Prior to applying, the potential applicant must have a qualified ADVS faculty member agree to accept them into their laboratory and be their major (supervisory) professor. Contact Dr. Lee Rickords with questions.

Applications are processed as received and are reviewed on an ongoing basis. It is highly recommended that applicants submit all materials early in the year if they will also be applying for a departmental assistantship, the separate application for which is due March 15. Accepted students may begin their program in fall, spring, or summer semester.

General Requirements

All prospective graduate students must apply through the School of Graduate Studies. Refer to the School of Graduate Studies website for admission requirements. Please note that all applicants must meet the following general admission requirements:

- A bachelor's degree from an accredited college
- A 3.0 GPA as calculated by the School of Graduate Studies. An official transcript must be sent directly to the School of Graduate Studies from each college or university previously attended (except USU).

- Student recommendation request forms (included in application materials) should be used to request three people to submit letters of recommendation directly to the graduate school. At least one letter of recommendation should be from a faculty member from whom the applicant has taken course work.
- International Students: Please visit the School of Graduate Studies website for requirements.

Department Requirements

Applicants must secure an ADVS faculty member to be their major professor before being accepted into a graduate program. The department strongly recommends the following:

- Applicants for a graduate program in ADVS should have completed a BS undergraduate program with courses similar to the science core of the USU Animal and Dairy Science BS degree. This background includes the following courses and their prerequisites:
  - BIOL1610 BIOLOGY I and BIOL1620 BIOLOGY II (BLS) or their equivalents
  - CHEM1210 PRIN OF CHEMISTRY I and CHEM1220 PRIN OF CHEMISTRY II (BPS) or their equivalents
  - MATH1050 COLLEGE ALGEBRA (QL) and STAT2000 STATISTICAL METHODS (QI) or their equivalents
- Applicants with deficiencies in these areas may be admitted to the graduate program subject to the completion of remedial course work specified by the department. Other preparatory courses may be specified by the student's supervisory committee.

Program Requirements

Total Credits Required In Program Coursework
42-70

Total Credits Required To Earn This Credential
42-70

Simple Requisites

Program Requirements

Specializations

- Animal Health and Disease
- Animal Management
- Animal Molecular Genetics
- Animal Nutrition
- Reproduction and Development

General Requirements for Both PhD Types

- A bachelor's degree from an accredited U.S. college or university or a similarly recognized international university is required for admission to and completion of a graduate program.
- Graduate students are required to maintain at least a 3.0 GPA for degree-program courses. Grades of C- or lower will not be accepted for a graduate degree.
- The Program of Study for a doctoral degree, if the student has a master's degree, must include at least 18 semester credits at the level of 6000 or above. If the student does not have a master's degree, the Program of Study must include at least 30 credits at the level of 6000 or above.
- Coursework below the 5000 level may not be used toward a graduate degree. Undergraduate prerequisites for graduate programs may not be included on a Program of Study.
- Courses numbered 5000-5990 are advanced, upper-division courses and a maximum of 12 credits may be used on an approved program of study.
- Credits in the following areas are not acceptable in a degree program: foreign languages (unless included on an approved Program of Study), continuing graduate advisement, individual home study, military science, and courses numbered below 5000.
- Audited courses may not be used for a degree program or toward status as a full-time student.
- A doctorate must be completed within eight years of entering the degree program. Additional time may be requested by the student's committee and submitted to the Vice Provost of Graduate Studies for review.
- Coursework over eight years old at the time of degree completion may not be used for a graduate degree unless it is revalidated by the Vice Provost of Graduate Studies.
- A student may transfer up to 12 graduate credits earned at another accredited institution, including credits with earned P grades, if approved by the department and the School of Graduate Studies. Credits cannot be from a previous degree.
- All graduate students are expected to have a statistics course included in their program of study.

Further Requirements for a PhD with a Bachelor's Degree

- A minimum of 70 credits applied toward a program of study approved by the student's supervisory committee, including:
  - 30 credits minimum of graduate-level coursework (this does not include dissertation credits). Under exceptional circumstances, a student may petition for a waiver of the minimum 30-credit requirement of graduate-level coursework
  - 18 credits minimum of ADVS7970 DISSERTATION RESEARCH
  - 3 credits of ADVS6800 GRAD STUDENT SEMINAR
- ADVS6900 SPECIAL PROBLEMS shall not exceed 6 credits unless approved by the supervisory committee.
- Approval of academic forms required by the School of Graduate Studies:
  - Supervisory committee approval form
  - Program of Study form
  - Application for Candidacy
  - Appointment for Examination
  - Record of Examination
- Successful completion of doctorate candidacy exams
- Successful defense of a dissertation based on original research
- Submission of dissertation to the School of Graduate Studies and library for review and approval
- Annual ADVS Student Research Symposium participation
- Annual meetings with the student and his/her supervisory committee
- Submitted Annual Progress Report

- Annual lab safety training
- RCR training (two parts):
    - CITI online training
    - 8-hour in-person workshop
- Any additional trainings as specified by the student's major advisor

Further Requirements for a PhD with a Master's or DVM Degree

- A minimum of 42 credits applied toward a program of study approved by the student's supervisory committee, including:
    - 15 credits minimum of graduate-level coursework (this does not include dissertation credits). Under exceptional circumstances, a student may petition for a waiver of the minimum 15-credit requirement of graduate-level coursework.
    - 12 credits minimum of ADVS7970 DISSERTATION RESEARCH
    - 2 credits of ADVS6800 GRAD STUDENT SEMINAR
- ADVS6900 SPECIAL PROBLEMS shall not exceed 6 credits unless approved by the supervisory committee.
- Approval of academic forms required by the School of Graduate Studies:
    - Supervisory committee approval form
    - Program of Study form
    - Application for Candidacy
    - Appointment for Examination
    - Record of Examination
- Successful completion of doctorate candidacy exams
- Successful defense of a dissertation based on original research
- Submission of dissertation to the School of Graduate Studies and library for review and approval
- Annual ADVS Student Research Symposium participation
- Annual meetings with the student and his/her supervisory committee
- Submitted Annual Progress Report
- Annual lab safety training
- RCR training (two parts):
    - CITI online training
    - 8-hour in-person workshop
- Any additional trainings as specified by the student's major advisor

Section 1

Type
Completion Requirement

Further Requirements for a PhD with a Bachelor's Degree

Complete ALL of the following Courses:

- ADVS7970 - Dissertation Research - 1cr.
- ADVS6800 - Graduate Student Seminar - 1cr.
- ***30 credits minimum of graduate-level coursework (this does not include dissertation credits)***
- ***18 credits minimum of ADVS7970 DISSERTATION RESEARCH***
- ***3 credits of ADVS6800 GRAD STUDENT SEMINAR***

Section 2

Type
Completion Requirement

Further Requirements for a PhD with a Master's or DVM Degree

Complete ALL of the following Courses:

- ADVS7970 - Dissertation Research - 1cr.
- ADVS6800 - Graduate Student Seminar - 1cr.
- ***15 credits minimum of graduate-level coursework (this does not include dissertation credits)***
- ***12 credits minimum of ADVS7970 DISSERTATION RESEARCH***
- ***2 credits of ADVS6800 GRAD STUDENT SEMINAR***

Program Learning Outcomes

Program Learning Outcomes

https://qanr.usu.edu/advs/assessment/

Aerospace Engineering - MS

Program Overview

College
College of Engineering

Department
Mechanical & Aerospace Engineering

Program Level
Graduate

About this Degree

The Department of Mechanical and Aerospace Engineering provides each graduate with a foundation of knowledge and experience upon which to build successful careers in mechanical engineering, aerospace engineering, composite materials and structures, or space systems engineering.

Aerospace engineers develop new technologies in the defense, aviation, astronautics, and space industries including modern aircraft, satellites, rockets, and space vehicles. Courses and research focus on aerodynamics, vehicle dynamics, controls, propulsion, guidance and navigation, optimization, and structures.

Our graduate programs emphasize research with faculty by focusing on high levels of student involvement providing enhanced preparation for engineering practice, research and education.

Admission Requirements for this Program

- Official transcript indicating a bachelor's degree in an accredited U.S. college or university or a similarly recognized international university in mechanical or aerospace engineering, or closely related engineering discipline
- GPA of 3.3
- GRE Scores are used by some faculty in choosing students and in funding decisions and are therefore strongly encouraged
- 3 letters of recommendation
- Statement of purpose
- International students - proof of English proficiency (TOEFL or (IELTS))

Program Requirements

Total Credits Required In Program Coursework
30

Total Credits Required To Earn This Credential
30

Simple Requisites

Program Requirements

- Must maintain a minimum 3.0 GPA
- A cumulative GPA of 3.0 is required for graduation
- Grades of C- or lower are not permitted on the program of study
- All graduate students must submit School of Graduate Studies forms and requirements for their chosen path
- A master's degree must be completed within six years of entering the degree program. Additional time may be requested by the student's committee and submitted to the Vice Provost of Graduate Studies for review
- Coursework over eight years old at the time of degree completion may not be used for a graduate degree unless it is revalidated
- Credits in the following areas are not acceptable: foreign languages, continuing graduate advisement, individual home study, military science, thesis research, and courses numbered below 6000.
- No more than 12 credits of approved 5000-level courses.

Three program plans are available for the Aerospace Engineering MS degree.

The **Plan A Thesis** requires 30 credits (minimum):

- 6 credits of Aerospace Engineering core courses
- 15 credits of approved MAE technical electives
- 3 credits of an approved 5000-level (or above) math course
- Only 12 credits of 5000-level courses allowed
- Minimum of 6 credits of thesis research
    - A maximum of 15 thesis research credits applied toward a Program of Study
- A thesis proposal and formal thesis defense are required. The thesis must meet School of Graduate Studies and MAE Department requirements
    - Successful defense and submission of the thesis to the library
- In-person attendance at 6 MAE Research Seminar Series presentations before graduating
- Approval of academic forms required for master's students by the School of Graduate Studies
    - Supervisory Committee
    - Program of Study
    - Thesis Proposal Approval
    - Appointment for Examination
    - Record of Examination
    - SGS and library review and approval

The **Plan B Report** requires 30 credits (minimum):

- 6 credits of Aerospace Engineering core courses
- 18 credits of approved MAE technical electives
- 3 credits of an approved 5000-level (or above) math course
- Only 12 credits of approved 5000-level courses are allowed
- 3 credits of project research
- A thesis project proposal and formal report defense are required. The report must meet School of Graduate Studies and MAE Department requirements
    - Successful defense and submission of the project to the library
- In-person attendance at 6 MAE Research Seminar Series presentations before graduating
- Approval of academic forms required for master's students by the School of Graduate Studies
    - Supervisory Committee
    - Program of Study
    - Thesis Project Approval

- Appointment for Examination
- Record of Examination
- Library review and approval

The **Plan C Coursework Only** requires 33 credits (minimum):

- 6 credits of Aerospace Engineering core courses
- 24 credits of approved MAE technical electives
- 3 credits of an approved 5000-level (or above) math course
- Only 12 credits of approved 5000-level courses are allowed
- Approval of academic forms required for master's students by the School of Graduate Studies
  - Program of Study

Section 1

Type
Completion Requirement

Required Core Courses:

Complete ALL of the following Courses:

- MAE5500 - Aerodynamics - 3cr.
- MAE5560 - Dynamics of Space Flight - 3cr.

Section 2

Type
Completion Requirement

Approved Courses:

Choose 15 credits (MS Plan A),18 credits (MS Plan B), or 24 credits (MS Plan C)

Complete ANY of the following Courses:

- ECE5230 - Spacecraft Systems Engineering - 3cr.
- ECE6240 - Space Environment and Engineering - 3cr.
- MAE5020 - Finite Element Methods in Solid Mechanics I - 3cr.
- MAE5040 - Experimental Solid Mechanics - 3cr.
- MAE5050 - Material Science of Composites - 3cr.
- MAE5060 - Mechanics of Composite Materials I - 3cr.
- MAE5300 - Vibrations - 3cr.
- MAE5310 - Control Systems - 4cr.
- MAE5320 - Mechatronics - 4cr.
- MAE5330 - Small Unmanned Aircraft Systems - 3cr.
- MAE5360 - Advanced Dynamics - 3cr.
- MAE5370 - Optimization for Engineers - 3cr.
- MAE5420 - Compressible Fluid Flow - 3cr.
- MAE5440 - Computational Fluid Dynamics - 3cr.
- MAE5510 - Dynamics of Atmospheric Flight - 3cr.
- MAE5540 - Propulsion Systems - 3cr.
- MAE5550 - Introduction to Aircraft Structures - 3cr.
- MAE5930 - Special Problems - 1cr.
- MAE6010 - Finite Element Methods in Solid Mechanics II - 3cr.
- MAE6040 - Continuum Mechanics and Elasticity - 3cr.
- MAE6050 - Manufacturing of Composite Materials and Structures - 3cr.
- MAE6055 - Testing of Composite Materials - 3cr.
- MAE6060 - Micro-Mechanics of Deformation - 3cr.
- MAE6061 - Micro-Mechanisms of Failure - 3cr.
- MAE6070 - Mechanics of Composite Materials II - 3cr.
- MAE6180 - Dynamics and Vibrations - 3cr.
- MAE6320 - Linear Multivariable Control - 3cr.
- MAE6330 - Robust Control - 3cr.
- MAE6340 - Spacecraft Attitude Control Theory - 3cr.
- MAE6440 - Advanced Computational Fluid Dynamics - 3cr.
- MAE6450 - Thermodynamics - 3cr.
- MAE6490 - Turbulence - 3cr.
- MAE6500 - Potential Flow - 3cr.
- MAE6510 - Aircraft Dynamics and Flight Simulation - 3cr.
- MAE6530 - Propulsion Systems - 3cr.
- MAE6540 - Cislunar Astrodynamics and Distributed Space Systems - 3cr.
- MAE6560 - Spacecraft Navigation - 3cr.
- MAE6570 - Optimal Spacecraft Guidance - 3cr.
- MAE6670 - Fracture Mechanics - 3cr.
- MAE6930 - Special Problems - 1cr.
- MAE7330 - Nonlinear and Adaptive Control - 3cr.
- MAE7360 - Optimal Control - 3cr.
- MAE7540 - Astrodynamic Perturbations and Propagation - 3cr.
- MAE7570 - Monte Carlo and Linear Covariance Techniques for Closed-Loop GN&C System Analysis - 3cr.
- MAE7560 - Optimal Estimation for Aerospace Systems - 3cr. **OR** ECE7560 - Optimal Estimation for Aerospace Systems - 3cr.

Section 3

Type
Completion Requirement

Approved Advanced Math Courses

Earn at least 3 credits from the following:

- MATH5270 - Complex Variables - 3cr.
- MATH5410 - Methods of Applied Mathematics - 3cr.
- MATH5420 - Partial Differential Equations - 3cr.
- MATH5460 - Nonlinear Dynamics - 3cr.
- MAE6200 - Mathematical Methods in Aerospace Engineering - 3cr.
- STAT5200 - Analysis of Designed Experiments - 3cr.

Program Learning Outcomes

Program Learning Outcomes

https://engineering.usu.edu/

Aerospace Engineering - PhD

Program Overview

College
College of Engineering

Department
Mechanical & Aerospace Engineering

Program Level
Graduate

About this Degree

The Department of Mechanical and Aerospace Engineering provides each graduate with a foundation of knowledge and experience upon which to build successful careers in mechanical engineering, aerospace engineering, composite materials and structures, or space systems engineering.

Aerospace engineers develop new technologies in the defense, aviation, astronautics, and space industries including modern aircraft, satellites, rockets, and space vehicles. Courses and research focus on aerodynamics, vehicle dynamics, controls, propulsion, guidance and navigation, optimization, and structures.

Our graduate programs emphasize research with faculty by focusing on high levels of student involvement providing enhanced preparation for engineering practice, research, and education.

Admission Requirements for this Program

- Official transcript indicating a bachelor's degree in an accredited U.S. college or university or a similarly recognized international university in mechanical or aerospace engineering, or closely related engineering discipline
- GPA of 3.3
- GRE Scores are used by some faculty in choosing students and in funding decisions and are therefore strongly encouraged
- 3 letters of recommendation
- Statement of purpose
- Curriculum Vitae
- International students - proof of English proficiency (TOEFL or IELTS))

Program Requirements

Total Credits Required In Program Coursework
-

Total Credits Required To Earn This Credential
42-72

Simple Requisites

Program Requirements

- Must maintain a minimum 3.0 GPA
- A cumulative GPA of 3.0 is required for graduation
- Grades of C- or lower are not permitted on the program of study
- All graduate students must submit School of Graduate Studies forms and requirements for their chosen plan
- A doctorate must be completed within eight years of entering the degree program. Additional time may be requested by the student's committee and submitted to the Vice Provost of Graduate Studies for review
- Coursework over eight years old at the time of degree completion may not be used for a graduate degree unless it is revalidated
- Three PhD qualifying exams must be passed
- A proposal defense and a formal final defense are required for the dissertation. The dissertation must meet School of Graduate Studies and MAE Department requirements
    - Successful defense and submission of the dissertation to the library
- A paper related to the dissertation, with the student as the first author, must be submitted for publication in a refereed journal prior to scheduling the final defense
- Students may choose to earn a Plan C Aerospace Engineering or Mechanical Engineering MS degree while completing their PhD. This option increases the PhD minimum requirement to 81 credits
- Credits in the following areas are not acceptable: foreign languages, continuing graduate advisement, individual home study, military science, and courses numbered below 5000
- In-person attendance at 12 MAE Research Seminar Series presentations before graduating
- Approval of academic forms required for doctoral students by the School of Graduate Studies
    - Supervisory Committee
    - Program of Study
    - Application for Candidacy
    - Appointment for Examination
    - Record of Examination
    - SGS and library review and approval

Two program plans are available for the Aerospace Engineering PhD degree.

The **PhD Degree beyond a Bachelor's** requires 72 credits (minimum):

- 6 credits of Aerospace Engineering core courses
- 24 credits of approved MAE technical electives
- Only 12 credits of 5000-level courses allowed
- 6 credits of approved 5000-level (or above) math courses
- 36 credits of dissertation research

The **PhD Degree beyond a Master's** requires 42 credits (minimum):

- 6 credits of Aerospace Engineering core courses
- 3 credits of an approved 6000-level (or above) MAE technical elective
- 3 credits of an approved 5000-level (or above) math course
- 30 credits of dissertation research

Required Core Courses

Type
Completion Requirement

Required core courses:

Complete ALL of the following Courses:

- MAE5500 - Aerodynamics - 3cr.
- MAE5560 - Dynamics of Space Flight - 3cr.

Approved Courses

Type
Completion Requirement

Approved Courses:

Choose 24 credits (**PhD beyond a Bachelor's**)

Earn at least 24 credits from the following:

- ECE5230 - Spacecraft Systems Engineering - 3cr.
- ECE6240 - Space Environment and Engineering - 3cr.
- MAE5020 - Finite Element Methods in Solid Mechanics I - 3cr.
- MAE5040 - Experimental Solid Mechanics - 3cr.
- MAE5050 - Material Science of Composites - 3cr.
- MAE5060 - Mechanics of Composite Materials I - 3cr.
- MAE5300 - Vibrations - 3cr.
- MAE5310 - Control Systems - 4cr.
- MAE5320 - Mechatronics - 4cr.
- MAE5330 - Small Unmanned Aircraft Systems - 3cr.
- MAE5360 - Advanced Dynamics - 3cr.
- MAE5370 - Optimization for Engineers - 3cr.
- MAE5420 - Compressible Fluid Flow - 3cr.
- MAE5440 - Computational Fluid Dynamics - 3cr.
- MAE5510 - Dynamics of Atmospheric Flight - 3cr.
- MAE5540 - Propulsion Systems - 3cr.
- MAE5550 - Introduction to Aircraft Structures - 3cr.
- MAE5930 - Special Problems - 1cr.
- MAE6010 - Finite Element Methods in Solid Mechanics II - 3cr.
- MAE6040 - Continuum Mechanics and Elasticity - 3cr.
- MAE6050 - Manufacturing of Composite Materials and Structures - 3cr.
- MAE6055 - Testing of Composite Materials - 3cr.
- MAE6060 - Micro-Mechanics of Deformation - 3cr.
- MAE6061 - Micro-Mechanisms of Failure - 3cr.
- MAE6070 - Mechanics of Composite Materials II - 3cr.
- MAE6180 - Dynamics and Vibrations - 3cr.
- MAE6320 - Linear Multivariable Control - 3cr.
- MAE6330 - Robust Control - 3cr.
- MAE6340 - Spacecraft Attitude Control Theory - 3cr.
- MAE6410 - Fluid Dynamics - 3cr.
- MAE6430 - Boundary Layer Theory and Convection Heat Transfer - 3cr.
- MAE6440 - Advanced Computational Fluid Dynamics - 3cr.
- MAE6450 - Thermodynamics - 3cr.
- MAE6490 - Turbulence - 3cr.
- MAE6500 - Potential Flow - 3cr.
- MAE6510 - Aircraft Dynamics and Flight Simulation - 3cr.
- MAE6530 - Propulsion Systems - 3cr.
- MAE6540 - Cislunar Astrodynamics and Distributed Space Systems - 3cr.
- MAE6560 - Spacecraft Navigation - 3cr.
- MAE6570 - Optimal Spacecraft Guidance - 3cr.
- MAE6670 - Fracture Mechanics - 3cr.
- MAE6930 - Special Problems - 1cr.
- MAE7330 - Nonlinear and Adaptive Control - 3cr.
- MAE7360 - Optimal Control - 3cr.
- MAE7540 - Astrodynamic Perturbations and Propagation - 3cr.
- MAE7560 - Optimal Estimation for Aerospace Systems - 3cr. **OR** ECE7560 - Optimal Estimation for Aerospace Systems - 3cr.
- MAE7570 - Monte Carlo and Linear Covariance Techniques for Closed-Loop GN&C System Analysis - 3cr.

Approved Courses

Type
Completion Requirement

Approved Courses:

Choose 3 credits (**PhD beyond a Master's**)

Earn at least 3 credits from the following:

- ECE6240 - Space Environment and Engineering - 3cr.
- MAE6010 - Finite Element Methods in Solid Mechanics II - 3cr.
- MAE6040 - Continuum Mechanics and Elasticity - 3cr.
- MAE6050 - Manufacturing of Composite Materials and Structures - 3cr.
- MAE6055 - Testing of Composite Materials - 3cr.
- MAE6060 - Micro-Mechanics of Deformation - 3cr.
- MAE6061 - Micro-Mechanisms of Failure - 3cr.
- MAE6070 - Mechanics of Composite Materials II - 3cr.
- MAE6180 - Dynamics and Vibrations - 3cr.
- MAE6320 - Linear Multivariable Control - 3cr.
- MAE6330 - Robust Control - 3cr.
- MAE6340 - Spacecraft Attitude Control Theory - 3cr.
- MAE6410 - Fluid Dynamics - 3cr.
- MAE6430 - Boundary Layer Theory and Convection Heat Transfer - 3cr.
- MAE6440 - Advanced Computational Fluid Dynamics - 3cr.
- MAE6450 - Thermodynamics - 3cr.
- MAE6490 - Turbulence - 3cr.
- MAE6500 - Potential Flow - 3cr.
- MAE6510 - Aircraft Dynamics and Flight Simulation - 3cr.
- MAE6530 - Propulsion Systems - 3cr.
- MAE6540 - Cislunar Astrodynamics and Distributed Space Systems - 3cr.
- MAE6560 - Spacecraft Navigation - 3cr.
- MAE6570 - Optimal Spacecraft Guidance - 3cr.
- MAE6670 - Fracture Mechanics - 3cr.
- MAE6930 - Special Problems - 1cr.
- MAE7330 - Nonlinear and Adaptive Control - 3cr.
- MAE7360 - Optimal Control - 3cr.
- MAE7540 - Astrodynamic Perturbations and Propagation - 3cr.
- MAE7560 - Optimal Estimation for Aerospace Systems - 3cr. **OR** ECE7560 - Optimal Estimation for Aerospace Systems - 3cr.
- MAE7570 - Monte Carlo and Linear Covariance Techniques for Closed-Loop GN&C System Analysis - 3cr.

Approved Advanced Math Courses

Type
Completion Requirement

Approved Advanced Math Courses:

Choose 6 credits (**PhD beyond a Bachelor's**) or 3 credits (**PhD beyond a Master's**)

Complete ANY of the following Courses:

- MAE6200 - Mathematical Methods in Aerospace Engineering - 3cr.
- MATH5270 - Complex Variables - 3cr.
- MATH5410 - Methods of Applied Mathematics - 3cr.
- MATH5420 - Partial Differential Equations - 3cr.
- MATH5460 - Nonlinear Dynamics - 3cr.
- STAT5200 - Analysis of Designed Experiments - 3cr.

Program Learning Outcomes

Program Learning Outcomes
https://engineering.usu.edu/

Applied Environmental Geoscience - MS

Program Overview

College
College of Agriculture & Natural Resources

Department
Geosciences

Program Level
Graduate

About this Degree

Program Contacts:

Tammy Rittenour, PhD

Professor, Graduate Director

Tammy.rittenour@usu.edu

Kelly Bradbury, PhD, PEG

Professional Practice Associate Professor, Graduate Program Coordinator

Kelly.bradbury@usu.edu

The department offers advanced study leading to the MS-B degree in Applied Environmental Geoscience. This terminal degree program requires a combination of advanced courses selected from Geology offerings, as well as additional courses from other units on campus, such as Civil and Environmental Engineering; Plants, Soils, and Climate; Biology; Chemistry and Biochemistry; Mathematics and Statistics; and other departments in the Quinney College of Agriculture and Natural Resources.

Admission Requirements for this Program

Only the Plan B non-thesis option is allowed for the MS degree in Applied Environmental Geoscience.

The Plan B option requires the production of a report. At least 2 credits of thesis research are required, but no more than 3 credits of thesis credit can be included on the Program of Study. Exceptions to this policy may be based on recommendations by the Graduate Director and GPC to the Department Head.

The Plan B report is usually a review of literature, with conclusions drawn after conceptualizing an area of inquiry, planning a systematic search, and analyzing and critiquing the acquired information. The summary and conclusions developed should enhance knowledge in the discipline. Plan B reports should follow the same format specifications as theses and dissertations.

Plan B reports are defended but are not reviewed by the School of Graduate Studies and a Title Page is not required.

Plan B reports must be submitted to the Merrill-Cazier Library to be uploaded to Digital Commons.

Students may need to complete specific undergraduate coursework to prepare them for their graduate program. Seven preparatory core undergraduate courses are *recommended* by the Department of Geosciences: Physical Geology, Minerals and Rocks (Earth Materials, Mineralogy), Earth through Time (Historical Geology), Sedimentation and Stratigraphy, Geomorphology, Structural Geology, and Field Methods or experience. Graduate students are *generally expected* to have taken a minimum of four of the seven core courses, including a field course; however, this depends on each student's background and planned research topic.

Decisions about any exceptions to these potential prerequisites in a student's graduate program are made by a student's Advisory Committee in their first meeting, and in consultation with the Graduate Director.

Students are expected to be admitted to the Graduate program as matriculated students before taking coursework leading to the degree.

Admission requirements can be found on the USU School of Graduate Studies website (gradschool.usu.edu/admissions/policies) and the Department of Geosciences 'Apply to our Program' page: https://qanr.usu.edu/geo/graduate-program/future-graduates

Additional information about the MS-AEG Geoscience graduate program may be obtained by contacting the Department of Geosciences or by visiting the program website at https://qanr.usu.edu/geo/graduate-program/degree-and-information.

Program Requirements

Total Credits Required In Program Coursework
32

Total Credits Required To Earn This Credential
32

Simple Requisites

Program Requirements

- **Degree Verification:** A bachelor's degree from an accredited U.S. college or university or a similarly recognized international university is required for admission to and completion of a graduate program. An official transcript must be sent directly to the School of Graduate Studies.
- **Overall Graduate GPA at least 3.0 and no grades of C- or lower:** Graduate students are required to maintain at least a 3.0 GPA for Degree Plan courses. Grades of C- or lower will not be accepted for a graduate degree.
- **Course Number Acceptability:** The program of study for an MS-AEG Degree Plan cannot include more than 12 semester credits of courses at the 5000 level. Credits in courses numbered below 5000-level are not accepted for this Degree Plan.
- **Matriculation Start Semester:** A MS-AEG degree must be completed within six years of entering the degree program. Additional time may be requested by the student's advisor and submitted to the Vice Provost of Graduate Studies for review.
- **Coursework Validity:** Coursework over eight years old at the time of degree completion may not be used for a graduate degree unless it is revalidated.
- **Master's of Applied Environmental Science form approvals:**
  - Supervisory Committee submitted by the end of the second semester
  - Program of Study submitted by the end of the second semester
  - Thesis/Project Approval
  - Appointment for Examination (submitted 10 days before date of defense)
  - Record of Examination
  - Plan B Report/Creative Project Submission
  - Graduation application

Students in the MS-AEG Geosciences Degree Plan program are required to take 32 credits beyond a BS degree.

32 Credits

Type
Completion Requirement

Program Learning Outcomes

Program Learning Outcomes
https://qanr.usu.edu/geo/assessment/graduate/learning-objectives

Aerospace Studies - Minor

Program Overview

College
College of Arts & Sciences

Department
Aerospace Studies

Program Level
Undergraduate

About this Degree
The Aerospace Studies minor provides preparation in areas studied by most officers early in their service careers. The minor increases future officers' performance potential in two areas in which all officers must eventually develop competence: **communication skills and international affairs.**

Program Requirements

Total Credits Required To Earn This Credential
24

Simple Requisites

Program Requirements

Section 1

Type
Completion Requirement

Required Courses

Complete ALL of the following Courses:

- AS1010 - Heritage and Values - 1cr.
- AS1110 - Leadership Laboratory I - 1cr.
- AS1020 - Heritage and Values - 1cr.
- AS1120 - Leadership Laboratory I - 1cr.
- AS2010 - Team and Leadership Fundamentals I - 1cr.
- AS2110 - Leadership Laboratory II - 1cr.
- AS2020 - Team and Leadership Fundamentals II - 1cr.
- AS2120 - Leadership Laboratory II - 1cr.
- AS3010 - Leading People and Effective Communication I - 3cr.
- AS3110 - Leadership Laboratory III - 1cr.
- AS3020 - Leading People and Effective Communication II - 3cr.
- AS3120 - Leadership Laboratory III - 1cr.
- AS4010 - National Security and Preparation for Active Duty I - 3cr.
- AS4110 - Leadership Laboratory IV - 1cr.
- AS4020 - National Security and Preparation for Active Duty II - 3cr.
- AS4120 - Leadership Laboratory IV - 1cr.

Program Learning Outcomes

Program Learning Outcomes
https://chass.usu.edu/assessments/

Advanced Fashion Studies - Certificate

Program Overview

College
College of Agriculture & Natural Resources

Department
Applied Sciences, Technology and Education

Program Level
Undergraduate

About this Degree

The Advanced Fashion Studies Certificate will further students knowldege the apparel and fashion industry through textile science, apparel design, patternmaking, sustainability, product development, and managment. Students will be able to learn design and development skills and processes related to soft goods apparel production. Courses include textile science, sustainable systems, relationships of fashion with a sociocultural context, fashion fundamentals, and business related to fashion marketing. This certificate enhances various career paths in fashion, design, costuming, anthropology, and business, strengthens resumes and empowers students through education and experience in fashion studies.

It is recommended that the Fashion Studies Certificate be completed before enrolling in the Advanced Fashion Studies Certificate.

Students must earn a C- or higher to receive the certificate.

Advisor: Caisa Shoop, caisa.shoop@usu.edu

Applied Sciences, Technology & Education (ASTE)

Program Requirements

Total Credits Required In Program Coursework
12

Total Credits Required To Earn This Credential
12

Simple Requisites

Program Requirements

Advanced Fashion Studies - Certificate Course Requirements

Type
Completion Requirement

Textiles (3-7 credits)

Complete at least 1 of the following courses:

- FCSE3030 - Textile Science (DSC/QI) - 4cr.
- FCSE4030 - Textiles and Technology - 3cr.

Historic and Social Context of Clothing (3-6 credits)

Complete at least 1 of the following courses:

- ANTH3310 - Introduction to Museum Studies (CI) - 3cr.
- FCSE4040 - Advanced Apparel Studies - 3cr.

Design (2-9 credits)

Complete at least 1 of the following courses:

- ASTE3900 - Special Problems in Agricultural Systems Technology and Education - 1cr.
- FCSE3140 - Digital Patternmaking for Apparel - 3cr.
- FCSE4140 - Advanced Apparel Design - 3cr.
- FCSE4900 - Independent Study - 1cr.
- OPDD2420 - Digital Technologies for 2-D Design - 3cr.

Business and Management (0-3 credits)

Complete ANY of the following Courses:

- APEC2310 - Small Firm Management - 3cr.
- MGT3700 - Operations Management - 3cr.
- MGT4790 - Managing Global Value Chains - 2cr.
- MSLE3500 - Fundamentals of Marketing - 3cr.
- MSLE4510 - Consumer Behavior - 2cr.
- MSLE4555 - Pricing & B2B Buyer-Seller Decisions - 2cr.

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Undergraduate Academic or Technical Certificates)

Agribusiness - Minor

Program Overview

College
College of Agriculture & Natural Resources

Department
Applied Economics

Program Level
Undergraduate

About this Degree

The Agribusiness minor at Utah State University prepares students to understand and manage agricultural business operations.

Students will gain foundational knowledge in microeconomics, agricultural economics, and agribusiness, along with various electives to enhance their understanding of the industry.

Students will learn about microeconomics, agricultural economics, agribusiness, and various topics like small firm management, commodity futures, and options trading and analysis, agribusiness sales and marketing, and agricultural machinery systems management.

Program Requirements

Total Credits Required In Program Coursework
14-15

Total Credits Required To Earn This Credential
14-15

Simple Requisites

Program Requirements

To graduate with the Agribusiness minor, a minimum GPA of 2.5 is required in minor coursework.

Agribusiness Minor Requirements (14-15 credits)

Type
Completion Requirement

A minimum of 9 credits of Applied Economics courses must be taken, including the following courses:

Complete ALL of the following Courses:

- APEC2010 - Introduction to Microeconomics (BSS) - 3cr.
- APEC3010 - Agricultural Economics (DSS) - 3cr.
- APEC2310 - Small Firm Management - 3cr.

Select the balance of credits from the following courses:

Complete ANY of the following Courses:

- ACCT2010 - Financial Accounting Principles - 3cr.
- APEC1400 - Introduction to Agriculture Policy (BSS) - 3cr.
- APEC2120 - Small Firm Accounting Basics - 3cr.
  OR BUSN1111 - Accounting Principles - 3cr.
- APEC2500 - Commodity Futures and Options Trading and Analysis - 3cr.
- APEC2830 - Agribusiness Sales and Marketing - 3cr.
- ASTE3600 - Data Management of Agricultural Systems (QI) - 3cr.
- BUSN2320 - Small Business Management - CTE - 3cr.

Program Learning Outcomes

Program Learning Outcomes

https://caas.usu.edu/apec/assessment

Agribusiness - Agricultural Finance Emphasis - BS

Program Overview

College
Agriculture & Applied Sciences

Department
Applied Economics

About this Degree

The Agribusiness major provides a foundation for employment in the agricultural sector and in businesses and institutions serving agriculture and rural regions, such as banks and financial institutions, production, marketing and buying cooperatives, value-added food producers, real estate and land management, agricultural chemical production and sales, and farms and ranches. Graduates of this program are employed in a variety of agribusiness operations throughout the United States. Agribusiness graduates have achieved prominence in positions in wholesale and retail sales and service, stock and commodity brokerage, real estate appraisal, banking and farm credit, insurance, and in farm and ranch operations. Classwork provides training in basic business and economics, as well as the specific management tools required for agricultural enterprises.

The Agribusiness major with the Agricultural Finance emphasis is designed for students who are seeking employment in the financial sector of agriculture. Students who want to pursue a career in the banking industry, or in management, or with a large agribusiness corporation take additional coursework from the Huntsman School of Business where they can obtain a business minor and additional training in finance and management. Great opportunities abound for students with Bachelor of Science in Agribusiness with an Agricultural Finance emphasis from USU.

- For more information about Agribusiness, see the website.
- Admitted and current students must meet with an advisor.
- Log on to Degree Works to check student-specific program progress.
- The highest math requirement for this degree is STAT2000 STATISTICAL METHODS (QI)

Admission Requirements for this Program

- New freshmen: Admitted to USU in Good Standing
- Transfer students from other institutions or other programs at USU: 2.5 GPA

Program Requirements

Total Credits Required In Program Coursework
fix

Total Credits Required To Earn This Credential
120

Simple Requisites

Program Requirements

To graduate with a bachelor's degree in Agribusiness with an Agricultural Finance emphasis, a student must have a GPA of 2.5 or higher in all major and emphasis courses, as well as a grade of ***C* or better in each course required for the major**. Agribusiness majors with a dual major must satisfy the admission and graduation requirements of both majors. All required courses must be taken for a letter grade.

Several of the required courses listed for this major will meet general education and university studies requirements. For more detailed information about courses, the recommended sequence for taking them, and the selection of electives, see the APEC academic advisor in the College of Agriculture and Applied Sciences Student Services Center, Abby Macbeth, http://abby.macbeth@usu.edu, 435-797-0454.

Agribusiness Program Requirements (53-55 credits)

Type
Completion Requirement

Required Courses

Students must have a GPA of 2.5 or higher in all major and emphasis courses, as well as a grade of C or better in each major and emphasis course. All required courses must be taken for a letter grade.

Complete ALL of the following Courses:

- ACCT2010 - Financial Accounting Principles - 3cr.
- APEC1600 - Natural Resources and American Economic Institutions (BAI) - 3cr.
- APEC2310 - Small Firm Management - 3cr.
- APEC2500 - Commodity Futures and Options Trading and Analysis - 3cr.
- APEC3010 - Agricultural Economics (DSS) - 3cr.
- APEC3012 - Introduction to Natural Resource Economics (DSS) - 3cr.
- APEC4310 - Agribusiness Finance - 3cr.
- DATA1100 - Excel for Business Analysis - 1cr.
- MATH1050 - College Algebra (QL) - 4cr.
- APEC2120 - Small Firm Accounting Basics - 3cr.
  OR BUSN1111 - Accounting Principles - 3cr.
- APEC3310 - Analytical Methods in Applied Economics (QI) - 3cr.
  OR STAT2000 - Statistical Methods (QI) - 4cr.
- APEC2010 - Introduction to Microeconomics (BSS) - 3cr.
  OR ECON2010 - Introduction to Microeconomics (BSS) - 3cr.
- APEC2830 - Agribusiness Sales and Marketing - 3cr.
  OR GEOG2800 - Introduction to Geographic Information Sciences - 4cr.
  OR LAEP5300 - GIS for Environmental Planning - 4cr.
- APEC5940 - U.S. Agricultural Policy Analysis - 3cr.
  OR APEC5950 - Applied Economics Policy Analysis - 3cr.
- ASTE3050 - Technical and Professional Communication Principles (CI) - 3cr.
  OR BUS3200 - Professional Communication with AI (CI) - 3cr.
- APEC2900 - Agricultural and Natural Resource Law - 3cr.
  OR BUSN2050 - Business Law - 3cr.

CL2

Complete at least 1 course in the following course sets:

- Communications Literacy (CL2) Course

Agricultural Finance Emphasis Requirements (6 credits)

Complete ALL of the following Courses:

- APEC5015 - Applied Economics for Decision Making (QI) - 3cr.
  OR APEC5150 - Advanced Agricultural Credit Analysis - 3cr.
- FIN3200 - Corporate Finance (QI) - 3cr.

Agricultural Finance Emphasis Electives (9 credits)

Earn at least 9 credits from the following:

- FIN3400 - Corporate Finance (QI) - 3cr. (Inactive)
- FIN3500 - Real Estate Finance - 3cr.
- FIN4410 - Financial Institutions - 3cr.
- FIN4420 - Risk Management and Insurance - 3cr.
- FIN4540 - Real Estate Valuation - 3cr.

APEC Agribusiness Elective Requirement (8-9 credits)

Students must select 8-9 credits from the following courses. For additional options, contact the program's academic advisor. APEC4250 APPLIED ECONOMICS INTERNSHIP is strongly recommended.

Earn at least 8 credits from the following:

- APEC4010 - Intermediate Microeconomics - 3cr.
- APEC4250 - Applied Economics Internship - 1cr.
- APEC4900 - Directed Readings, Research, or Seminar Series - 1cr.
- APEC5000 - International Trade and Finance - 3cr.
- APEC5010 - Firm Marketing and Price Analysis (QI) - 3cr.
- APEC5020 - Strategic Firm Management (CI) - 3cr.
- APEC5040 - Rural Economic Development and Agriculture (CI) - 3cr.
- APEC5330 - Applied Econometrics (QI) - 3cr.
- APEC5560 - Natural Resource and Environmental Economics - 3cr.
- APEC5700 - Regional and Community Economic Development - 3cr.
- APEC5710 - Frontiers in Agribusiness - 3cr.

Open Electives

Complete the following as needed:
Total elective credit is determined by General Education courses taken, degree type selected, additional credits earned, and any additional math or other prerequisite courses needed. Please consult your Academic Advisor for details.

Additional Comments:

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Bachelor's Degree)

Suggested Degree Maps

Degree Map Name
Agribusiness: Agricultural Finance BS - 4 Year Degree Map
Total Degree Map Credits
12 - 13
Degree Map Effective Catalog Year
2027 -

Degree Map Narrative

- Following is a sample four-year plan. Please note that student-specific plans may differ.
- Meet with an academic advisor to create a specific plan that best fits your academic needs.
- The student is ultimately responsible for knowing and completing all degree requirements.
- Make sure you meet the registration requirements for each class by clicking the course link and checking any prerequisites or corequisites.
- Consultation with an advisor may result in an altered plan customized for an individual student.
- Check your Degree Works for requirements and completion.

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	12 - 13	0

Requirement Select

- APEC1600 - Natural Resources and American Economic Institutions (BAI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- APEC2120 - Small Firm Accounting Basics
  OR
- BUSN1111 - Accounting Principles

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Breadth Creative Arts (BCA) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Communications Literacy (CL1) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Program Learning Outcomes

Program Learning Outcomes

https://www.usu.edu/oda/assessment/

Agribusiness - Agricultural Finance Emphasis - BS

Program Overview

College
College of Agriculture & Natural Resources

Department
Applied Economics

Program Level
Undergraduate

About this Degree

The Agribusiness major provides a foundation for employment in the agricultural sector and in businesses and institutions serving agriculture and rural regions, such as banks and financial institutions, production, marketing and buying cooperatives, value-added food producers, real estate and land management, agricultural chemical production and sales, and farms and ranches. Graduates of this program are employed in a variety of agribusiness operations throughout the United States. Agribusiness graduates have achieved prominence in positions in wholesale and retail sales and service, stock and commodity brokerage, real estate appraisal, banking and farm credit, insurance, and in farm and ranch operations. Classwork provides training in basic business and economics, as well as the specific management tools required for agricultural enterprises.

The Agribusiness major with the Agricultural Finance emphasis is designed for students who are seeking employment in the financial sector of agriculture. Students who want to pursue a career in the banking industry, or in management, or with a large agribusiness corporation take additional coursework from the Huntsman School of Business where they can obtain a business minor and additional training in finance and management. Great opportunities abound for students with Bachelor of Science in Agribusiness with an Agricultural Finance emphasis from USU.

- For more information about Agribusiness, see the website.
- Admitted and current students must meet with an advisor.
- Log on to Degree Works to check student-specific program progress.
- The highest math requirement for this degree is STAT2000 STATISTICAL METHODS (QI)

Admission Requirements for this Program

- New freshmen: Admitted to USU in Good Standing
- Transfer students from other institutions or other programs at USU: 2.5 GPA

Program Requirements

Total Credits Required In Program Coursework
73-75

Total Credits Required To Earn This Credential
120

Simple Requisites

Program Requirements

To graduate with a bachelor's degree in Agribusiness with an Agricultural Finance emphasis, a student must have a GPA of 2.5 or higher in all major and emphasis courses, as well as a grade of ***C* or better in each course required for the major**. Agribusiness majors with a dual major must satisfy the admission and graduation requirements of both majors. All required courses must be taken for a letter grade.

Several of the required courses listed for this major will meet general education and university studies requirements. For more detailed information about courses, the recommended sequence for taking them, and the selection of electives, see the APEC academic advisor, Abby Macbeth, http://abby.macbeth@usu.edu, 435-797-0454.

Agribusiness Program Requirements (47-49 credits)

Type
Completion Requirement

Required Courses

Students must have a GPA of 2.5 or higher in all major and emphasis courses, as well as a grade of C or better in each major and emphasis course. All required courses must be taken for a letter grade.

Complete ALL of the following Courses:

- ACCT2010 - Financial Accounting Principles - 3cr.
- APEC1600 - Natural Resources and American Economic Institutions (BAI) - 3cr.
- APEC2310 - Small Firm Management - 3cr.
- APEC2500 - Commodity Futures and Options Trading and Analysis - 3cr.
- APEC3010 - Agricultural Economics (DSS) - 3cr.
- APEC3012 - Introduction to Natural Resource Economics (DSS) - 3cr.
- APEC4310 - Agribusiness Finance - 3cr.
- MATH1050 - College Algebra (QL) - 4cr.
- APEC2120 - Small Firm Accounting Basics - 3cr.
  OR BUSN1111 - Accounting Principles - 3cr.
- APEC3310 - Analytical Methods in Applied Economics (QI) - 3cr.
  OR STAT2000 - Statistical Methods (QI) - 4cr.
- APEC2010 - Introduction to Microeconomics (BSS) - 3cr.
  OR ECON2010 - Introduction to Microeconomics (BSS) - 3cr.
- APEC2830 - Agribusiness Sales and Marketing - 3cr.
  OR GEOG2800 - Introduction to Geographic Information Sciences - 4cr.
  OR LAEP5300 - GIS for Environmental Planning - 4cr.
- APEC5940 - U.S. Agricultural Policy Analysis - 3cr.
  OR APEC5950 - Applied Economics Policy Analysis - 3cr.
- ASTE3050 - Technical and Professional Communication Principles (CI) - 3cr.
  OR BUS3200 - Professional Communication with AI (CI) - 3cr.
- APEC2900 - Agricultural and Natural Resource Law - 3cr.
  OR BUSN2050 - Business Law - 3cr.

Communications Literacy

Complete at least 1 course in the following course sets:

- Communications Literacy (CL1) Course
- Communications Literacy (CL2) Course

Agricultural Finance Emphasis Requirements (6 credits)

Complete ALL of the following Courses:

- APEC5015 - Applied Economics for Decision Making (QI) - 3cr.
  OR APEC5150 - Advanced Agricultural Credit Analysis - 3cr.
- FIN3200 - Corporate Finance (QI) - 3cr.

Agricultural Finance Emphasis Electives (9 credits)

Earn at least 9 credits from the following:

- FIN3400 - Corporate Finance (QI) - 3cr. (Inactive)
- FIN3500 - Real Estate Finance - 3cr.
- FIN4410 - Financial Institutions - 3cr.
- FIN4420 - Risk Management and Insurance - 3cr.
- FIN4540 - Real Estate Valuation - 3cr.

APEC Agribusiness Elective Requirement (8 credits)

Students must complete at least 8 additional credits of 4000 or 5000

level APEC classes. APEC 4250 is strongly recommended.

Open Electives

Complete the following as needed:
Total elective credit is determined by General Education courses taken, degree type selected, additional credits earned, and any additional math or other prerequisite courses needed. Please consult your Academic Advisor for details.

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Bachelor's Degree)

Suggested Degree Maps

Degree Map Name
Suggested Degree Map - Agribusiness: Agricultural Finance - BS
Total Degree Map Credits
118 - 120
Degree Map Effective Catalog Year
2027 -

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	15	0

Requirement Select
- APEC1600 - Natural Resources and American Economic Institutions (BAI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- APEC2120 - Small Firm Accounting Basics
  OR
- BUSN1111 - Accounting Principles

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Breadth Creative Arts (BCA) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Communications Literacy (CL1) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	15	0

Requirement Select
- APEC2010 - Introduction to Microeconomics (BSS)
  OR
- ECON2010 - Introduction to Microeconomics (BSS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- APEC2310 - Small Firm Management

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Breadth Physical Sciences (BPS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Communications Literacy (CL2) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Elective (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	15	0

Requirement Select

- ACCT2010 - Financial Accounting Principles

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- APEC2500 - Commodity Futures and Options Trading and Analysis

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Breadth Humanities (BHU) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Breadth Life Sciences (BLS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Elective (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	13 - 14	0

Requirement Select

- APEC2830 - Agribusiness Sales and Marketing
  OR
- GEOG2800 - Introduction to Geographic Information Sciences
  OR
- LAEP5300 - GIS for Environmental Planning

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 4
Progress Credits	-
Contact Hours	3 - 4
Clinical	-
Criticality	No

Requirement Select

- BUSN2050 - Business Law
  OR
- APEC2900 - Agricultural and Natural Resource Law

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- MATH1050 - College Algebra (QL)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- Minor Course (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- LAEP 2300 is taught fall semester only (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Fall	15 - 16	0

Requirement Select

- APEC3310 - Analytical Methods in Applied Economics (QI)
  OR
- STAT2000 - Statistical Methods (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 4
Progress Credits	-
Contact Hours	3 - 4
Clinical	-
Criticality	No

Requirement Select

- ASTE3050 - Technical and Professional Communication Principles (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- FIN3200 - Corporate Finance (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- APEC3012 - Introduction to Natural Resource Economics (DSS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Depth Humanities and Creative Arts (DHA) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Spring	15	0

Requirement Select

- APEC3010 - Agricultural Economics (DSS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Communications Intensive (CI) Courses

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Depth Life and Physical Sciences (DSC) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- FIN Elective course (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Minor Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Fall	15	0

Requirement Select

- APEC4310 - Agribusiness Finance

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- APEC5015 - Applied Economics for Decision Making (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Minor course (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- FIN elective course (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- AGBU elective course (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Spring	15	0

Requirement Select

- APEC5940 - U.S. Agricultural Policy Analysis

OR

- APEC5950 - Applied Economics Policy Analysis

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- FIN elective course (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- AGBU Elective Courses (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select	• Minor courses (Generic)
Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Program Learning Outcomes

Program Learning Outcomes

https://www.usu.edu/oda/assessment/

Agribusiness - Agricultural Marketing Emphasis - BS

Program Overview

College
College of Agriculture & Natural Resources

Department
Applied Economics

Program Level
Undergraduate

About this Degree

The Agribusiness major with an Agricultural Marketing emphasis provides a foundation for employment in the agricultural sector and in businesses and institutions serving agriculture and rural regions, such as banks and financial institutions, production, marketing and buying cooperatives, value-added food producers, real estate and land management, agricultural chemical production and sales, and farms and ranches. Graduates of this program are employed in a variety of agribusiness operations throughout the United States. Agribusiness graduates have achieved prominence in positions in wholesale and retail sales and service, stock and commodity brokerage, real estate appraisal, banking and farm credit, insurance, and in farm and ranch operations. Classwork provides training in basic business and economics, as well as the specific management tools required for agricultural enterprises.

The Agribusiness major with Agricultural Marketing emphasis can be very versatile and, with careful selection of elective credits, students can be well trained for a wide variety of agribusiness careers. Students who want to pursue a career with a large agribusiness corporation could take additional coursework from the Huntsman School of Business where they can obtain a Business Minor or a Marketing Minor. Great opportunities abound for students with Bachelor of Science in Agribusiness with an Agricultural Marketing emphasis from USU.

- For more information about Agribusiness, see the website.
- Admitted and current students must meet with an advisor.
- Log on to Degree Works to check student-specific program progress.
- The highest math requirement for this degree is STAT2000 STATISTICAL METHODS (QI)

Admission Requirements for this Program

- New freshmen: Admitted to USU in Good Standing
- Transfer students from other institutions or other programs at USU: 2.5 GPA

Program Requirements

Total Credits Required In Program Coursework
78

Total Credits Required To Earn This Credential
120

Simple Requisites

Program Requirements

To graduate with a bachelor's degree in Agribusiness with an Agricultural Marketing emphasis, a student must have a **GPA of 2.5 or higher in all major and emphasis courses, as well as a grade of C or better in each course required for the major**. Agribusiness majors with a dual major must satisfy the admission and graduation requirements of both majors. All required courses must be taken for a letter grade.

Several of the required courses listed for this major will meet general education and university studies requirements. For more detailed information about courses, the recommended sequence for taking them and the selection of electives, see the APEC academic advisor, Abby Macbeth, abby.macbeth@usu.edu 435-797-0454.

Agribusiness Program Requirements (53-55 credits)

Type
Completion Requirement

Required Courses

Students must have a GPA of 2.5 or higher in all major and emphasis courses, as well as a grade of C or better in each major and emphasis course. All required courses must be taken for a letter grade.

Complete ALL of the following Courses:

- ACCT2010 - Financial Accounting Principles - 3cr.
- APEC1600 - Natural Resources and American Economic Institutions (BAI) - 3cr.
- APEC2310 - Small Firm Management - 3cr.
- APEC2500 - Commodity Futures and Options Trading and Analysis - 3cr.
- APEC3010 - Agricultural Economics (DSS) - 3cr.
- APEC3012 - Introduction to Natural Resource Economics (DSS) - 3cr.
- APEC4310 - Agribusiness Finance - 3cr.
- MATH1050 - College Algebra (QL) - 4cr.
- APEC2120 - Small Firm Accounting Basics - 3cr.
  OR BUSN1111 - Accounting Principles - 3cr.
- APEC3310 - Analytical Methods in Applied Economics (QI) - 3cr.
  OR STAT2000 - Statistical Methods (QI) - 4cr.
- APEC2010 - Introduction to Microeconomics (BSS) - 3cr.
  OR ECON2010 - Introduction to Microeconomics (BSS) - 3cr.
- APEC2830 - Agribusiness Sales and Marketing - 3cr.
  OR GEOG2800 - Introduction to Geographic Information Sciences - 4cr.
  OR LAEP5300 - GIS for Environmental Planning - 4cr.
- APEC5940 - U.S. Agricultural Policy Analysis - 3cr.
  OR APEC5950 - Applied Economics Policy Analysis - 3cr.
- ASTE3050 - Technical and Professional Communication Principles (CI) - 3cr.
  OR BUS3200 - Professional Communication with AI (CI) - 3cr.
- APEC2900 - Agricultural and Natural Resource Law - 3cr.
  OR BUSN2050 - Business Law - 3cr.

Communications Literacy

Complete at least 1 course in the following course sets:

- Communications Literacy (CL1) Course
- Communications Literacy (CL2) Course

Agricultural Marketing Emphasis Requirements (12 credits)

Complete ALL of the following Courses:

- APEC5000 - International Trade and Finance - 3cr.
- APEC5010 - Firm Marketing and Price Analysis (QI) - 3cr.
- APEC5020 - Strategic Firm Management (CI) - 3cr.
- APEC5330 - Applied Econometrics (QI) - 3cr.

Agricultural Marketing Emphasis Electives (9 credits)

Complete at least 3 of the following courses:

- APEC4250 - Applied Economics Internship - 1cr.
- MSLE3500 - Fundamentals of Marketing - 3cr.
- MSLE4590 - Marketing Strategy - 3cr.
- NDFS5510 - Food Laws and Regulations - 3cr.

Open Electives

Complete the following as needed:

Total elective credit is determined by General Education courses taken, degree type selected, additional credits earned, and any additional math or other prerequisite courses needed. Please consult your Academic Advisor for details.

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Bachelor's Degree)

Suggested Degree Maps

Degree Map Name
Suggested Degree Map - Agribusiness: Agricultural Marketing, BS
Total Degree Map Credits
121 - 122
Degree Map Effective Catalog Year
2027 -

Degree Map Narrative

- Following is a sample four-year plan. Please note that student-specific plans may differ.
- Meet with an academic advisor to create a specific plan that best fits your academic needs.
- The student is ultimately responsible for knowing and completing all degree requirements.
- Make sure you meet the registration requirements for each class by clicking the course link and checking any prerequisites or corequisites.
- Consultation with an advisor may result in an altered plan customized for an individual student.
- Check your Degree Works for requirements and completion.

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	15	0

Requirement Select

- APEC1600 - Natural Resources and American Economic Institutions (BAI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- APEC2120 - Small Firm Accounting Basics
  OR
- BUSN1111 - Accounting Principles

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Breadth Humanities (BHU) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Communications Literacy (CL1) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Elective (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	15	0

Requirement Select

- APEC2010 - Introduction to Microeconomics (BSS)
  OR
- ECON2010 - Introduction to Microeconomics (BSS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- APEC2310 - Small Firm Management

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Breadth Physical Sciences (BPS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Communications Literacy (CL2) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Elective (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	16	0

Requirement Select

- ACCT2010 - Financial Accounting Principles

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Breadth Life Sciences (BLS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Breadth Creative Arts (BCA) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- General Elective Course (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- APEC2500 - Commodity Futures and Options Trading and Analysis

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	14 - 15	0

Requirement Select

- APEC2830 - Agribusiness Sales and Marketing
  OR
- GEOG2800 - Introduction to Geographic Information Sciences
  OR
- LAEP5300 - GIS for Environmental Planning

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 4
Progress Credits	-
Contact Hours	3 - 4
Clinical	-
Criticality	No

Requirement Select

- BUSN2050 - Business Law
  OR
- APEC2900 - Agricultural and Natural Resource Law

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- MATH1050 - College Algebra (QL)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- Elective (1 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Marketing Elective Course (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- LAEP5300 is taught fall semesters only (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Fall	16	0

Requirement Select

- APEC3012 - Introduction to Natural Resource Economics (DSS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- APEC3310 - Analytical Methods in Applied Economics (QI)
  OR
- STAT2000 - Statistical Methods (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	3 - 4
Clinical	-
Criticality	No

Requirement Select

- ASTE3050 - Technical and Professional Communication Principles (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Elective (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Marketing Elective Course (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Spring	15	0

Requirement Select

- APEC3010 - Agricultural Economics (DSS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- APEC4310 - Agribusiness Finance

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Depth Life and Physical Sciences (DSC) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Depth Humanities and Creative Arts (DHA) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Marketing Elective Course (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Fall	15	0

Requirement Select

- APEC5010 - Firm Marketing and Price Analysis (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- APEC5330 - Applied Econometrics (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Marketing Elective Course (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Electives (6 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Spring	15	0

Requirement Select
- APEC5000 - International Trade and Finance

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- APEC5020 - Strategic Firm Management (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- APEC5940 - U.S. Agricultural Policy Analysis

OR
- APEC5950 - Applied Economics Policy Analysis

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Electives (6 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Program Learning Outcomes

Program Learning Outcomes

https://www.usu.edu/oda/assessment/

Agribusiness - BS

Program Overview

College
College of Agriculture & Natural Resources

Department
Applied Economics

Program Level
Undergraduate

About this Degree

The Agribusiness major provides a foundation for employment in the agricultural sector and in businesses and institutions serving agriculture and rural regions, such as banks and financial institutions, production, marketing and buying cooperatives, value-added food producers, real estate and land management, agricultural chemical production and sales, and farms and ranches. Graduates of this program are employed in a variety of agribusiness operations throughout the United States. Agribusiness graduates have achieved prominence in positions in wholesale and retail sales and service, stock and commodity brokerage, real estate appraisal, banking and farm credit, insurance, and in farm and ranch operations. Classwork provides training in basic business and economics, as well as the specific management tools required for agricultural enterprises.

There are three emphasis areas that a student can major in under the Agribusiness degree: 1) Farm and Ranch Management, 2) Agricultural Finance, 3) Agricultural Marketing. However, you can also obtain the major without an emphasis area. This makes for a very versatile major and, with careful selection of elective credits, students can be well trained for a wide variety of agribusiness careers. For example, students who graduate and plan to work in production agriculture on a farm or ranch can obtain a minor in either Animal and Dairy Science or in Agronomy to complement the Agribusiness-Farm and Ranch Management major. Students seeking a career path in the food manufacturing, processing or retailing industries should take elective coursework from the Nutrition, Dietetics and Food Science department, which will give them great training for careers in those sectors. Students who want to pursue a career in the banking industry, or in management, or a large agribusiness corporation could take the Agribusiness-Agricultural Finance major and get additional coursework from the Huntsman School of Business where they could obtain a Business minor. Great opportunities abound for students with Bachelor of Science in Agribusiness from USU.

- For more information about Agribusiness, see the website.
- Admitted and current students must meet with an advisor.
- Log on to Degree Works to check student-specific program progress.
- The highest math requirement for this degree is STAT2000 STATISTICAL METHODS (QI) .

Admission Requirements for this Program

- New freshmen: Admitted to USU in Good Standing
- Transfer students from other institutions or other programs at USU: 2.5 GPA

Program Requirements

Total Credits Required In Program Coursework
73-75

Total Credits Required To Earn This Credential
120

Simple Requisites

Program Requirements

To graduate with a bachelor's degree in Agribusiness, a student must have a GPA of 2.5 or higher in all major and emphasis courses, as well as a grade of *C* or better in each course required for the major. Agribusiness majors with a dual major must satisfy the admission and graduation requirements of both majors. All required courses must be taken for a letter grade.

Several of the required courses listed for this major will meet general education and university studies requirements. For more detailed information about courses, the recommended sequence for taking them and the selection of QANR electives, see the APEC academic advisor in the College of Agriculture and Applied Sciences Student Services Center, Abby Macbeth, http://abby.macbeth@usu.edu, 435-797-0454.

Students interested in a Agribusiness and Agricultural Systems Technology dual major should visit aste.usu.edu for more information.

Agribusiness - BS Course Requirements

Type
Completion Requirement

Agribusiness Program Requirements (53-55 credits)

Complete ALL of the following Courses:

- ACCT2010 - Financial Accounting Principles - 3cr.
- APEC1600 - Natural Resources and American Economic Institutions (BAI) - 3cr.
- APEC2310 - Small Firm Management - 3cr.
- APEC2500 - Commodity Futures and Options Trading and Analysis - 3cr.
- APEC3010 - Agricultural Economics (DSS) - 3cr.
- APEC3012 - Introduction to Natural Resource Economics (DSS) - 3cr.
- APEC4310 - Agribusiness Finance - 3cr.
- MATH1050 - College Algebra (QL) - 4cr.
- APEC2120 - Small Firm Accounting Basics - 3cr.
  OR BUSN1111 - Accounting Principles - 3cr.
- APEC3310 - Analytical Methods in Applied Economics (QI) - 3cr.
  OR STAT2000 - Statistical Methods (QI) - 4cr.
- APEC2010 - Introduction to Microeconomics (BSS) - 3cr.
  OR ECON2010 - Introduction to Microeconomics (BSS) - 3cr.
- APEC2830 - Agribusiness Sales and Marketing - 3cr.
  OR GEOG2800 - Introduction to Geographic Information Sciences - 4cr.
  OR LAEP5300 - GIS for Environmental Planning - 4cr.
- APEC5940 - U.S. Agricultural Policy Analysis - 3cr.
  OR APEC5950 - Applied Economics Policy Analysis - 3cr.
- ASTE3050 - Technical and Professional Communication Principles (CI) - 3cr.
  OR BUS3200 - Professional Communication with AI (CI) - 3cr.
- APEC2900 - Agricultural and Natural Resource Law - 3cr.
  OR BUSN2050 - Business Law - 3cr.

- ***Students must also fulfill the Communications Literacy (CL1, CL2) requirement***

APEC upper division requirements

Students must complete at least 8 additional credits of 4000 or 5000 level APEC classes. APEC 4250 is strongly recommended.

College of Agriculture and Natural Resources Elective Requirement (12 credits)

Complete the following:

Students must complete 6 credits of lower-division and 6 credits of upper-division courses with the following prefixes: ADVS, ASTE, LAEP, NDFS, and PSC. Contact the program's academic advisor for recommendations or additional options.

College of Agriculture and Natural Resource Elective Requirement (12 credits)

Complete the following:
Total elective credit is determined by General Education courses taken, degree type selected, additional credits earned, and any additional math or other prerequisite courses needed. Please consult your Academic Advisor for details.

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Bachelor's Degree)

Suggested Degree Maps

Degree Map Name
Suggested Degree Map - Agribusiness - BS
Total Degree Map Credits
119 - 121
Degree Map Effective Catalog Year
2027 -

Degree Map Narrative

Following is a sample plan. Please note that student-specific plans may differ.

- Meet with an academic advisor to create a specific plan that best fits your academic needs.
- The student is ultimately responsible for knowing and completing all degree requirements.
- Make sure you meet the registration requirements for each class by clicking the course link and checking any prerequisites or corequisites.
- Consultation with an advisor may result in an altered plan customized for an individual student.
- Check your Degree Works for requirements and completion.

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	15	0

Requirement Select
- APEC1600 - Natural Resources and American Economic Institutions (BAI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- APEC2120 - Small Firm Accounting Basics
  OR
- BUSN1111 - Accounting Principles

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Breadth Creative Arts (BCA) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Communications Literacy (CL1) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective course - 3 cr (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	15	0

Requirement Select

- APEC2010 - Introduction to Microeconomics (BSS)
  OR
- ECON2010 - Introduction to Microeconomics (BSS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- APEC2310 - Small Firm Management

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Breadth Life Science (BLS) course - 3 cr (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Breadth Humanities (BHU) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Communications Literacy (CL2) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	15	0

Requirement Select

- ACCT2010 - Financial Accounting Principles

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- APEC2500 - Commodity Futures and Options Trading and Analysis

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Breadth Physical Sciences (BPS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- QANR Electives (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective credits (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	14 - 15	0

Requirement Select
- APEC2900 - Agricultural and Natural Resource Law
  OR
- BUSN2050 - Business Law

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- APEC2830 - Agribusiness Sales and Marketing
  OR
- GEOG2800 - Introduction to Geographic Information Sciences
  OR
- LAEP5300 - GIS for Environmental Planning

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 4
Progress Credits	-
Contact Hours	3 - 4
Clinical	-
Criticality	No

Requirement Select
- MATH1050 - College Algebra (QL)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	5
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- General Elective (1 credit) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- QANR Elective (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Fall	15 - 16	0

Requirement Select
- APEC4310 - Agribusiness Finance

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- APEC3310 - Analytical Methods in Applied Economics (QI)
  OR
- STAT2000 - Statistical Methods (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 4
Progress Credits	-
Contact Hours	3 - 4
Clinical	-
Criticality	No

Requirement Select

- ASTE3050 - Technical and Professional Communication Principles (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Depth Humanities and Creative Arts (DHA) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- APEC3012 - Introduction to Natural Resource Economics (DSS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Spring	15	0

Requirement Select

- APEC3010 - Agricultural Economics (DSS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Depth Life and Physical Sciences (DSC) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Upper Division QANR Elective (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Minor or Elective Courses (6 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Fall	15	0

Requirement Select

- APEC5010 - Firm Marketing and Price Analysis (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- APEC5015 - Applied Economics for Decision Making (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Upper Division QANR Elective (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Minor or elective courses (6 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Spring	15	0

Requirement Select

- APEC5940 - U.S. Agricultural Policy Analysis

OR

- APEC5950 - Applied Economics Policy Analysis

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- APEC5020 - Strategic Firm Management (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Minor or Elective courses (9 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	9
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	Total Major Credits
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Program Learning Outcomes

Program Learning Outcomes

https://caas.usu.edu/apec/assessment

Agribusiness: Farm and Ranch Management Emphasis - BS

Program Overview

College
College of Agriculture & Natural Resources

Department
Applied Economics

Program Level
Undergraduate

About this Degree

The Agribusiness major with Farm and Ranch Management emphasis provides a foundation for employment in the agricultural sector and in businesses and institutions serving agriculture and rural regions, such as banks and financial institutions, production, marketing and buying cooperatives, value-added food producers, real estate and land management, agricultural chemical production and sales, and farms and ranches. Graduates of this program are employed in a variety of agribusiness operations throughout the United States. Agribusiness graduates have achieved prominence in positions in wholesale and retail sales and service, stock and commodity brokerage, real estate appraisal, banking and farm credit, insurance, and in farm and ranch operations. Classwork provides training in basic business and economics, as well as the specific management tools required for agricultural enterprises.

The Agribusiness Major with Farm and Ranch Management emphasis can be very versatile, and with careful selection of elective credits, students can be well trained for a wide variety of agribusiness careers. For example, students who graduate in the AgSystems Option of the degree will be well trained to work in the agribusiness equipment sector of the economy or to work in production agriculture. Students who plan to work in production agriculture on a farm or ranch can obtain a minor in either Animal and Dairy Science or in Agronomy to complement the Agribusiness Major with Farm and Ranch Management emphasis. Great opportunities abound for students with Bachelor of Science in Agribusiness with Farm and Ranch Management emphasis from USU.

- For more information about Agribusiness, see the website.
- Admitted and current students must meet with an advisor.
- Log on to Degree Works to check student-specific program progress.
- The highest math requirement for this degree is STAT2000 STATISTICAL METHODS (QI)

Admission Requirements for this Program

- New freshmen: Admitted to USU in Good Standing
- Transfer students from other institutions or other programs at USU: 2.5 GPA

Program Requirements

Total Credits Required In Program Coursework
70-72

Total Credits Required To Earn This Credential
120

Simple Requisites

Program Requirements

To graduate with a bachelor's degree in Agribusiness with a Farm and Ranch Management emphasis, a student must have a **GPA of 2.5 or higher in all major and emphasis courses, as well as a grade of C or better in each course required for the major.** Agribusiness majors with a dual major must satisfy the admission and graduation requirements of both majors. All required courses must be taken for a letter grade.

Several of the required courses listed for this major will meet general education and university studies requirements. For more detailed information about courses, the recommended sequence for taking them and the selection of QANR electives, see the APEC academic advisor, Abby Macbeth, http://abby.macbeth@usu.edu, 435-797-0454.

Agribusiness Program Requirements (53-55 credits)

Type
Completion Requirement

Required Courses

Students must have a GPA of 2.5 or higher in all major and emphasis courses, as well as a grade of C or better in each major and emphasis course. All required courses must be taken for a letter grade.

Complete ALL of the following Courses:

- ACCT2010 - Financial Accounting Principles - 3cr.
- APEC1600 - Natural Resources and American Economic Institutions (BAI) - 3cr.
- APEC2310 - Small Firm Management - 3cr.
- APEC3010 - Agricultural Economics (DSS) - 3cr.
- APEC3012 - Introduction to Natural Resource Economics (DSS) - 3cr.
- APEC4310 - Agribusiness Finance - 3cr.
- MATH1050 - College Algebra (QL) - 4cr.
- APEC2120 - Small Firm Accounting Basics - 3cr.
  OR BUSN1111 - Accounting Principles - 3cr.
- APEC3310 - Analytical Methods in Applied Economics (QI) - 3cr.
  OR STAT2000 - Statistical Methods (QI) - 4cr.
- APEC2010 - Introduction to Microeconomics (BSS) - 3cr.
  OR ECN2010 - Introduction to Microeconomics (BSS) - 3cr.
- APEC2830 - Agribusiness Sales and Marketing - 3cr.
  OR GEOG2800 - Introduction to Geographic Information Sciences - 4cr.
  OR LAEP5300 - GIS for Environmental Planning - 4cr.
- APEC5940 - U.S. Agricultural Policy Analysis - 3cr.
  OR APEC5950 - Applied Economics Policy Analysis - 3cr.
- ASTE3050 - Technical and Professional Communication Principles (CI) - 3cr.
  OR BUS3200 - Professional Communication with AI (CI) - 3cr.
- APEC2900 - Agricultural and Natural Resource Law - 3cr.
  OR BUSN2050 - Business Law - 3cr.

Communications Literacy

Complete at least 1 course in the following course sets:

- Communications Literacy (CL1) Course
- Communications Literacy (CL2) Course

Farm and Ranch Management Emphasis Requirements (6 credits)

Complete ALL of the following Courses:

- APEC2500 - Commodity Futures and Options Trading and Analysis - 3cr.
- APEC5015 - Applied Economics for Decision Making (QI) - 3cr.

Farm and Ranch Management Emphasis Electives (6 credits)

Complete at least 2 of the following courses:

- APEC4250 - Applied Economics Internship - 1cr.
- APEC5010 - Firm Marketing and Price Analysis (QI) - 3cr.
- APEC5020 - Strategic Firm Management (CI) - 3cr.
- APEC5040 - Rural Economic Development and Agriculture (CI) - 3cr.

- APEC5150 - Advanced Agricultural Credit Analysis - 3cr.

College of Agriculture and Natural Resources Elective Requirement (12 credits)

Students must complete 6 credits of lower-division and 6 credits of upper-division courses with the following prefixes: ADVS, ASTE, LAEP, NDFS, and PSC. Contact the program's academic advisor for recommendations or additional options.

Complete the following:

Open Electives

Complete the following as needed:
Total elective credit is determined by General Education courses taken, degree type selected, additional credits earned, and any additional math or other prerequisite courses needed. Please consult your Academic Advisor for details.

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Bachelor's Degree)

Suggested Degree Maps

Degree Map Name
Suggested Degree Map - Agribusiness: Farm and Ranch Management Emphasis, BS
Total Degree Map Credits
119 - 121
Degree Map Effective Catalog Year
2027 -

Degree Map Narrative

- Following is a sample four-year plan. Please note that student-specific plans may differ.
- Meet with an academic advisor to create a specific plan that best fits your academic needs.
- The student is ultimately responsible for knowing and completing all degree requirements.
- Make sure you meet the registration requirements for each class by clicking the course link and checking any prerequisites or corequisites.
- Consultation with an advisor may result in an altered plan customized for an individual student.
- Check your Degree Works for requirements and completion.

Work with your Academic Advisor to select QANR electives

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	15	0

Requirement Select
- APEC1600 - Natural Resources and American Economic Institutions (BAI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- APEC2120 - Small Firm Accounting Basics
  OR
- BUSN1111 - Accounting Principles

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Breadth Creative Arts (BCA) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Communications Literacy (CL1) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective (3 credit) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	15	0

Requirement Select
- APEC2010 - Introduction to Microeconomics (BSS)
  OR
- ECN2010 - Introduction to Microeconomics (BSS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- APEC2310 - Small Firm Management

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Communications Literacy (CL2) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Breadth Humanities (BHU) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	15	0

Requirement Select
- ACCT2010 - Financial Accounting Principles

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- APEC2500 - Commodity Futures and Options Trading and Analysis

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Breadth Physical Sciences (BPS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Breadth Life Sciences (BLS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- QANR Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	14 - 15	0

Requirement Select

- APEC2830 - Agribusiness Sales and Marketing
  OR
- GEOG2800 - Introduction to Geographic Information Sciences
  OR
- LAEP5300 - GIS for Environmental Planning

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 4
Progress Credits	-
Contact Hours	3 - 4
Clinical	-
Criticality	No

Requirement Select

- BUSN2050 - Business Law
  OR
- APEC2900 - Agricultural and Natural Resource Law

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- MATH1050 - College Algebra (QL)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- QANR Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Elective (1 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- LAEP5300 is only taught fall semesters (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Fall	15 - 16	0

Requirement Select

- APEC3012 - Introduction to Natural Resource Economics (DSS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- APEC3310 - Analytical Methods in Applied Economics (QI)

OR

- STAT2000 - Statistical Methods (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 4
Progress Credits	-
Contact Hours	3 - 4
Clinical	-
Criticality	No

Requirement Select

- ASTE3050 - Technical and Professional Communication Principles (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Depth Humanities and Creative Arts (DHA) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Upper-Division QANR Elective (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Spring	15	0

Requirement Select

- APEC3010 - Agricultural Economics (DSS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Depth Life and Physical Sciences (DSC) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Upper-Division QANR Elective (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Minor course (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Fall	15	0

Requirement Select
- APEC4310 - Agribusiness Finance

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- APEC5010 - Firm Marketing and Price Analysis (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- APEC5015 - Applied Economics for Decision Making (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Minor courses (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Spring	15	0

Requirement Select

- APEC5020 - Strategic Firm Management (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- APEC5940 - U.S. Agricultural Policy Analysis
  OR
- APEC5950 - Applied Economics Policy Analysis

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Minor courses (9 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	9
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Program Learning Outcomes

Program Learning Outcomes

https://www.usu.edu/oda/assessment/

Agribusiness - MS

Program Overview

College
College of Agriculture & Natural Resources

Department
Applied Economics

Program Level
Graduate

About this Degree

The degree focuses on the competitive environment in the food production and agribusiness industries. The program emphasizes the use of various economic and business analytical methods applied quantitatively to aid in the agribusiness decision-making process. Students are given opportunities to learn problem-solving skills in depth and apply them to real world cases through both internship and applied research experiences.

Program Requirements

Total Credits Required In Program Coursework
-

Total Credits Required To Earn This Credential
30

Simple Requisites

Program Requirements

Degree Verification

A bachelor's degree from an accredited U.S. college or university or a similarly recognized international university is required for admission to and completion of a graduate program.

Overall Graduate GPA at least 3.0 and no grades of C- or lower; Graduate students are required to maintain at least a 3.0 GPA for degree-program courses. Grades of C- or lower will not be accepted for a graduate degree.

Course Number Acceptability

The Program of Study for a master's degree must include at least 15 semester credits at the level of 6000 or above.

Credits in the following areas are not acceptable in a degree program: foreign languages (unless included in an approved Program of Study), continuing graduate advisement, individual home study, military science, and courses numbered below 3000.

Matriculation Start Semester

A master's degree must be completed within six years of entering the degree program. Additional time may be requested by the student's committee and submitted to the Vice Provost of Graduate Studies for review.

Coursework Validity

Coursework over eight years old at the time of degree completion may not be used for a graduate degree unless it is revalidated.

USU Residency Requirement

At least 24-semester credits for a master's degree must be from a committee-approved and a School of Graduate Studies-approved Program of Study from Utah State University

Thesis Research Credits 6970

Master's Plan A students:

The Plan A option requires the preparation and defense of a thesis. Students are required to complete a minimum of 6 credits of thesis research (APEC6970 THESIS RESEARCH) for a Program of Study.

Master's Plan B students:

A Plan B option requires the production and defense of a paper or project. Students are required to complete a minimum of 2 credits of thesis research (APEC6970 THESIS RESEARCH) with a maximum of 3 thesis research credits applied toward a Program of Study.

Master's forms: Approval of the following academic forms is required for master's students by the School of Graduate Studies (SGS):

- Supervisory Committee
- Program of Study
- Thesis/Project Approval
- Appointment for Examination
- Record of Examination
- SGS and library review and approval (Plan A)
- Library review and approval (Plan B)

Section 1

Type
Completion Requirement

Plan B

This is a non-thesis MS degree. It is designed to be a terminal Master of Science degree.

Fulfill ALL of the following requirements:

Fall Semester (12 credits)

Complete ALL of the following Courses:

- APEC6040 - Production Economics, Applied Risk Analysis and Simulation - 3cr.
- APEC6330 - Applied Econometrics - 3cr.
- APEC6120 - Economics and Strategy - 3cr.
- Approved Elective (3 credits; see list below)

AND

Spring Semester (12 credits)

Complete ALL of the following Courses:

- APEC5710 - Frontiers in Agribusiness - 3cr.
- APEC6030 - Agricultural Marketing - 3cr.
- APEC6140 - Decision Making and Strategy - 3cr.
- Approved Electives (3 credits; see list below)

AND

Summer or Fall Semester (6 credits)

Complete ALL of the following Courses:

- APEC6970 - Thesis Research - 1cr.
- APEC6250 - Graduate Internship - 1cr.

AND

Approved Electives

Complete ANY of the following Courses:

- APEC5000 - International Trade and Finance - 3cr.
- APEC5940 - U.S. Agricultural Policy Analysis - 3cr.
- APEC5950 - Applied Economics Policy Analysis - 3cr.
- APEC6300 - Quantitative Analysis for Business and Policy Decisions - 3cr.
- APEC6910 - Independent Research - 1cr.
- ASTE6260 - Environmental Impacts of Agricultural Systems - 3cr.
- NDFS6510 - Food Laws and Regulations - 3cr.

Approved elective courses in Finance (FIN), Management (MGT) or Management Information Systems (MIS) may also be used for electives.

Program Learning Outcomes

Program Learning Outcomes
https://caas.usu.edu/assessment

Agricultural Education - BS

Program Overview

College
College of Agriculture & Natural Resources

Department
Applied Sciences, Technology and Education

Program Level
Undergraduate

About this Degree

The Agricultural Education major prepares students to become teachers and FFA advisors in high schools and technical education centers. Ag teachers can teach a wide variety of subjects, including animal science, horticulture, welding and metals, woodshop, leadership courses, and other elective classes. They receive high-quality training at USU and job placement for agriculture teachers is extremely high across the state and the nation.

In addition to courses in agricultural education, the curriculum includes courses in technical agriculture areas, including: agricultural economics; agricultural mechanization; animal, dairy, and veterinary sciences; plant and soil science; and natural resources.

- For more information about Agricultural Education, see the website.
- Admitted and current students must meet with an advisor. Contact Caisa Shoop, caisa.shoop@usu.edu for advising.
- Log on to Degree Works to check student-specific program progress.
- For admission into the Secondary Teacher Education Program, students will need to meet minimum grade requirements, found at teal.usu.edu/htm/undergraduate-programs/seced/adstep.
- The highest math requirement for this degree is MATH1050 COLLEGE ALGEBRA (QL).

Students must choose one of the following emphases:

- Agricultural Education - Community-Based Emphasis - BS
- Agricultural Education - School-Based Emphasis - BS

Program Requirements

Total Credits Required To Earn This Credential

120

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Bachelor's Degree)

Program Learning Outcomes

Program Learning Outcomes

https://www.usu.edu/oda/assessment/

Agricultural Education - Community-Based Emphasis - BS

Program Overview

College
College of Agriculture & Natural Resources

Department
Applied Sciences, Technology and Education

Program Level
Undergraduate

About this Degree

The Agricultural Education, Community-Based major opens the door for students to instruct and lead community outreach programs, work in agricultural extension programs and provide other public and private organizations with expertise as a youth and adult educator. Students in community-based education develop a diverse background in nonformal education techniques, agriculture, leadership, human relationships, communication, analytical reasoning, critical thinking, effective writing, and teamwork. In addition to courses in agricultural education, the curriculum includes agricultural economics, animal, dairy, and veterinary sciences, plant and soil sciences, and natural resources. Classes in nonformal education provide skills in teaching methods for diverse audiences, volunteer program development and management, community programming, outreach development, program evaluation, and youth program development.

Students may engage in a community-based internship beginning in their junior year with an agricultural business, public or private organization, commodity group program, nonprofit organization, or Extension office. Through coursework and hands-on learning opportunities, students in community-based agricultural education will prepare to improve communities and teach global populations using their agricultural content knowledge and experience. This is a major for students who want to share their passion for agriculture through educating broad global populations.

- For more information about Agricultural Education, see the website.
- Admitted and current students must meet with an advisor.
- Contact Caisa Shoop, caisa.shoop@usu.edu, 435-797-8434 for advising.
- Contact Dr. Brian Warnick for internship information: brian.warnick@usu.edu.
- Log on to Degree Works to check student-specific program progress.
- The highest math requirement for this degree is MATH1050 COLLEGE ALGEBRA (QL)

Admission Requirements for this Program

- New freshmen: Admitted to USU in Good Standing
- Transfer students from other institutions or other programs at USU: 2.75 GPA

Program Requirements

Total Credits Required In Program Coursework

93

Total Credits Required To Earn This Credential

120

Simple Requisites

Program Requirements

Students must earn a C or better in all major required courses and have a minimum of a 3.0 major GPA and a 2.0 overall GPA in order to graduate

Community-Based Education Core Classes (33-34 credits)

Type
Completion Requirement

Extension and Education Courses

Complete ALL of the following Courses:

- ASTE2100 - Personal and Team Leadership - 3cr.
- ASTE2710 - Orientation to Agriculture Education - 2cr.
- ASTE3625 - Youth Development Education - 2cr.
- ASTE4155 - Nonformal Teaching Methods - 3cr.
- ASTE4215 - Community Programming and Evaluation - 3cr.
- ASTE5220 - Volunteer Programs and Partnerships - 3cr.
- HDFS1500 - Human Development Across the Lifespan (BSS) - 3cr.
- ITLS2500 - Technology Enabled Instruction - 3cr.
- ANTH3200 - Perspectives on Race (DSS/CI) - 3cr.
  OR CMST3330 - Intercultural Communication (DSS) - 3cr.
  OR CMST4200 - Language, Thought, and Action (CI/DSS) - 3cr.
  OR POLS4220 - Ethnic Conflict and Cooperation (CI/DSS) - 3cr.
  OR SOC3010 - Social Inequality (DSS) - 3cr.
  OR SOC3200 - Population and Society (DSS) - 3cr.
  OR SOC3340 - Activism, Protest, and Social Movements (DSS) - 3cr.
  OR SOC3600 - Finding Community in Today's Society (DSS) - 3cr.
  OR SOC3610 - Rural People and Places (DSS) - 3cr.

Professional Internship

Complete ALL of the following Courses:

- ASTE2250 - Occupational Experience in Agriculture - 1cr.
- ASTE4250 - Occupational Experiences in Agriculture - 1cr.

1-2 credits recommended in ASTE2250 OCCUP EXP IN AG; faculty advisor approval required

minimum 3 credits required in ASTE4250 OCCUP EXP IN AG; faculty advisor approval required

General Science Courses (10-11 credits)

Choose 10-11 credits from the following courses:

Earn at least 10 credits from the following:

- ADVS4560 - Principles of Animal Genetics and Breeding (QI) - 3cr.
- ASTE5600 - Biosecurity I - 3cr.
- ASTE5620 - Food Security and Solutions - 3cr.
- BIOL1610 - Biology I - 3cr.
- BIOL1615 - Biology I Laboratory - 1cr.
- BIOL3060 - Principles of Genetics (QI) - 3cr.
- CHEM1110 - General Chemistry I (BPS) - 4cr.
- GEO1380 - Where Science and Society Meet (BPS) - 3cr.
- STAT1040 - Introduction to Statistics (QL) - 3cr.
- STAT1045 - Introduction to Statistics with Elements with Algebra (QL) - 5cr.
- STAT2000 - Statistical Methods (QI) - 4cr.
- USU1350 - Integrated Life Science (BLS) - 3cr.

Technical Agriculture Courses (25-28 credits)

Choose 25-28 credits from courses in Animal Science, Plant Science, Environmental Science or Agricultural Systems. See list below.

Fulfill ANY of the following requirements:

Animal Science Courses

Complete ANY of the following Courses:

- ADVS1110 - Introduction to Animal Science (BLS) - 3cr.
- ADVS2080 - Beef Production Practices - 3cr.
- ADVS2090 - Sheep Production Practices - 3cr.
- ADVS2120 - Swine Production and Management - 3cr.
- ADVS2190 - Horse Production Practices - 3cr.
- ADVS2300 - Horse Health Care - 2cr.
- ADVS2500 - Feeds and Feeding - 3cr.
- ADVS3500 - Principles of Animal Nutrition - 3cr.
- ADVS3650 - Live Animal and Carcass Evaluation - 3cr.
- NDFS5020 - Meat Science and Technology - 4cr.

OR

Agricultural Systems Courses

Complete ANY of the following Courses:

- ASTE1010 - Introduction to Agricultural Systems Technology - 3cr.
- ASTE1110 - Equipment Safety for Agriculture and Natural Resources - 2cr.
- ASTE1610 - Agricultural and Construction Machinery Power - 4cr.
- ASTE1640 - Introduction to Welding - 3cr.
- ASTE3030 - Metal Fabrication for Agriculture and Natural Resource Industries - 3cr.
- ASTE3080 - Compact Power Units for Agricultural and Turfgrass Applications - 3cr.

OR

Plant Science Courses

Complete ANY of the following Courses:

- PSC1800 - Introduction to Horticulture (BLS) - 3cr.
- PSC2200 - Pesticide Certification - 2cr.
- PSC2600 - Herbaceous Plant Materials - 3cr.
- PSC2620 - Woody Plant Materials: Trees and Shrubs for the Landscape - 3cr.
- PSC2700 - Climate Change Impacts (BPS) - 3cr.
- PSC3000 - Fundamentals of Soil Science - 4cr.
- PSC3400 - Arboriculture - 3cr.
- PSC3700 - Plant Propagation - 4cr.
- PSC3800 - Fundamentals of Organic Agriculture - 3cr.
- PSC3810 - Turfgrass Management - 3cr.
- PSC4050 - Greenhouse Management and Crop Production - 4cr.
- PSC4280 - Field and Food Cropping Systems - 3cr.
- PSC4310 - World Food Crops and Cropping Systems: The Plants That Feed Us (INACTIVATED FALL 2025) - 3cr. (Inactive)
- PSC4320 - Forage Production and Pasture Management - 3cr.
- PSC4400 - Modern Vegetable Production - 3cr.
- PSC5222 - Temperate Zone Fruit Production - 3cr.

OR

Environmental Science Courses

Complete ANY of the following Courses:

- ASTE5260 - Environmental Impacts of Agricultural Systems (CI) - 3cr.
- BIOL3220 - Field Ecology (QI) - 2cr.

- ENVS2340 - Environment, Natural Resources, and Society (BSS) - 3cr.
- ENVS3010 - Natural Resource and Environmental Policy - 3cr.
- ENVS4000 - Human Dimensions of Natural Resource Management (DSS) - 3cr.
- LAEP2039 - Foundations of Sustainable Systems - 3cr.
- WATS1200 - The Natural World and Our Place Within It (BLS) - 3cr.
- WILD2200 - Ecology of Our Changing World (BLS) - 3cr.
- WILD4000 - Principles of Rangeland Management - 3cr.

Communications and Leadership Courses (3 credits)

Complete ALL of the following Courses:

- ASTE3050 - Technical and Professional Communication Principles (CI) - 3cr.

Communications and Leadership Electives (8 credits)

Select remaining 8 credits from courses listed below.

Earn at least 8 credits from the following:

- ASTE3090 - Graphic Design in Agriculture and Media Industries - 3cr.
- CMST1020 - Public Speaking (BHU) - 3cr.
- CMST2110 - Interpersonal Communication (BHU) - 3cr.
- CMST3250 - Organizational Communication (CI) - 3cr.
- ENVS4700 - Communicating Sustainability (CI) - 3cr.
- ITLS5215 - Video and Audio Design and Production I - 3cr.
- ITLS5240 - Graphic Design and Production II - 3cr.
- ITLS5270 - Digital Making and Learning - 3cr.
- MSLE3110 - Managing Organizations and People (DSS) - 3cr.
- MSLE3710 - Leading Teams - 2cr.
- MSLE3800 - Leadership - 2cr.
- MSLE3830 - Women's Leadership Development - 2cr. (Inactive)
- SOC4640 - Managing Community Conflict (CI) - 3cr.
- TCR2100 - Introduction to Technical Communication - 3cr.
- TCR3230 - Community Grant Writing - 3cr.
- USU2400 - Career Series 2: Networking and Preparing for Internships - 1cr.

CBE Electives (10 credits)

Select a minimum of 10 credits from courses in a Foreign Language, Societal Issues, Nonformal Education Enrichment, or Economics and Business.

Fulfill ANY of the following requirements:

Societal Issues Electives

Complete ANY of the following Courses:

- ASTE2900 - Food Matters: Ethics, Economics, and the Environment (BSS) - 3cr.
- ASTE3440 - Science, Technology, and Modern Society (DSC) - 3cr.
- HDFS2450 - Consumer and Family Economic Issues (BSS) - 3cr.
- HDFS3700 - Mental Health Advocacy and Awareness - 3cr.
- HEP5250 - Global Health & Service Learning - 3cr.
- NDFS1240 - Food Literacy - 3cr.
- NDFS3110 - Food, Technology, Sustainability and Health (DSC) - 3cr.
- NDFS5010 - Hunger Issues and Solutions - 3cr.

OR

Nonformal Education Enrichment Electives

Complete ANY of the following Courses:

- ADVS3150 - Principles of Equine-Assisted Services - 3cr.
- ADVS3400 - Equine Specialist in Equine-Assisted Interventions - 3cr.
- ENVS3400 - Fundamentals of Tourism - 3cr.
- ENVS4610 - Foundations of Environmental Education - 3cr. (Inactive)
- RAM1000 - Introduction to Recreation Services - 2cr.
- RAM3000 - Recreation Experience Design I - 3cr.
- SOC3010 - Social Inequality (DSS) - 3cr.
- USU1340 - Social Systems and Issues (BSS) - 3cr.

OR

Economics and Business Electives

Complete ANY of the following Courses:

- APEC1600 - Natural Resources and American Economic Institutions (BAI) - 3cr.
- APEC2010 - Introduction to Microeconomics (BSS) - 3cr.
- APEC2830 - Agribusiness Sales and Marketing - 3cr.
- APEC3010 - Agricultural Economics (DSS) - 3cr.
- APEC3012 - Introduction to Natural Resource Economics (DSS) - 3cr.
- CMST3280 - Organizations and Social Change - 3cr.
- ECN1500 - Introduction to Macroeconomics - 3cr.
- HDFS3350 - Family Finance (DSS) - 3cr.
- MGT3100 - Organizational Behavior - 2cr.

Open Electives

Complete the following as needed:
Total elective credit is determined by General Education courses taken, degree type selected, additional credits earned, and any additional math or other prerequisite courses needed. Please consult your Academic Advisor for details.

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Bachelor's Degree)

Suggested Degree Maps

Degree Map Name
Suggested Degree Map - Agricultural Education BS, Community-Based
Total Degree Map Credits
116 - 132
Degree Map Effective Catalog Year
2027 -

Degree Map Narrative

- Following is a sample four-year plan. Please note that student-specific plans may differ.
- Meet with an academic advisor to create a specific plan that best fits your academic needs.

- The student is ultimately responsible for knowing and completing all degree requirements.
- Make sure you meet the registration requirements for each class by clicking the course link and checking any prerequisites or corequisites.
- Consultation with an advisor may result in an altered plan customized for an individual student.
- Check your Degree Works for requirements and completion.

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	15	0

Requirement Select
- ASTE2710 - Orientation to Agriculture Education

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select
- ENGL1010 - Writing as Inquiry (CL1)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- HDFS1500 - Human Development Across the Lifespan (BSS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- MATH1050 - College Algebra (QL)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- Breadth Humanities (BHU) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- CMST 1020 or CMST 2110 are recommended BHU courses (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	14 - 17	0

Requirement Select
- ASTE2100 - Personal and Team Leadership

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Breadth Life Sciences (BLS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Breadth Social Sciences (BSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Breadth Integrated Studies course (USU1350 recommended) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2 - 3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- General Science course (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- ASTE2900 is recommended as a BSS course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	15	0

Requirement Select

- ENGL2010 - Research and Argument Across Perspectives (CL2)
  OR
- ENGL2020 - Professional Communication (CL2)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Community-Based Education Elective Course (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- General Science Course (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Technical Agriculture: Animal, Plant, Environmental or Ag Systems Science Course (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Technical Agriculture: Animal, Plant, Environmental or Ag Systems Science Course (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	13 - 18	0

Requirement Select

- ASTE2250 - Occupational Experience in Agriculture

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1 - 6
Progress Credits	-
Contact Hours	1 - 6
Clinical	-
Criticality	No

Requirement Select

- Breadth Creative Arts (BCA) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- General Science Course (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Technical Agriculture: Animal, Plant, Environmental or Ag Systems Science Course (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Technical Agriculture: Animal, Plant, Environmental or Ag Systems Science Course (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- 1-2 credits are recommended in ASTE2250 (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Fall	16 - 18	0

Requirement Select

- ASTE3050 - Technical and Professional Communication Principles (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- ASTE4155 - Nonformal Teaching Methods

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Depth Humanities and Creative Arts (DHA) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1 - 3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Community-Based Education Elective Course (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Communications and Leadership Course (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Technical Agriculture: Animal, Plant, Environmental or Ag Systems Science Course (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- ASTE2710 is recommended as a prerequisite for ASTE4155; ASTE3090 is recommended as a Communications and Leadership course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Spring	15 - 16	0

Requirement Select

- ASTE3625 - Youth Development Education

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select
- CMST4200 - Language, Thought, and Action (CI/DSS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Community-Based Education Elective Course (3-4 credits) (a foreign language course is recommended) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Technical Agriculture course (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective course (1 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- ITLS2500 - Technology Enabled Instruction

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Fall	13 - 18	0

Requirement Select
- ASTE4215 - Community Programming and Evaluation

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- ASTE4250 - Occupational Experiences in Agriculture

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1 - 6
Progress Credits	-
Contact Hours	1 - 6
Clinical	-
Criticality	No

Requirement Select
- Communications & Leadership Course (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Technical Agriculture: Animal, Plant, Environmental or Ag Systems Science Course (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Technical Agriculture: Animal, Plant, Environmental or Ag Systems Science Course (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- minimum of 3 credits is required in ASTE4250 (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Spring	15	0

Requirement Select

- ASTE5220 - Volunteer Programs and Partnerships

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Breadth American Institutions (BAI) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Community-Based Education Elective Course (3 credits) see advisor (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Communications and Leadership Course (2 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Technical Agriculture: Animal, Plant, Environmental or Ag Systems Science Course (4 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- APEC1600 is recommended as a BAI course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Program Learning Outcomes

Program Learning Outcomes

https://qanr.usu.edu/aste/assessment/

Agricultural Education - School-Based Emphasis - BS

Program Overview

College	Department	Program Level
College of Agriculture & Natural Resources	Applied Sciences, Technology and Education	Undergraduate

About this Degree

The Agricultural Education major prepares students to become teachers and FFA advisors in high schools and technical education centers. Ag teachers can teach a wide variety of subjects, including animal science, horticulture, welding and metals, woodshop, leadership courses, and other elective classes. They receive high-quality training at USU and job placement for agriculture teachers is extremely high across the state and the nation.

In addition to courses in agricultural education, the curriculum includes courses in technical agriculture areas, including: agricultural economics; agricultural mechanization; animal, dairy, and veterinary sciences; plant and soil science; and natural resources.

- For more information about Agricultural Education, see the website.
- Admitted and current students must meet with an advisor. Contact Caisa Shoop, caisa.shoop@usu.edu for advising.
- Log on to Degree Works to check student-specific program progress.
- For admission into the Secondary Teacher Education Program, students will need to meet minimum grade requirements, found at teal.usu.edu/htm/undergraduate-programs/seced/adstep.
- The highest math requirement for this degree is MATH1050 COLLEGE ALGEBRA (QL)

Admission Requirements for this Program

- New freshmen: Admitted to USU in Good Standing
- Transfer students from other institutions or other programs at USU: 2.75 GPA

Program Requirements

Total Credits Required In Program Coursework	Total Credits Required To Earn This Credential
105	120

Simple Requisites

Program Requirements

In order to obtain a secondary teaching license for grades 6-12, students must complete the 30-credit Secondary Teacher Education Program (STEP), which includes one semester of student teaching in a public school. This program is administered by USU's School of Teacher Education and Leadership (TEAL) within the Emma Eccles Jones College of Education and Human Services. Student must apply to the School of TEAL the semester before taking STEP courses. This is usually the fall of their junior year. Students learn subject content through the School of Applied Sciences, Technology, and Education and spend the last year or two studying education techniques through the STEP program.

Students in the Agricultural Education, School-Based program do not need to have a minor because the program provides students with knowledge in several subject areas, therefore expanding their career options.

Students must earn a C or better in all major required courses and have a minimum of a 3.0 major GPA and a 2.0 overall GPA in order to graduate.

For admission into the Secondary Teacher Education Program, students will need to meet minimum grade requirements, found at teal.usu.edu/htm/undergraduate-programs/seced/adstep. Contact Caisa Shoop, caisa.shoop@usu.edu for advising.

Agricultural Education - BS, School-Based Requirements

Type
Completion Requirement

Mathematics Requirement (4 credits)

Complete ALL of the following Courses:
- MATH1050 - College Algebra (QL) - 4cr.

Professional Education (15 credits)

Complete ALL of the following Courses:
- ITLS2500 - Technology Enabled Instruction - 3cr.
- SCED3210 - Educational and Multicultural Foundations (DSS/CI) - 3cr.
- SCED5100 - Motivation and Classroom Management - 3cr.
- SCED5200 - Language, Literacy, and Learning in the Content Areas (CI) - 3cr.
- SPED4000 - Education of Students with Disabilities - 3cr.

Agricultural Education (27 credits)

Complete ALL of the following Courses:
- ASTE2710 - Orientation to Agriculture Education - 2cr.
- ASTE3240 - Teaching in Laboratory Settings (CI) - 3cr.
- ASTE3300 - Clinical Experience in Agricultural Education - 1cr.
- ASTE3620 - Managing the FFA and SAE Programs - 2cr.
- ASTE4150 - Methods of Teaching Agriculture (CI) - 3cr.
- ASTE4210 - Cognition and Evaluation of Student Learning in Career and Technical Education - 3cr.
  OR SCED5210 - Learning Theory, Curriculum, and Assessment - 3cr.
- ASTE4300 - Clinical Experience II in Agricultural Education - 1cr.
- ASTE5500 - Agricultural Education Secondary Curriculum Seminar - 2cr.
- ASTE5630 - Agricultural Education Student Teaching in Secondary Schools - 10cr.

Technical Agriculture Courses (53 credits)

Fulfill ALL of the following requirements:

Core Science & Literacy (10 credits)

Complete ALL of the following Courses:
- ASTE2900 - Food Matters: Ethics, Economics, and the Environment (BSS) - 3cr.
- CHEM1110 - General Chemistry I (BPS) - 4cr.
- USU1350 - Integrated Life Science (BLS) - 3cr.
  OR BIOL1610 - Biology I - 3cr.

AND

Animal Science Courses (3 credits)

Complete ALL of the following Courses:
- ADVS1110 - Introduction to Animal Science (BLS) - 3cr.

AND

Animal Production Course

Complete at least 1 of the following courses:
- ADVS2020 - Companion Animal Nursing - 2cr.
- ADVS2030 - Exotic and Laboratory Animal Health and Care - 1cr.
- ADVS2080 - Beef Production Practices - 3cr.
- ADVS2090 - Sheep Production Practices - 3cr.
- ADVS2120 - Swine Production and Management - 3cr.
- ADVS2190 - Horse Production Practices - 3cr.

AND

Animal Science Course

Complete at least 1 of the following courses:
- ADVS2200 - Anatomy and Physiology of Animals - 3cr.
- ADVS2500 - Feeds and Feeding - 3cr.
- ADVS3100 - Equine Evaluation and Judging - 3cr.
- ADVS3500 - Principles of Animal Nutrition - 3cr.
- ADVS3650 - Live Animal and Carcass Evaluation - 3cr.
- ADVS3710 - Advanced Livestock Judging - 2cr.
- ADVS4560 - Principles of Animal Genetics and Breeding (QI) - 3cr.

AND

Agricultural Systems Courses (9 credits)

Complete ALL of the following Courses:
- ASTE1640 - Introduction to Welding - 3cr.
  OR ASTE3030 - Metal Fabrication for Agriculture and Natural Resource Industries - 3cr.
- ASTE3080 - Compact Power Units for Agricultural and Turfgrass Applications - 3cr.
- ASTE1010 - Introduction to Agricultural Systems Technology - 3cr.
  OR ASTE1610 - Agricultural and Construction Machinery Power - 4cr.
  OR ASTE2200 - Electricity in Agricultural Systems - 3cr.
  OR ASTE4100 - Agricultural Structures and Environment (QI) - 3cr.
  OR ASTE1110 - Equipment Safety for Agriculture and Natural Resources - 2cr.

AND

Plant and Soil Science Required Courses (11 credits)

Complete ALL of the following Courses:
- PSC1800 - Introduction to Horticulture (BLS) - 3cr.
- PSC3000 - Fundamentals of Soil Science - 4cr.
- PSC4050 - Greenhouse Management and Crop Production - 4cr.

AND

Plant and Soil Science Elective Courses (2-4 credits)

Complete at least 1 of the following courses:
- PSC2030 - Basic Flower Arranging - 2cr.
- PSC2200 - Pesticide Certification - 2cr.
- PSC2600 - Herbaceous Plant Materials - 3cr.
- PSC2620 - Woody Plant Materials: Trees and Shrubs for

the Landscape - 3cr.
- PSC3500 - Structure and Function of Plants - 3cr.
- PSC3600 - An Introduction to Plant Breeding and Heredity - 3cr.
- PSC3700 - Plant Propagation - 4cr.
- PSC3800 - Fundamentals of Organic Agriculture - 3cr.
- PSC3810 - Turfgrass Management - 3cr.
- PSC4280 - Field and Food Cropping Systems - 3cr.
- PSC4310 - World Food Crops and Cropping Systems: The Plants That Feed Us (INACTIVATED FALL 2025) - 3cr. (Inactive)
- PSC4320 - Forage Production and Pasture Management - 3cr.
- PSC4400 - Modern Vegetable Production - 3cr.
- PSC4550 - Integrated Weed Management - 3cr.
- PSC5222 - Temperate Zone Fruit Production - 3cr.

AND

Natural Resources Course (2-3 credits)

Complete at least 1 of the following courses:
- BIOL3220 - Field Ecology (QI) - 2cr.
- ENVS1350 - Introduction to Environmental Science (BLS) - 3cr.
- WILD2200 - Ecology of Our Changing World (BLS) - 3cr.
- WILD3500 - Introduction to Rangeland Management - 3cr.
- WILD4000 - Principles of Rangeland Management - 3cr.

AND

Communications & Leadership (6 credits)

Complete ALL of the following Courses:
- ASTE2100 - Personal and Team Leadership - 3cr.
- ASTE3050 - Technical and Professional Communication Principles (CI) - 3cr.

AND

AG Economics/Business Courses (3 credits)

Complete ALL of the following Courses:
- APEC1600 - Natural Resources and American Economic Institutions (BAI) - 3cr.

Elective Courses (6 credits)

Take 6 credits from the following course options. See advisor to choose from animal science, plant science, ag systems, natural resources, ag business or other recommended courses.

Earn at least 6 credits from the following:
- ADVS4560 - Principles of Animal Genetics and Breeding (QI) - 3cr.
- APEC2830 - Agribusiness Sales and Marketing - 3cr.
- ASTE1010 - Introduction to Agricultural Systems Technology - 3cr.
- ASTE1610 - Agricultural and Construction Machinery Power - 4cr.
- ASTE2250 - Occupational Experience in Agriculture - 1cr.
- ASTE2450 - Domestic Study Experience - 1cr.
- ASTE3440 - Science, Technology, and Modern Society (DSC) - 3cr.
- ASTE4250 - Occupational Experiences in Agriculture - 1cr.
- ASTE5450 - Study Abroad Experience - 1cr.
- BIOL3060 - Principles of Genetics (QI) - 3cr.
- CMST1020 - Public Speaking (BHU) - 3cr.
- USU1350 - Integrated Life Science (BLS) - 3cr.

Open Electives

Complete the following as needed:
Total elective credit is determined by General Education courses taken, degree type selected, additional credits earned, and any additional math or other prerequisite courses needed. Please consult your Academic Advisor for details.

Additional Comments:

Licensure Notification

This program typically leads to licensure and was designed to meet licensing qualifications in the state of Utah. If students wish to work in another state within the United States, they should review the qualifications for that state and the Education Licensure Compliance Table provided by School of Teacher Education and Leadership.

For more information, please contact the School of Teacher Education and Leadership at https://cehs.usu.edu/teal/

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Bachelor's Degree)

Suggested Degree Maps

Degree Map Name
Suggested Degree Map - Agricultural Education - School-Based Emphasis, BS
Total Degree Map Credits
119 - 122
Degree Map Effective Catalog Year
2027 -

Degree Map Narrative

- Following is a sample four-year plan. Please note that student-specific plans may differ.
- Meet with an academic advisor to create a specific plan that best fits your academic needs.
- The student is ultimately responsible for knowing and completing all degree requirements.
- Make sure you meet the registration requirements for each class by clicking the course link and checking any prerequisites or corequisites.
- Consultation with an advisor may result in an altered plan customized for an individual student.
- Check your Degree Works for requirements and completion.

Students must have a background check, submit their application to STEP (by Oct 1), and register for Level I classes in fall semester of their third year. (Must have a 3.0 GPA to be admitted to STEP)

Students must apply for graduation and register for Level II classes in spring semester of their third year

Students must apply for student teaching in fall semester of their fourth year

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	14	0

Requirement Select
- ADVS1110 - Introduction to Animal Science (BLS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- ASTE2710 - Orientation to Agriculture Education

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select
- ENGL1010 - Writing as Inquiry (CL1)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	C+
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- APEC1600 - Natural Resources and American Economic Institutions (BAI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Breadth Humanities (BHU) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- a minimum C+ grade is required in ENGL1010 (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	16	0

Requirement Select
- ASTE2900 - Food Matters: Ethics, Economics, and the Environment (BSS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- ENGL2010 - Research and Argument Across Perspectives (CL2)

  OR
- ENGL2020 - Professional Communication (CL2)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- PSC1800 - Introduction to Horticulture (BLS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- MATH1050 - College Algebra (QL)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- Breadth Creative Arts (BCA) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- LAEP1030 is recommended as a BCA course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	15 - 16	0

Requirement Select

- USU1350 - Integrated Life Science (BLS)
  OR
- BIOL1610 - Biology I
- **AND** BIOL1615 - Biology I Laboratory

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 4
Progress Credits	-
Contact Hours	3 - 4
Clinical	-
Criticality	No

Requirement Select

- Natural Resources Course (3 credits) (Select one from recommended course list) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- PSC Elective Course (3 credits) (choose from list) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Ag Systems Elective Course (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Animal Production Course (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	16	0

Requirement Select

- ASTE2100 - Personal and Team Leadership

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- CHEM1110 - General Chemistry I (BPS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- Animal Science Course (3 credits) (see advisor) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- AGED Elective Courses (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- AGED Elective Courses (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Fall	14 - 16	0

Requirement Select

- ASTE1640 - Introduction to Welding

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- ITLS2500 - Technology Enabled Instruction

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- SCED3210 - Educational and Multicultural Foundations (DSS/CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- PSC3000 - Fundamentals of Soil Science

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- Depth Humanities and Creative Arts (DHA) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1 - 3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Spring	16	0

Requirement Select

- ASTE3240 - Teaching in Laboratory Settings (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- ASTE3300 - Clinical Experience in Agricultural Education

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- ASTE3620 - Managing the FFA and SAE Programs

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select

- SCED5100 - Motivation and Classroom Management

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- ASTE3080 - Compact Power Units for Agricultural and Turfgrass Applications

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- PSC4050 - Greenhouse Management and Crop Production

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Fall	16	0

Requirement Select

- ASTE3050 - Technical and Professional Communication Principles (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- ASTE4150 - Methods of Teaching Agriculture (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- ASTE4210 - Cognition and Evaluation of Student Learning in Career and Technical Education

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- ASTE4300 - Clinical Experience II in Agricultural Education

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- SCED5200 - Language, Literacy, and Learning in the Content Areas (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- SPED4000 - Education of Students with Disabilities

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Spring	12	0

Requirement Select

- ASTE5500 - Agricultural Education Secondary Curriculum Seminar

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select

- ASTE5630 - Agricultural Education Student Teaching in Secondary Schools

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	10
Progress Credits	-
Contact Hours	10
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Program Learning Outcomes

Program Learning Outcomes

https://www.usu.edu/oda/assessment/

Agricultural Extension and Education - MS

Program Overview

College	Department	Program Level
College of Agriculture & Natural Resources	Applied Sciences, Technology and Education	Graduate

About this Degree

Website: https://caas.usu.edu/aste/

This degree emphasizes research, leadership, and teaching. Students are provided with coursework to gain research skills, engage in mentoring and organizational management, and improve their pedagogical approaches to teaching and learning in formal or nonformal educational settings. This degree program requires a thesis. The completion of a thesis prepares students with the skills and experiences needed to read, interpret, and conduct research. This degree program also prepares students for a future Ph.D. program. The program can be completed on campus or at a distance as all coursework (30 credits) is available online. Seven courses are required (24 credits). Most students in the program take two classes (6 credits) per semester. Students who follow this will be able complete the program in approximately 2 years (5 semesters).

Admission Requirements for this Program

The required documentation for the application package and admissions requirements are noted on the ASTE Graduate Admission and Application webpage, https://caas.usu.edu/aste/graduate/graduate-program-admission.

Program Requirements

Total Credits Required In Program Coursework	Total Credits Required To Earn This Credential
30	30

Simple Requisites

Program Requirements

School of Graduate Studies Requirements:

Degree Verification

- A bachelor's degree from an accredited U. S. college or university or a similarly recognized international university is required for admission to and completion of a graduate program.

Overall Graduate GPA

- At least 3. 0 and no grades of C- or lower. Graduate students are required to maintain at least a 3. 0 GPA for degree-program courses. Grades of C- or lower will not be accepted for a graduate degree.

Course Number Acceptability

- The Program of Study for a master's degree must include at least 18 semester credits at the level of 6000 or above. A maximum of 12 credits from courses at the level of 5000 may be used on an approved program of study.

Matriculation Start Semester

- A master's degree must be completed within six years of entering the degree program. Additional time may be requested and submitted to the Vice Provost of Graduate Studies for review.

Coursework Validity

- Coursework over eight years old at the time of degree completion may not be used for a graduate degree unless it is revalidated.

Plan Type

Plan A - The Plan A option for a master's degree requires preparation and defense of a thesis.

Required School of Graduate Studies Forms

Approval of the following academic forms are required for Plan A master's students by the School of Graduate Studies

- Supervisory Committee Approval by the end of the second semester.
- Program of Study Approval by the end of the second semester after the Supervisory Committee Approval form
- Thesis/Project Approval Form
- Appointment for examination form submitted 10 days before defense and during defense semester. Students must be registered for 3 credit hours of thesis
- Authorship and Copyright form
- Thesis/Dissertation Format and Style (F&S) and Electronic Publication Form
- Title Page
- Graduation application

Section 1

Type
Completion Requirement

Foundation Research Core (15 credits)

Complete ALL of the following Courses:

- ASTE6750 - Research Methods and Design - 3cr.
- ASTE6800 - Analysis of Social Research Data - 3cr.
  OR STAT5200 - Analysis of Designed Experiments - 3cr.
- ASTE6100 - Research and Academic Writing - 3cr.
- ASTE6970 - Research and Thesis - 1cr.

a minimum of 6 credits is required for ASTE6970 RESEARCH AND THESIS

Foundation Core (6 credits)

Complete ALL of the following Courses:

- ASTE6160 - Foundations of Adult Education - 3cr.
- ASTE6170 - Program Planning and Evaluation - 3cr.

Section 2

Type
Completion Requirement

Elective Courses (9 credits)

Select 9 credits

Fulfill ANY of the following requirements:

Suggested Electives for Extension

Complete ANY of the following Courses:

- ASTE6200 - Principles and Practices of Extension Education - 3cr.
- ASTE6220 - Volunteer Programs and Partnerships - 3cr.
- ASTE6260 - Environmental Impacts of Agricultural Systems - 3cr.
- ASTE6370 - Grant Writing and Management - 3cr.
- ASTE6920 - Communication Tools for Extension - 3cr.
- ASTE7500 - Diffusion of Innovations - 3cr.
- ASTE6900 - Graduate Independent Study in Career and Technical Education - 1cr.
- ASTE6950 - Graduate Internship - 1cr.

OR

Suggested Electives for Education

Complete ANY of the following Courses:

- ASTE6090 - Curriculum Design - 3cr.
- ASTE6150 - Evaluation and Assessment - 3cr.
- ASTE6180 - Administration and Leadership - 3cr.
- ASTE6300 - Advanced Teaching Strategies - 3cr.
- ASTE6315 - Career and Technical Student Organization Development - 3cr.
- ASTE6320 - Classroom Management, Student Motivation, and Guidance - 3cr.
- ASTE6380 - Mentoring and Supervision - 3cr.
- ASTE6460 - Integrating Career and Tech Educ Curriculum with Science, Technology, Engineering, and Mathematics - 3cr.
- ASTE6910 - Design Thinking for Career and Technical Education - 3cr.
- ASTE6900 - Graduate Independent Study in Career and Technical Education - 1cr.
- ASTE6950 - Graduate Internship - 1cr.

Program Learning Outcomes

Program Learning Outcomes

https://caas.usu.edu/aste/assessment/

Applied Geographic Information Science - Certificate

Program Overview

College
College of Agriculture & Natural Resources

Department
Environment & Society

Program Level
Undergraduate

About this Degree

Utah State University's Applied GIS certificate enables undergraduate students to approach complex natural resource issues with the experience and confidence to inform research and data-driven decision-making using database linked maps and geospatial analysis. The Applied GIS Certificate is customizable to meet students' disciplinary interests by offering a wide range of geospatial electives. In addition to foundational and advanced courses in GIS analysis utilizing the latest industry standard tools and software packages, courses include programming in R and Python, geovisualization, remote sensing, drone data collection and processing, database management, and a professional portfolio course designed to showcase geospatial proficiency and skillsets, giving students a competitive advantage when seeking job or research opportunities.

The certificate is designed to be easily completed alongside a variety of majors. Required coursework includes courses in introductory and advanced geospatial analysis and one of two programming courses.

Students choose an additional two 3- to 5-credit elective courses.

The certificate is designed to be easily completed alongside a variety of majors.

Admission Requirements for this Program

Students should make an appointment with an academic advisor in the S.J. and Jessie E. Quinney College of Agriculture and Natural Resources to add this certificate: qanr.usu.edu/advising/.

Program Requirements

Total Credits Required In Program Coursework
16

Total Credits Required To Earn This Credential
16

Simple Requisites

Program Requirements

To receive the certificate, a student must complete the following set of requirements:

- Register for and successfully complete at least 16 credits
- Maintain a minimum 3.0 GPA for program courses (grades below C- will not be accepted)
- Abide by the Code of Policies and Procedures for Students at Utah State University

Course Requirements

Type
Completion Requirement

Required GIS Core Courses

Complete ALL of the following Courses:

- GEOG2800 - Introduction to Geographic Information Sciences - 4cr.
  OR WILD2800 - Introduction to Geographic Information Sciences - 4cr.
- GEOG5500 - Advanced Geographic Information Sciences (GIS) - 3cr.
- GEOG4910 - Geographic Information Science Portfolio - 1cr.

GIS Programming Course Requirement

Complete at least 1 of the following courses:

- GEOG3700 - Python Programming for GIS - 3cr.
- GEOG5300 - Geospatial Analysis with R - 3cr.
- WILD5750 - Applied Remote Sensing - 3cr.

Elective Courses

Earn at least 5 credits from the following:

- CEE2240 - Engineering Surveying - 3cr.
- DATA5300 - Database Management - 3cr.
- GEOG3200 - Principles of Remote Sensing - 3cr.
- GEOG3700 - Python Programming for GIS - 3cr.
- GEOG3800 - Geospatial Data Visualization - 3cr.
- GEOG4900 - GIS Individual Projects - 1cr.
- GEOG4920 - GIS Internship - 1cr.
- GEOG5300 - Geospatial Analysis with R - 3cr.
- GEOG5805 - Introduction to Geospatial Artificial Intelligence: The Remote Sensing and GeoAI Frontier - 3cr.
- LAEP5400 - Advanced Geospatial Analysis and Visualization for Environmental Planning - 4cr.
- STAT1080 - Foundations of Data Science (QL) - 3cr.
- STAT5410 - Applied Spatial Statistics - 2cr.
- CEE5003 - Remote Sensing of Land Surfaces - 3cr.
  OR PSC5003 - Remote Sensing of Land Surfaces - 3cr.
- UAS3010 - Unmanned Aircraft System Introduction to Remote Pilot Certification - 3cr.
- WILD5750 - Applied Remote Sensing - 3cr.

Students may not take the same course to fulfill both elective and required courses.

Program Learning Outcomes

Program Learning Outcomes

https://qanr.usu.edu/envs/about/assessment

Agricultural Machinery Technology - AAS

Program Overview

College
College of Agriculture & Natural Resources

Department
Applied Sciences, Technology and Education

Program Level
Undergraduate

About this Degree

The Agricultural Machinery Technology - AAS degree is a second-year continuation of the Agricultural Machinery Technology certificate program. The one-year certificate coursework stacks into the associates of applied science in agricultural machinery technology. The associate degree also transitions very easily into a bachelor's program in agricultural systems technology or agricultural education.

In addition to coursework training, machinery dealerships and companies hold in-service training at USU where students can receive training and certification for repairs and operations of the latest agricultural equipment. Upon completion of these programs, employers often seek after students from USU's program, resulting in extremely high job placement.

The program is designed to deepen students preparation for a career in the agricultural equipment industry. Coursework requirements include technical hands-on training on engines, power trains, hydraulics, DC electrical, and specialized forage, harvesting, tillage, planting, and spraying equipment. Core skill development focuses on testing, diagnosis, and repair of equipment. Because it is an associate degree program, a minimum of six credits of general education courses are required.

- For more information about Agricultural Machinery Technology, see the department website.
- Agricultural Machinery Technology Academic Advisor, Allie East: allie.east@usu.edu or 435-797-2194.
- Current and admitted students must meet with an advisor.

Admission Requirements for this Program

- New freshmen: Admited to USU in Good Standing
- Transfer students from other institutions or other programs at USU: 2.0 GPA

Program Requirements

Total Credits Required In Program Coursework
63

Total Credits Required To Earn This Credential
63

Simple Requisites

Program Requirements

Log on to Degree Works to check student-specific program progress.

Major Requirements (63 credits)

Type
Completion Requirement

General Education Requirements

Complete ALL of the following Courses:

- APEC1600 - Natural Resources and American Economic Institutions (BAI) - 3cr.
- ENGL1010 - Writing as Inquiry (CL1) - 3cr.
- PSC2000 - The Atmosphere and Weather (BPS) - 3cr.
- MATH1050 - College Algebra (QL) - 4cr.

Breadth Education Requirements

Complete at least 1 course in the following course sets:

- Breadth Life Sciences (BLS) Course
- Breadth Creative Arts (BCA) Course
  OR Breadth Humanities (BHU) Course
  OR Breadth Social Sciences (BSS) Course

USU1350 INTEGRATED LIFE SCI (BLS), PHIL1320 THE GOOD LIFE (BHU) are recommended to fulfill the BLS and BHU requirements, respectively

Core Classes (28 credits)

The following 28 credits are required.

Complete ALL of the following Courses:

- ASTE1010 - Introduction to Agricultural Systems Technology - 3cr.
- ASTE1110 - Equipment Safety for Agriculture and Natural Resources - 2cr.
- ASTE1130 - Agricultural Machinery Systems: Planting, Tillage, and Harvest Technologies - 3cr.
- ASTE1610 - Agricultural and Construction Machinery Power - 4cr.
- ASTE1640 - Introduction to Welding - 3cr.
- ASTE2250 - Occupational Experience in Agriculture - 1cr.
- ASTE2930 - Individualized Projects in Agriculture Mechanics - 1cr.
- ASTE3720 - Electrical Power Systems for Agricultural Applications - 4cr.
- ASTE2100 - Personal and Team Leadership - 3cr.

A minimum of 3 credits for ASTE 2250 is required. A minimum of 3 credits for ASTE 2930 is required.

Agricultural Machinery Technology AAS Directed Electives (17 credits)

Select 17 credits from the courses below

Earn at least 17 credits from the following:

- ADVS1110 - Introduction to Animal Science (BLS) - 3cr.
- APEC2830 - Agribusiness Sales and Marketing - 3cr.
- ASTE2900 - Food Matters: Ethics, Economics, and the Environment (BSS) - 3cr.
- ASTE3030 - Metal Fabrication for Agriculture and Natural Resource Industries - 3cr.
- ASTE3050 - Technical and Professional Communication Principles (CI) - 3cr.
- ASTE3080 - Compact Power Units for Agricultural and Turfgrass Applications - 3cr.
- ASTE4100 - Agricultural Structures and Environment (QI) - 3cr.
- ASTE5260 - Environmental Impacts of Agricultural Systems (CI) - 3cr.
- BIOL1610 - Biology I - 3cr.
- CHEM1110 - General Chemistry I (BPS) - 4cr.
- ENGL2010 - Research and Argument Across Perspectives (CL2) - 3cr.
- PHYS1200 - Introduction to Physics by Hands-on Exploration (BPS) - 4cr.
- PSC2200 - Pesticide Certification - 2cr.
- PSC2620 - Woody Plant Materials: Trees and Shrubs for the Landscape - 3cr.
- PSC3000 - Fundamentals of Soil Science - 4cr.
- PSC3300 - Residential Landscapes - 3cr.
- PSC3400 - Arboriculture - 3cr.
- PSC3810 - Turfgrass Management - 3cr.

- PSC4050 - Greenhouse Management and Crop Production - 4cr.
- PSC5550 - Fundamentals of Integrated Weed Management - 4cr.
- USU1330 - Civilization: Creative Arts (BCA) - 3cr.
- WATS1200 - The Natural World and Our Place Within It (BLS) - 3cr.
- WILD4000 - Principles of Rangeland Management - 3cr.
- TEE1200 - Computer-Aided Drafting and Design - 3cr.
- GEOG2800 - Introduction to Geographic Information Sciences - 4cr.
  OR WILD2800 - Introduction to Geographic Information Sciences - 4cr.
- UAS1010 - Unmanned Aircraft Systems - Remote Pilot - 3cr.
- UAS1100 - Introduction to Unmanned Aircraft Systems - 1cr.
- UAS1020 - Unmanned Aircraft Systems Part 107 Test - 1cr.

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Associate Degrees)

Suggested Degree Maps

Degree Map Name
Suggested Degree Map: Agricultural Machinery Technology - AAS
Total Degree Map Credits
62 - 65
Degree Map Effective Catalog Year
2027 -

Degree Map Narrative

- Following is a sample two-year plan. Please note that student-specific plans may differ.
- Meet with an academic advisor to create a specific plan that best fits your academic needs.
- The student is ultimately responsible for knowing and completing all degree requirements.
- Consultation with an advisor may result in an altered plan customized for an individual student.
- Check your Degree Works for requirements and completion.

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	15	0

Requirement Select
- ASTE1010 - Introduction to Agricultural Systems Technology

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- ASTE1610 - Agricultural and Construction Machinery Power

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- ASTE1110 - Equipment Safety for Agriculture and Natural Resources

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select
- ASTE1640 - Introduction to Welding

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- APEC1600 - Natural Resources and American Economic Institutions (BAI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	15	0

Requirement Select

- ASTE1130 - Agricultural Machinery Systems: Planting, Tillage, and Harvest Technologies

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- ASTE2930 - Individualized Projects in Agriculture Mechanics

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	1 - 3
Clinical	-
Criticality	No

Requirement Select

- ENGL1010 - Writing as Inquiry (CL1)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Directed Elective (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- ASTE2100 - Personal and Team Leadership

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	17	0

Requirement Select

- ASTE3720 - Electrical Power Systems for Agricultural Applications

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- PSC2000 - The Atmosphere and Weather (BPS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Directed Elective (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Directed Elective (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- MATH1050 - College Algebra (QL)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	15 - 18	0

Requirement Select
- USU1350 - Integrated Life Science (BLS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Directed Elective (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Directed Elective (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Breadth Creative Arts (BCA) Course

OR
- Breadth Humanities (BHU) Course

OR
- Breadth Social Sciences (BSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- ASTE2250 - Occupational Experience in Agriculture

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 6
Progress Credits	-
Contact Hours	1 - 6
Clinical	-
Criticality	No

Total General Education Credits	Total Major Credits
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Program Learning Outcomes

Program Learning Outcomes

https://www.usu.edu/oda/assessment/

Agricultural Machinery Technology - Certificate

Program Overview

College
College of Agriculture & Natural Resources

Department
Applied Sciences, Technology and Education

Program Level
Undergraduate

About this Degree

The one-year certificate program is designed to familiarize students with the agricultural equipment industry. Certificate requirements include technical hands-on training on engines, power trains, hydraulics, DC electrical, and specialized forage, harvesting, tillage, planting, and spraying equipment.

- For more information about Agricultural Machinery Technology, see the department website.
- Admitted and current students must meet with an advisor.

In addition to coursework training, machinery dealerships and companies hold in-service training at USU where students can receive training and certification for repairs and operations of the latest agricultural equipment. Upon completion of these programs, employers are always seeking after students from USU's program, resulting in extremely high job placement.

Core curriculum includes equipment testing, diagnosis, and retailing of parts and equipment.

For more information, visit aste.usu.edu/agmachinery or contact the Agricultural Machinery Technology Academic Advisor, Allie East: allie.east@usu.edu or 435-797-2194.

Program Requirements

Total Credits Required In Program Coursework
-

Total Credits Required To Earn This Credential
30

Simple Requisites

Program Requirements

Students can log on to Degree Works to check student-specific program progress.

Section 1

Type
Completion Requirement

Required Courses

Occupational Experience and Individualized Project Requirements

Complete ALL of the following Courses:

- ASTE1010 - Introduction to Agricultural Systems Technology - 3cr.
- ASTE1130 - Agricultural Machinery Systems: Planting, Tillage, and Harvest Technologies - 3cr.
- ASTE1610 - Agricultural and Construction Machinery Power - 4cr.
- ASTE2250 - Occupational Experience in Agriculture - 1cr.
- ASTE3080 - Compact Power Units for Agricultural and Turfgrass Applications - 3cr.
- ASTE1110 - Equipment Safety for Agriculture and Natural Resources - 2cr.
- ASTE1640 - Introduction to Welding - 3cr.
- ASTE3720 - Electrical Power Systems for Agricultural Applications - 4cr.
- ASTE2930 - Individualized Projects in Agriculture Mechanics - 1cr.

Students completing the Agricultural Machinery Technology Certificate program must complete a minimum of 5 credits in ASTE2250 OCCUP EXP IN AG and 3 credits in ASTE2930 INDV PROJECTS IN AG MECH

Suggested Degree Maps

Degree Map Name
Suggested Degree Map - Agricultural Machinery Technology - Certificate
Total Degree Map Credits
24 - 31
Degree Map Effective Catalog Year
2027 -

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	16	0

Requirement Select

- ASTE1010 - Introduction to Agricultural Systems Technology

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- ASTE1110 - Equipment Safety for Agriculture and Natural Resources

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select

- ASTE1610 - Agricultural and Construction Machinery Power

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- ASTE1640 - Introduction to Welding

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- ASTE3720 - Electrical Power Systems for Agricultural Applications

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	8 - 15	0

Requirement Select

- ASTE1130 - Agricultural Machinery Systems: Planting, Tillage, and Harvest Technologies

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- ASTE2250 - Occupational Experience in Agriculture

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1 - 6
Progress Credits	-
Contact Hours	1 - 6
Clinical	-
Criticality	No

Requirement Select

- ASTE2930 - Individualized Projects in Agriculture Mechanics

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1 - 3
Progress Credits	-
Contact Hours	1 - 3
Clinical	-
Criticality	No

Requirement Select

- ASTE3080 - Compact Power Units for Agricultural and Turfgrass Applications

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Total General Education Credits	Total Major Credits
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Program Learning Outcomes

Program Learning Outcomes

https://caas.usu.edu/aste/assessment/

Agronomy - Minor

Program Overview

College
College of Agriculture & Natural Resources

Department
Plants, Soils and Climate

Program Level
Undergraduate

Program Requirements

Total Credits Required In Program Coursework
16

Total Credits Required To Earn This Credential
16

Simple Requisites

Program Requirements

To graduate with the Agronomy minor, a minimum GPA of 2.5 is required in minor coursework.

Agronomy Minor Requirements (16 credits)

Type
Completion Requirement

A minimum of 6 credits of Plant Science courses must be taken, including the following courses:

Complete ALL of the following Courses:

- PSC4280 - Field and Food Cropping Systems - 3cr.
- PSC4320 - Forage Production and Pasture Management - 3cr.

Select the balance of credits from the following courses:

Complete ANY of the following Courses:

- PSC2200 - Pesticide Certification - 2cr.
- PSC3000 - Fundamentals of Soil Science - 4cr.
- PSC3810 - Turfgrass Management - 3cr.
- PSC4400 - Modern Vegetable Production - 3cr.
- PSC4500 - Urban Soil Management and Reclamation - 3cr.
- PSC5130 - Soil Genesis, Morphology, and Classification - 4cr.
- PSC5270 - Environmental Plant Physiology - 2cr.
- PSC5310 - Soil Microbiology - 3cr.
- PSC5530 - Soil Health and Fertility (QI) - 3cr.
- PSC5550 - Fundamentals of Integrated Weed Management - 4cr.
- PSC5560 - Analytical Techniques for the Soil Environment - 3cr.
- PSC5670 - Environmental Soil Physics - 4cr.
- PSC5720 - Advanced Plant Breeding - 3cr.

Program Learning Outcomes

Program Learning Outcomes

https://caas.usu.edu/psc/assessment

Agricultural Science - AS

Program Overview

College
College of Agriculture & Natural Resources

Department
Technology, Design & Technical Ed

Program Level
Undergraduate

About this Degree

Students completing the Associate of Science degree are required to earn a minimum of 60 credits. Twenty credits must be earned at USU (Logan campus or USU statewide campuses). The agricultural science core will include 20 credits. The General Education requirements are the same as for other USU students earning the General Associate of Science degree.

A minimum 2.0 GPA is required for graduation.

- For more information about the Associate of Science Degree in Agricultural Science see the Department of Technology, Design and Technical Education or contact Tami Spackman, tami.spackman@usu.edu, 435-797-2282.
- Admitted and current students must meet with an advisor.
- Log on to Degree Works to check student-specific program progress.

Program Requirements

Total Credits Required In Program Coursework
60

Total Credits Required To Earn This Credential
60

Simple Requisites

Program Requirements

Agricultural Science - AS Requirements

Type
Completion Requirement

General Education Requirements

Complete ALL of the following Course Sets:

- Breadth American Institutions (BAI) Course
- Breadth Creative Arts (BCA) Course
- Breadth Humanities (BHU) Course
- Breadth Life Sciences (BLS) Course
- Breadth Physical Sciences (BPS) Course
- Breadth Social Sciences (BSS) Course
- Communications Literacy (CL1) Course
- Communications Literacy (CL2) Course
- Quantitative Literacy (QL) Course

Core Requirements

Complete the following:
Any 20 credits housed within the College of Agriculture and Natural Resources. Please meet with an advisor to review all options.

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Associate Degrees)

Suggested Degree Maps

Degree Map Name
Suggested Degree Map - Agricultural Science, AS
Total Degree Map Credits
57 - 64
Degree Map Effective Catalog Year
2027 -

Degree Map Narrative

- Following is a sample four-year plan. Please note that student-specific plans may differ.
- Meet with an academic advisor to create a specific plan that best fits your academic needs.
- The student is ultimately responsible for knowing and completing all degree requirements.
- Consultation with an advisor may result in an altered plan customized for an individual student.
- Check your Degree Works for requirements and completion.

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	15 - 16	0

Requirement Select
- ENGL1010 - Writing as Inquiry (CL1)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Quantitative Literacy (QL) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Breadth Creative Arts (BCA) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective - Any course in the College of Agriculture and Natural Resources (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective - Any course in the College of Agriculture and Natural Resources (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- QL recommendation is to take the required QL for intended bachelor's program (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	12 - 17	0

Requirement Select

- ENGL2010 - Research and Argument Across Perspectives (CL2)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Breadth Physical Sciences (BPS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	0 - 4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Breadth Social Sciences (BSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Elective - Any course in the College of Agriculture and Natural Resources (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Elective - Any course in the College of Agriculture and Natural Resources (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	15	0

Requirement Select

- Breadth American Institutions (BAI) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Breadth Humanities (BHU) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Elective - Any course in the College of Agriculture and Natural Resources (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Elective - Any course in the College of Agriculture and Natural Resources (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Elective - Any course in the College of Agriculture and Natural Resources (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	15 - 16	0

Requirement Select

- Breadth Life Sciences (BLS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Elective - Any course in the College of Agriculture and Natural Resources (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Elective - Any course in the College of Agriculture and Natural Resources (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Elective - Any course in the College of Agriculture and Natural Resources (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Elective - Any course in the College of Agriculture and Natural Resources (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	Total Major Credits
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Program Learning Outcomes

Program Learning Outcomes

https://www.usu.edu/oda/assessment/

AI Ethics - Certificate

Program Overview

College
College of Arts & Sciences

Department
History, Cultures & Ideas

Program Level
Undergraduate

About this Degree
The AI Ethics Certificate encourages students to raise hard questions about the influence of artificial intelligence in our politics, our culture, and our lives. The certificate can add value to any students' degree in technology, and also help all students think through AI-related questions that have become urgent in our lives.

Admission Requirements for this Program
Open admission

Program Requirements

Total Credits Required In Program Coursework
9

Total Credits Required To Earn This Credential
9

Simple Requisites

Program Requirements

Minimum C or better for all three courses.

AI Ethics - Certificate

Type
Completion Requirement

Required Courses (9 credits)

Complete ALL of the following Courses:

- PHIL1130 - Living in a Brave New World: Philosophy and Technology (BHU) - 3cr.
- DATA3300 - Introduction to Modern Data Analytics (QI) - 3cr.
- CAI5400 - Ethics and Emerging Technology - 3cr.
  OR PHIL5400 - Ethics and Emerging Technology (DHA) - 3cr.

Minimum University Requirements

Minimum University Requirements
Minimum University Requirements (Undergraduate Academic or Technical Certificates)

Program Learning Outcomes

Program Learning Outcomes
Students will learn how questions regarding AI connect with other moral questions, as well as how various powerful moral theories regard the challenges posed by AI. They will also gain a thorough understanding of the ways in which data is gathered and employed by AI-augmented systems. The program is housed in the Department of History, Cultures, and Ideas, but it is also supported by the Department of Data Analytics + Information Systems.

Airframe Maintenance - Technical Certificate

Program Overview

College
College of Agriculture & Natural Resources

Department
Technology, Design & Technical Ed

Program Level
Undergraduate

About this Degree
The Airframe Maintenance program equips students with the necessary skills for a career in aviation maintenance. After completing this certificate, students will meet the Federal Aviation Administration requirements to take the General and Airframe tests required to earn their FAA Airframe license.

This technical certificate will provide independent, statewide-developed certification and a stackable credential toward a two-year Associate of Applied Science in Aircraft Maintenance Technician. Credits earned in the certificate program(s) will meet requirements for existing Certificate and BS program requirements:

• AAS, Aircraft Maintenance Technician

• AAS, General Technology

• AAS, Small Business Operations

• BS, Technology Systems, Technical Management

Program Requirements

Total Credits Required In Program Coursework
37

Total Credits Required To Earn This Credential
37

Simple Requisites

Program Requirements

Airframe Maintenance Course Requirements

Type
Completion Requirement

Required Courses (37 Credits)

Complete ALL of the following Courses:

- TEMT1005 - Machining for Manufacturing Trades - 3cr.
- TEAV1000 - Technical Mathematics - 3cr.
- TEAV1010 - Circuit Analysis - 3cr.
- TEAV1020 - Circuit Analysis Lab - 2cr.
- TEAV1130 - Flight Principles - 3cr.
- TEAV1140 - Aircraft Components and Principles - 2cr.
- TEAV1170 - Aircraft Structures - 3cr.
- TEAV1240 - Aircraft Maintenance - 3cr.
- TEAV2170 - Aircraft Systems - 3cr.
- TEAV2180 - Aircraft Hydraulic and Pneumatic Systems - 3cr.
- TEAV2200 - Composite Manufacturing and Repair - 3cr.
- TEAV2420 - FAA Regulations, Records, and Certification - 2cr.
- TEAV2430 - Aircraft Electrical Systems and Components - 2cr.
- TEAV2440 - Aircraft Electrical Systems and Components Lab - 2cr.

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Undergraduate Academic or Technical Certificates)

Program Learning Outcomes

Program Learning Outcomes

- Perform aviation engine maintenance in alignment with FAA Standards.
- Prepare for FAA Licensing by fulfilling all prerequisites to sit for the Federal Aviation Administration General and Airframe licensing exams, qualifying for certification and practice in the field.
- Interpret diagnostic material for aviation maintenance and repair.
- Record maintenance logs and certify the airworthiness of aircraft.

AI and Writing - Certificate

Program Overview

College
College of Arts & Sciences

Department
English

Program Level
Undergraduate

About this Degree

The three-course certificate in AI and rhetoric offers a structured approach to help students develop both technical proficiency and critical insight into the role of AI in writing and communication. This certificate addresses an urgent need for students across disciplines to understand not only how to use AI tools but also how to analyze and critique the ways AI is represented and applied within various professional and public contexts.

Admission Requirements for this Program

Program Requirements

Total Credits Required In Program Coursework
9

Total Credits Required To Earn This Credential
9

Simple Requisites

Program Requirements

Completion of 9 credits.

AI and Writing - Certificate

Type
Completion Requirement

Core Requirements (6 credits)

Complete ALL of the following Courses:

- ENGL2160 - AI and Writing: Cultural and Historical Perspectives - 3cr.
- ENGL3160 - AI and Writing Across Disciplines (CI) - 3cr.

Electives (3 credits)

Earn at least 3 credits from the following:

- TCR2100 - Introduction to Technical Communication - 3cr.
- TCR2110 - Digital Writing Technologies - 3cr.
- ENGL3070 - Digital Folklore (DHA) - 3cr.
- ENGL3170 - Legal Writing (CI) - 3cr.
- ENGL3175 - Healthcare and Medical Writing - 3cr.
- ENGL3190 - Data Storytelling (CI) - 3cr.
- ENGL3470 - Approaches to Research (QI) - 3cr.

Program Learning Outcomes

Program Learning Outcomes

1. Career and Self-Development: Students will gain knowledge and experience with a wide range of emerging AI technologies, while also learning how to network and build relationships within and across different disciplines.
2. Communication: Students will communicate information, ideas, facts, and perspectives clearly and effectively with individuals and groups inside and outside of organizations and communities.
3. Critical Thinking: Students will think critically about the concept of AI across genres, professions, and contexts. Additionally, students will learn to identify and respond to issues based on an understanding of situational context and careful analysis of relevant information.

4. Professionalism: Students will understand and demonstrate effective work habits and act in the interests of their larger professional communities. In addition to coursework which explicitly examines professional dynamics through the study of AI, this certificate will require students to develop and complete projects in which they apply and expand on the knowledge and skills gained in the three courses.
5. Teamwork: The certificate fosters teamwork by enabling students to find connections and avenues for collaboration across different disciplinary skillsets, knowledges, and methods to establish shared understandings of how AI operates in society and develop effective strategies for using AI in the workplace.

Ancient Languages and Cultures - MA, MS

Program Overview

College
College of Arts & Sciences

Department
History, Cultures & Ideas

Program Level
Graduate

About this Degree

The MA and MS in Ancient Languages and Cultures (ALC) focus on the historical methods and ancient languages necessary to prepare students for admission to and success at doctoral programs in fields that require those skills. These fields include classics; ancient, medieval, and early modern history; religious studies; and related disciplines in literature, theology, divinity, philosophy, and art history. For students who wish to build on their undergraduate education in ancient languages and cultures, this degree offers a chance to gain access to premier universities and lay the foundation for a successful academic career.

Our classics faculty have specialties in ancient history, intellectual history and classical drama. Other faculty members participating in the program have specialties in Hinduism, Buddhism, Islam, early modern Europe, as well as African, Latin American, and environmental history. Professors work with students individually to design a course of study tailored to the students' needs.

This is an in-person, terminal Master's program normally conducted over the course of two years. Options for part-time students are also available. For more information on the program and admission requirements, visit https://www.usu.edu/degrees-majors/ancient-languages-and-cultures_ms_ma.

Admission Requirements for this Program

https://www.usu.edu/degrees-majors/ancient-languages-and-cultures_ms_ma

Program Requirements

Total Credits Required In Program Coursework
30

Total Credits Required To Earn This Credential
30

Simple Requisites

Program Requirements

To receive a Master's degree in Ancient Languages and Cultures, students must demonstrate reading competency by successfully completing six or more credits of graduate coursework in Latin, Greek, or another approved historical language.

Additional Requirements

- A bachelor's degree from an accredited U.S. college or university or a similarly recognized international university is required for admission to and completion of a graduate program.
- Graduate students are required to maintain at least a 3.0 GPA for degree-program courses. Grades of B- or lower will not be accepted for a graduate degree.
- The Program of Study for a master's degree must include at least 15 semester credits at the level of 6000 or above.
- Credits in the following areas are not acceptable in a degree program: foreign languages (unless included in an approved Program of Study), continuing graduate advisement, individual home study, military science, and courses numbered below 5000. Students are not allowed more than 12 credits of coursework at the 5000 level.

- The ALC MA/MS degree must be completed within six years of entering the degree program. Additional time may be requested by the student's committee and submitted to the Vice Provost of Graduate Studies for review.
- Coursework over eight years old at the time of degree completion may not be used for a graduate degree unless it is revalidated.
- At least 24-semester credits for the ALC MA/MS degree must be from a committee-approved and a School of Graduate Studies-approved Program of Study from Utah State University.
- Successful defense and submission of the thesis or dissertation to the library.
- Approval of academic forms required for master's students by the School of Graduate Studies:

  o Supervisory Committee Approval Form
  o Program of Study

  o Responsible Conduct of Research training, a brief online training on ethical conduct in research that the university requires
  o Thesis Proposal Defense/Approval
  o Appointment for Examination
  o Record of Examination
  o Successful defense and submission of the thesis to the library.
  o Other forms may be required; for details refer to the Graduate Student Handbook.

Plan A Thesis

Type
Completion Requirement

Coursework

The Plan A option for a master's degree requires the preparation and defense of a thesis. The program consists of 30 semester credits beyond the bachelor's degree. Students are required to take the following courses:

Fulfill ALL of the following requirements:

Required HIST Courses (9 credits)

Complete ALL of the following Courses:

- HIST6000 - Historical Methods and Research - 3cr.
- HIST6970 - Thesis Research - 1cr.

NOTE:

1. HIST6970 THESIS RESEARCH (6 credits required)

AND

Required Theory/Methods Course

Complete at least 1 of the following courses:

- HIST6010 - History and Theory - 3cr.
- HIST6020 - Public History - 3cr.
- HIST6030 - Research Seminar - 3cr.
- HIST6420 - Special Topics in Religious History - 3cr.

AND

Electives in History (HIST) or Ancient Languages and Cultures (ALC)

Complete the following:
The remainder (18 credits) of the 30 credits may be taken as electives in History (HIST) or Ancient Languages and Cultures (ALC). Students may complete one course relevant to the degree outside the department. Students may apply a maximum of 4 internship credits earned toward the total credits required for the program. No more than 3 credits of HIST6900 DIRECTED STUDIES Directed Studies may be applied to the degree.

Additional Comments:

Additional Information

Upon arrival at USU, students are urged to meet with the departmental graduate advisor, who will direct them to one or more faculty members with similar interests. Through consultations with the graduate and faculty advisor, the first-year student will form a thesis committee and formulate a course of study. By the end of the first year, students will have submitted to their committees a proposal for the thesis, which they will write under the close supervision of the committee members. The oral defense usually takes place in the spring semester of the second year.

Program Learning Outcomes

Program Learning Outcomes

https://artsci.usu.edu/history-cultures-ideas/history/assessments

American Studies - Minor

Program Overview

College
College of Arts & Sciences

Department
English

Program Level
Undergraduate

Program Requirements

Total Credits Required In Program Coursework
12

Total Credits Required To Earn This Credential
12

Simple Requisites

Program Requirements

American Studies minors must meet and maintain a 2.5 GPA admissions and graduation standard. Courses counted toward the student's major cannot double count toward the American Studies - Minor

Required Courses

Type
Completion Requirement

A. Required Core Courses (3 credits)

Complete ALL of the following Courses:

- ENGL2640 - Race and Ethnicity in the United States (BHU) - 3cr.

B. Disciplinary Area Exploration Courses (6 credits)

Type
Completion Requirement

Disciplinary Area Exploration Courses (6 credits)

Earn at least 6 credits
Students must take **one** course from **two** of the following disciplinary areas **(2 courses total)**:

- American History and Government
- American Literature and Folklore
- American Social Sciences
- American Environmental Studies
- American Art, Media, and Communication Studies

NOTE:
Some classes listed do not specifically note American content in the class title and the content must be approved by the program advisor for the class to be used toward the requirements. Please see advisor for courses that fall under this category.

American History and Government

Complete ANY of the following Courses:

- HIST2700 - United States to 1877 (BAI) - 3cr.
- HIST2710 - United States 1877-Present (BAI) - 3cr.
- HIST2730 - Writing about Indigenous Histories and Cultures (CL2) - 3cr.
- HIST3615 - Latinx History - 3cr.
- HIST3620 - History of Colonial Latin America (DHA) - 3cr.
- HIST3630 - History of Modern Latin America - 3cr.
- HIST3650 - Caribbean History - 3cr. (Inactive)
- HIST3660 - History of Mexico (DHA) - 3cr.
- HIST3670 - Slavery in the Atlantic World (CI) - 3cr.
- HIST3720 - Colonial America - 3cr.
- HIST3730 - American Revolutionary Era - 3cr.
- HIST3740 - Young Empire: United States, 1790s to 1840s - 3cr.
- HIST3750 - Civil War and Reconstruction - 3cr.
- HIST3751 - Trials of Gilded Age America 1877-1900 (DHA/CI) - 3cr.
- HIST3760 - The United States, 1900-1945 (DHA/CI) - 3cr.
- HIST3770 - Contemporary America: World War II to the Cold War - 3cr.
- HIST3840 - The Modern American West (DHA) - 3cr.
- HIST3850 - History of Utah (DHA/CI) - 3cr.
- HIST3910 - Health, Disease, and Medicine in North America (DHA) - 3cr.
- HIST4310 - History of Nationalism - 3cr.
- HIST4510 - American Metropolis: Cities and Suburbs in United States History (DHA) - 3cr.
- HIST4550 - Women and Gender in America (DHA/CI) - 3cr.
- HIST4600 - The History of the American West (DHA/CI) - 3cr.
- HIST4630 - History of the Southwest Borderlands (DHA) - 3cr.
- HIST4640 - Studies in the American West (CI) - 3cr.
- HIST4650 - Women and Gender in the US West - 3cr.
- HIST4660 - Work and Migration in North American History (DHA) - 3cr.
- HIST4710 - American Indian History - 3cr.
- HIST4711 - Northern Ute History (DHA) - 3cr.
- HIST4720 - The Civil Rights Movement (DHA/CI) - 3cr.
- HIST4730 - History of Black America (CI) - 3cr.
- HIST4760 - America in the 1960s (DHA) - 3cr.
- HIST4790 - American Religious History - 3cr.
- HIST4810 - American Military History - 3cr.
- POLS3120 - Law and Politics (DSS) - 3cr.
- POLS3130 - United States Legislative Politics (DSS) - 3cr.
- POLS3135 - Public Opinion and American Democracy (CI) - 3cr.
- POLS3140 - The Presidency (DSS) - 3cr.
- POLS3145 - Political Identities - 3cr.
- POLS3150 - State and Local Government - 3cr.
- POLS3155 - Political Psychology - 3cr.
- POLS3180 - Introduction to Public Administration - 3cr.
- POLS3270 - Latin American Government and Politics (DSS) - 3cr.
- POLS3310 - American Political Thought (DSS) - 3cr.
- POLS3320 - The Foundations of American Constitutionalism - 3cr.
- POLS3400 - United States Foreign Policy (DSS) - 3cr.
- POLS3700 - Terrorism and Counterterrorism - 3cr.
- POLS3810 - Introduction to Public Policy (DSS) - 3cr.
- POLS4120 - American Constitutional Law - 3cr.
- POLS4130 - Constitutional Theory - 3cr.
- POLS4140 - Political Organizations - 3cr.
- POLS4150 - The Supreme Court and the Shaping of America - 3cr.
- POLS4160 - The First Amendment - 3cr.
- POLS4280 - Peacebuilding After War - 3cr.
- POLS4450 - United States and Latin America (CI) - 3cr.
- POLS4800 - Constitutional Design - 3cr.
- POLS5100 - Politics and Public Policy - 3cr.
- POLS5140 - Law, Politics, and War - 3cr.
- POLS5270 - Latin American Politics and Development - 3cr.

- PORT3570 - Brazilian Culture and Civilization (DHA) - 3cr.
- PORT4000 - Contemporary Issues in Brazil - 3cr.
- PORT4100 - Trends in Lusophone Cultures - 3cr.
- SPAN3560 - Introduction to U.S. Latino/a Culture - 3cr.
- SPAN3570 - Hispanic American Culture and Civilization (DHA) - 3cr.

American Literature and Folklore

Complete ANY of the following Courses:

- ENGL2050 - Literature by Women (BHU) - 3cr.
- ENGL2720 - Survey of American Folklore - 3cr.
- ENGL3070 - Digital Folklore (DHA) - 3cr.
- ENGL3355 - Literary History of the Early Americas - 3cr.
- ENGL3365 - Nineteenth-Century American Literary History - 3cr.
- ENGL3375 - Literary History of the Americas Since 1900 - 3cr.
- ENGL3610 - Multicultural American Literature - 3cr.
- ENGL3620 - Native American Studies - 3cr.
- ENGL3630 - The Farm in Literature and Culture (CI/DHA) - 3cr.
- ENGL3700 - Regional Folklore (DHA) - 3cr.
  OR HIST3700 - Regional Folklore (DHA) - 3cr.
- ENGL3710 - Topics in Folklore (CI) - 3cr.
  OR HIST3710 - Topics in Folklore (CI) - 3cr.
- ENGL4310 - American Writers - 3cr.
- ENGL4340 - Studies in Fiction - 3cr.
- ENGL4345 - Studies in Nonfiction - 3cr.
- ENGL4350 - Studies in Poetry - 3cr.
- ENGL4360 - Studies in Drama - 3cr.
- ENGL4365 - Studies in Film - 3cr.
- ENGL4370 - Native American Literature - 3cr.
- ENGL4375 - U.S. Latinx Literature - 3cr.
- ENGL4380 - African American Literature - 3cr.
- ENGL4390 - Contemporary Literature (CI) - 3cr.
- ENGL4610 - Western American Literature (CI/DHA) - 3cr.
- ENGL4630 - Environmental Justice Literature - 3cr.
- ENGL4700 - Folk Material Culture (DHA) - 3cr.
  OR HIST4700 - Folk Material Culture (DHA) - 3cr.
- ENGL4750 - Advanced Folklore Workshop: Fife Conference - 3cr.
- ENGL5300 - Special Topics in Literature (CI) - 3cr.
- ENGL5320 - Gender and Sexuality in Literature (CI) - 3cr.
- ENGL5330 - Race and Ethnicity in Literature (CI) - 3cr.
- ENGL5340 - Multimedia Literature (CI) - 3cr.
- ENGL5700 - Folk Narrative - 3cr.
- PORT3630 - Literatures of the Portuguese-Speaking World (DHA) - 3cr.
- PORT3700 - Contemporary Brazilian Cinema - 3cr.
- SPAN3300 - Introduction to Hispanic Literature and Literary Analysis - 3cr.
- SPAN3560 - Introduction to U.S. Latino/a Culture - 3cr.
- SPAN3570 - Hispanic American Culture and Civilization (DHA) - 3cr.
- SPAN3620 - Survey of Hispanic American Literature I (DHA) - 3cr.
- SPAN3630 - Survey of Hispanic American Literature II (DHA) - 3cr.
- SPAN3640 - Introduction to U.S. Latino/a Literature - 3cr.
- SPAN3660 - Hispanic American Literature - Study Abroad - 1cr.
- SPAN4910 - Topics of Hispanic American Cultural Production - 3cr.
- SPAN4930 - Topics of U.S. Latina/o Literature and Culture - 3cr.

American Social Sciences

Complete ANY of the following Courses:

- ANTH3110 - North American Indian Cultures (DSS) - 3cr.
- ANTH3130 - Peoples of Latin America (CI) - 3cr.
- ANTH3140 - Anthropology of Sex and Gender (DSS) - 3cr.
- ANTH3160 - Anthropology of Religion (DSS) - 3cr.
- ANTH3200 - Perspectives on Race (DSS/CI) - 3cr.
- ANTH3300 - Archaeology in North America (DSS) - 3cr.
- ANTH3310 - Introduction to Museum Studies (CI) - 3cr.
- ANTH3350 - Archaeology of Ancient Civilizations (DSS) - 3cr.
- ANTH3360 - Utah Archaeology (DSS) - 3cr.
- ANTH5110 - Southwest Indian Cultures, Past and Present (DSS) - 3cr.
- CJ1010 - Introduction to Criminal Justice (BSS) - 3cr.
- CJ1330 - Criminal Law - 3cr.
- CJ1900 - Introduction to the Criminal Justice System - 0.5cr. (Inactive)
- CJ3320 - Criminal Procedure - 3cr.
- CJ4200 - Criminal Justice Ethics - 3cr.
- SOC2370 - Sociology of Gender (BSS) - 3cr.
- SOC3010 - Social Inequality (DSS) - 3cr.
- SOC3200 - Population and Society (DSS) - 3cr.
- SOC3320 - Work, Inequality and the American Dream (DSS) - 3cr.
- SOC3330 - Medical Sociology (DSS) - 3cr.
- SOC3340 - Activism, Protest, and Social Movements (DSS) - 3cr.
- SOC3410 - Juvenile Delinquency - 3cr.
- SOC3420 - Criminology - 3cr.
- SOC3430 - Social Deviance (DSS) - 3cr.
- SOC3500 - Social Psychology - 3cr.
- SOC3520 - Sociology of Mental Illness - 3cr.
- SOC3600 - Finding Community in Today's Society (DSS) - 3cr.
- SOC3610 - Rural People and Places (DSS) - 3cr.
- SOC3750 - Sociology of Aging (DSS) - 3cr.
- SOC4010 - Sociological Theory: Insights from Classical and Contemporary Perspectives (DSS) - 3cr.
- SOC4350 - People, Power, and the Political - 3cr.
- SOC4410 - Race and Crime (CI) - 3cr.
- SOC4420 - Law and Society (CI) - 3cr.
- SW1010 - Introduction to Social Welfare (BSS) - 3cr.
- SW2100 - Human Behavior in the Social Environment - 3cr.
- SW2400 - Social Work with Diverse Populations - 3cr.
- SW3350 - Child Welfare - 3cr.
- SW3360 - Adolescents: Theories, Problems, and Issues - 3cr.
- SW3450 - School Social Work - 3cr.
- SW5525 - Aging in the 21st Century - 3cr.
- SW3650 - Mental Health - 3cr.
- SW5530 - Social Work and Community Health - 3cr.
- SW3850 - Spirituality and Social Work - 3cr.

American Environmental Studies

Complete ANY of the following Courses:

- CMST4260 - Environmental Communication - 3cr.
- ENVS2340 - Environment, Natural Resources, and Society (BSS) - 3cr.
- ENVS3010 - Natural Resource and Environmental Policy - 3cr.
- ENVS3300 - Fundamentals of Natural Resource Recreation Management - 3cr.
- ENVS3320 - Archaeology of Climate Change (DSS) - 3cr.
- ENVS3600 - Living with Wildlife (DSC) - 3cr.

- ENVS4000 - Human Dimensions of Natural Resource Management (DSS) - 3cr.
- ENVS4020 - Foundations of Environmental Thought (DHA/CI) - 3cr.
- ENVS4030 - Building Community Environmental Resilience - 3cr.
- ENVS4110 - Human Dimensions of Wildlife Management - 3cr. (Inactive)
- ENVS4130 - Natural Resource Recreation Policy and Planning - 3cr.
- ENVS4500 - Advanced Natural Resource Recreation Management (CI) - 3cr.
- ENVS4610 - Foundations of Environmental Education - 3cr. (Inactive)
- ENVS4700 - Communicating Sustainability (CI) - 3cr.
- ENVS5000 - Environmental Nonprofit and Volunteer Management - 3cr.
- ENVS5350 - Ecological Economics - 3cr.
- ENVS5550 - Sustainability: Concepts and Measurement - 3cr.
- ENVS5600 - Natural Resource Interpretation - 3cr.
- GEOG4210 - Geography of Utah - 3cr.
- HIST3950 - Environmental History (DHA/CI) - 3cr.
- POLS4820 - Natural Resources and Environmental Policy: Political Economy of Environmental Quality (DSS) - 3cr.
- SOC3310 - Environmental Justice - 3cr.
- SOC4620 - Sociology of the Environment and Natural Resources (DSS) - 3cr.

American Arts, Media and Communication Studies

Complete ANY of the following Courses:

- ARTH3270 - Native North American Art (CI) - 3cr.
- ARTH3320 - Pre-Columbian Art (CI) - 3cr.
- ARTH3760 - American Art and Visual Culture (CI) - 3cr.
- ARTH3820 - The History of Photography - 3cr.
- ARTH3840 - Race and Visual Culture (CI) - 3cr.
- ARTH4710 - Feminist Theory and Practice in the Visual Arts (CI) - 3cr.
- ARTH4725 - Contemporary Land, Earth, and Eco Art (CI) - 3cr.
- ARTH4790 - Art History Seminar and Special Problems - 1cr.
- CMST3270 - Culture and Public Discourse (DHA) - 3cr.
- CMST3280 - Organizations and Social Change - 3cr.
- CMST3330 - Intercultural Communication (DSS) - 3cr.
- CMST4200 - Language, Thought, and Action (CI/DSS) - 3cr.
- CMST4270 - Communication, Culture, and Power - 3cr.
- CMST4330 - Advanced Perspectives in Global Communication (CI) - 3cr.
- CMST5000 - Studies in Communication Studies - 1cr.
- FILM1010 - Foundations in Film Studies - 3cr.
- FILM3300 - The African American Cinematic Experience (CI) - 3cr.
- FILM3320 - American Apocalypse: Disaster and Dystopia in Hollywood Film (CI) - 3cr.
- FILM3330 - The Documentary (CI) - 3cr.
- FILM3360 - Bad Cinema - 3cr.
- FILM3370 - Film Genres (CI) - 3cr.
- JCOM1500 - Introduction to Mass Communication (BSS) - 3cr.
- JCOM2010 - Media Literacy (BSS) - 3cr.
- JCOM2300 - Introduction to Public Relations - 3cr.
- JCOM2400 - Introduction to Social Media - 3cr.
- JCOM3100 - Reporting Public Affairs (CI) - 3cr.
- JCOM3410 - Film as Cultural Communication (DSS) - 3cr.
- JCOM4010 - Mass Communication Ethics (DSS) - 3cr.
- JCOM4020 - Mass Media and Society (DSS) - 3cr.
- JCOM4030 - Mass Media Law (DSS) - 3cr.
- JCOM5420 - The Mass Media and Politics - 3cr.
- MUSC3020 - History of Jazz (DHA) - 3cr.
- MUSC3030 - Rock and Roll-Catalyst for Social Change (DSS) - 3cr.
- PORT3400 - Popular Music in the Portuguese-Speaking World - 3cr.
- PORT4200 - Brazilian Media in Global Context - 3cr.

C. Upper-Division Focus Requirements (6 credits)

Type

Completion Requirement

Upper-Division Focus Requirements (6 credits)

Students must choose two additional courses from any of the disciplinary areas listed above, with strong encouragement to focus these courses in a single disciplinary area. Any of the courses listed above can satisfy this requirement as long as they are at the 3000 level or higher.

Double-counting: Courses cannot be double-counted within the minor. For instance, a student may use ENGL3700 REGIONAL FOLKLORE (DHA)/HIST3700 REGIONAL FOLKLORE (DHA) (Regional Folklore) to count for their "American Literature and Folklore" category requirement, but they cannot also use it to count towards their requirement for two upper-division courses.

Students also have the option of choosing from the following additional courses:

Complete ANY of the following Courses:

- ENGL3020 - Perspectives in Linguistics (DHA) - 3cr.
- ENGL3420 - Fiction Writing - 3cr.
- ENGL3430 - Poetry Writing - 3cr.
- ENGL3440 - Creative Nonfiction Writing - 3cr.
- PHIL2400 - Ethics (BHU) - 3cr.
- PHIL3500 - Healthcare Ethics (DHA) - 3cr.
- PHIL3520 - Business Ethics (DHA) - 3cr.
- ENGL3530 - Children's Literature - 3cr.
- PHIL3550 - Philosophy in the Public Square - 3cr.
- PHIL3580 - Ethics and Economic Life (DHA) - 3cr.
- PHIL3600 - Philosophy of Religion (DHA) - 3cr.
- PHIL3820 - Theories of Sex and Gender (DHA) - 3cr.
- PHIL3990 - Philosophy and Pop Culture (DHA) - 3cr.
- PHIL4310 - Philosophy of Science (DHA) - 3cr.
- PHIL4600 - Philosophy of Law - 3cr.
- PHIL4900 - Philosophy Seminar - 3cr.
- RELS1010 - Introduction to Religious Studies (BHU) - 3cr.
- RELS3010 - Introduction to Buddhism (DHA) - 3cr.
- RELS3020 - Introduction to Hinduism (DHA) - 3cr.
- RELS3030 - Introduction to Islam (DHA) - 3cr.
- RELS3050 - Introduction to Christianity (DHA) - 3cr.
- RELS3060 - Introduction to Judaism (DHA) - 3cr.
- RELS3080 - Mormonism and the American Religious Experience (DHA) - 3cr.
- RELS4790 - American Religious History - 3cr.
- RELS4910 - Special Topics in Religious Studies - 1cr.
- TCR3100 - Workplace Research - 3cr.
- TCR3220 - Technical Editing (CI) - 3cr.
- TCR4220 - Technology and Activism - 3cr.

Program Learning Outcomes

Program Learning Outcomes
https://www.usu.edu/oda/assessment/

Aircraft Maintenance Technician - Airframe & Powerplant - AAS

Program Overview

College
College of Agriculture & Natural Resources

Department
Aviation Technology

Program Level
Undergraduate

About this Degree
This two-year technical program, leading to an Associate of Applied Science (AAS) degree, emphasizes aircraft repair and maintenance. FAA regulations require students to earn a 70% or higher score to pass each course.

In addition, students must complete General Education requirements for the AAS degree. Federal Aviation Administration airframe and powerplant certification is available without General Education requirements.

- For more information about Aircraft Maintenance Technician - Airframe & Powerplant, see the department website.
- Current and admitted students must meet with an advisor.
- Log on to Degree Works to check student-specific program progress.

Admission Requirements for this Program
- New freshmen must be admitted to USU in Good Standing.
- Transfer students from other institutions or other programs at USU must have a 2.0 GPA.

Program Requirements

Total Credits Required In Program Coursework
63

Total Credits Required To Earn This Credential
63

Simple Requisites

Program Requirements

A minimum grade of C- and a 2.5 GPA is required in coursework taken to fulfill major requirements.

Major Requirements (63 credits)

Type
Completion Requirement

Required Courses

Complete ALL of the following Courses:
- AV1130 - Flight Principles - 3cr.
- AV1140 - Aircraft Components and Principles - 3cr.
- AV1150 - Aircraft Components and Principles II - 3cr.
- AV1170 - Aircraft Structures - 3cr.
- AV1240 - Aircraft Maintenance - 3cr.
- AV2100 - Aircraft Reciprocating Powerplants and Accessories - 3cr.
- AV2110 - Aircraft Reciprocating Powerplants and Accessories Lab - 3cr.
- AV2140 - Aircraft Turbine Powerplants and Maintenance Operations - 3cr.
- AV2150 - Aircraft Turbine Powerplant Maintenance Operations Lab - 3cr.
- AV2170 - Aircraft Systems - 2cr.
- AV2180 - Aircraft Hydraulic and Pneumatic Systems - 2cr.

- AV2190 - Aircraft Systems Lab - 1cr.
- AV2200 - Aircraft Hydraulics and Pneumatics Systems Lab - 1cr.
- AV2430 - Aircraft Electrical Systems and Components - 2cr.
- AV2440 - Aircraft Electrical Systems Laboratory - 2cr.
- AV3420 - FAA Regulations, Records, and Certification - 2cr.
- AV4200 - Composite Manufacturing Processes and Repair - 3cr.
- ENGL1010 - Writing as Inquiry (CL1) - 3cr.
- ENGL2020 - Professional Communication (CL2) - 3cr.
  OR ENGL2010 - Research and Argument Across Perspectives (CL2) - 3cr.
- STAT1045 - Introduction to Statistics with Elements with Algebra (QL) - 5cr.
- TEE2300 - Electronic Fundamentals (QI) - 3cr.
  OR AV2300 - Fundamentals of Electricity and Aircraft Electronics - 4cr.

- ***plus 2 additional elective credits***

Any QL course can be taken in place of STAT1045 INTRO STAT WITH ALGEBRA (QL)

Please ensure all other General Education courses are fulfilled

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Associate Degrees)

Suggested Degree Maps

Degree Map Name
A&P Program Course Schedule
Total Degree Map Credits
63 - 66
Degree Map Effective Catalog Year
2027 -

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	17	0

Requirement Select
- AV1130 - Flight Principles

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- AV1140 - Aircraft Components and Principles

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- AV1170 - Aircraft Structures

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- ENGL1010 - Writing as Inquiry (CL1)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Quantitative Literacy (QL) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Elective Course (2 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	15 - 16	0

Requirement Select

- AV1150 - Aircraft Components and Principles II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- AV1240 - Aircraft Maintenance

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- AV2170 - Aircraft Systems

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select

- AV2190 - Aircraft Systems Lab

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- ENGL2020 - Professional Communication (CL2)
  OR
- ENGL2010 - Research and Argument Across Perspectives (CL2)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- TEE2300 - Electronic Fundamentals (QI)
  OR
- AV2300 - Fundamentals of Electricity and Aircraft Electronics

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 4
Progress Credits	-
Contact Hours	3 - 4
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	15 - 16	0

Requirement Select

- AV2100 - Aircraft Reciprocating Powerplants and Accessories

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- AV2110 - Aircraft Reciprocating Powerplants and Accessories Lab

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- AV2180 - Aircraft Hydraulic and Pneumatic Systems

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select

- AV2200 - Aircraft Hydraulics and Pneumatics Systems Lab

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- AV4200 - Composite Manufacturing Processes and Repair

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Breadth Physical Sciences (BPS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	16 - 17	0

Requirement Select

- AV2140 - Aircraft Turbine Powerplants and Maintenance Operations

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- AV2150 - Aircraft Turbine Powerplant Maintenance Operations Lab

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- AV2430 - Aircraft Electrical Systems and Components

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select
- AV2440 - Aircraft Electrical Systems Laboratory

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select
- AV3420 - FAA Regulations, Records, and Certification

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select
- Breadth Creative Arts (BCA) Course
  OR
- Breadth Humanities (BHU) Course
  OR
- Breadth Social Sciences (BSS) Course
  OR
- Breadth Life Sciences (BLS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective Course (1 credit) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	Total Major Credits
0	0
Total Minor Credits	**Total Elective Credits**

0	0

Program Learning Outcomes

Program Learning Outcomes
https://www.usu.edu/oda/assessment/

Animal Biotechnology - Minor

Program Overview

College	Department	Program Level
College of Agriculture & Natural Resources	Animal, Dairy & Veterinary Sciences	Undergraduate

About this Degree
The Animal Biotechnology Minor at Utah State University provides students with knowledge and training in areas that are important for careers in the life science industry. This minor provides basic knowledge and hands-on learning of critical biotechnology techniques and procedures.

Admission Requirements for this Program
Students must maintain a 2.5 GPA in ADVS courses. Transfer students must have a minimum of one 3-credit upper-division course in residency with the approval of the ADVS academic advisor.

Program Requirements

Total Credits Required To Earn This Credential
15

Simple Requisites

Program Requirements

The following is a listing of courses for the minor emphasis are. A specific course may not be used to fulfill the requirements of more than one ADVS minor.

A minimum grade of *C* is required in all courses applied toward this minor.

Section 1

Type
Completion Requirement

Requirements

Complete ALL of the following Courses:
- ADVS3200 - Ethical Issues in Genetic Engineering and Biotechnology (DSC) - 3cr. (Inactive)
- ADVS5160 - Methods in Biotechnology: Cell Culture - 3cr. (Inactive)
- ADVS5260 - Methods in Biotechnology: Molecular Cloning - 3cr. (Inactive)
- ADVS5280 - Animal Molecular Biology - 3cr. (Inactive)
- ADVS5650 - Science Communication - 3cr.

Program Learning Outcomes

Program Learning Outcomes
https://caas.usu.edu/advs/assessment/

Anthropology and Cultural Resource Management - PhD

Program Overview

College
College of Arts & Sciences

Department
School of Social Sciences

Program Level
Graduate

About this Degree

The PhD program in Anthropology and Cultural Resource Management trains a new generation of scholars to engage with and manage cultural resources and their derivative data in a time of rapidly changing political and biophysical environments. The program design meets the logistical, intellectual, and economic needs of 21st-century students by providing access to a blended post-graduate education built around skill-based certifications and the advanced degrees required by academia and for professional practice in government and private-sector cultural resource management (CRM).

Students who complete a doctoral program in Anthropology and Cultural Resource Management will have the skills necessary to identify, interpret, and conserve cultural resources; analyze the interplay between humans and their environment; and communicate the importance of cultural resources and long-term population data to various stakeholders. The program leverages USU faculty strengths in social-ecological and evolutionary theory, data analytics, cultural resource management, and museum studies to create student-centered outcomes focused on transferable skills and competencies in theory, data analytics, and communication.

Contacts

Graduate Program Directors: Dr. Judson Finley and Dr. Jacob Freeman
Graduate Program Coordinator: Megan Sills

Admission Requirements for this Program

The PhD program in Anthropology admits students in Fall semesters only, with an application deadline of December 20 of the previous year. Admission requirements include:

- Official transcripts from all previous higher educational institutions attended. A bachelor's degree in an accredited U.S. college or university or a similarly recognized international university is required for admission to the PhD program, and a master's degree is preferred.
- A degree in anthropology is not required but preference is given to students who demonstrate a background in anthropology or another social science.
- Three letters of recommendation from individuals familiar with the applicant's accomplishments and potential for success in graduate school.
- An example of the applicant's written work.
- A statement of purpose (1-2 pages)
- A CV or resume
- Completion of Archaeological Field School (this may be indicated in Resume/CV)
- GRE scores may be provided but are not required
- International students must provide TOEFL or IELTS scores as proof of English proficiency

For additional information on admissions, please visit the School of Graduate Studies https://gradschool.usu.edu/admissions/

Program Requirements

Total Credits Required In Program Coursework
68-72

Total Credits Required To Earn This Credential
68-72

Simple Requisites

Program Requirements

SCHOOL OF GRADUATE STUDIES REQUIREMENTS

Degree Verification: A bachelor's and/or master's degree from an accredited U. S. college or university or a similarly recognized international university is required for admission to and completion of the PhD in Sociology.

Course Number Acceptability: All courses applied to a graduate degree should be 6000-level or higher, but the sociology program will accept up to 6 credits of 5000-level courses.

Overall Graduate GPA at least 3.0 and no grades of C- or lower: All PhD coursework must be completed with a grade of B or higher. Graduate students are required to maintain at least a 3.0 GPA for degree-program courses. Grades of C- or lower will not be accepted for a graduate degree. Exceptions for grades below a B can be offered for a maximum of 6 credits, at the discretion of the supervisory committee.

Matriculation Start Semester: A doctoral degree must be completed within eight years of entering the degree program. Additional time may be requested by the student's committee and submitted to the Vice Provost for Graduate Studies for review.

Coursework Validity: Coursework over eight years old at the time of degree completion may not be used for a graduate degree unless it is revalidated by the School of Graduate Studies.

Transfer Credits: We generally do not accept courses transferred from other graduate programs to count towards required credits in the PhD program. However, with approval of the supervisory committee and graduate program director, a maximum of 6 transfer credits may be accepted.

Dissertation Research Credits 6970: Students entering with a master's degree must complete a minimum of 12 credits of Dissertation Research. Students entering with a bachelor's degree must complete a minimum of 18 credits of Dissertation Research. A maximum of 21 Dissertation Research credits may be applied to the PhD.

Academic Forms: Completion of the PhD requires the approval of the following forms by the School of Graduate Studies:

- Supervisory Committee
- Program of Study
- Application for Candidacy
- Appointment for Examination
- Authorship & Copyright
- Format and Style
- Title Page
- Graduation Application

Additionally, all PhD degree students must complete Responsible Conduct of Research training prior to forming their supervisory committees.

PHD IN ANTHROPOLOGY REQUIREMENTS

All PhD students, regardless of track, will complete written comprehensive examinations, successfully defend a dissertation proposal, and defend and complete a PhD dissertation.

The PhD program has two separate tracks:

1. For students who hold a master's degree from an accredited U.S. college or university or a similarly recognized international university.
2. For students who hold a bachelor's degree but no master's at the time of admission.

The separate tracks include customizable curricular pathways made up of a Traditional required core or Certificate-Based required cores. Students may select the pathway (Traditional or Certificate-based) and tailor elective coursework in a manner that best suits their research interests. Pathway selection and elective coursework must approved by the supervisory committee and added to a Program of Study.

Section 1: Requirements for Students Entering With a Master's Degree

Type
Completion Requirement

Requirements (68-72)

Earn at least 68 credits
PhD students who have already earned a master's degree in Anthropology or a closely related field are required to earn a minimum 33 credits from USU to complete their doctoral degree (30 credits if the student received their MS in Anthropology from USU).

Students can follow one of several tracks as they earn a PhD. These include a traditional PhD consisting of a suite of core and elective courses, or a student can combine two certificates with a set of core courses. Students can also base their degrees on a single certificate, but in such cases, will need to choose an additional six elective courses to round out their degree. Regardless of the format, a Doctoral degree consists of 68-72 credit hours of coursework, comprehensive exams, internship, and dissertation. A minimum of 12 dissertation credits is required if the student has a master's degree and a minimum of 18 dissertation credits is required if the student is entering the program with only a bachelor's degree. The semesters during which a student registers for dissertation credit should correspond as closely as possible to the semesters in which the dissertation work is done and faculty supervision is provided.

Credits in the following areas are not acceptable in a degree program: foreign languages (unless included in an approved Program of Study), continuing graduate advisement, individual home study, military science, and courses numbered below 6000.

1. Traditional Track

Fulfill ALL of the following requirements:

Required Core Courses

Complete ALL of the following Courses:

- ANTH6200 - Anthropological Perspectives on Conservation - 3cr.
- ANTH6340 - Archaeology of the Desert West - 3cr.
- ANTH6350 - Archaeological Theory - 3cr.
- ANTH6390 - Cultural Resources Management Policy - 3cr.
- ANTH6410 - Writing for Archaeologists - 3cr.
- ANTH6700 - Archaeology Internship - 2cr.

AND

Methods Electives (27 credits)

Earn at least 27 credits from the following:

- ANTH6250 - Problems in Bioarchaeology - 3cr.
- ANTH6320 - Zooarchaeology - 3cr.
- ANTH6330 - Geoarchaeology - 3cr.
- ANTH6370 - GIS in Archaeology - 3cr.
- ANTH6400 - Collections Management - 1cr.
- ANTH6420 - Lithic Analysis - 1cr.
- ANTH6430 - Archaeometry - 3cr.
- ANTH6460 - Engaging Communities in Archaeology - 3cr.

2. Certificate Concentration Track

Students can can combine two certificates (18 credits each for a total of 36 credits) with a set of core courses to be determined in consultation with supervisory committee. Students can also base their degrees on a single certificate (18 credits), but in such cases, will need to choose an additional six elective courses to round out their degree.

Complete at least 2 of the following programs:

- CRMP_PBC - Cultural Resource Management Policy, Advocacy and Business Administration - Post-Bachelor's Certificate
- ARDA_PBC - Archaeological Data Analytics - Post-Bachelor's Certificate
- MACM_PBC - Museum Administration and Collections Management - Post-Bachelor's Certificate

3. Dissertation Research (12 credits)

Earn at least 12 credits from the following:

- ANTH6970 - Thesis Research - 1cr.

4. Archaeology Field School

Please note: an approved field school or equivalent experience is required for admission as a matriculated student. Field school credits do not count toward the MS degree.

Complete ALL of the following Courses:

- ANTH6300 - Archaeology Field School - 6cr.

Section 2: Requirements for Students Entering with a Bachelor's Degree

Type
Completion Requirement

Program Requirements

Earn at least 59 credits
Exceptionally well-qualified applicants who have completed an undergraduate degree in Anthropology or a closely related discipline and who demonstrate outstanding potential for success in the pursuit of doctoral-level training may be considered for admission directly into the PhD program. A minimum of 59 credits beyond the Bachelor's degree are required for the doctoral degree for students who enter the program without first completing a master's degree.

Credits in the following areas are not acceptable in a degree program: foreign languages (unless included in an approved Program of Study), continuing graduate advisement, individual home study, military science, and courses numbered below 6000.

Specific minimum requirements include the following:

1. Traditional Track

Fulfill ALL of the following requirements:

Core Required Courses

Complete ALL of the following Courses:

- ANTH6200 - Anthropological Perspectives on

Conservation - 3cr.
- ANTH6340 - Archaeology of the Desert West - 3cr.
- ANTH6350 - Archaeological Theory - 3cr.
- ANTH6360 - Research Design and Quantitative Methods in Archaeology - 3cr.
- ANTH6390 - Cultural Resources Management Policy - 3cr.
- ANTH6410 - Writing for Archaeologists - 3cr.
- ANTH6700 - Archaeology Internship - 2cr.

AND

Methods Electives (27 credits)

Earn at least 27 credits from the following:
- ANTH6250 - Problems in Bioarchaeology - 3cr.
- ANTH6320 - Zooarchaeology - 3cr.
- ANTH6330 - Geoarchaeology - 3cr.
- ANTH6370 - GIS in Archaeology - 3cr.
- ANTH6400 - Collections Management - 1cr.
- ANTH6420 - Lithic Analysis - 1cr.
- ANTH6430 - Archaeometry - 3cr.
- ANTH6460 - Engaging Communities in Archaeology - 3cr.

2. Certificate Concentration Track

Students have the option to customize their certificate curriculum with the permission of the Graduate Program Director(s) and/or Major professor. Courses not included in any of the listed certificates or Methods Electives must be added to an approved Program of Study.

Complete at least 2 of the following programs:
- ANCR_PHD - Anthropology and Cultural Resource Management - PhD
- ARDA_PBC - Archaeological Data Analytics - Post-Bachelor's Certificate
- MACM_PBC - Museum Administration and Collections Management - Post-Bachelor's Certificate

3. Dissertation Research (18 hours)

Earn at least 18 credits from the following:
- ANTH6970 - Thesis Research - 1cr.

Comprehensive Exams

Complete the following:
Master's degree granted upon completion of comprehensive examinations.

5. Archaeology Field School

Please note: an approved field school or equivalent experience is required for admission as a matriculated student. Field school credits do not count toward the MS degree.

Complete ALL of the following Courses:
- ANTH6300 - Archaeology Field School - 6cr.

Program Learning Outcomes

Program Learning Outcomes
https://chass.usu.edu/anthropology/assessments

Animal and Dairy Sciences - Minor

Program Overview

College
College of Agriculture & Natural Resources

Department
Animal, Dairy & Veterinary Sciences

Program Level
Undergraduate

About this Degree
A minor can be valuable when associated with a major in agricultural education, agricultural economics, plant science, nutrition and food science, business, economics, computer science, rangeland resources, and in other disciplines where the animal industry has direct or indirect involvement.

The Animal and Dairy Sciences Minor offers courses that cover basic principles of livestock production practices, systems and physiology, health and welfare, and topics related to current industry issues. This minor is designed to enrich students' general knowledge in the small animal and/or livestock industries and provide hands-on learning experiences throughout their education. This minor is appropriate for students who are interested in becoming agriculture teachers, working in production agriculture, or broadening their knowledge of animal sciences.

Program Requirements

Total Credits Required In Program Coursework
15

Total Credits Required To Earn This Credential
15

Simple Requisites

Program Requirements

1. Attain a grade point average of at least 2.50 across all ADVS courses.
2. Courses required for the minor may *not* be taken for a *pass/fail* grade except for courses that are only offered as pass/fail.
3. A minimum grade of C is required in all courses applied toward this minor.

The following is a listing of courses for the minor. A specific course may not be used to fulfill the requirements of more than one ADVS minor.

Section 1

Type
Completion Requirement

Required

Complete ALL of the following Courses:
- ADVS1110 - Introduction to Animal Science (BLS) - 3cr.

Choose one Production Course from the following:

Complete at least 1 of the following courses:
- ADVS2010 - Companion Animal Science and Management - 2cr.
  AND ADVS2015 - Companion Animal Science and Management Laboratory - 1cr.
- ADVS2080 - Beef Production Practices - 3cr.
- ADVS2090 - Sheep Production Practices - 3cr.
- ADVS2110 - Poultry Production and Management - 3cr.
- ADVS2120 - Swine Production and Management - 3cr.
- ADVS2130 - Dairy Cattle Production - 3cr.

- ADVS2160 - Introduction to Exotic Animals - 3cr.
- ADVS2190 - Horse Production Practices - 3cr.

NOTE:

1. ***ADVS2010 COMPANION ANIMAL SCI/MGT and ADVS2015 COMP ANIMAL SCI MGMT LAB together count as one course toward this requirement.***

Section 2

Type
Completion Requirement

Choose 9 credits from the following list of ADVS-prefix courses:

The production courses above may also be used to fulfill the 9-credit requirement if not used to fulfill the production course requirement.

Earn at least 9 credits from the following:

- ADVS1050 - Animal, Dairy and Veterinary Science Academic and Career Orientation I - 1cr.
- ADVS1060 - Animal, Dairy, and Veterinary Science Academic and Career Orientation II - 1cr.
- ADVS1100 - Small-Scale and Specialty Animal Production - 3cr.
- ADVS2020 - Companion Animal Nursing - 2cr.
  AND ADVS2025 - Companion Animal Nursing Laboratory - 1cr.
- ADVS2200 - Anatomy and Physiology of Animals - 3cr.
- ADVS2250 - Cooperative Work Experience - 1cr.
- ADVS2500 - Feeds and Feeding - 3cr.
- ADVS3000 - Animal Health and Hygiene - 3cr.
- ADVS3150 - Principles of Equine-Assisted Services - 3cr.
- ADVS3300 - Equine Lower Limb Form and Function - 3cr.
- ADVS3500 - Principles of Animal Nutrition - 3cr.
- ADVS3520 - Equine Nutrition and Exercise Physiology - 3cr.
- ADVS3650 - Live Animal and Carcass Evaluation - 3cr.
- ADVS3910 - Special Topics - 1cr.
- ADVS3920 - Ag Animal Extension Field Experience - 1cr.
- ADVS3930 - Sheep Day - 1cr.
- ADVS3980 - Beef Cattle Handling Practices - 1cr.
- ADVS4200 - Physiology of Reproduction and Lactation (CI) - 4cr.
- ADVS4210 - Applied Reproduction and Artificial Insemination - 2cr.
- ADVS4220 - Applied Equine Reproduction I - 3cr.
- ADVS4250 - Internship in Animal Industry - 1cr.
- ADVS4560 - Principles of Animal Genetics and Breeding (QI) - 3cr.
- ADVS5860 - Poisonous Range Plants Affecting Livestock - 3cr.

NOTE:

1. ***The combined maximum credit for ADVS2250 COOPERATIVE WORK EXPERIENCE and/or ADVS4250 INTERN ANIMAL INDUSTRY is 3 credits.***
2. ***The ADVS3910 SPECIAL TOPICS section accepted for credit toward the minor is titled Dairy Challenge.***
3. ***The following courses from the list above have prerequisites: ADVS2200 ANATOMY AND PHYSIOLOGY ANIMALS, ADVS3000 ANIMAL HEALTH AND HYGIENE, ADVS3300 EQUINE LOWER LIMB, ADVS3500 PRINCIPLES OF ANIMAL NUTRITION, ADVS3520 EQUINE NUTRITION/EXERCISE PHYS, ADVS4200 PHYSIOLOGY REPROD/LACTATN (CI), ADVS4210 APPLIED REPRODUCTION AND A.I., ADVS4220 APPLIED EQUINE REPRODUCTION I, ADVS4560 ANIMAL GENETICS AND BREED (QI)***

Additional Comments:
NOTE:

1. A maximum of 3 credits counted towards the minor may be experiential learning courses (currently ADVS3910 SPECIAL TOPICS Dairy Challenge, ADVS3920 AG ANIMAL FIELD EXP, ADVS3930 SHEEP DAY, and ADVS3980 BEEF CATTLE HANDLING).

Program Learning Outcomes

Program Learning Outcomes
https://qanr.usu.edu/advs/assessment/

Animal and Dairy Sciences - BS

Program Overview

College
College of Agriculture & Natural Resources

Department
Animal, Dairy & Veterinary Sciences

Program Level
Undergraduate

About this Degree

The Animal and Dairy Sciences BS degree includes all disciplines of the animal production industry, current scientific applications associated with animal science, and biotechnology associated with the animal science industry.

Students in this program will not only be exposed to multiple disciplines in the classroom but will also have the opportunity for applied experiences in the fields of animal nutrition, reproduction and physiology, breeding and genetics, livestock production management, and animal biotechnology.

The Animal and Dairy Science program offers students hands-on experiences with beef cattle, dairy cattle, horses, sheep, goats, and pigs.

- For more information about the Department of Animal, Dairy & Veterinary Sciences, see the website.
- If you are a new/entering student, we strongly recommend reviewing the suggested degree map.
- Admitted and current students must meet with an advisor (see below).
- Log on to Degree Works to check student-specific program progress.
- The highest math requirement for this degree is MATH1050 COLLEGE ALGEBRA (QL).

Students with last names A-L: Contact Allie East at allie.east@usu.edu, 435-797-2194, or here for advising.
Students with last names M-Z: Contact Tami Spackman at tami.spackman@usu.edu, 435-797-2150, or here for advising.

Admission Requirements for this Program

- New freshmen: Admitted to USU in Good Standing
- Transfer students from other institutions or other programs at USU: 2.75 GPA

Program Requirements

Total Credits Required In Program Coursework
86

Total Credits Required To Earn This Credential
120

Simple Requisites

Program Requirements

1. Attain a grade point average of at least 2.50 across all ADVS courses.
2. Courses required for the major may *not* be taken for a *pass/fail* grade except for courses that are only offered as pass/fail.
3. To graduate with a degree in this major, students must attain a GPA of at least 2.25 for all required courses for the major.

Students with last names A-L: Contact Allie East at allie.east@usu.edu, 435-797-2194, or here for advising.
Students with last names M-Z: Contact Tami Spackman at tami.spackman@usu.edu, 435-797-2150, or here for advising.

Required Courses (62-65 credits)

Type
Completion Requirement

Required

Complete ALL of the following Courses:

- ADVS1050 - Animal, Dairy and Veterinary Science Academic and Career Orientation I - 1cr.
- ADVS1060 - Animal, Dairy, and Veterinary Science Academic and Career Orientation II - 1cr.
- ADVS1110 - Introduction to Animal Science (BLS) - 3cr.
- ADVS2200 - Anatomy and Physiology of Animals - 3cr.
- ADVS2203 - Anatomy and Physiology of Animals: Exploratory Laboratory - 1cr.
  OR ADVS2205 - Anatomy and Physiology of Animals: Applied Laboratory - 1cr.
- ADVS2500 - Feeds and Feeding - 3cr.
- ADVS3000 - Animal Health and Hygiene - 3cr.
- ADVS3500 - Principles of Animal Nutrition - 3cr.
- ADVS4200 - Physiology of Reproduction and Lactation (CI) - 4cr.
- ADVS4250 - Internship in Animal Industry - 1cr.
  OR ADVS4800 - Undergraduate Research or Creative Opportunity - 1cr.
- ADVS4560 - Principles of Animal Genetics and Breeding (QI) - 3cr.
- ADVS4920 - Undergraduate Seminar (CI) - 2cr.
- BIOL1610 - Biology I - 3cr.
- BIOL1615 - Biology I Laboratory - 1cr.
- BIOL1620 - Biology II (BLS) - 3cr.
- BIOL1625 - Biology II Laboratory - 1cr.
- CHEM1210 - Principles of Chemistry I - 4cr.
- CHEM1215 - Chemical Principles Laboratory I - 1cr.
- CHEM1220 - Principles of Chemistry II (BPS) - 4cr.
- CHEM1225 - Chemical Principles Laboratory II - 1cr.
- MATH1050 - College Algebra (QL) - 4cr.
- STAT1040 - Introduction to Statistics (QL) - 3cr.
  OR STAT2000 - Statistical Methods (QI) - 4cr.

NOTE:

1. 3 credits are required for either ADVS 4250 or ADVS 4800.

Management Courses

Complete ANY of the following Courses:

- ADVS5080 - Beef Cattle Management - 3cr.
- ADVS5090 - Sheep Management and Wool Technology - 3cr.
- ADVS5130 - Dairy Cattle Management - 3cr.
- ADVS5190 - Equine Business Management - 2cr.

Production Courses

Complete at least 2 of the following courses:

- ADVS2010 - Companion Animal Science and Management - 2cr.
  AND ADVS2015 - Companion Animal Science and Management Laboratory - 1cr.
- ADVS2080 - Beef Production Practices - 3cr.
- ADVS2090 - Sheep Production Practices - 3cr.
- ADVS2110 - Poultry Production and Management - 3cr.
- ADVS2120 - Swine Production and Management - 3cr.
- ADVS2130 - Dairy Cattle Production - 3cr.
- ADVS2190 - Horse Production Practices - 3cr.

NOTE:

1. ADVS2010 COMPANION ANIMAL SCI/MGT and ADVS2015 COMP ANIMAL SCI MGMT LAB together count as one course toward this requirement.

Elective Course Requirements

Type
Completion Requirement

Directed Electives (24 credits)

Earn at least 24 credits from the following:

- ACCT2010 - Financial Accounting Principles - 3cr.
- ADVS2020 - Companion Animal Nursing - 2cr.
  AND ADVS2025 - Companion Animal Nursing Laboratory - 1cr.
- ADVS2160 - Introduction to Exotic Animals - 3cr.
- ADVS3280 - Applied Animal Molecular & Cellular Biology - 4cr.
- ADVS3300 - Equine Lower Limb Form and Function - 3cr.
- ADVS3520 - Equine Nutrition and Exercise Physiology - 3cr.
- ADVS3650 - Live Animal and Carcass Evaluation - 3cr.
- ADVS3920 - Ag Animal Extension Field Experience - 1cr.
- ADVS3930 - Sheep Day - 1cr.
- ADVS3980 - Beef Cattle Handling Practices - 1cr.
- ADVS4210 - Applied Reproduction and Artificial Insemination - 2cr.
- ADVS4220 - Applied Equine Reproduction I - 3cr.
- ADVS4310 - Animal Growth and Development - 3cr.
- ADVS5020 - One Health: People, Animals, and the Environment - 3cr.
- ADVS5080 - Beef Cattle Management - 3cr.
  OR ADVS5090 - Sheep Management and Wool Technology - 3cr.
  OR ADVS5130 - Dairy Cattle Management - 3cr.
  OR ADVS5190 - Equine Business Management - 2cr.
- ADVS5500 - Applied Animal Nutrition - 2cr.
- ADVS5530 - Nutrient Metabolization & Utilization - 3cr.
- ADVS5620 - Advanced Animal Physiology - 3cr.
- ADVS5630 - Endocrinology (CI) - 3cr.
- ADVS5650 - Science Communication - 3cr.
- ADVS5710 - Conceptualizing the Human-Animal Bond - 3cr.
- ADVS5720 - Animal-Assisted Interventions and Special Populations - 3cr.
- ADVS5730 - Welfare and Behavior of Animals in Animal-Assisted Interventions - 3cr.
- ADVS5860 - Poisonous Range Plants Affecting Livestock - 3cr.
- APEC1400 - Introduction to Agriculture Policy (BSS) - 3cr.
- APEC2010 - Introduction to Microeconomics (BSS) - 3cr.
  OR ECON2010 - Introduction to Microeconomics (BSS) - 3cr.
- APEC2120 - Small Firm Accounting Basics - 3cr.
- APEC2310 - Small Firm Management - 3cr.
- APEC2500 - Commodity Futures and Options Trading and Analysis - 3cr.
- APEC2830 - Agribusiness Sales and Marketing - 3cr.
- APEC3010 - Agricultural Economics (DSS) - 3cr.
- ASTE3600 - Data Management of Agricultural Systems (QI) - 3cr.
- BIOL3060 - Principles of Genetics (QI) - 3cr.
- BIOL3300 - General Microbiology - 3cr.
- BUSN2050 - Business Law - 3cr.
- BUSN2320 - Small Business Management - CTE - 3cr.
- CHEM2310 - Organic Chemistry I - 4cr.
- CHEM2315 - Organic Chemistry Laboratory I - 1cr.
- CHEM2320 - Organic Chemistry II - 4cr.
- CHEM3700 - Introductory Biochemistry - 3cr.
- DATA2100 - Data and Information in Business - 3cr.
- MATH1100 - Calculus Techniques (QL) - 3cr.
  OR MATH1210 - Calculus I (QL) - 4cr.
- MSLE3110 - Managing Organizations and People (DSS) - 3cr.
- MSLE3500 - Fundamentals of Marketing - 3cr.
- MSLE3510 - New Venture Creation - 3cr.
- MSLE3530 - New Venture Marketing - 3cr.
- MSLE3540 - New Venture Finance - 3cr.
- MSLE3580 - New Venture Execution - 3cr.
- NDFS5020 - Meat Science and Technology - 4cr.
- PHYS2110 - General Physics—Life Sciences I - 4cr.
- PHYS2120 - General Physics - Life Sciences II (BPS) - 4cr.
- PSC2010 - Soils, Waters, and the Environment (BPS) - 3cr.
- PSC3000 - Fundamentals of Soil Science - 4cr.
- PSC4320 - Forage Production and Pasture Management - 3cr.
- STAT3000 - Statistics for Scientists (QI) - 3cr.
- WILD4000 - Principles of Rangeland Management - 3cr.
- WILD5340 - Range Ruminant Nutrition and Management - 3cr.

NOTE:

1. ADVS3930 SHEEP DAY may be taken for 1 or 2 credits.
2. A maximum of 6 directed elective credits may be experiential learning courses (currently ADVS3920 AG ANIMAL FIELD EXP, ADVS3930 SHEEP DAY, and ADVS3980 BEEF CATTLE HANDLING).

Open Electives

Complete the following as needed:
Total elective credit is determined by General Education courses taken, degree type selected, additional credits earned, and any additional math or other prerequisite courses needed. Please consult your academic advisor for details.

Minimum University Requirements

Minimum University Requirements
Minimum University Requirements (Bachelor's Degree)

Suggested Degree Maps

Degree Map Name
Suggested Degree Map - Animal and Dairy Science, BS
Total Degree Map Credits
115 - 122
Degree Map Effective Catalog Year
2027 -

Degree Map Narrative

- Following is a sample four-year plan. Please note that student-specific plans may differ.
- Meet with an academic advisor to create a specific plan that best fits your academic needs.
- The student is ultimately responsible for knowing and completing all degree requirements.

- Make sure you meet the registration requirements for each class by clicking the course link and checking any prerequisites or corequisites.
- Consultation with an advisor may result in an altered plan customized for an individual student.
- Check your Degree Works for requirements and completion.

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	15	0

Requirement Select
- ADVS1050 - Animal, Dairy and Veterinary Science Academic and Career Orientation I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- ADVS1110 - Introduction to Animal Science (BLS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- BIOL1610 - Biology I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- BIOL1615 - Biology I Laboratory

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- ENGL1010 - Writing as Inquiry (CL1)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- MATH1050 - College Algebra (QL)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	15	0

Requirement Select
- ADVS1060 - Animal, Dairy, and Veterinary Science Academic and Career Orientation II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- APEC1600 - Natural Resources and American Economic Institutions (BAI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- BIOL1620 - Biology II (BLS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- BIOL1625 - Biology II Laboratory

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- STAT1040 - Introduction to Statistics (QL)

  OR
- STAT2000 - Statistical Methods (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	3 - 4
Clinical	-
Criticality	No

Requirement Select

- Production course (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- APEC1600 is recommended as a BAI course; selection of STAT course depends on career path (contact advisor) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	15	0

Requirement Select

- ADVS2500 - Feeds and Feeding

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- CHEM1210 - Principles of Chemistry I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- CHEM1215 - Chemical Principles Laboratory I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- ENGL2010 - Research and Argument Across Perspectives (CL2)
  OR
- ENGL2020 - Professional Communication (CL2)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Production course (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- General elective course (1 credit) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	15 - 16	0

Requirement Select

- ADVS2200 - Anatomy and Physiology of Animals

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- ADVS2203 - Anatomy and Physiology of Animals: Exploratory Laboratory
  OR
- ADVS2205 - Anatomy and Physiology of Animals: Applied Laboratory

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- CHEM1220 - Principles of Chemistry II (BPS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- CHEM1225 - Chemical Principles Laboratory II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- Breadth Social Sciences (BSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Breadth Creative Arts (BCA) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Fall	15	0

Requirement Select
- ADVS3000 - Animal Health and Hygiene

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- ADVS3500 - Principles of Animal Nutrition

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Breadth Humanities (BHU) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Directed elective course (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Directed elective course (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Spring	12 - 16	0

Requirement Select
- Depth Social Sciences (DSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	0 - 4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Directed elective course (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Directed elective course (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Directed elective course (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Directed elective course (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Fall	15	0

Requirement Select
- ADVS4200 - Physiology of Reproduction and Lactation (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- ADVS4250 - Internship in Animal Industry
  OR
- ADVS4800 - Undergraduate Research or Creative Opportunity

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	1 - 12
Clinical	-
Criticality	No

Requirement Select
- ADVS4560 - Principles of Animal Genetics and Breeding (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- ADVS4920 - Undergraduate Seminar (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select

- General elective course (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- 3 credits are required for either ADVS 4250 or ADVS 4800 (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Spring	13 - 15	0

Requirement Select

- Depth Humanities and Creative Arts (DHA) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1 - 3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Management course (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Directed elective course (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Directed elective course (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- General elective course (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	Total Major Credits
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Program Learning Outcomes

Program Learning Outcomes

https://qanr.usu.edu/advs/assessment/

Agriculture and Natural Resources Pre-Law - Minor

Program Overview

College
College of Agriculture & Natural Resources

Department
Applied Economics

Program Level
Undergraduate

About this Degree

The Agriculture and Natural Resources Pre Law minor at Utah State University provides students with a foundation in agriculture, natural resources, and law.

The program equips students with the knowledge and skills necessary to pursue careers or further education in law and policy related to agriculture and natural resources.

Students will gain an understanding of agricultural and natural resource law, policy analysis, legal and ethical environment of business, and United States government and politics. They can also choose electives from a range of topics, such as law and economics, environmental policy, natural resources law, employment law, and constitutional theory.

Program Requirements

Total Credits Required In Program Coursework
17

Total Credits Required To Earn This Credential
17

Simple Requisites

Program Requirements

To graduate with a minor in Agriculture and Natural Resources Pre Law, students must have an overall GPA of 2.5 or higher.

Agriculture and Natural Resources Pre Law Minor Requirements (17 credits)

Type
Completion Requirement

Required Courses

The following courses are required for all students in this program:

Complete ALL of the following Courses:

- APEC2900 - Agricultural and Natural Resource Law - 3cr.
- APEC5950 - Applied Economics Policy Analysis - 3cr.
  OR APEC5940 - U.S. Agricultural Policy Analysis - 3cr.
- MGT3350 - Legal and Ethical Environment of Business - 3cr.
- POLS1100 - United States Government and Politics (BAI) - 3cr.

Elective Options

Students may select the balance of their 17 required credits from the following courses:

Complete ANY of the following Courses:

- APEC4250 - Applied Economics Internship - 1cr.
- ECON3550 - Law and Economics - 3cr.
- ENVS3010 - Natural Resource and Environmental Policy - 3cr.
- ENVS5300 - Natural Resources Law and Policy - 2cr.
- IOGP5910 - Campaign Internship - 1cr.
- MGT3810 - Employment Law (DSS) - 3cr.
- NDFS5510 - Food Laws and Regulations - 3cr.
- POLS4130 - Constitutional Theory - 3cr.
- POLS4160 - The First Amendment - 3cr.
- POLS5130 - Law and Policy - 3cr.

Program Learning Outcomes

Program Learning Outcomes

https://caas.usu.edu/apec/assessment

Anthropology - Minor

Program Overview

College	Department	Program Level
College of Arts & Sciences	School of Social Sciences	Undergraduate

Program Requirements

Total Credits Required To Earn This Credential
18

Simple Requisites

Program Requirements

A minimum of 18 credits is required for the anthropology minor. A minimum of 12 anthropology credits counting toward the minor must be Utah State University courses. Credits from distance and residence center courses are subject to departmental approval for application toward the anthropology minor. Students must maintain a minimum 2.5 overall GPA in anthropology courses. A grade of C or better must be attained in all courses counting toward the minor.

Section 1

Type
Completion Requirement

Required Courses (9 credits)

Complete ALL of the following Courses:

- ANTH1010 - Cultural Anthropology (BSS) - 3cr.
- ANTH1020 - Biological Anthropology (BLS) - 3cr.
- ANTH1030 - World Archaeology (BSS) - 3cr.

Section 2

Type
Completion Requirement

Breadth-in-Anthropology Structured Track Electives; Groups 1, 2, or 3 (9 credits minimum)

Earn at least 9 credits
In addition to the required courses, students must complete a minimum of 9 credits (ANTH2010 PEOPLES OF THE WORLD (BSS), 3000-5000 level courses) in anthropology from the ***Structured Track Courses*** in: (1) Cultural/Applied Anthropology; (2) Biological Anthropology; and/or (3) Archaeology/Cultural Resource Management. ***Departmental electives do not count toward minor requirements.***

Program Learning Outcomes

Program Learning Outcomes
https://chass.usu.edu/anthropology/assessments

Anthropology - BA, BS

Program Overview

College	Department	Program Level
College of Arts & Sciences	School of Social Sciences	Undergraduate

About this Degree
Anthropology is the study of all cultures across time and space. Through comparative studies, anthropologists determine how people of the world are similar and different. They engage in issues relating to modern society, such as health care, human rights, law, urban development, and global population. The program focuses on the subdiscipline areas of cultural anthropology, biological anthropology, linguistics, and archaeology.

Students studying anthropology at Utah State University are prepared for careers in numerous fields through the skills and knowledge they gain in both the liberal arts and natural sciences. Graduates of USU's anthropology program are in-depth thinkers with effective reading and writing skills and the ability to solve problems across the humanities and natural sciences.

The program is cross-disciplinary and gives students the chance to participate in state-of-the-art research and hands-on learning through high-tech labs and real-world fieldwork experience. Class sizes are generally small, which enables students to receive extensive individualized attention. Designed to give students a full range of experience, this unique program helps undergraduates gain skills and expertise usually available to graduate students.

- For more information about Anthropology, see the Department of Sociology, Anthropology and Criminal Justice website.
- Admitted and current students must meet with an academic advisor.
- Log on to Degree Works to check student-specific program progress.
- The highest math requirement for this degree is STAT1040 INTRO TO STATISTICS (QL) or STAT1045 INTRO STAT WITH ALGEBRA (QL) or STAT1080 FOUNDATIONS OF DATA SCI (QL).

Bachelor of Arts Degree
In addition to completing the Bachelor of Science (BS) degree requirements, students desiring a (BA) Bachelor of Arts degree must complete the language proficiency requirements in one of the following ways:

- Demonstration of proficiency in *one* foreign language by successful completion of one course at the 2020-level or higher (or its equivalent) **OR**
- Demonstration of proficiency in American Sign Language by successful completion of American Sign Language IV (ASL4920 AMERICAN SIGN LANGUAGE IV) and Socio-Cultural Aspects of Deafness (ASL4780 DEAF CULTURE), and by passing an exit interview **OR**
- Demonstration of proficiency in *two* foreign languages by successful completion of the 1020 course level in one language ***and*** the 2010 course level in the second language (or its equivalent) **OR**
- Completion of an upper-division (3000-level or higher) foreign language grammar or literature course requiring the 2020 course level (or its equivalent) as a prerequisite. Conversation courses *cannot* be considered for satisfying this requirement.

For nonnative English-speaking students *only*, the following options are available:

- Successful completion of the Intensive English Language Institute (IELI) program for international students **OR**
- TOEFL, Michigan, or IELI placement scores high enough to meet the University admission criteria.

Bachelor of Science Degree

Students desiring a (BS) Bachelor of Science degree must complete all requirements listed in the core requirements below.

Admission Requirements for this Program

- New freshmen must be admitted to USU in Good Standing.
- Transfer students from other institutions or other programs at USU must have a 2.50 GPA.

Program Requirements

Total Credits Required In Program Coursework
40-43

Total Credits Required To Earn This Credential
120

Simple Requisites

Program Requirements

Minimum GPA for Graduation: 2.5 for major requirements, including BS and BA required courses; 2.0 USU GPA, 2.0 Career GPA
Minimum Grade Accepted: C in major requirements, including BS and BA required courses
Number of Required Credits: 40-43
Students majoring in Anthropology must maintain a minimum 2.5 overall GPA in Anthropology courses.

- A **Bachelor of Arts** degree requires foreign language training or demonstration of proficiency in one language, which may be satisfied in a number of ways, including successful completion of one course at the 2020-level or higher (or its equivalent) or demonstration of proficiency in American Sign Language or demonstration of proficiency in two foreign languages by successful completion of the 1020 course level in one language and the 2010 course level in the second language (or its equivalent). For further information, see the General Catalog discussion of Undergraduate Academic Credential Requirements.
- Students planning to receive a **Bachelor of Science** degree must complete STAT1040 INTRO TO STATISTICS (QL), STAT1045 INTRO STAT WITH ALGEBRA (QL), STAT1080 FOUNDATIONS OF DATA SCI (QL), or another approved statistics course; and two courses selected from a list of courses approved by the Anthropology program (see below).
- A total of 40 credits are required for General Anthropology majors as well as for majors choosing the Biological; Cultural; or Environmental Change, Community Engagement, and Wellness Anthropology tracks. A total of 43 credits are required for majors choosing the Archaeology/CRM track. See below for details.
- **Residence**: A minimum of 21 credits of the Anthropology course credits counting toward the major must be Utah State University courses. Credits from distance and residence center courses are subject to departmental approval for application toward the Anthropology major, with the exception of those listed below.
- **Methods Component**: Majors must complete one "Methods" course (3 credits) in Anthropology. The course chosen to meet this requirement may also count toward other Anthropology major requirements.
- **Credit Totals and Distribution**: A minimum of 40 credits is required for the Anthropology major (43 credits for the archaeology track). All students are required to take the five core courses below (see required courses section) for a total of 12 credits. Additionally, students take 27-30 credits of structured electives as outlined in the "Anthropology Tracks and General Anthropology Options" section below.

Anthropology - BA, BS

Type
Completion Requirement

Courses Required of All Anthropology Majors (12 credits)

Each student is required to take a set of four core courses, which introduce them to USU's Anthropology program resources, the subfields of Anthropology, and the history and theories of Anthropology.

Complete ALL of the following Courses:

- ANTH1010 - Cultural Anthropology (BSS) - 3cr.
- ANTH1020 - Biological Anthropology (BLS) - 3cr.
- ANTH1030 - World Archaeology (BSS) - 3cr.
- ANTH4980 - History and Theories of Anthropology - 3cr.

Anthropology Tracks and General Anthropology Options (27-30 credits)

Type
Completion Requirement

General Anthropology

Complete the following:
Students are encouraged (but not required) to select a track from among the four subspecialties in Anthropology (Cultural/Applied Anthropology; Biological Anthropology; Environmental Change, Community Engagement, and Wellness Anthropology; or Archaeology/CRM—listed below). Students who choose the "General Anthropology" option (e.g., those students who do not wish to specialize in any of the four listed tracks) complete 27 credits from any of the courses listed in 1-4 below.

Cultural Track

Complete the following:
Students who choose to complete the track option in Cultural Anthropology are required to obtain broad knowledge outside their track as well as a depth of knowledge within their track. To do this, they must successfully complete a minimum of six courses equally distributed from the Archaeology, Biological Anthropology, and Cultural Anthropology tracks (listed in 1-3 below for a total of 18 credits) as well as three additional courses from the Cultural Track (listed in 1 below, for a total of 9 credits).

Cultural Track (27 credits)

Type
Completion Requirement

1. Cultural/Applied Track

Earn at least 27 credits from the following:

- ANTH1090 - Introduction to Interfaith Leadership (BHU) - 3cr.
- ANTH2010 - Peoples of the Contemporary World (BSS) - 3cr.
- ANTH3090 - Introduction to Shamanism: Shamanic Healing for Personal and Planetary Transformation - 3cr.
- ANTH3110 - North American Indian Cultures (DSS) - 3cr.
- ANTH3130 - Peoples of Latin America (CI) - 3cr.
- ANTH3140 - Anthropology of Sex and Gender (DSS) - 3cr.
- ANTH3150 - Applied Anthropology Survey: History, Uses,

Methods, and Careers - 3cr.
- ANTH3160 - Anthropology of Religion (DSS) - 3cr.
- ANTH3165 - Bridging Religious Difference in Theory and Practice: an Introduction to Interfaith Leadership - 3cr.
- ANTH3180 - Peoples of the Middle East (DSS) - 3cr.
- ANTH4120 - Anthropology of Childhood (DSS/CI) - 3cr.
- ANTH4130 - Introduction to Medical Anthropology (DSS) - 3cr.
- ANTH4150 - Cognition, Stress, and Health - 3cr.
- ANTH4160 - Evolution of Religion: The Cognitive Science of Religion and Faith - 3cr.
- ANTH4250 - Behavioral Ecology - 3cr.
- ANTH4800 - Topics in Anthropology - 1cr.
- ANTH4990 - Contemporary Issues in Anthropology (CI) - 3cr.
- ANTH5110 - Southwest Indian Cultures, Past and Present (DSS) - 3cr.
- ANTH5130 - Ethnographic Field School - 3cr.
- ANTH5170 - Ethnographic Methods in Anthropology - 3cr.
- ANTH5190 - Applied Anthropology Practicum - 1cr.
- ANTH5200 - Anthropological Perspectives on Conservation - 3cr.
- ANTH5650 - Developing Societies (DSS) - 3cr.
- ANTH5900 - Independent Studies - 1cr.

NOTE:

1. ANTH3150 APPLIED ANTHROPOLOGY SURVEY, ANTH4120 ANTH OF CHILDHOOD (DSS)(CI), ANTH5170 ETHNOGRAPHIC METHODS, ANTH5130 ETHNOGRAPHIC FIELD SCHOOL, ANTH5190 APPLIED ANTHROPOLOGY PRACTICUM - Are methods courses.
2. ANTH4800 TOPICS ANTHROPOLOGY - Topics: Peoples of Africa, Anthropology of Tourism & Development, Nomads, Tourists & Refugees.

Biological Track (27 credits)

Type
Completion Requirement

2. Biological Anthropology

Students who choose to complete the track option in Biological Anthropology are required to obtain broad knowledge outside their track as well as a depth of knowledge within their track. To do this, they must successfully complete a minimum of six courses equally distributed from the Archaeology, Biological Anthropology, and Cultural Anthropology tracks (listed in 1-3 below for a total of 18 credits) as well as two additional courses from the Biological Track (listed in 2 below, for a total of 6 credits). Also recommended: BIOL 1610, BIOL 1620, BIOL 2320, BIOL 2420. A Biological track-specific capstone (3 credits) completes the required 27 credits. Capstone courses may not be offered every year, so students should schedule their coursework accordingly.

Earn at least 27 credits from the following:
- ANTH3200 - Perspectives on Race (DSS/CI) - 3cr.
- ANTH3225 - Sex, Evolution, and Health (DSC) - 3cr.
- ANTH3240 - Anthropology of Disease (DSC) - 3cr.
- ANTH3250 - Osteology - 3cr.
- ANTH4200 - The Anthropology of War - 3cr.
- ANTH5200 - Anthropological Perspectives on Conservation - 3cr.
- ANTH4240 - Primates of the World - 3cr.
- ANTH4250 - Behavioral Ecology - 3cr.
- ANTH5210 - Women's Reproductive Health Research - 3cr.
- ANTH5250 - Problems in Bioarchaeology (QI) - 3cr.
- BIOL2320 - Human Anatomy - 4cr.

NOTE:

1. ANTH3250 OSTEOLOGY - Is a methods course.
2. ANTH5250 PROBLEMS BIOARCHAEOLOGY (QI) - Is a methods course, and counts as a track course, capstone, or BS requirement.
3. BIOL2320 HUMAN ANATOMY - Cannot double count as BS requirement.

Biological Anthropology Capstone

Complete ALL of the following Courses:
- ANTH5250 - Problems in Bioarchaeology (QI) - 3cr.
  OR ANTH5210 - Women's Reproductive Health Research - 3cr.

Archaeology Track (30 credits)

Type
Completion Requirement

3. Archaeology/Cultural Resource Managemen

Students who choose to complete the track option in Archaeology are required to obtain broad knowledge outside their track as well as a depth of knowledge within their track. To do this, they must successfully complete a minimum of two courses each from Biological and Cultural Anthropology (12 credits), plus a required Archaeology core (12 credits). Additionally, students complete Archaeology-Structured Electives (6 credits) for a total of 30 credits.

Complete the following requirements:

Archaeology Track Required Core (12 credits)

Complete ALL of the following Courses:
- ANTH2030 - Principles of Archaeology (BSS) - 3cr.
- ANTH5300 - Archaeology Field School - 6cr.
- ANTH5340 - Archaeology of the Desert West - 3cr.

NOTE:

1. ANTH5300 ARCHAEOLOGY FIELD SCHOOL is a methods course.

Archaeology Track Required Electives (6 credits)

Earn at least 6 credits from the following:
- ANTH3340 - Geographic Information Science for Anthropology (QI) - 3cr.
- ANTH5320 - Zooarchaeology - 3cr.
- ANTH5330 - Geoarchaeology - 3cr.
- ANTH5420 - Lithic Analysis - 1cr.

NOTE:

1. All courses listed above are methods courses.

Archaeology Electives for Non-Archaeology Tracks

Applied as archaeology elective for General, Biological or Cultural track students.

Complete ALL of the following Courses:
- ANTH3300 - Archaeology in North America (DSS) - 3cr.
- ANTH3310 - Introduction to Museum Studies (CI) - 3cr.

- ANTH3320 - Archaeology of Climate Change (DSS) - 3cr.
- ANTH3330 - Geophysical Survey Systems for Archaeology - 3cr.
- ANTH3350 - Archaeology of Ancient Civilizations (DSS) - 3cr.
- ANTH3360 - Utah Archaeology (DSS) - 3cr.
- ANTH3370 - Archaeology of Prehistoric Europe (DSS) - 3cr.
- ANTH3380 - Archaeology Field Trip - 1cr.
- ANTH4330 - Archaeology of Latin America (DSS) - 3cr.

Environmental Change, Community Engagement, and Wellness Track (27 credits)

Type
Completion Requirement

4. Anthropology of Environmental Change, Community Engagement, and Wellness

Students who choose to complete the track option in Environmental Change, Community Engagement, and Wellness are required to obtain broad knowledge of multiple disciplines. To do this, they must successfully complete a minimum of two courses from all three course categories included in the track (for a total of 18 credits) as well as 9 additional credits of track electives. Students must complete all required courses, six credits in each area, and nine credits of track electives.

Complete the following:

Environmental Change (6 credits)

Earn at least 6 credits from the following:

- ANTH3320 - Archaeology of Climate Change (DSS) - 3cr.
- ANTH3340 - Geographic Information Science for Anthropology (QI) - 3cr.
- ANTH5200 - Anthropological Perspectives on Conservation - 3cr.

Heritage Studies and Community Engagement (6 credits)

Earn at least 6 credits from the following:

- ANTH1090 - Introduction to Interfaith Leadership (BHU) - 3cr.
- ANTH3150 - Applied Anthropology Survey: History, Uses, Methods, and Careers - 3cr.
- ANTH3310 - Introduction to Museum Studies (CI) - 3cr.
- ANTH5800 - Museum Development - 1cr.

Wellness (6 credits)

Earn at least 6 credits from the following:

- ANTH3240 - Anthropology of Disease (DSC) - 3cr.
- ANTH4130 - Introduction to Medical Anthropology (DSS) - 3cr.

Track Electives (9 credits)

Earn at least 9 credits from the following:

- ANTH2010 - Peoples of the Contemporary World (BSS) - 3cr.
- ANTH3110 - North American Indian Cultures (DSS) - 3cr.
- ANTH3140 - Anthropology of Sex and Gender (DSS) - 3cr.
- ANTH3160 - Anthropology of Religion (DSS) - 3cr.
- ANTH3200 - Perspectives on Race (DSS/CI) - 3cr.
- ANTH3300 - Archaeology in North America (DSS) - 3cr.
- ANTH3330 - Geophysical Survey Systems for Archaeology - 3cr.
- ANTH3360 - Utah Archaeology (DSS) - 3cr.

• Additional courses approved on a case-by-case basis.

Non-Track Specific Electives

Type
Completion Requirement

Electives

These do not count toward minor requirements. Some ANTH4800 TOPICS ANTHROPOLOGY courses count toward track credits as noted above. Some methods courses require permission of instructor.

Complete ANY of the following Courses:

- ANTH2210 - Introduction to Folklore (BHU) - 3cr.
- ANTH2720 - Survey of American Folklore - 3cr.
- ANTH3180 - Peoples of the Middle East (DSS) - 3cr.
- ANTH3310 - Introduction to Museum Studies (CI) - 3cr.
- ANTH3550 - Culture of East Asia (DHA) - 3cr.
- ANTH4100 - The Study of Language - 3cr.
- ANTH5700 - Folk Narrative - 3cr.
- ANTH5800 - Museum Development - 1cr.
- ANTH5900 - Independent Studies - 1cr.
- ANTH5980 - Senior Project - 1cr.

NOTE:

1. ANTH2210 INTRO TO FOLKLORE (BHU), ANTH2720 AMERICAN FOLKLORE, ANTH3550 CULTURE OF EAST ASIA (DHA), ANTH4100 STUDY OF LANGUAGE, ANTH5700 FOLK NARRATIVE, and ANTH5900 INDEPENDENT STUDIES - Are not counted toward the major.

Approved Science Courses for Anthropology BS

In addition to STAT 1040 or STAT 1045 or STAT 1080, select two courses from the following list:

Complete ANY of the following Courses:

- ANTH3340 - Geographic Information Science for Anthropology (QI) - 3cr.
- ANTH5250 - Problems in Bioarchaeology (QI) - 3cr.
- BIOL1610 - Biology I - 3cr.
- BIOL1620 - Biology II (BLS) - 3cr.
- BIOL2320 - Human Anatomy - 4cr.
- BIOL2420 - Human Physiology - 4cr.
- BIOL3300 - General Microbiology - 3cr.
- BIOL4000 - Human Dissection - 1cr.
- CHEM1110 - General Chemistry I (BPS) - 4cr.
- CHEM1120 - General Chemistry II (BPS) - 4cr.
- CHEM1210 - Principles of Chemistry I - 4cr.
- CHEM1220 - Principles of Chemistry II (BPS) - 4cr.
- ECON2010 - Introduction to Microeconomics (BSS) - 3cr.
- ECON2020 - Introduction to Macroeconomics (BAI) - 3cr.
- ECON3500 - Introduction to International Business and Economics (DSS) - 3cr.
- ECON3530 - Comparative Economic Systems (DSS)(CI) - 3cr.
- ENVS3010 - Natural Resource and Environmental Policy - 3cr.
- ENVS3500 - Environmental Data Science (QI) - 3cr.
- GEO1010 - Introduction to Geology (BPS) - 3cr.
- GEO1110 - Physical Geology (BPS) - 3cr.
- GEO3100 - Natural Disasters (DSC) - 3cr.
- GEO3600 - Geomorphology - 4cr.
- GEOG1000 - Physical Geography (BPS) - 3cr.
- MGT3700 - Operations Management - 3cr.
- MGT3830 - International Law - 2cr.
- MSLE3500 - Fundamentals of Marketing - 3cr.

- MSLE3820 - International Business (DSS) - 3cr.
- MSLE4050 - International Marketing - 3cr.
- PSC2010 - Soils, Waters, and the Environment (BPS) - 3cr.
- PSC3000 - Fundamentals of Soil Science - 4cr.
- PSY3010 - Psychological Statistics (QI) - 3cr.
- PUBH3120 - Family and Community Health - 3cr.
- PUBH3610 - Environmental Management - 3cr.
- PUBH4030 - Communicable Disease Control - 3cr.
- PUBH4040 - Fundamentals of Epidemiology - 3cr.
- SOC3110 - Methods of Social Research (CI) - 3cr.
- SOC3120 - Social Statistics I (QI) - 3cr.
- SOC3200 - Population and Society (DSS) - 3cr.
- SOC3610 - Rural People and Places (DSS) - 3cr.
- SOC4720 - Effective Community Engagement - 3cr.
- SOC5640 - Managing Community Conflict (CI) - 3cr.
- STAT2000 - Statistical Methods (QI) - 4cr.
- STAT3000 - Statistics for Scientists (QI) - 3cr.
- STAT5100 - Modern Regression Methods (CI/QI) - 3cr.
- STAT5200 - Analysis of Designed Experiments - 3cr.
- WILD2200 - Ecology of Our Changing World (BLS) - 3cr.
- WILD5750 - Applied Remote Sensing - 3cr.

Open Electives

Complete the following as needed:
Total elective credit is determined by General Education courses taken, degree type selected, additional credits earned, and any additional math or other prerequisite courses needed. Please consult your Academic Advisor for details.

Additional Comments:

Certificates

For students interested in pursuing a certificate in conjunction with their bachelor's program, please see the requirements for the Interfaith Leadership Certificate - Certificate or Museum Studies - Institutional Certificate of Proficiency.

Additional Information

- The University Honors Program offers an unparalleled opportunity to enrich and deepen undergraduate education. Space is limited, and admission is competitive. Honors students enjoy many benefits, including personalized advising, exclusive access to research and study abroad funding, enhanced classroom experiences that also satisfy USU's General Education requirements, priority registration, and membership in a vibrant campus community of students and faculty. For more information about application requirements and deadlines, please visit the Honors website at honors.usu.edu, or speak with the Anthropology Honors Advisor, Professor Jacob Freeman.
- The course subdiscipline within Anthropology is identified by the second digit in the four-digit course number. Cultural Anthropology courses use a 1 (e.g., ANTH3160 ANTH OF RELIGION (DSS)), Biological Anthropology courses use a 2 (e.g., ANTH3200 PERSPECTIVES ON RACE (DSS)(CI)), and Archaeology courses use a 3 (e.g., ANTH3300 ARCHAEOLOGY NORTH AMER (DSS)).

Suggested Degree Maps

Degree Map Name
Suggested Degree Map - Anthropology BA, BS
Total Degree Map Credits
123 - 126
Degree Map Effective Catalog Year
2027 -

Degree Map Narrative

- Following is a sample four-year plan. Please note that student-specific plans may differ.
- Meet with an academic advisor to create a specific plan that best fits your academic needs.
- The student is ultimately responsible for knowing and completing all degree requirements.
- Make sure you meet the registration requirements for each class by clicking the course link and checking any prerequisites or corequisites.
- Consultation with an advisor may result in an altered plan customized for an individual student
- Check your Degree Works for requirements and completion.

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	18 - 19	0

Requirement Select

- Students require a 2.5 course GPA or better in all ANTH courses and elective courses. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- ANTH1010 - Cultural Anthropology (BSS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Bachelor's Degree)

Requirement Select

- ANTH1020 - Biological Anthropology (BLS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- ANTH1030 - World Archaeology (BSS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Communications Literacy (CL1) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Breadth Creative Arts (BCA) Course
  OR
- Breadth Humanities (BHU) Course
  OR
- Breadth American Institutions (BAI) Course
  OR
- Breadth Life Sciences (BLS) Course
  OR
- Breadth Physical Sciences (BPS) Course
  OR
- Breadth Social Sciences (BSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	15 - 17	0

Requirement Select

- Students require a 2.5 course GPA or better in STAT courses. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- STAT1040 - Introduction to Statistics (QL)
  OR
- STAT1045 - Introduction to Statistics with Elements with Algebra (QL)
  OR
- STAT1080 - Foundations of Data Science (QL)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 5
Progress Credits	-
Contact Hours	3 - 5
Clinical	-
Criticality	No

Requirement Select

- Breadth American Institutions (BAI) Course
  OR
- Breadth Creative Arts (BCA) Course
  OR
- Breadth Humanities (BHU) Course
  OR
- Breadth Life Sciences (BLS) Course
  OR
- Breadth Physical Sciences (BPS) Course
  OR
- Breadth Social Sciences (BSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Breadth American Institutions (BAI) Course
  OR
- Breadth American Institutions (BAI) Course
  OR
- Breadth Creative Arts (BCA) Course
  OR
- Breadth American Institutions (BAI) Course
  OR
- Breadth Physical Sciences (BPS) Course
  OR
- Breadth Humanities (BHU) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	15	0

Requirement Select

- Students require a 2.5 course GPA or better in all ANTH courses. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Communications Literacy (CL2) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- ANTH 2XXX/3XXX Upper-Division Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- ANTH 3XXX Upper-Division Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Breadth American Institutions (BAI) Course
  OR
- Breadth Creative Arts (BCA) Course
  OR
- Breadth Humanities (BHU) Course
  OR
- Breadth Life Sciences (BLS) Course
  OR
- Breadth Physical Sciences (BPS) Course
  OR
- Breadth Social Sciences (BSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- BS/BA Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	15	0

Requirement Select

- Students require a 2.5 course GPA or better in all ANTH courses. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- ANTH 2XXX Upper-Division Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- ANTH 3XXX Upper-Division Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- BS/BA Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Communications Intensive (CI) Courses

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Quantitative Intensive (QI) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Fall	15	0

Requirement Select
- Students require a 2.5 course GPA or better in all ANTH courses. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- ANTH 3XXX/4XXX Upper-Division Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- ANTH 4XXX Upper-Division Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Depth Humanities and Creative Arts (DHA) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Upper-Division Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Spring	15	0

Requirement Select
- Students require a 2.5 course GPA or better in all ANTH courses. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- ANTH4980 - History and Theories of Anthropology

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- ANTH 3XXX/4XXX Upper-Division Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Depth Life and Physical Sciences (DSC) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Fall	15	0

Requirement Select

- Students require a 2.5 course GPA or better in all ANTH courses. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- ANTH 4XXX/5XXX Upper-Division Methods (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Communications Intensive (CI) Courses

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Spring	15	0

Requirement Select

- Students require a 2.5 course GPA or better in all ANTH courses. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- ANTH 4XXX/5XXX Upper-Division Capstone (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Program Learning Outcomes

Program Learning Outcomes

https://www.usu.edu/oda/assessment/

Anthropology - MS

Program Overview

College	Department	Program Level
College of Arts & Sciences	School of Social Sciences	Graduate

About this Degree

USU offers a Master of Science (MS) degree in Archaeology and Cultural Resource Management. Our graduate students gain a personalized education focused on archaeological theory, quantitative methods and Cultural Resource Management (CRM) policy while gaining practical experience which leads directly to successful careers in CRM or further education in PhD programs.

The program is known for its explicitly scientific approach to archaeology. Theoretical perspectives trend toward those offering explanatory potential, such as human behavioral ecology, and faculty topical expertise includes paleoecology/climates, zooarchaeology, geoarchaeology, lithic analysis, and geospatial analysis/remote sensing. Our Archaeology and CRM geographic emphasis includes the mountains and deserts of the American West: southern Idaho, western Wyoming, western Colorado, Utah, Nevada and Montana.

Utah State University's Master of Science in Anthropology is an applied program enabling career advancement in the primary area of employment for archaeologists, Archaeology and Cultural Resource Management. CRM Archaeologists work for private, environmental consulting firms and government agencies, and our students consistently advance into these jobs from the USU graduate program. Our Anthropology MS degree also prepares students for research-based doctoral programs in Anthropology.

We educate and train graduate students who meet the standards of the Register of Professional Archaeologists and who will become project directors and principal investigators. Our core curriculum targets these goals and is supported by elective courses in various archaeological methods and geographic areas that reflect faculty expertise and facilitates student research. Students are mentored to become independent scholars who can design and conduct original research, qualities the CRM industry finds increasingly attractive.

Contacts

Graduate Program Directors: Dr. Judson Finley and Dr. Jacob Freeman

Graduate Program Coordinator: Megan Sills

Admission Requirements for this Program

The MS program in Anthropology admits students in Fall semesters only, with an application deadline of December 20 of the previous year. Admission Requirements include:

- Official transcript indicating a bachelor's degree in an accredited U.S. college or university or a similarly recognized international university.
- Three letters of recommendation from individuals familiar with the applicant's accomplishments and potential for success in graduate school.
- A statement of purpose (1-2 pages)
- A resume or CV
- Completion of Archaeological Field School (this may be indicated in Resume/CV)
- GRE scores may be provided but are not required
- International students must provide TOEFL or IELTS scores as proof of English proficiency

For additional information on admissions, please visit the School of Graduate Studies https://gradschool.usu.edu/admissions/

Program Requirements

Total Credits Required In Program Coursework	Total Credits Required To Earn This Credential
31-35	31-35

Simple Requisites

Program Requirements

SCHOOL OF GRADUATE STUDIES REQUIREMENTS

Degree Verification: A bachelor's degree from an accredited U. S. college or university or a similarly recognized international university is required for admission to and completion of a graduate program.

Course Number Acceptability: All courses applied to a graduate degree should be 6000-level or higher, but the sociology program will accept up to 6 credits of 5000-level courses.

Overall Graduate GPA at least 3.0 and no grades of C- or lower: Graduate students are required to maintain at least a 3. 0 GPA for degree-program courses. Grades of C- or lower will not be accepted for a graduate degree. Exceptions for grades below a B can be offered for a maximum of 6 credits, at the discretion of the supervisory committee.

Matriculation Start Semester: A master's degree must be completed within six years of entering the degree program. Additional time may be requested by the student's committee and submitted to the Vice Provost for Graduate Studies for review.

Coursework Validity: Coursework over eight years old at the time of degree completion may not be used for a graduate degree unless it is revalidated by the School of Graduate Studies.

Transfer Credits: We generally do not accept courses transferred from other graduate programs to count towards required credits in the MS program. However, with approval of the supervisory committee and graduate program director, a maximum of 6 transfer credits may be accepted.

Thesis Research Credits 6970: Plan A Students must complete a minimum of 6 credits of Thesis Research. Plan B Students must complete a minimum of 2 credits of Thesis Research.

Academic Forms: Completion of the MS degree requires the approval of the following forms by the School of Graduate Studies:

PLAN A

- Supervisory Committee
- Program of Study
- Thesis Proposal Approval
- Appointment for Exam
- Authorship & Copyright
- Format and Style
- Title Page
- Graduation Application

PLAN B

- Supervisory Committee
- Program of Study
- Thesis Proposal Approval
- Appointment for Exam
- Plan B Report/Creative Project Submission

- Graduation Application

Additionally, all MS degree students must complete Responsible Conduct of Research training prior to forming their supervisory committees.

MASTER OF SCIENCE IN ANTHROPOLOGY REQUIREMENTS

Completion of the degree requires 31-35 total credits (including a minimum of 6 credits of thesis research hours Plan A students and a minimum of 2-3 credits of thesis research hours for Plan B students) with a grade of B or higher.

All MS students write a Plan A thesis or prepare a Plan B project under the guidance of their advisor and supervisory committee. The master's thesis must be successfully defended before the supervisory committee and submitted to the library.

Section 1

Type
Completion Requirement

Core Courses (20 credits)

The core courses for the MS degree in Anthropology with a specialization in Archaeology and Cultural Resource Management include:

Complete ALL of the following Courses:

- ANTH6200 - Anthropological Perspectives on Conservation - 3cr.
- ANTH6340 - Archaeology of the Desert West - 3cr.
- ANTH6350 - Archaeological Theory - 3cr.
- ANTH6360 - Research Design and Quantitative Methods in Archaeology - 3cr.
- ANTH6370 - GIS in Archaeology - 3cr.
- ANTH6390 - Cultural Resources Management Policy - 3cr.
- ANTH6700 - Archaeology Internship - 2cr.

NOTE:

1. ANTH6370 GIS IN ARCHAEOLOGY - online

Section 2

Type
Completion Requirement

Method and Area (9 credits)

Earn at least 9 credits from the following:

- ANTH6110 - Southwest Indian Cultures, Past and Present - 3cr.
- ANTH6250 - Problems in Bioarchaeology - 3cr.
- ANTH6310 - Archaeology Lab - 1cr. (Inactive)
- ANTH6320 - Zooarchaeology - 3cr.
- ANTH6330 - Geoarchaeology - 3cr.
- ANTH6400 - Collections Management - 1cr.
- ANTH6410 - Writing for Archaeologists - 3cr.
- ANTH6420 - Lithic Analysis - 1cr.
- ANTH6430 - Archaeometry - 3cr.
- ANTH6900 - Independent Studies - 1cr.
- ANTH6950 - Archaeology Special Topics/Seminar - 1cr.
- GEO6120 - Advanced Geomorphology - 3cr. (Inactive)
- GEO6680 - Paleoclimatology - 3cr.

NOTE:

1. ANTH6420 LITHIC ANALYSIS - 3 credits required.

Section 3

Type
Completion Requirement

Thesis Preparation (3-6 credits)

Plan A students:

The Plan A option for a master's degree requires the preparation and defense of a thesis. Students are required to complete a minimum of 6 semester credits of thesis research (6970) with a maximum of 15 thesis credits applied toward a Program of Study.

Plan B students:

A Plan B option requires the production and defense of a paper or project, depending on the department and program. A minimum of two credits of thesis research (6970) are required, but no more than three thesis research credits can be included in an approved Program of Study. Some degree programs require creative project credits in addition to or in place of research.

Successful defense and submission of the thesis or dissertation to the library.

Required for all defense degrees:

Complete ALL of the following Courses:

- ANTH6970 - Thesis Research - 1cr.

Section 4

Type
Completion Requirement

Archaeology Field School

Complete ALL of the following Courses:

- ANTH6300 - Archaeology Field School - 6cr.

Please note: an approved field school or equivalent experience is required for admission as a matriculated student. Field school credits do not count toward the MS degree.

Additional Comments:

Certificate Options

Students can earn a certificate in the process of getting their master's degree. Below are the Post-Baccalaureate Certificate options that can be earned:

- Museum Administration and Collections Management - Post-Bachelor's Certificate
- Archaeological Data Analytics - Post-Bachelor's Certificate
- Cultural Resource Management Policy, Advocacy and Business Administration - Post-Bachelor's Certificate

Program Learning Outcomes

Program Learning Outcomes

https://chass.usu.edu/anthropology/assessments

Anticipatory Intelligence - Minor

Program Overview

College
College of Arts & Sciences

Department
College of Arts & Sciences

Program Level
Undergraduate

About this Degree

The Minor in Anticipatory Intelligence at Utah State University is the nation's first undergraduate program in the field of Anticipatory Intelligence. This 12-credit minor is designed to be completed in the junior and/or senior year and is built to complement majors across STEM disciplines, social sciences, humanities, and the arts. The Minor in Anticipatory Intelligence is structured to equip undergraduates with actionable hard and soft skills that have direct application into a wide range of professional tracks. Courses are taught at the 5000-level to prepare undergraduates to excel in graduate study and the professional workforce.

Undergraduates pursuing the Minor in Anticipatory Intelligence have the opportunity to gain a working understanding of the international, governmental, private sector, and individual security issues emerging across an expansive disciplinary spectrum that are affecting and will impact their major field of study and future profession. Anticipatory Intelligence courses train students to be active participants in cross-disciplinary and cross-domain collaboration and equip them to connect their primary disciplinary expertise to real-world problem solving on emergent security issues. The Minor in Anticipatory Intelligence offers strong value-added benefits for undergraduates interested in a wide range of future professions in the private sector, public service, nonprofit work, and academia.

Admission Requirements for this Program

In order to apply, applicants must:

- Be Juniors or Seniors by the start of the program
- Have a strong academic record (GPA 3.0+)
- The application package is available on the program website, https://www.usu.edu/cai/, and includes an application form with the name and contact information of a professor who can refer the student (a formal letter of recommendation is not required), a resume/CV, and cover letter.

Program Requirements

Total Credits Required In Program Coursework
12

Total Credits Required To Earn This Credential
12

Simple Requisites

Program Requirements

- Completion of 6 credits of required core courses
- Completion of 6 credits of elective courses in anticipatory intelligence
- A "C" grade or better in all courses
- Students seeking to pursue the Minor in Anticipatory Intelligence must apply for and be accepted into the program

Required Courses

Type
Completion Requirement

Required Foundations Course (3 credits)

Complete ALL of the following Courses:

- CAI5000 - Foundations of Anticipatory Intelligence - 3cr.

Required Methodologies Course (3 Credits)

Complete at least 1 of the following courses:

- CAI5010 - Dynamics of Disruptive Technology - 3cr.
- CAI5200 - Threats and Resilience in the Knowledge Century - 3cr.
- CAI5300 - Art and Science of Anticipation - 3cr.
- CAI5310 - Strategic Culture and Analytics - 3cr.

Elective Courses

Type
Completion Requirement

Elective Courses (6 credits)

Students must complete **6 credits** of approved elective courses. Any CAI-prefix course qualifies as an accepted elective. Courses from other departments that are offered in partnership with the Anticipatory Intelligence program may be individually approved as electives by a CAI academic advisor. In exceptional circumstances, a student may petition to use up to 3-6 credits of upper-division major courses directly relevant to the Anticipatory Intelligence curriculum as elective credits (petition must be approved by a CAI academic advisor).

Earn at least 6 credits from the following:

- CAI5010 - Dynamics of Disruptive Technology - 3cr.
- CAI5200 - Threats and Resilience in the Knowledge Century - 3cr.
- CAI5300 - Art and Science of Anticipation - 3cr.
- CAI5310 - Strategic Culture and Analytics - 3cr.
- CAI5400 - Ethics and Emerging Technology - 3cr.
- CAI5500 - Strategic Intelligence - 3cr.
- CAI5510 - Russian Security Affairs - 3cr.
- CAI5520 - Chinese Security Affairs - 3cr.
- CAI5530 - Weapons of Mass Destruction - 3cr.
- CAI5540 - Future Space Security - 3cr.
- CAI5600 - Biosecurity I - 3cr.
- CAI5620 - Food Security and Solutions - 3cr.
- CAI5630 - Water Security and Solutions - 3cr.
- CAI5880 - Critical Soft Skills - 3cr.
- CAI5890 - Special Topics in Anticipatory Intelligence - 1cr.
- CAI5900 - Directed Readings and Research - 1cr.
- CAI5910 - Public Sector Internship - 1cr.
- CAI5920 - Private Sector Internship - 1cr.
- CAI5940 - CAI Field Experience - 1cr.

Program Learning Outcomes

Program Learning Outcomes

https://www.usu.edu/oda/assessment/

Master of Anticipatory Intelligence - MAI

Program Overview

College	Department	Program Level
College of Arts & Sciences	College of Arts & Sciences	Graduate

About this Degree

USU's Center for Anticipatory Intelligence has led the pioneering effort in the US to establish the academic field of Anticipatory Intelligence: a multidomain approach to anticipating threats and opportunities emerging from the world's increasingly complex security environment, oriented around the goal of reducing uncertainty and designing resilience across future scenarios. The MAI operationalizes this academic field through an interdisciplinary, cross-college degree that integrates core coursework in Anticipatory Intelligence with one of four applied emphasis tracks: International Security, Cyber & Security Analytics, Biosecurity, or Geographic Information Sciences to equip graduates with a potent combination of analytic and applied skills, cross-trained competencies, and an actionable professional education fit for the security challenges of the twenty-first century. The design of this professional master's degree offers students significant curricular choice in order to deliver a tailored graduate experience.

Program Requirements

Total Credits Required In Program Coursework	Total Credits Required To Earn This Credential
33	33

Simple Requisites

Program Requirements

The Master of Anticipatory Intelligence program is a 33-credit professional degree with:

- a 12-credit required curriculum core
- 6 credits of elective courses in Anticipatory Intelligence
- a 3-credit graduate capstone project
- a 12-credit, hard-skill emphasis track facilitated in conjunction with partner departments.

Completion of the Master of Anticipatory Intelligence program is contingent on fulfillment of the following criteria:

· Completion of all required courses

· A "C" or higher passing grade in all courses,

· 21 of the total 33 credits completed at the 6000 level. The program of study for a master's degree cannot include more than 12 semester credits of courses at the 5000 level. Credits in the following areas are not acceptable in a degree program: foreign languages (unless included in an approved Program of Study), continuing graduate advisement, individual home study, military science, and courses numbered below 5000.

· A School of Graduate Studies-approved program of study from Utah State University.

Interested individuals from all programs of study and professional backgrounds are encouraged to apply. In order to apply, applicants must:

- have (or be about to graduate with) a bachelor's degree from an accredited university,
- have a strong academic record (minimum GPA of 3.0) – work experience of professional applicants will be weighed when reviewing application.
- Degree Verification: A bachelor's degree from an accredited U.S. college or university or a similarly recognized international university is required for admission to and completion of a graduate program. An official transcript must be sent directly to the School of Graduate Studies.

A graduate program **must be completed within six years of entering** the degree program. Additional time may be requested by the department and submitted to the Vice Provost of Graduate Studies for review.

Detailed information on the Master of Anticipatory Intelligence, including application requirements, dates regarding the annual application window, and guidance for prospective students is provided on the program website, cai.usu.edu. Applications require a personal statement, resume/CV, writing sample, official undergraduate transcripts, two (2) letters of recommendation, and payment of the USU SGS application fee.

Master of Anticipatory Intelligence - MAI

Type

Completion Requirement

Anticipatory Intelligence Required Courses (12 credits)

All MAI students must complete a **12 credit** required curriculum core that lays a strong foundation in the central principles and toolkits of Anticipatory Intelligence. The required core curriculum includes one foundations course (3 credits) , two methodologies courses (6 credits), and a soft skills course (3 credits).

Students who can demonstrate direct equivalency in undergraduate or previous graduate study may be able to petition to apply other MAI elective or emphasis courses to satisfy some curriculum core credits. Other course substitutions for the elective and emphasis requirements may be approved by an Anticipatory Intelligence academic advisor on an individual basis.

Fulfill ALL of the following requirements:

Required Courses

Complete ALL of the following Courses:

- CAI6000 - Foundations of Anticipatory Intelligence - 3cr.

AND

Required Courses

Complete at least 2 of the following courses:

- CAI6010 - Dynamics of Disruptive Technology - 3cr.
- CAI6200 - Threats and Resilience in the Knowledge Century - 3cr.
- CAI6300 - Art and Science of Anticipation - 3cr.
- CAI6310 - Strategic Culture and Analytics - 3cr.

AND

Durable Skills Course Requirement

Students must complete either CAI 5880: Critical Soft Skills or CAI 6890: (Special Topics) Durable Skills: Career Readiness

Complete ANY of the following Courses:

- CAI5880 - Critical Soft Skills - 3cr.
- CAI6890 - Special Topics in Anticipatory Intelligence - 1cr.

Anticipatory Intelligence Electives (6 credits)

MAI students must complete **6 credits** (at least two courses) of elective coursework which may include any CAI prefix courses or approved internships.

Important Note: Internship and directed readings courses are listed as variable credit (1-6), however only **3 credits of internship** and **3 credits of faculty-approved directed readings** may be applied toward the MAI. All internship or directed readings and research courses must be approved by a faculty advisor before registration.

Earn at least 6 credits from the following:

- CAI5880 - Critical Soft Skills - 3cr.
- CAI6010 - Dynamics of Disruptive Technology - 3cr.
- CAI6200 - Threats and Resilience in the Knowledge Century - 3cr.
- CAI6310 - Strategic Culture and Analytics - 3cr.
- CAI6900 - Directed Readings and Research - 1cr.
- CAI6910 - Public Sector Internship - 1cr.
- CAI6920 - Private Sector Internship - 1cr.
- CAI6940 - CAI Field Experience - 1cr.
- CAI6510 - Russian Security Affairs - 3cr.
- CAI6520 - Chinese Security Affairs - 3cr.
- CAI6530 - Weapons of Mass Destruction - 3cr.
- CAI6540 - Future Space Security - 3cr.
- CAI6600 - Biosecurity I - 3cr.
- CAI6620 - Food Security and Solutions - 3cr.
- CAI6630 - Water Security and Solutions - 3cr.
- CAI5500 - Strategic Intelligence - 3cr.
- CAI6890 - Special Topics in Anticipatory Intelligence - 1cr.

Graduate Capstone Project (3 credits)

All MAI students must complete a tailored **3 credit** capstone project building on their core coursework.

Wide parameters of creativity, innovation, and flexibility are built into the capstone project, but two requirements must be met: 1) the project must leverage at least one key tool or substantive issue area in the Anticipatory Intelligence domain, and 2) the project must be designed and conducted by the student in partnership with an external public sector or industry partner. MAI students should not begin their capstone project until they have completed both CAI 6000 and one of the CAI methods courses (CAI 6010, CAI 6200, CAI 6300, or CAI 6310).

Complete ALL of the following Courses:

- CAI6990 - Graduate Capstone Experience - 3cr.

International Security Emphasis

Type
Completion Requirement

International Security Emphasis (12 credits)

Students electing to complete the International Security track may select any **12 credits** from the courses listed to complete this emphasis (co-facilitated with the Department of Political Science). Other relevant 5/6000-level POLS electives may be approved on an individual basis by an Anticipatory Intelligence academic advisor.

Earn at least 12 credits from the following:

- CAI5500 - Strategic Intelligence - 3cr.
- CAI6310 - Strategic Culture and Analytics - 3cr.
- CAI6510 - Russian Security Affairs - 3cr.
- CAI6520 - Chinese Security Affairs - 3cr.
- CAI6530 - Weapons of Mass Destruction - 3cr.
- CAI6540 - Future Space Security - 3cr.
- CAI6890 - Special Topics in Anticipatory Intelligence - 1cr.
- POLS5140 - Law, Politics, and War - 3cr.
- POLS6210 - International Security - 3cr.
- POLS6230 - Terrorism and Counter-Terrorism - 3cr.
- POLS6400 - United States Foreign Policy - 3cr.

Cyber & Security Analytics Emphasis

Type
Completion Requirement

Cyber & Security Analytics Emphasis (12 credits)

Students electing to complete the Cyber & Security Analytics track may select any one of the three **12 credit** certificate block options listed below (facilitated by the Department of Data Analytics and Information Systems) to complete the emphasis: the Data Technologies certificate, the Cybersecurity certificate, or the Data Analytics certificate. In accordance with USU Registrar's Office policy, a post-baccalaureate certificate may be earned concurrently with this MAI emphasis.

Complete at least 1 of the following programs:

- DATE_PBC - Data Technologies - Post-Bachelor's Certificate
- CYSE_PBC - Cybersecurity - Post- Bachelor's Certificate
- ARDA_PBC - Archaeological Data Analytics - Post-Bachelor's Certificate

Biosecurity Emphasis

Type
Completion Requirement

Biosecurity Emphasis (12 credits)

Students electing to complete the Biosecurity track must take **3 credits** of required coursework and may select any further **9 credits** from the courses listed to complete the emphasis. Other relevant electives offered through the Center for Anticipatory Intelligence or other partner departments may be approved on an individual basis by an Anticipatory Intelligence academic advisor.

Fulfill ALL of the following requirements:

Required Courses (3 credits)

Complete ALL of the following Courses:

- CAI6600 - Biosecurity I - 3cr.

AND

Biosecurity Emphasis Elective Courses

Earn at least 9 credits from the following:

- CAI6620 - Food Security and Solutions - 3cr.
- CAI6630 - Water Security and Solutions - 3cr.
- ASTE4215 - Community Programming and Evaluation - 3cr.
- CAI6890 - Special Topics in Anticipatory Intelligence - 1cr.

GIS Natural Resources Emphasis

Type
Completion Requirement

GIS Natural Resources Emphasis (12 credits)

Students electing to complete the Geographic Information Science track may select any **12 credits** from the courses listed to complete the emphasis (facilitated by partner departments in the S.J. and Jessie E. Quinney College of Natural Resources). In accordance with USU Registrar's Office policy, a post-baccalaureate certificate may be earned concurrently with this MAI emphasis. Note that NR-prefix courses are offered as online courses, while all other prefixes are taught as in-person courses on the USU Logan campus.

Fulfill ANY of the following requirements:

Required Courses

Earn at least 12 credits from the following:

- NR6910 - Geographic Information Systems for Natural Resource Applications - 3cr.
- NR6930 - Advanced GIS for Natural Resource Applications - 3cr.
- NR6940 - Principles of Remote Sensing of Natural Resources - 3cr.
- NR6950 - Geospatial Analysis for Natural Resource Management - 3cr.
- NR6960 - Python Programming for GIS - 3cr.

OR

In-person Variants

Earn at least 12 credits from the following:

- GEOG6300 - Geospatial Analysis with R - 3cr.
- GEOG6500 - Advanced Geographic Information Sciences (GIS) - 3cr.
- WILD6750 - Applied Remote Sensing - 3cr.
- WILD6920 - Python Programming For GIS - 3cr.

Program Learning Outcomes

Program Learning Outcomes

https://chass.usu.edu/assessments/

Anticipatory Intelligence - Post-Bachelor's Certificate

Program Overview

College	Department	Program Level
College of Arts & Sciences	College of Arts & Sciences	Graduate

About this Degree

The Post-Bachelor's Certificate in Anticipatory Intelligence at Utah State University is part of the nation's first graduate program in Anticipatory Intelligence. This compact 15-credit certificate is designed to be completed with part-time study across one or two years and is built to complement career tracks or other graduate degrees across a wide range of STEM disciplines, social sciences, humanities, and arts. Its purpose is to equip graduate students and professionals with a sophisticated grasp of how the world's fast-evolving forces in cyber, big data, artificial intelligence, bioengineering, climate change, information metastasis, societal cohesion, and other domains are converging into transformative threats and opportunities for the twenty-first century.

The Post-Bachelor's Certificate in Anticipatory Intelligence prepares graduate students and professionals with actionable hard and soft skills in systems-level thinking and emergent security challenges, as well as sophistication in interdisciplinary analysis, synthesis, and cross-domain collaboration relating to the complex security issues affecting their own professional field. This curriculum offers strong value-added benefit for individuals pursuing a wide range of professions in the private sector, public service, nonprofit work, and academia.

Admission Requirements for this Program

Detailed information on the Post-Bachelor's Certificate in Anticipatory Intelligence, including application requirements, annual application window, and guidance for prospective students is provided on the program website, cai.usu.edu. Applications require a personal statement, resume/CV, writing sample, official undergraduate transcripts, two (2) letters of recommendation, and payment of the USU SGS application fee. This certificate must be completed within six years of entering the degree program. Additional time may be requested by the department and submitted to the Vice Provost of Graduate Studies for review.

Interested individuals from all programs of study and professional backgrounds are encouraged to apply. In order to **apply**, applicants must:

- have (or be about to graduate with) a bachelor's degree from an accredited university,
- have a strong academic record (minimum GPA of 3.0) – work experience of professional applicants will be weighed during application review.

Program Requirements

Total Credits Required In Program Coursework	Total Credits Required To Earn This Credential
15	15

Simple Requisites

Program Requirements

Completion of the CAI Post-Bachelor's is contingent on fulfillment of the following criteria:

- completion of 9 credits of required courses,
- completion of 6 credits of approved elective courses,
- a "C" grade or better in all classes.

This certificate must be **completed within six years of entering** the degree program. Additional time may be requested by the department and submitted to the Vice Provost of Graduate Studies for review.

Additional Information

A grade of C or better is required in all coursework taken to fulfill certificate requirements.

Anticipatory Intelligence - Post-Bachelor's Certificate

Type
Completion Requirement

Required Courses (9 credits)

All students must complete 9 credits of required core coursework: two foundations courses and a graduate capstone project:

Fulfill ALL of the following requirements:

Required Courses

Earn a minimum grade of C in the following:

- CAI6000 - Foundations of Anticipatory Intelligence - 3cr.
- CAI6990 - Graduate Capstone Experience - 3cr.

AND

Required Courses

Minimum C grade is required.

Complete at least 1 of the following courses:

- CAI6010 - Dynamics of Disruptive Technology - 3cr.
- CAI6200 - Threats and Resilience in the Knowledge Century - 3cr.
- CAI6300 - Art and Science of Anticipation - 3cr.
- CAI6310 - Strategic Culture and Analytics - 3cr.

Elective Courses (6 credits)

Students must complete 6 credits of approved elective coursework with a minimum C grade. Any CAI-prefix course qualifies as an accepted elective. Courses from other departments that are offered in partnership with the Anticipatory Intelligence program can be approved as electives by a CAI academic advisor. In exceptional circumstances, a student also enrolled in a USU graduate degree program may petition to use a program course directly relevant to the Anticipatory Intelligence curriculum as an elective (petition must be approved by a CAI academic advisor).

Earn at least 6 credits from the following:

- CAI5500 - Strategic Intelligence - 3cr.
- CAI5880 - Critical Soft Skills - 3cr.
- CAI6010 - Dynamics of Disruptive Technology - 3cr.
- CAI6200 - Threats and Resilience in the Knowledge Century - 3cr.
- CAI6300 - Art and Science of Anticipation - 3cr.
- CAI6310 - Strategic Culture and Analytics - 3cr.
- CAI6400 - Ethics and Emerging Technology - 3cr.
- CAI6510 - Russian Security Affairs - 3cr.
- CAI6520 - Chinese Security Affairs - 3cr.
- CAI6530 - Weapons of Mass Destruction - 3cr.
- CAI6540 - Future Space Security - 3cr.
- CAI6600 - Biosecurity I - 3cr.
- CAI6620 - Food Security and Solutions - 3cr.
- CAI6630 - Water Security and Solutions - 3cr.
- CAI6890 - Special Topics in Anticipatory Intelligence - 1cr.
- CAI6900 - Directed Readings and Research - 1cr.
- CAI6910 - Public Sector Internship - 1cr.
- CAI6920 - Private Sector Internship - 1cr.
- CAI6940 - CAI Field Experience - 1cr.

Program Learning Outcomes

Program Learning Outcomes

https://chass.usu.edu/assessments/

Agricultural Production and Automated Processing Technology - AAS

Program Overview

College
College of Agriculture & Natural Resources

Department
Applied Sciences, Technology and Education

Program Level
Undergraduate

About this Degree

Students may bring up to 30 credits from applicable technical certificate courses taken after July 1, 2023 toward an Associate of Applied Science (AAS) degree in Agricultural Production and Automated Processing. Certificates from the Utah System of Technical Colleges which include Automation Technology, Diesel Technology, Electronics Technology, Machining Technology, and Welding Technology are recommended.

To learn more students should consult with the program's academic advisor.

The Associate of Applied Science degree (AAS) in Agricultural Production and Automated Processing degree offers a solid foundation for establishing a rewarding career within the agricultural production and processing industry through hands-on practical training in equipment management, testing, diagnosis, and retailing of agricultural production and automation processing technologies. Course work encompasses applied engineering, troubleshooting, operation and maintenance of agricultural production and processing equipment. As an integral part of their training, students may complete an occupational experience or an internship in the industry. Students completing the AAS in Agricultural Production and Automated Processing Technology may stack credits into a Bachelor of Science degree in Agricultural Systems Technology.

Admission Requirements for this Program

Students are admitted into this program through the university's regular admission process.

1. New freshmen admitted to USU in good standing qualify for admission to this major.

2. Transfer students from other institutions and from other USU majors need a 2.20 overall GPA for admission to this major in good standing.

3. Students who have completed a 900+ hour certificate or a credit-based program at a Utah Technical College may apply to USU for admission to this program.

For additional information, or to complete an online application, visit: usu.edu/admissions/applyonline/.

Program Requirements

Total Credits Required In Program Coursework
63

Total Credits Required To Earn This Credential
63

Simple Requisites

Program Requirements

A student will complete 15-17 credits of general education, including one course in English composition, a math course, and nine credits of breadth area courses (humanities or social science, physical science or life science, and American Institutions). There are two business core classes that all students will take. In addition, the student will complete an emphasis area (usually 11-12 credits). The remainder of the student's credits will be made up of transfer credits from a Utah Technical College or accumulated 30 technical credits from an accredited institution or a combination of both. The minimum number of credits needed for the AAS degree is 63.

Students should work closely with an advisor to select courses to complete the requirements for this degree. The basic requirements are listed below. Students should not apply for graduation if they have never met with the advisor or their application may be denied.

A student must have an overall GPA of at least 2.0 in order to graduate.

Required Courses

Type
Completion Requirement

Breadth Requirement

Complete ALL of the following Courses:
- APEC1600 - Natural Resources and American Economic Institutions (BAI) - 3cr.
- PSC2010 - Soils, Waters, and the Environment (BPS) - 3cr.

Required Courses

Complete ALL of the following Courses:
- ENGL1010 - Writing as Inquiry (CL1) - 3cr.
- MATH1050 - College Algebra (QL) - 4cr.

Students must complete MATH1050 COLLEGE ALGEBRA (QL) or any Quantitative Literacy course of their choice.

Students must complete ENGL1010 WRITING AS INQUIRY (CL1) or any Communications Literacy I course of their choice.

Professional Communication Core Requirements

Complete ALL of the following Courses:
- ASTE2900 - Food Matters: Ethics, Economics, and the Environment (BSS) - 3cr.
- ASTE3050 - Technical and Professional Communication Principles (CI) - 3cr.

Emphasis Area Requirements

Students must complete ASTE 1010 (3 credits) and chose 6 additional credits from the following courses for a total of 9 credits:

Earn at least 9 credits from the following:
- ASTE1110 - Equipment Safety for Agriculture and Natural Resources - 2cr.
- ASTE1130 - Agricultural Machinery Systems: Planting, Tillage, and Harvest Technologies - 3cr.
- ASTE1610 - Agricultural and Construction Machinery Power - 4cr.
- ASTE1640 - Introduction to Welding - 3cr.
- ASTE2250 - Occupational Experience in Agriculture - 1cr.
- ASTE2930 - Individualized Projects in Agriculture Mechanics - 1cr.
- TESY1200 - Computer-Aided Drafting and Design - 3cr.

Emphasis Area Electives

Students must take a minimum of 3 credits from the following courses:

Earn at least 3 credits from the following:
- ASTE3720 - Electrical Power Systems for Agricultural Applications - 4cr.
- ADVS1110 - Introduction to Animal Science (BLS) - 3cr.
- ADVS2080 - Beef Production Practices - 3cr.
- PSC1800 - Introduction to Horticulture (BLS) - 3cr.
- PSC2200 - Pesticide Certification - 2cr.
- NDFS1250 - Sanitation and Safety - 3cr.

- NDFS2040 - Fundamentals of Food Processing - 3cr.
- NDFS1063 - Product Development in Chocolate - 3cr.

Technical Specialty and Institution (30 credits)

The remainder of the student's credits will be made up of transfer credits from a Utah Technical College or accumulated 30 technical credits from an accredited institution or a combination of both. New freshman admitted to the program may fulfill the 30 technical credits with USU certificates and minors relevant to the degree, please work with your academic advisor in selecting electives.

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Associate Degrees)

Suggested Degree Maps

Degree Map Name
Suggested Degree Map: Agricultural Production and Automated Processing - AAS
Total Degree Map Credits
34
Degree Map Effective Catalog Year
2027 -

Degree Map Narrative

- Following is a sample two-year plan. Please note that student-specific plans may differ.
- Meet with an academic advisor to create a specific plan that best fits your academic needs.
- The student is ultimately responsible for knowing and completing all degree requirements.
- Consultation with an advisor may result in an altered plan customized for an individual student.
- Check your Degree Works for requirements and completion.

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	0	0

Requirement Select

- It is recommended that students have either obtained a Utah Technical College Certificate or accumulated 30 technical credits from an accredited institution. Admission may be granted to those with 30 prior USU technical credits, subject to advisor approval, or for those intending to fulfill 30 technical electives as part of their academic plan. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	18	0

Requirement Select

- ENGL1010 - Writing as Inquiry (CL1)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- APEC1600 - Natural Resources and American Economic Institutions (BAI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Breadth Humanities (BHU) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- ASTE2900 - Food Matters: Ethics, Economics, and the Environment (BSS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits

Requirement Select
- Designated Elective (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Designated Elective (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Designated Elective (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	16	0

Requirement Select
- ASTE3050 - Technical and Professional Communication Principles (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- PSC2010 - Soils, Waters, and the Environment (BPS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Quantitative Literacy (QL) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Designated Elective (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Designated Elective (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	Total Major Credits
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Program Learning Outcomes

Program Learning Outcomes
https://agnr.usu.edu/aste/assessment/

Applied Economics - Minor

Program Overview

College
College of Agriculture & Natural Resources

Department
Applied Economics

Program Level
Undergraduate

Program Requirements

Total Credits Required To Earn This Credential
15

Simple Requisites

Program Requirements

To graduate with a minor in Applied Economics, a student must have an overall GPA of 2.5 or higher.

Section 1

Type
Completion Requirement

A minimum of 9 credits of Applied Economics courses must be taken, including the following courses:

Complete ALL of the following Courses:

- APEC2010 - Introduction to Microeconomics (BSS) - 3cr.
- APEC3310 - Analytical Methods in Applied Economics (QI) - 3cr.
- APEC4010 - Intermediate Microeconomics - 3cr.

Select the balance of credits from the following courses:

Complete ANY of the following Courses:

- APEC5000 - International Trade and Finance - 3cr.
- APEC5010 - Firm Marketing and Price Analysis (QI) - 3cr.
- APEC5015 - Applied Economics for Decision Making (QI) - 3cr.
- APEC5020 - Strategic Firm Management (CI) - 3cr.
- APEC5560 - Natural Resource and Environmental Economics - 3cr.
- APEC5700 - Regional and Community Economic Development - 3cr.

Program Learning Outcomes

Program Learning Outcomes
https://caas.usu.edu/apec/assessment

Applied Economics - BS

Program Overview

College
College of Agriculture & Natural Resources

Department
Applied Economics

Program Level
Undergraduate

About this Degree
The Applied Economics major emphasizes the development of quantitative skills in and a deeper understanding of economic theory, with practical applications to societal problems. The degree is designed with flexibility for students to specialize in energy, law and policy, water and natural resources, environmental management, or quantitative analysis. While this program provides a solid base for individuals desirous of careers in the public or private sector, it is also an excellent preparation for graduate studies in economics, agricultural economics, natural resources, business, or law. The Applied Economics degree provides an excellent background for work in federal, state, and local government, as well as in the private sector. Graduates of this program are now working in positions involving the analysis of prices and markets, preparation of economic feasibility studies, and preparing economic forecasts.

- For more information about Applied Economics, see the website.
- Admitted and current students must meet with an advisor.
- Log on to Degree Works to check student-specific program progress.
- The highest math requirement for this degree is STAT2000 STATISTICAL METHODS (QI)

Admission Requirements for this Program
- New freshmen: Admitted to USU in Good Standing
- Transfer students from other institutions or other programs at USU: 2.5 GPA

Program Requirements

Total Credits Required In Program Coursework
63-64

Total Credits Required To Earn This Credential
120

Simple Requisites

Program Requirements

To graduate with a major in Applied Economics, a student must have an major GPA of 2.5 or higher.

Note: The regular calculus series (MATH1210 CALCULUS I (QL) and MATH1220 CALCULUS II (QL)) is recommended for students contemplating graduate studies in economics.

Several of the required courses listed for this major will meet general education and university studies requirements. For more detailed information about courses and the recommended sequence for taking them, see the APEC academic advisor, Abby Macbeth abby.macbeth@usu.edu 435-797-0454.

Applied Economics - BS Required Courses

Type
Completion Requirement

Required Courses (63-64 credits)

All courses required for the Applied Economics major should be taken for a letter grade. Students must earn a grade of C or better in each course. A minimum GPA of 2.5 is required for all courses taken to complete major requirements.

Complete ALL of the following Courses:

- APEC2010 - Introduction to Microeconomics (BSS) - 3cr.
  OR ECON2010 - Introduction to Microeconomics (BSS) - 3cr.
- APEC2900 - Agricultural and Natural Resource Law - 3cr.
  OR BUSN2050 - Business Law - 3cr.
- ACCT2010 - Financial Accounting Principles - 3cr.
- APEC1600 - Natural Resources and American Economic Institutions (BAI) - 3cr.
- APEC2500 - Commodity Futures and Options Trading and Analysis - 3cr.
- APEC3012 - Introduction to Natural Resource Economics (DSS) - 3cr.
- APEC3310 - Analytical Methods in Applied Economics (QI) - 3cr.
- APEC4010 - Intermediate Microeconomics - 3cr.
- APEC5015 - Applied Economics for Decision Making (QI) - 3cr.
- APEC5330 - Applied Econometrics (QI) - 3cr.
- APEC5560 - Natural Resource and Environmental Economics - 3cr.
- APEC5950 - Applied Economics Policy Analysis - 3cr.
- MATH1050 - College Algebra (QL) - 4cr.
- STAT2000 - Statistical Methods (QI) - 4cr.
- ASTE3050 - Technical and Professional Communication Principles (CI) - 3cr.
  OR BUS3200 - Professional Communication with AI (CI) - 3cr.
  OR ENGR3080 - Creativity and Communication in Design (CI) - 3cr.
- GEOG2800 - Introduction to Geographic Information Sciences - 4cr.
- LAEP5300 - GIS for Environmental Planning - 4cr.
- MATH1100 - Calculus Techniques (QL) - 3cr.
  OR MATH1210 - Calculus I (QL) - 4cr.

- **And 9 additional credits of courses with the APEC, ECON, or FIN prefix in the 3000-5000 level.**

Suggested Areas of Specialization

The B.S. Applied Economics degree is designed with several free elective courses. Below are some suggested areas of specialization that would complement the degree and give students some very marketable skill sets. It is suggested that students take a minimum of four courses from an area to achieve an adequate level of competency. There are also minors that can be obtained in most of these areas. Students should check with their advisor for a list of minors that would also be complementary to the Applied Economics degree and to these areas of specializations.

Fulfill ANY of the following requirements:

Community Development Economics

Complete ALL of the following Courses:

- LAEP1040 - Introduction to Environmental Planning and Sustainable Development (BLS) - 3cr.
- LAEP5300 - GIS for Environmental Planning - 4cr.
- LAEP5370 - City and Regional Planning (CI) - 3cr.

OR

Law and Policy

Complete ALL of the following Courses:

- APEC2900 - Agricultural and Natural Resource Law - 3cr.
- ECON3550 - Law and Economics - 3cr.
- ENVS5300 - Natural Resources Law and Policy - 2cr.
- POLS5130 - Law and Policy - 3cr.
- WILD4550 - Wildlife Law Enforcement - 3cr.

OR

Environmental Management

Complete ALL of the following Courses:

- ENVS4000 - Human Dimensions of Natural Resource Management (DSS) - 3cr.
- ENVS4130 - Natural Resource Recreation Policy and Planning - 3cr.
- ENVS4500 - Advanced Natural Resource Recreation Management (CI) - 3cr.
- ENVS5550 - Sustainability: Concepts and Measurement - 3cr.
- WILD4000 - Principles of Rangeland Management - 3cr.
- WILD4600 - Conservation Biology - 3cr.
- WILD4700 - Ecological Foundations of Restoration - 3cr.

Open Electives

Complete the following as needed:
Total elective credit is determined by General Education courses taken, degree type selected, additional credits earned, and any additional math or other prerequisite courses needed. Please consult your Academic Advisor for details.

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Bachelor's Degree)

Suggested Degree Maps

Degree Map Name
Suggested Degree Map - Applied Economics, BS
Total Degree Map Credits
120
Degree Map Effective Catalog Year
2027 -

Degree Map Narrative

- Following is a sample four-year plan. Please note that student-specific plans may differ.
- Meet with an academic advisor to create a specific plan that best fits your academic needs.
- The student is ultimately responsible for knowing and completing all degree requirements.
- Make sure you meet the registration requirements for each class by clicking the course link and checking any prerequisites or corequisites.
- Consultation with an advisor may result in an altered plan customized for an individual student.
- Check your Degree Works for requirements and completion.

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	15	0

Requirement Select
- APEC1600 - Natural Resources and American Economic Institutions (BAI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Communications Literacy (CL1) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- MATH1050 - College Algebra (QL)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- Breadth Creative Arts (BCA) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Electives (2 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	15	0

Requirement Select
- APEC2010 - Introduction to Microeconomics (BSS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Communications Literacy (CL2) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- MATH1100 - Calculus Techniques (QL)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Breadth Life Sciences (BLS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- General Elective Course (2 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	15	0

Requirement Select

- ACCT2010 - Financial Accounting Principles

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- APEC2500 - Commodity Futures and Options Trading and Analysis

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- STAT2000 - Statistical Methods (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- GEOG2800 - Introduction to Geographic Information Sciences
  OR
- WILD2800 - Introduction to Geographic Information Sciences
  OR
- LAEP5300 - GIS for Environmental Planning

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- General Elective Course (1 credit) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	15	0

Requirement Select

- BUSN2050 - Business Law
  OR
- APEC2900 - Agricultural and Natural Resource Law

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Breadth Humanities (BHU) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Breadth Physical Sciences (BPS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Electives (6 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Fall	15	0

Requirement Select

- APEC3012 - Introduction to Natural Resource Economics (DSS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- APEC4010 - Intermediate Microeconomics

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- APEC3310 - Analytical Methods in Applied Economics (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- APEC4310 - Agribusiness Finance

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Elective Course (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Spring	15	0

Requirement Select
- APEC5560 - Natural Resource and Environmental Economics

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- APEC5950 - Applied Economics Policy Analysis

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- ASTE3050 - Technical and Professional Communication Principles (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Depth Life and Physical Sciences (DSC) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Upper-Division APEC, ECON or FIN Elective Course (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Fall	15	0

Requirement Select
- APEC5330 - Applied Econometrics (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Upper-Division APEC, ECON or FIN Elective Course (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- General Elective Courses (9 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	9
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Spring	15	0

Requirement Select

- Depth Humanities and Creative Arts (DHA) Course
  OR
- Communications Intensive (CI) Courses

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- General Elective Courses (9 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	9
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Upper-Division APEC, ECON, or FIN elective (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	Total Major Credits
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Program Learning Outcomes

Program Learning Outcomes

https://www.usu.edu/oda/assessment/

Master of Applied Economics - MAE

Program Overview

College
College of Agriculture & Natural Resources

Department
Applied Economics

Program Level
Graduate

Program Requirements

Total Credits Required In Program Coursework
30

Total Credits Required To Earn This Credential
30

Simple Requisites

Program Requirements

Applied Economics - MAE Course Requirements

Type
Completion Requirement

Required Core Courses (12 credits)

Earn at least 12 credits from the following:

- APEC5000 - International Trade and Finance - 3cr.
  OR ECON5560 - Topics in Advanced Macroeconomics - 3cr.
- APEC6100 - Microeconomic Theory I - 3cr.
  OR APEC7130 - Microeconomic Theory I - 3cr.
- APEC6300 - Quantitative Analysis for Business and Policy Decisions - 3cr.
  OR APEC7350 - Mathematical Economics I - 3cr.
- APEC6330 - Applied Econometrics - 3cr.
  OR APEC7310 - Econometrics I - 3cr.

Elective Courses (21 credits)

Students select a minimum of 9 credits from the following courses:

Earn at least 9 credits from the following:

- APEC6030 - Agricultural Marketing - 3cr.
- APEC6040 - Production Economics, Applied Risk Analysis and Simulation - 3cr.
- APEC6500 - Introduction to Natural Resource Economics - 3cr.
- APEC6510 - Introduction to Environmental Economics - 3cr.
- APEC6700 - Regional and Community Economic Development - 3cr.
- APEC6710 - Frontiers in Agribusiness - 3cr.
- APEC7140 - Microeconomic Theory II - 3cr.
- APEC7320 - Econometrics II - 3cr.
- APEC7360 - Mathematical Economics II - 3cr.

Other Elective Courses

Students select a maximum of 12 credits of courses from other departments. These must be approved by the students committee.

Program Learning Outcomes

Program Learning Outcomes
https://agnr.usu.edu/apec/assessment

Applied Economics - MS

Program Overview

College
College of Agriculture & Natural Resources

Department
Applied Economics

Program Level
Graduate

About this Degree
The master's degree in applied economics is a preparatory degree for students wishing to do applied work in areas where economics is the focus of the career.

This is an applied degree as opposed to a research degree, meaning students receive the education necessary to enter the workforce in economic programs, or work as consultants in government areas, nonprofits, and private sectors.

Admission Requirements for this Program
B.S./B.A. in Agribusiness, Agricultural Economics, Applied Economics, Economics, Environmental/Natural Resource Economics, or a closely related degree.

Or at a minimum evidence of the following coursework:

- Microeconomic principles
- Calculus
- Basic Statistics
- Intermediate/Managerial Microeconomics or comparable course

Program Requirements

Total Credits Required In Program Coursework
30

Total Credits Required To Earn This Credential
30

Simple Requisites

Program Requirements

Degree Verification

A bachelor's degree from an accredited U.S. college or university or a similarly recognized international university is required for admission to and completion of a graduate program.

Overall Graduate GPA at least 3.0 and no grades of C- or lower; Graduate students are required to maintain at least a 3.0 GPA for degree-program courses. Grades of C- or lower will not be accepted for a graduate degree.

Course Number Acceptability
The Program of Study for a master's degree must include at least 18 semester credits at the level of 6000 or above.

Courses numbered 5000-5990 are advanced, upper-division courses and a maximum of 12 credits can be used towards a master's degree.

Credits in the following areas are not acceptable in a degree program: foreign languages (unless included in an approved Program of Study), continuing graduate advisement, individual home study, military science, courses numbered below 5000.

Matriculation Start Semester
A master's degree must be completed within six years of entering the degree program. Additional time may be requested by the student's committee and submitted to the Vice Provost of Graduate Studies for review.

Coursework Validity
Coursework over eight years old at the time of degree completion may not be used for a graduate degree unless it is revalidated by the Vice Provost of Graduate Studies.

Master's Plan A students:
The Plan A option requires the preparation and defense of a thesis. Students are required to complete a minimum of 6 credits of thesis research (APEC 6970) for a Program of Study.

Master's Plan B students:
The Plan B option requires the production and defense of a paper or project. Students are required to complete a minimum of 2 credits of thesis research (APEC 6970) with a maximum of 3 thesis research credits applied toward a Program of Study.

Master's forms: Approval of the following academic forms is required for master's students by the School of Graduate Studies (SGS):

- Supervisory Committee form
- Program of Study
- Thesis/Project Approval
- Appointment for Examination
- Record of Examination
- SGS and library review and approval (Plan A)
- Library review and approval (Plan B)

Applied Economics - MS Course Requirements

Type
Completion Requirement

Applied Core:

These courses are required to earn the MS in Applied Economics

Complete ALL of the following Courses:

- APEC6100 - Microeconomic Theory I - 3cr.
- APEC6300 - Quantitative Analysis for Business and Policy Decisions - 3cr.
- APEC6330 - Applied Econometrics - 3cr.

(2) Complete a Specialization in: Agricultural Economics, Natural Resource Economics, or Regional Economic Development. Climate Adaptation Science is also available (https://www.usu.edu/climate-adaptation/)

Fulfill ANY of the following requirements:

(a) Agricultural Economics Specialization

Fulfill ALL of the following requirements:

(a) Agricultural Economics:

Complete ALL of the following Courses:

- APEC6030 - Agricultural Marketing - 3cr.
- APEC6040 - Production Economics, Applied Risk Analysis and Simulation - 3cr.

AND

Choose 9 (Plan A) or 12 (Plan B) credits from the following:

Complete ANY of the following Courses:

- ASTE6200 - Principles and Practices of Extension Education - 3cr.
- ASTE6260 - Environmental Impacts of Agricultural Systems - 3cr.
- ECON6310 - Economics for Decision Making - 2cr.
- MSLE6410 - Enterprise and Value Creation - 3cr.
- MSLE6430 - Enterprise Growth and Management - 2cr.
- MSLE6520 - Enterprise Brand and Marketing - 3cr.
- NDFS6510 - Food Laws and Regulations - 3cr.
- Any APEC 5000-7000 level courses as approved by your committee (**3-12 credits)**

OR

(b) Natural Resource Economics Specialization

Fulfill ALL of the following requirements:

(b) Natural Resource Economics:

Complete ALL of the following Courses:

- APEC6500 - Introduction to Natural Resource Economics - 3cr.
- APEC6510 - Introduction to Environmental Economics - 3cr.

AND

Choose 9 (Plan A) or 12 (Plan B) credits from the following:

Complete ANY of the following Courses:

- ENVS5300 - Natural Resources Law and Policy - 2cr.
- ENVS6320 - Water Law and Policy in the United States - 3cr.
- ENVS6530 - Natural Resources Administration - 3cr.
- SOC6620 - Environment, Technology, and Social Change - 3cr.
- SOC6630 - Social and Community Dimensions of Natural Resources - 3cr.

OR

(c) Regional Economic Development Specialization

Fulfill ALL of the following requirements:

(c) Regional Economic Development:

Complete ALL of the following Courses:

- APEC6700 - Regional and Community Economic Development - 3cr.
- APEC6710 - Frontiers in Agribusiness - 3cr.

AND

Choose 9 (Plan A) or 12 (Plan B) credits from the following:

Complete ANY of the following Courses:

- POLS6020 - Public Policy Analysis - 3cr.
- POLS6040 - Public Choice - 3cr.
- SOC6450 - Theories and Methods in Medical Sociology - 3cr.
- SOC6650 - Developing Societies - 3cr.
- SOC6700 - Advanced Rural Sociology - 3cr.
- SOC6720 - Applied Community Development - 3cr.

(3) Submit and orally defend a thesis (Plan A) or research report (Plan B)

Complete (6 credits-Plan A) or (3 credits-Plan B)

Complete ALL of the following Courses:

- APEC6970 - Thesis Research - 1cr.

Program Learning Outcomes

Program Learning Outcomes
https://caas.usu.edu/apec/assessment

Apprentice Electrician - Technical Certificate

Program Overview

College
College of Agriculture & Natural Resources

Department
Technology, Design & Technical Ed

Program Level
Undergraduate

About this Degree
Federal Gainful Employment Information

The Electrical Apprenticeship program provides a solid understanding of the National Electrical Code (NEC), its layout, the requirements for different electrical systems, and the components of those systems. This program discusses the risks involved with electricity and electrical systems as well as the safety equipment and measures that are in place to protect electricians and the general public alike.

This program connects students with mentors, job opportunities, and the training they need to build a solid, rewarding career to go from apprentice to journeyman in four years.

Fall Entry

Spring Entry Option - must discuss with advisor first.

Program Requirements

Total Credits Required In Program Coursework
40

Total Credits Required To Earn This Credential
40

Simple Requisites

Program Requirements

Total program credit varies depending on courses required. Meet with the advisor to determine total credit count.

Section 1

Type
Completion Requirement

Required Courses (40 credits)

Complete ALL of the following Courses:

- APPR2301 - Electrical Apprentice 1-A - 5cr.
- APPR2302 - Electrical Apprentice 1-B - 5cr.
- APPR2303 - Electrical Apprentice 2-A - 5cr.
- APPR2304 - Electrical Apprentice 2-B - 5cr.
- APPR2310 - Electrical Apprentice 3-A - 5cr.
- APPR2320 - Electrical Apprentice 3-B - 5cr.
- APPR2410 - Electrical Apprentice 4-A - 5cr.
- APPR2420 - Electrical Apprentice 4-B - 5cr.

Section 2

Type
Completion Requirement

USHE Aligned Courses (24 credits)

Complete ALL of the following Courses:

- TEEL1110 - Electrician Apprentice IA - 3cr.
- TEEL1120 - Electrician Apprenticeship IB - 3cr.
- TEEL1210 - Electrician Apprentice IIA - 3cr.
- TEEL1220 - Electrician Apprentice IIB - 3cr.

- TEEL1310 - Electrician Apprentice IIIA - 3cr.
- TEEL1320 - Electrician Apprentice IIIB - 3cr.
- TEEL1410 - Electrician Apprentice IVA - 3cr.
- TEEL1420 - Electrician Apprentice IVB - 3cr.

Additional Comments:
This program meets licensure requirements in the following states:

- AK, AZ, AR, CA, CO, DE, ID, KS, LA, MI, MT, NE, NV, NH, ND, OR, SC, SD, TX, UT, WI

This program does not meet licensure requirements in the following states:

- AL, CT, FL, GA, HI, IL, IN, IA, KY, ME, MD, MA, MN, MS, MO, NJ, NM, NY, NC, OH, OK, PA, RI, TN, VT, VA, WA, WV, WY

Program Learning Outcomes

Program Learning Outcomes

- Apply of the National Electrical Code (NEC).
- Navigate the National Electrical Code (NEC).
- Calculate the sizes of different electrical system parts.
- Explain the application of A/C and D/C electrical theory.
- Explain Electrical Safety procedures, processes, and equipment.
- Wire electrical circuits per national codes and safety regulations.

Airport Management - Post-Bachelor's Certificate

Program Overview

College
College of Agriculture & Natural Resources

Department
Aviation Technology

Program Level
Graduate

About this Degree

The Airport Management Post-Bachelor's Certificate is designed for professionals who want focused preparation for careers in airport operations, administration, and airport-related leadership roles. This 100% online certificate requires **12 credits** and builds applied knowledge in airport management practices, regulatory considerations, operational planning, and safety-focused decision-making in the airport environment. The program supports learners who are already working in aviation or who want to transition into airport careers, and it can be completed alongside full-time employment. Graduates are prepared for roles such as airport operations specialist, airport duty manager support, airport administration or tenant relations coordinator, airport planning/program support, compliance or training support roles, or other positions within airports, municipalities, airport authorities, and airport service providers.

Program Requirements

Total Credits Required In Program Coursework
12

Total Credits Required To Earn This Credential
12

Simple Requisites

Program Requirements

REQUIRED COURSES

Type
Completion Requirement

Complete all courses

Complete ALL of the following Courses:

- AV6150 - Airport Management - 3cr.
- AV6220 - Fixed Based Operator Management for General Aviation Airports - 3cr.
- AV6320 - Airport and Ground Safety Programs - 3cr.

Select one course from the following:

Complete at least 1 of the following courses:

- AV6120 - Aviation Operations and Management - 3cr.
- AV6240 - Certified Member: Airport Manager Certification Preparation - 3cr.
- AV6340 - Aircraft Accident Investigation and Analysis - 3cr.
- AV6350 - Aviation Security - 3cr.

Program Learning Outcomes

Program Learning Outcomes

https://agnr.usu.edu/avte/assessment

Applied Practice in Dietetics - Post-Bachelor's Certificate

Program Overview

College	Department	Program Level
College of Agriculture & Natural Resources	Nutrition, Dietetics & Food Sciences	Graduate

About this Degree

A registered dietitian nutritionist (RDN) is an expert in food and nutrition who works in various settings to advance health in clients and their families. RDN registration requires a graduate Debye (master's or doctorate), completion of supervised practice through an accredited program, and passage of the registration exam for dietitians. This exam is required for licensing in most states, including the state of Utah. Additional information on licensing and certification programs can be found at https://www.cdrnet.org/state-licensure.

The Post-Bachelor's Certificate of Applied Practice in Dietetics (CAPD) will integrate with existing graduate degrees in the NDFS department including the Master's of Publish Health (MPH) Nutrition degree and the Master of Science (MS) in Nutrition and Food Science to provide supervised practice in preparation for the Dietitian registration exam. Upon successful completion of the CAPD and the affiliated graduate degree, students will be prepared to sit the registration exam for dietitians administered by the Commission of Dietetics Registration and to practice as a Registered Dietitian Nutritionist (RDN) at the entry level.

The CAPD will be offered as a traditional face-to-face program on Logan Campus. Admission into the program requires a formal application in February of the year prior to desired entry. Supervised practice occurs in numerous facilities on and off campus. Some travel may be required. Students should anticipate working at dietetics-related facilities 10-32 hours per week during the program.

Please see the website for the updated handbook.

Career Opportunities

With a degree in dietetics, students may be qualified for the following careers:

- Registered Nutritionist
- Clinical nutrition (hospitals, long-term care facilities, health care, etc.)
- Community nutrition and education
- Public health
- Food service management: schools, clinical facilities
- Private consulting
- Sports nutrition

For more information on dietetics practice, see: https://www.eatrightpro.org/practice.

Admission Requirements for this Program

There are two pathways for admission into the CAPD. Student may obtain a bachelor's degree from an accredited undergraduate dietetics program. Students who have not completed a dietetics program may apply after completing the noted prerequisites.

- Graduate from an accredited nutrition/dietetics program and have a DPD Verification Statement OR be in the process of completing an accredited nutrition/dietetics program and will receive a DPD Verification Statement or Foreign Dietitian Education program (FDE) upon completion.
    - Applicants with a DPD Verification Statement more than 3 years old at the time of application may have to meet additional requirements.
    - Applicants who have received a BS degree in a closely related field but who do not have a DPD Verification Statement may inquire about eligibility.
    - Minimum pre-requisite GPA of 3.0.
- Obtain Food Manager or ServeSafe Certification.
- Complete 300 hours of dietetics-related experience.

Applicants should apply to graduate school in addition with the application for the CAPD. The applicant's major professor or program advisor should be willing to submit a letter of support for the candidate if the student is already enrolled in a graduate program at time of application.

Official transcripts will be required. Unofficial transcripts will not be accepted. Transcripts must be submitted in English. Foreign transcripts will need to be evaluated by an outside agency. The program cannot provide this service. Two recommended foreign credential evaluation agencies, include Academic and Professional International Evaluations, Inc (http://www.apie.org/) and Academic Credentials Evaluation Institute, Inc. (http://www.acei1.com/).

Program Requirements

Total Credits Required In Program Coursework	Total Credits Required To Earn This Credential
16	16

Simple Requisites

Program Requirements

Section 1

Type
Completion Requirement

Required Courses (16 credits)

Complete ALL of the following Courses:

- NDFS6460 - Medical Dietetics (CI) - 4cr.
- NDFS5050 - Clinical Skills I - 1cr.
- NDFS5060 - Clinical Skills II - 2cr.
- NDFS5080 - Food Service Skills - 2cr.
- NDFS5090 - Community Skills I - 1cr.
- NDFS5750 - Advanced Dietetics Practicum - 2cr.
- NDFS6060 - Community Skills II - 2cr.

Licensure

Licensure Requirements
This program typically leads to licensure and was designed to meet licensing qualifications in the state of Utah. If students wish to work in another state within the United States, they should review the qualifications for that state per the information provided by The Academy of Nutrition and Dietetics.

According to the most recent information from the sponsoring department, this program:

Meets licensure requirements in the following states: OR, WA, CA, ID, NV, AZ, UT, AK, MT, WY, CO, HI, ND, SD, NE, KS, OK, TX, MN, IO, MS, AR, MS, TN, KY, OH, WV, PA, NH, VT,MA, RI, CT, NJ, DE, MD, VA, NC, SC, GA, FL

Does not meet licensure requirements in: ME

Has not determined if the program meets licensure requirements in the remaining states.

A detailed spreadsheet on states and requirements can be found on this spreadsheet.

Additional Comments:

Licensure Notification

This program typically leads to licensure and was designed to meet licensing qualifications in the state of Utah. If students wish to work in another state within the United States, they should review the qualifications for that state and the Education Licensure Compliance Table provided by School of Teacher Education and Leadership.

For more information, please contact the School of Teacher Education and Leadership at https://cehs.usu.edu/teal/

Program Learning Outcomes

Program Learning Outcomes

https://caas.usu.edu/ndfs/assessment

Applied Sport Coaching - MEd

Program Overview

College
College of Education & Human Services

Department
Kinesiology and Health Science

Program Level
Graduate

About this Degree

The Applied Sport Coaching Master of Education (APSC MEd) is designed for professionals looking to deepen both their knowledge and practical expertise in sport coaching. This program offers an innovative curriculum that incorporates the latest trends and prepares students for leadership roles in sport settings. It is well-suited for current and aspiring coaches, teachers, athletic administrators, and other related professionals.

The APSC MEd is a 30-credit, fully online degree program that provides students the flexibility to complete their coursework at their own pace. While the program is typically completed in two years, students can choose to finish in one year or extend their studies over a period of up to six years. This structure accommodates both full-time and part-time students, ensuring that they can balance their academic and professional commitments.

With its flexible structure and focus on practical application, the APSC MEd provides students with the necessary tools and competencies to advance their careers in sport coaching and related fields.

For more information, including admission requirements and deadlines, please contact the Kinesiology and Health Science Department or visit the Applied Sport Coaching page on the department's website at https://cehs.usu.edu/khs/graduate/med-applied-sport-coaching.

Program Requirements

Total Credits Required In Program Coursework
30

Total Credits Required To Earn This Credential
30

Simple Requisites

Program Requirements

School of Graduate Studies Requirements

- **Degree Verification:** A bachelor's degree from an accredited U.S. college or university or a similarly recognized international university is required for admission to and completion of a graduate program.
- **Overall Graduate GPA at least 3.0 and no grades of C- or lower:** Graduate students are required to maintain at least a 3.0 GPA for degree-program courses. Grades of C- or lower will not be accepted for a graduate degree.
- **Course Number Acceptability:** The Program of Study for a master's degree must include at least 18 semester credits at the level of 6000 or above. Credits in the following areas are not acceptable in a degree program: foreign languages (unless included in an approved Program of Study), continuing graduate advisement, individual home study, military science, and courses numbered below 6000. The program of study for a master's degree cannot include more than 12 semester credits of courses at the 5000 level. Credits in the following areas are not acceptable in a degree program: foreign languages (unless included in an approved Program of Study), continuing graduate advisement, individual home study, military science, and courses numbered below 5000.

- **Matriculation Start Semester:** A master's degree must be completed within six years of entering the degree program. Additional time may be requested by the student's committee and submitted to the Vice Provost of Graduate Studies for review.
- **Coursework Validity:** Coursework over eight years old at the time of degree completion may not be used for a graduate degree unless it is revalidated by the School of Graduate Studies.
- **Thesis Research Credits:** Professional/Plan C students cannot use any thesis credits.
- **Master's forms:** Approval of academic forms required for master's students by the School of Graduate Studies. This includes the Supervisory Committee Approval Form (SCAF), Program of Study (POS), and USU Graduation Application.

Applied Sport Coaching - MEd (30 credits)

Type
Completion Requirement

Applied Sport Coaching MEd students must complete the following courses:

Fulfill ALL of the following requirements:

Required Courses (24 credits)

Complete ALL of the following Courses:

- KIN6000 - Administration of Athletics - 3cr.
- KIN6050 - Psychological Aspects of Sports Performance - 3cr.
- KIN6070 - Social Dimensions of Sport - 3cr.
- KIN6075 - Sport Ethics - 3cr.
- KIN6120 - Leadership and Organizational Behavior in Sport - 3cr.
- KIN6130 - Data Analytics and Data Driven Decision Making in Sports - 3cr.
- KIN6210 - Biophysical Aspects of Sport and Exercise - 3cr.
- KIN6270 - Injury Prevention and Risk Management - 3cr.

AND

Electives (3 credits)

Complete the following:
Students are required to complete 3 credits of electives for this program. Elective courses should be selected in consultation with a student's faculty advisor/major professor.

AND

Internship Requirement (3 credits)

Students are required to complete 3 credits of internship to fulfill the program requirements.

Complete ALL of the following Courses:

- KIN7550 - Internship in Sport Coaching - 1cr.

Program Learning Outcomes

Program Learning Outcomes
https://cehs.usu.edu/khs/assessment

Archaeological Data Analytics - Post-Bachelor's Certificate

Program Overview

College
College of Arts & Sciences

Department
School of Social Sciences, Data Analytics & Information Systems

Program Level
Graduate

About this Degree
The Post-Bachelor's Certificate in Archaeological Data Analytics is designed to prepare both fully matriculated graduate students as well as current professionals in the field wishing to enhance their portfolios to understand and implement data analytics within the context of cultural resource management activities. The certificate combines graduate level anthropology courses with courses offered as part of the Masters in Data Analytics program. This certificate may be earned as a stand-alone certification or as part of the USU Anthropology Graduate Program.

Students who complete the program will receive a Post-Bachelor's Certificate in Archaeological Data Analytics. Their USU transcript will list the courses and grades received to complete the program.

Graduate Program Director: Dr. Judson Finley and Dr. Jacob Freeman

Admission Requirements for this Program
To apply for admittance to the program, a person must complete and submit an application to the School of Graduate Studies. Academic credits obtained from the program may be applied toward a graduate degree.

To apply, the School of Graduate Studies requires:

- A bachelor's degree that is or will be completed before the student matriculates in the degree program.
- A 3.0 or higher grade-point average for terms that include the student's last 60 semester credits or 90 quarter credits.
- Resume/CV
- International applicants are required to submit proof of proficiency in English.

For additional information on admissions and application procedure, please see:

https://gradschool.usu.edu/admissions/

Program Requirements

Total Credits Required In Program Coursework
18

Total Credits Required To Earn This Credential
18

Simple Requisites

Program Requirements

The Archaeological Data Analytics Post-Bachelor's Certificate consists of 18 hours chosen from among the courses listed below. The certificate provides a dual foundation in understanding the unique properties and methodological challenges of archaeological data and inference within the foundations of modern data science. The certificate is designed to meet students where they reside physically and intellectually, from just beginning data science to building on a 10 year career at the interface of archaeology and data science. To this end, the certificate combines courses from Anthropology (ANTH) and Data Science (DATA). The pathway chosen by students to complete their 18 credit hours will depend upon their goals, prior experience and course work in database

management, python programming, archaeological data analysis, and archaeological inference. Thus, students may tailor the certificate to their career needs and goals.

Students must maintain a minimum 3.0 GPA for program courses. Course grades less than a B (B- and below) do not count toward the certificate.

Archaeological Data Analytics - Post-Bachelor's Certificate

Type
Completion Requirement

Core Courses (15 credits)

Complete ALL of the following Courses:

- ANTH6430 - Archaeometry - 3cr.
- ANTH6360 - Research Design and Quantitative Methods in Archaeology - 3cr.
- ANTH6370 - GIS in Archaeology - 3cr.
- DATA6330 - Data Pipeline Engineering - 3cr.
- DATA6500 - Python Programming for Analytics - 3cr.

Methods Elective (3 credits)

Complete at least 1 of the following courses:

- ANTH6200 - Anthropological Perspectives on Conservation - 3cr.
- ANTH6320 - Zooarchaeology - 3cr.

Program Learning Outcomes

Program Learning Outcomes

https://www.usu.edu/oda/assessment/

Advanced Research Methods and Analysis- Quantitative (CARMA - Q) - Post-Bachelor's Certificate

Program Overview

College
College of Education & Human Services

Department
College of Education and Human Services

Program Level
Graduate

Program Requirements

Total Credits Required In Program Coursework
15

Total Credits Required To Earn This Credential
15

Simple Requisites

Program Requirements

This flexible, 15 credit, Post-Bachelor's Certificate requires completion of two courses (EDUC6600 STATISTICAL FOUNDATIONS/PSY6600 STATISTICAL FOUNDATIONS and EDUC7610 REGRESSION ANALYSIS/PSY7610 REGRESSION ANALYSIS) and the completion of 9 credits in elective courses.

Advanced Research Methods and Analysis- Quantitative (CARMA - Q) - Post-Bachelor's Certificate

Type
Completion Requirement

Required Courses (6 credits)

Complete ALL of the following Courses:

- EDUC6600 - Statistical Foundations - 3cr.
  OR PSY6600 - Statistical Foundations - 3cr.
- EDUC7610 - Regression Analysis - 3cr.
  OR PSY7610 - Regression Analysis - 3cr.

Elective Courses (9 credits)

Complete at least 3 of the following courses:

- HDFS7032 - Multivariate and Dyadic Data Analysis in Human Development and Family Studies - 3cr.
- HDFS7033 - Dyadic and Longitudinal Data - 3cr.
- HDFS7034 - Extant/Secondary Data Analysis - 3cr.
- HDFS7900 - Topical Seminar in Human Development and Family Studies - 1cr.
- PSY7070 - Advanced Measurement Theories and Practice - 3cr.
- PSY7650 - Multilevel and Marginal Models for the Social Sciences - 3cr.
- PSY7760 - Structural Equation Modeling - 3cr.
- PSY7810 - Seminar - 1cr.
- SPED7700 - Single-Subject Research Methods and Designs - 3cr.

NOTE:

1. HDFS7900 TOP SEMINAR: HDFS - TS in HDFS with the title Meta-Analysis.

Please contact Shawn.Whiteman@usu.edu for more information.

Program Learning Outcomes

Program Learning Outcomes
https://cehs.usu.edu/about/assessment

Applied Remote Sensing and Geospatial Artificial Intelligence - Post-Bachelor's Certificate

Program Overview

College
College of Agriculture & Natural Resources

Department
Environment & Society

Program Level
Graduate

About this Degree

The Applied Remote Sensing and Geospatial Artificial Intelligence (GeoAI) Post-Bachelor's Certificate introduces advanced students, with a Geographic Information Science (GIS) background, to the development and application of artificial intelligence to remote sensing and data-driven geospatial methods. Remote sensing via satellites and drones and advanced geospatial science tools that harness GeoAI allow for analyzing large amounts of data to understand and address a variety of complex social, economic, and environmental challenges facing society. Over the past few decades, technological advancements, the democratization of geospatial information, and the proliferation of consumer-grade drones have made high-resolution imagery and data more accessible than ever before, generating new demand for individuals skilled in gathering, analyzing, and delivering geospatial products. As automation through machine learning increases efficiency, the role humans play is transforming, moving from lower-level data management tasks to higher-level tasks of problem definition, inquiry, and innovation. Humans must engage with, troubleshoot, and guide GeoAI efforts, drawing upon critical thinking, creative problem-solving, complex reasoning, the application of emotional intelligence, and other distinctively human capabilities.

The Applied Remote Sensing and GeoAI Post-Bachelor's Certificate will prepare post-baccalaureate students at the convergence of geospatial analysis, remote sensing, and artificial intelligence for opportunities for innovation across various industry and government sectors, including for example environmental monitoring, urban planning, agriculture, disaster planning and response, and natural resource management. Students can pair the certificate with the Master of Natural Resources or another graduate degree program, or they can pursue it as a standalone certificate. Students also can pursue both the Geographic Information Science Post-Baccalaureate Certificate and the Applied Remote Sensing and GeoAI Post-Baccalaureate Certificate for simultaneously broad and deep skillsets in emerging geospatial technologies. **Participants may complete the certificate in one year.**

Program requirements consist of 12-13 credits of coursework including a capstone experience that consists of a one-credit project design and implementation experience under supervision of program faculty. The certificate can be completed fully online, or with a combination of online and in-person courses for enrolled graduate students at the Logan campus.

Program website: https://qanr.usu.edu/mnr/geo-ai-certificate

Admission Requirements for this Program

For admission to the program please follow the instructions below:

- Experience in Geographic Information Science (GIS) is required for admission. Students without such a background should first complete coursework through the offered GIS Certificate.
- Applicants go to applynow.usu.edu. Choose the graduate application and then choose Applied Remote Sensing and GeoAI Post-Bachelor's Certificate application.
- Applicant must provide an official transcript showing that they have been awarded a bachelor's degree or higher. Please send official transcripts to the following address: 0900 Old Main Hill, Logan UT 84322-0900. Official electronic transcripts may be sent to graduateschool@usu.edu from the institution. (If you've attended USU we will obtain your transcripts.)

- Email the Program Coordinator for a promo code to waive $30.00 of the application fee (the resulting application fee is $25.00).

Students pursuing the Applied Remote Sensing and GeoAI Post-Bachelor's Certificate are not required to be enrolled in a graduate degree program. However, credits obtained from the certificate may be applied toward a graduate degree. Please contact the Program Coordinator if you have any questions.

Program Requirements

Total Credits Required In Program Coursework
12

Total Credits Required To Earn This Credential
12

Simple Requisites

Program Requirements

To receive this certificate, a student must complete the following set of requirements:

- Apply and be accepted into the Applied Remote Sensing & GeoAI Post-Bachelor's Certificate Program
- Register for and successfully complete the required 12-13 credits of graduate-level courses
- Maintain a minimum 3.0 GPA for program courses (grades below B- will not be accepted)
- Abide by the Code of Policies and Procedures for Students at Utah State University

Please visit our website at https://qanr.usu.edu/mnr/geo-ai-certificate and look under graduate certificates for more information.

Course Requirements

Type
Completion Requirement

Remote Sensing and GeoAI Core (9 credits)

Complete ALL of the following Courses:

- NR6805 - Introduction to Geospatial Artificial Intelligence: The Remote Sensing and GeoAI Frontier - 3cr.
- NR6815 - Insights from Above: Processing and Analyzing Drone Data - 1cr.
- NR6825 - Geospatial Artificial Intelligence, Ethics, & Society - 1cr.
- NR6835 - Geovisualization for Remote Sensing Applications - 1cr.
- NR6855 - Advanced Geospatial Artificial Intelligence - 3cr.

Certificate Elective (2-3 credits)

Complete 2-3 credits from the following list of courses. With advance approval, a different course, including from the Natural Resources Distance Learning Consortium (NRDLC), can be used to meet this elective requirement. Elective selection should address any gaps in GIS or remote sensing knowledge or skills.

Earn at least 2 credits from the following:

- GEOG6220 - Data Visualization Principles and Practice - 3cr.
- NR6880 - Advanced Remote Sensing & GeoAI Internship - 2cr.
- NR6930 - Advanced GIS for Natural Resource Applications - 3cr.
- NR6940 - Principles of Remote Sensing of Natural Resources - 3cr.
- NR6950 - Geospatial Analysis for Natural Resource Management - 3cr.
- NR6960 - Python Programming for GIS - 3cr.

Capstone Project Course (1 credit)

Complete at least one credit of the capstone experience.

Earn at least 1 credits from the following:

- NR6890 - Advanced Project Design and Implementation for Remote Sensing & GeoAI - 1cr.

Logan Campus Student Options

Students also enrolled in a Logan Campus graduate program may substitute the following courses for the certificate. Please contact the program advisor for details of these substitutions.

Complete ANY of the following Courses:

- GEOG6300 - Geospatial Analysis with R - 3cr.
- GEOG6500 - Advanced Geographic Information Sciences (GIS) - 3cr.
- GEOG6800 - GIS Advanced Individual Projects - 1cr.
- GEOG6805 - Introduction to Geospatial Artificial Intelligence: The Remote Sensing and GeoAI Frontier - 3cr.
- GEOG6815 - Insights from Above: Processing and Analyzing Drone Data - 1cr.
- GEOG6825 - Geospatial Artificial Intelligence, Ethics, & Society - 1cr.
- GEOG6835 - Geovisualization for Remote Sensing Applications - 1cr.
- GEOG6855 - Advanced Geospatial Artificial Intelligence - 3cr.
- GEOG6880 - Advanced Remote Sensing & GeoAI Internship - 2cr.
- GEOG6890 - Advanced Project Design and Implementation for Remote Sensing & GeoAI - 1cr.

Program Learning Outcomes

Program Learning Outcomes

Upon successful completion, graduate students will possess in-depth knowledge of advanced GeoAI algorithms and applications. Key objectives include advanced skills in geospatial machine and deep learning techniques, data ethics, and advanced geovisualization. Certificate earners will be prepared to contribute to advancements in the field.

https://qanr.usu.edu/mnr/geo-ai-certificate

Arabic Studies - Minor

Program Overview

College
College of Arts & Sciences

Department
World Languages and Cultures

Program Level
Undergraduate

About this Degree

Students will develop Arabic language proficiency and communications skills, critical thinking skills, analysis skills, and intercultural competence skills, all valuable for today's global workplace. The Arabic minor familiarizes learners with Arabic-speaking cultures and regions. Students with prior language experience should take the Language Proficiency and Placement test through USU Department of World Languages & Cultures, to potentially "test out of" some prerequisites and to be placed in the appropriate proficiency level. An Arabic Major emphasis is also available.

Admission Requirements for this Program

2.0 GPA minimum

Program Requirements

Total Credits Required In Program Coursework
15

Total Credits Required To Earn This Credential
15

Simple Requisites

Program Requirements

Must complete a minimum of at least 6 Arabic language credits at the second-year intermediate level of ARBC2010 ARABIC SECOND YR I and/or above, plus must complete choice of 9 credits from the list of electives below.

Section 1

Type
Completion Requirement

Required Courses

Must complete a minimum of at least 6 language credits at the second-year intermediate level (2010) or above. Must complete 6 additional credits selected from the list of electives, in addition to the minimum of 6 credits in Arabic language courses; students may choose courses taught in Arabic or courses taught in English for these credits.

Fulfill ALL of the following requirements:

Arabic Language Courses (6 credits)

Students must complete at least 6 language credits at the intermediate level (2010) or above.

Earn at least 6 credits from the following:

- ARBC2010 - Intermediate Standard Arabic Second Year I - 4cr.
- ARBC2020 - Intermediate Standard Arabic Second Year II - 4cr.
- ARBC3010 - Advanced Arabic I - 3cr.
- ARBC3020 - Advanced Arabic II - 3cr.

AND

Culture and Linguistics Courses (9 credits)

Must complete a minimum of 9 additional credits selected from any courses on this list of electives or additional ARBC language courses.

Earn at least 9 credits from the following:

- ARBC2800 - Study-Abroad Arabic Language and Society II - 1cr.
- ARBC3030 - Introduction to Islam (DHA) - 3cr.
- ARBC4040 - Language and Culture of the Arab World (DHA) - 3cr.
- ARBC3800 - Study Abroad in Jordan - 3cr.
- ARBC4920 - Arabic Language Tutoring - 1cr.
- ARTH3510 - Islamic Visual Cultures (CI/DHA) - 3cr.
- HIST3410 - The Modern Middle East - 3cr.
- HIST3030 - Introduction to Islam (DHA) - 3cr.
- HIST4560 - Women in Islam (DHA) - 3cr.
- HIST4565 - Medieval Islam (DHA) - 3cr.
- HIST4566 - Global Faces of Islam (DHA) - 3cr.
- LANG3990 - Special Topics - 1cr.
- LING3100 - Language in Social Context - 3cr.
- LING4100 - The Study of Language - 3cr.
- LING3200 - Introduction to Linguistics (DSS) - 3cr.
- POLS3230 - Middle Eastern Government and Politics - 3cr.
- POLS4230 - Issues in Middle East Politics - 3cr.
- RELS3030 - Introduction to Islam (DHA) - 3cr.

Program Learning Outcomes

Program Learning Outcomes

https://chass.usu.edu/assessments/

Art - Minor

Program Overview

College
College of Arts & Sciences

Department
Art and Design

Program Level
Undergraduate

Program Requirements

Total Credits Required To Earn This Credential
18

Simple Requisites

Program Requirements

- To plan a minor in Art, students should meet with an advisor.
- One half of the credits taken for the Art Minor must be taken at Utah State University.
- Minimum ART GPA: 2.75
- Minimum grade in ART and ARTH courses: C-
- No "P" grade accepted

Section 1

Type
Completion Requirement

Generally, the minimum requirements inlcude:

Complete ALL of the following Courses:

- ART1020 - Drawing I (BCA) - 3cr.
- ART1120 - Two-Dimensional Design - 3cr.
- ART1130 - Three-Dimensional Design - 3cr.
- ARTH2710 - Survey of Western Art: Prehistoric to Medieval (BHU) - 3cr.
- ARTH2720 - Survey of Western Art: Renaissance to Post-Modern (BHU) - 3cr.

• Any ART class (3 credits)

Program Learning Outcomes

Program Learning Outcomes
https://www.usu.edu/oda/assessment/

Art History - Minor

Program Overview

College
College of Arts & Sciences

Department
Art and Design

Program Level
Undergraduate

Program Requirements

Total Credits Required To Earn This Credential
18

Simple Requisites

Program Requirements

- Minimum ARTH GPA: 2.75
- Minimum grade in ARTH courses: C-
- No "P" grades accepted.

Section 1

Type
Completion Requirement

Program Requirements (6 credits)

Earn a minimum grade of C- in the following:

- ARTH2710 - Survey of Western Art: Prehistoric to Medieval (BHU) - 3cr.
- ARTH2720 - Survey of Western Art: Renaissance to Post-Modern (BHU) - 3cr.

Section 2

Type
Completion Requirement

Plus 12 credits from the Art History Group

Art History Group Example:
Example of course selection:

- ARTH3820 THE HISTORY OF PHOTOGRAPHY
- ARTH3720 RENAISSANCE ART (CI)
- ARTH3740 ART OF A-G: 1872-1945 (CI)
- ARTH3750 MOD TO PO-MO:1945 - 1989(CI)
- ARTH4790 ART HIST SEMINAR/SPEC PROBLEMS

Additional Comments:
NOTE:

USU does not offer an art teaching minor for secondary teachers. Students choosing to train for teaching art in secondary schools must complete the art education major listed under art specialties and must comply with all requirements listed by the Secondary Education Program of the School of Teacher Education and Leadership (TEAL).

Program Learning Outcomes

Program Learning Outcomes
https://www.usu.edu/oda/assessment/

Art History - BA

Program Overview

College
College of Arts & Sciences

Department
Art and Design

Program Level
Undergraduate

About this Degree

The Bachelor of Arts in Art History offers undergraduates the opportunity to build a strong, interdisciplinary foundation for careers in art-related fields and other fields in which in-depth critical understanding of visual communication plays a central role.

The Bachelor of Arts in Art History, as defined by NASAD (the National Association of Schools of Art and Design), "requires a thorough grounding in the liberal arts with a concentration of coursework in art and art history," including "a general knowledge of the monuments and principal artists of all major art periods of the past…augmented by study in greater depth and precision of several cultures and periods…[and] study at the advanced level…including theory, analysis and criticism."

- For more information about Art History, see the department website.
- Admitted and current students must meet with an advisor.
- NOTE: Courses must be decided upon in consultation with a member of the Art History faculty.
- There are two different tracks available (see Track 1 suggested degree map or Track 2 suggested degree map).
- Log on to Degree Works to check student-specific program progress.
- The highest math requirement for this degree is the fulfillment of the Quantitative Literacy (QL) of the General Education Requirements.

Admission Requirements for this Program

- New freshmen must be admitted to USU in Good Standing.
- Transfer students from other institutions or other programs at USU are admitted with a 3.0 GPA.

Program Requirements

Total Credits Required In Program Coursework
45

Total Credits Required To Earn This Credential
120

Simple Requisites

Program Requirements

Additional Requirements

A GPA of 3.0 is required for the BA degree in Art History. A grade of B- or better is required in all art (ART) and art history (ARTH) classes. Major requirements may *not* be taken on a pass/fail basis, except ART2700 FINE ART SEMINAR.

Upon completion of the program, students are asked to assemble a portfolio of their work documenting their progress and demonstrating the development of their research and writing skills.

Art History - BA

Type
Completion Requirement

Art History Foundation Requirements (7 credits)

Complete ALL of the following Courses:

- ART2700 - Fine Art Seminar - 0.5cr.
- ARTH2710 - Survey of Western Art: Prehistoric to Medieval (BHU) - 3cr.
- ARTH2720 - Survey of Western Art: Renaissance to Post-Modern (BHU) - 3cr.

NOTE:

1. ART2700 FINE ART SEMINAR - Take 1 credit for Foundation requirement.

Art History Creative Elective (3 credits)

Complete at least 1 of the following courses:

- ART1020 - Drawing I (BCA) - 3cr.
- ART1120 - Two-Dimensional Design - 3cr.
- ART1130 - Three-Dimensional Design - 3cr.

History Elective (6 credits)

Complete at least 2 of the following courses:

- HIST1100 - European History to 1500 (BHU) - 3cr.
- HIST1110 - European History from 1500 (BHU) - 3cr.
- HIST1500 - Pre-Modern World (BHU) - 3cr.
- HIST1510 - The Modern World (BHU) - 3cr.
- HIST1700 - American History (BAI) - 3cr.

Requirements - Track 1 (29 credits)

Complete ALL of the following Courses:

- ART2700 - Fine Art Seminar - 0.5cr.
- ART4900 - Advanced Internship/Coop - 1cr.

• ARTH 3000 Level or Higher (Upper-Division Art History) (24 credits)

NOTE:

1. ART2700 FINE ART SEMINAR - Take 2 additional credits.

Requirements - Track 2 (29 credits)

Complete ALL of the following Courses:

- ART2700 - Fine Art Seminar - 0.5cr.
- ART4900 - Advanced Internship/Coop - 1cr.

• ARTH 3000 Level or Higher (Upper-Division Art History) (take 24 credits in related fields as designated by area advisor)

NOTE:

1. ART2700 FINE ART SEMINAR - Take 2 additional credits.

Open Electives

Complete the following as needed:
Total elective credit is determined by General Education courses taken, degree type selected, additional credits earned, and any additional math or other prerequisite courses needed. Please consult your Academic Advisor for details.

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Bachelor's Degree)

Suggested Degree Maps

Degree Map Name
Suggested Degree Maps - Art History - BA - 4 Year Degree Map Track 1
Total Degree Map Credits
127
Degree Map Effective Catalog Year
2026 -

Degree Map Narrative

- Following is a sample four-year plan. Please note that student-specific plans may differ.
- Meet with an academic advisor to create a specific plan that best fits your academic needs.
- The student is ultimately responsible for knowing and completing all degree requirements.
- Make sure you meet the registration requirements for each class by clicking the course link and checking any prerequisites or corequisites.
- Consultation with an advisor may result in an altered plan customized for an individual student.
- Check your Degree Works for requirements and completion.

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	15.5	0

Requirement Select
- ART2700 - Fine Art Seminar

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	0.5
Progress Credits	-
Contact Hours	0.5
Clinical	-
Criticality	No

Requirement Select
- ARTH2710 - Survey of Western Art: Prehistoric to Medieval (BHU)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- ENGL1010 - Writing as Inquiry (CL1)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Art History Creative Elective (Note: ART 1020 will fulfill the Breadth Creative Arts requirement) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- History Elective (See ARTH faculty advisor) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Quantitative Literacy (QL) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	15.5	0

Requirement Select

- Register for fall courses before you leave for the summer. (Generic)

Course Requirement Group

Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- ART2700 - Fine Art Seminar

Course Requirement Group

Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	0.5
Progress Credits	-
Contact Hours	0.5
Clinical	-
Criticality	No

Requirement Select

- ARTH2720 - Survey of Western Art: Renaissance to Post-Modern (BHU)

Course Requirement Group

Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- History Elective (See ARTH faculty advisor) (Generic)

Course Requirement Group

Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- General Elective (Generic)

Course Requirement Group

Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Breadth American Institutions (BAI) Course
  OR
- Breadth Life Sciences (BLS) Course
  OR
- Breadth Physical Sciences (BPS) Course
  OR
- Breadth Social Sciences (BSS) Course

Course Requirement Group

Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Breadth American Institutions (BAI) Course
  OR
- Breadth Life Sciences (BLS) Course
  OR
- Breadth Physical Sciences (BPS) Course
  OR
- Breadth Social Sciences (BSS) Course

Course Requirement Group

Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	16.5	0

Requirement Select

- ART2700 - Fine Art Seminar

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	0.5
Progress Credits	-
Contact Hours	0.5
Clinical	-
Criticality	No

Requirement Select

- ARTH 3000 Level or higher (period or theme related - see ARTH faculty advisor for course options) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- General Elective (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Select a Foreign Language course approved by your advisor (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Breadth American Institutions (BAI) Course
  OR
- Breadth Life Sciences (BLS) Course
  OR
- Breadth Physical Sciences (BPS) Course
  OR
- Breadth Social Sciences (BSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Breadth American Institutions (BAI) Course
  OR
- Breadth Life Sciences (BLS) Course
  OR
- Breadth Physical Sciences (BPS) Course
  OR
- Breadth Social Sciences (BSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	16.5	0

Requirement Select

- Must meet with the faculty advisor to determine track. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- ART2700 - Fine Art Seminar

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	0.5
Progress Credits	-
Contact Hours	0.5
Clinical	-
Criticality	No

Requirement Select

- ENGL2010 - Research and Argument Across Perspectives (CL2)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- ARTH 3000 Level or higher course (period or theme related - see ARTH faculty advisor for course options) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- General Elective (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- General Elective (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Foreign Language (First Year II) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Fall	16.5	0

Requirement Select

- Students may take up to 6 credits of ARTH 3000 level or higher as ARTH 4800 - Directed Reading and Research in Art History or ARTH 4810 - Museum Internship credit as these courses are variable from 1-3 credits and may be repeated for credit. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- ART2700 - Fine Art Seminar

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	0.5
Progress Credits	-
Contact Hours	0.5
Clinical	-
Criticality	No

Requirement Select

- ARTH 3000 Level or higher course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- ARTH 3000 Level or higher course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Foreign Language (Second Year I) course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- General Elective (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Breadth Creative Arts (BCA) Course

  OR
- (Student will not need to take this course set if they have previously taken ART 1020) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Spring	16.5	0

Requirement Select

- ART2700 - Fine Art Seminar

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	0.5
Progress Credits	-
Contact Hours	0.5
Clinical	-
Criticality	No

Requirement Select

- Communications Intensive (CI) Courses

  OR
- General Elective 3000 Level or higher course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Depth Life and Physical Sciences (DSC) Course

  OR
- Depth Social Sciences (DSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- General Elective (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Quantitative Intensive (QI) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Foreign Language (Second Year II) course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Fall	15	0

Requirement Select
- Communications Intensive (CI) Courses
  OR
- ARTH 3000 Level or higher course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- General Elective (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- ARTH 3000 Level or higher (Non-Western course - see ARTH faculty advisor for course options) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Depth Life and Physical Sciences (DSC) Course
  OR
- Depth Social Sciences (DSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- General Elective 3000 Level or higher (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Spring	15	0

Requirement Select

- ARTH4900 - Senior Capstone Research Seminar in Art History

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- ARTH 3000 Level or higher course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- General Elective (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- General Elective 3000 Level or higher (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- General Elective 3000 Level or higher (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Degree Map Name
Suggested Degree Maps - Art History - BA - 4 Year Degree Map Track 2
Total Degree Map Credits
124
Degree Map Effective Catalog Year
2026 -

Degree Map Narrative

- Following is a sample four-year plan. Please note that student-specific plans may differ.
- Meet with an academic advisor to create a specific plan that best fits your academic needs.
- The student is ultimately responsible for knowing and completing all degree requirements.
- Make sure you meet the registration requirements for each class by clicking the course link and checking any prerequisites or corequisites.
- Consultation with an advisor may result in an altered plan customized for an individual student.
- Check your Degree Works for requirements and completion.

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	15.5	0

Requirement Select

- ART2700 - Fine Art Seminar

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	0.5
Progress Credits	-
Contact Hours	0.5
Clinical	-
Criticality	No

Requirement Select

- ARTH2710 - Survey of Western Art: Prehistoric to Medieval (BHU)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- ENGL1010 - Writing as Inquiry (CL1)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Art History Creative Elective (Note: ART 1020 will fulfill the Breadth Creative Arts requirement) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Quantitative Literacy (QL) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- History Elective (See ARTH faculty advisor for course options) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	15.5	0

Requirement Select

- Register for fall courses before you leave for the summer. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- ART2700 - Fine Art Seminar

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	0.5
Progress Credits	-
Contact Hours	0.5
Clinical	-
Criticality	No

Requirement Select

- ARTH2720 - Survey of Western Art: Renaissance to Post-Modern (BHU)

  OR

- General Elective (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- General Elective (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- History Elective (See ARTH faculty advisor for course options) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Breadth American Institutions (BAI) Course
  OR
- Breadth Life Sciences (BLS) Course
  OR
- Breadth Physical Sciences (BPS) Course
  OR
- Breadth Social Sciences (BSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Breadth American Institutions (BAI) Course
  OR
- Breadth Life Sciences (BLS) Course
  OR
- Breadth Physical Sciences (BPS) Course
  OR
- Breadth Social Sciences (BSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	16.5	0

Requirement Select

- ART2700 - Fine Art Seminar

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	0.5
Progress Credits	-
Contact Hours	0.5
Clinical	-
Criticality	No

Requirement Select

- ARTH 3000 Level or higher course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Foreign Language (Select a Foreign Language approved by your advisor) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Breadth American Institutions (BAI) Course
  OR
- Breadth Life Sciences (BLS) Course
  OR
- Breadth Physical Sciences (BPS) Course
  OR
- Breadth Social Sciences (BSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Breadth American Institutions (BAI) Course
  OR
- Breadth Life Sciences (BLS) Course
  OR
- Breadth Physical Sciences (BPS) Course
  OR
- Breadth Social Sciences (BSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Breadth American Institutions (BAI) Course
  OR
- Breadth Life Sciences (BLS) Course
  OR
- Breadth Physical Sciences (BPS) Course
  OR
- Breadth Social Sciences (BSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	16.5	0

Requirement Select

- ART2700 - Fine Art Seminar

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	0.5
Progress Credits	-
Contact Hours	0.5
Clinical	-
Criticality	No

Requirement Select

- ARTH 3000 Level or higher course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- ENGL2010 - Research and Argument Across Perspectives (CL2)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Concentration course outside of ARTH (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Foreign Language (First Year II) course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- General Elective (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Fall	16.5	0

Requirement Select

- Students may take up to six credits of ARTH 3000 level or higher as ARTH 4800 - Directed Reading and Research in Art History or ARTH 4810 - Museum Internship credit as these courses are variable from 1-3 credits and may be repeated for credit. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- ART2700 - Fine Art Seminar

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	0.5
Progress Credits	-
Contact Hours	0.5
Clinical	-
Criticality	No

Requirement Select

- Concentration course outside of ARTH (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Foreign Language (Second Year I) course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- General Elective (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- General Elective 3000 Level or Higher (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Depth Life and Physical Sciences (DSC) Course
  OR
- Depth Social Sciences (DSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Spring	16.5	0

Requirement Select

- ART2700 - Fine Art Seminar

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	0.5
Progress Credits	-
Contact Hours	0.5
Clinical	-
Criticality	No

Requirement Select

- Communications Intensive (CI) Courses
  OR
- ARTH 3000 Level or higher (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Depth Life and Physical Sciences (DSC) Course
  OR
- Depth Social Sciences (DSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Concentration course outside of ARTH (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Quantitative Intensive (QI) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Foreign Language (Second Year II) course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Fall	15	0

Requirement Select

- Communications Intensive (CI) Courses
  OR
- ARTH 3000 Level or higher course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Concentration course outside of ARTH (See faculty advisor for course options) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- General Elective 3000 Level or higher course (See faculty advisor for course options) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- General Elective (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- General Elective (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Spring	12	0

Requirement Select

- ARTH4900 - Senior Capstone Research Seminar in Art History

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- ARTH 3000 Level or higher course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- General Elective (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- General Elective 3000 Level or higher course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	Total Major Credits
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Program Learning Outcomes

Program Learning Outcomes
https://www.usu.edu/oda/assessment/

Art - AA

Program Overview

College
College of Arts & Sciences

Department
Art and Design

Program Level
Undergraduate

About this Degree
An Associate of Arts degree in Art will allow Utah State University Eastern (USUE) students interested in art a practical credential for their coursework. Students will follow the current USU Department of Art and Design core curriculum, completing this degree track in a two-year time span. The USU Associate of Arts degree in Art aims to give students the technical and academic knowledge and transferable skills they need to go on to employment or as a stackable credential for further study in a BS, BA, or BFA program.

- For more information about Art and Design, please see the department website at art.usu.edu/.
- Admitted and current students must meet with an advisor.
- Log on to Degree Works to check student-specific program progress.

Admission Requirements for this Program
- New freshmen must be admitted to USU in Good Standing.
- Transfer students from other institutions or other programs at USU must have a 2.0 GPA.

Program Requirements

Total Credits Required In Program Coursework

Total Credits Required To Earn This Credential
60

Simple Requisites

Program Requirements

Utah State University (USU) Associate of Arts degree in Art for its Eastern campus requires a minimum of 60 total credits, with 13 credits of required Art courses, 6 credits of Art History courses, 12 credits of elective Art courses, and 21 required General Education credits, and meeting the foreign language requirement for the Associate of Arts.

- The Utah State University Associate of Arts degree in Art requires a minimum of 60 total credits:
  - 13 credits of required Art courses
  - 6 credits of Art History courses
  - 12 credits of elective Art courses
  - 21 required General Education credits
  - Associate of Arts foreign language requirement
- All courses taken to satisfy the requirements for the Utah State University Associate of Arts degree in Art must be taken for a letter grade and must be passed with a grade of C- or better.
- To remain in good standing and graduate with an Associate of Arts degree in Art, a student must maintain a minimum overall grade point average of 2.0, and a GPA of 2.75 in Art and Art History courses.

Art - AA

Type
Completion Requirement

Required Courses (19 credits)

Complete ALL of the following Courses:

- ART1020 - Drawing I (BCA) - 3cr.
- ART1120 - Two-Dimensional Design - 3cr.
- ART1130 - Three-Dimensional Design - 3cr.
- ART2260 - Intermediate Portfolio Preparation - 2cr.
- ART2700 - Fine Art Seminar - 0.5cr.
- ARTH2710 - Survey of Western Art: Prehistoric to Medieval (BHU) - 3cr.
- ARTH2720 - Survey of Western Art: Renaissance to Post-Modern (BHU) - 3cr.

NOTE:

1. ART2700 FINE ART SEMINAR - 2 credits required.

Elective Courses (12 credits)

Complete ALL of the following Courses:

- ART1050 - Introduction to Photography - 3cr.
- ART1430 - Basic Illustration - 3cr.
- ART2110 - Drawing II - 3cr.
- ART2200 - Painting I - 3cr.
- ART2220 - Watercolor Painting - 3cr.
- ART2400 - Introduction to Graphic Design - 3cr.
- ART2600 - Basic Sculpture - 3cr.
- ART2650 - Introduction to Ceramics - 3cr.
- ART2680 - Introduction to Figure Drawing - 3cr.
- ART2690 - Introduction to Sculpting the Human Figure - 3cr.
- ART2810 - Photography I - 3cr.
- ART2920 - Sophomore Independent Projects - 1cr.

Suggested Degree Maps

Degree Map Name
Suggested Degree Map - Art - AA
Total Degree Map Credits
62
Degree Map Effective Catalog Year
2026 -

Degree Map Narrative

- Following is a sample two-year plan. Please note that student-specific plans may differ.
- Meet with an academic advisor to create a specific plan that best fits your academic needs.
- The student is ultimately responsible for knowing and completing all degree requirements.
- Consultation with an advisor may result in an altered plan customized for an individual student.
- Check your Degree Works for requirements and completion.

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	14.5	0

Requirement Select
- ART1120 - Two-Dimensional Design

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- ART1130 - Three-Dimensional Design

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- ART2700 - Fine Art Seminar

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	0.5
Progress Credits	-
Contact Hours	0.5
Clinical	-
Criticality	No

Requirement Select
- ENGL1010 - Writing as Inquiry (CL1)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Quantitative Literacy (QL) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- USU1010 - University Connections

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	15.5	0

Requirement Select
- ART1020 - Drawing I (BCA)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- ART2700 - Fine Art Seminar

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	0.5
Progress Credits	-
Contact Hours	0.5
Clinical	-
Criticality	No

Requirement Select
- ENGL2010 - Research and Argument Across Perspectives (CL2)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Breadth Social Sciences (BSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Breadth American Institutions (BAI) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective ART Course (ART2650 suggested) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	15.5	0

Requirement Select
- ART2260 - Intermediate Portfolio Preparation

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select
- ART2700 - Fine Art Seminar

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	0.5
Progress Credits	-
Contact Hours	0.5
Clinical	-
Criticality	No

Requirement Select
- Breadth Physical Sciences (BPS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Foreign Language Course (4 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective ART Course (ART2200 suggested) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- ARTH2710 - Survey of Western Art: Prehistoric to Medieval (BHU)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	16.5	0

Requirement Select
- ARTH2720 - Survey of Western Art: Renaissance to Post-Modern (BHU)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- ART2700 - Fine Art Seminar

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	0.5
Progress Credits	-
Contact Hours	0.5
Clinical	-
Criticality	No

Requirement Select

- Foreign Language Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Elective ART Course (ART2810 suggested) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Breadth Life Sciences (BLS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Elective ART Course (ART2110 suggested) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Program Learning Outcomes

Program Learning Outcomes

https://www.usu.edu/oda/assessment/

Art: Art Education - BFA

Program Overview

College
College of Arts & Sciences

Department
Art and Design

Program Level
Undergraduate

About this Degree

The **BFA** in Art Education is a professional degree requiring above-average accomplishment in art. Students must first apply and be accepted to a specific emphasis area. Only students demonstrating considerable promise will be accepted for this more demanding professional degree program. This degree fulfills the requirements for entrance into graduate schools of art.

Upon successful completion of all degree requirements, students will be eligible to apply for a Utah Educator License. The following links provide information about licensure:

- Earning a Utah Educator License: https://www.schools.utah.gov/curr/licensing/earning?mid=2465&aid=8
- Information about Licensure in Other States (Education Compliance Table): https://cehs.usu.edu/files/teacher-education/EducationLicensureComplianceTableApril2022.pdf
- For more information about Art Education, see the department website.
- Admitted and current students must meet with an advisor.
- Log on to Degree Works to check student-specific program progress.
- The highest math requirement for this degree is the fulfillment of the General Education Requirements of the Quantitative Literacy (QL) requirement.

Admission Requirements for this Program

- New freshmen must be admitted to USU in Good Standing as Pre-Art or Pre-ID.
- Transfer students from other institutions or other programs at USU are admitted with a 3.0 GPA. Students must also pass a competitive portfolio review. Space is limited. See department website for more information.

Program Requirements

Total Credits Required In Program Coursework
80

Total Credits Required To Earn This Credential
122

Simple Requisites

Program Requirements

This degree requires 80 semester credits in Art, leaving 42 credits to fulfill all other General Education, University Studies and Secondary Education requirements.

Additional Requirements

A GPA of 3.00 is required for the BFA degree. A grade of B- or better is required in all art (ART), art history (ARTH) and secondary education classes. Major requirements may *not* be taken for a pass/fail grade, except for courses only taught pass/fail.

Art: Art Education - BFA

Type
Completion Requirement

Art Major: Foundations Requirements (16 credits)

Complete ALL of the following Courses:

- ART1020 - Drawing I (BCA) - 3cr.
- ART1120 - Two-Dimensional Design - 3cr.
- ART1130 - Three-Dimensional Design - 3cr.
- ART2700 - Fine Art Seminar - 0.5cr.
- ARTH2710 - Survey of Western Art: Prehistoric to Medieval (BHU) - 3cr.
- ARTH2720 - Survey of Western Art: Renaissance to Post-Modern (BHU) - 3cr.

NOTE:

1. ART2700 FINE ART SEMINAR - Take 1 credit for Foundation Requirement.

Art Major: Art Education Requirements (64 credits)

Complete ALL of the following Courses:

- ART2200 - Painting I - 3cr.
- ART2230 - Basic Printmaking - 3cr.
- ART2400 - Introduction to Graphic Design - 3cr.
- ART2650 - Introduction to Ceramics - 3cr.
- ART2810 - Photography I - 3cr.
- ART3000 - Secondary Art Methods I - 3cr.
- ART3300 - Clinical Experience I - 1cr.
- ART4000 - Secondary Art Methods II - 3cr.
- ART4300 - Clinical Experience II - 1cr.
- ART4910 - BFA Professional Practice - 1cr.
- ART4915 - Senior BFA Exhibition - 1cr.
- ART5500 - Student Teaching Seminar - 2cr.
- ART5630 - Student Teaching in Secondary Schools - 10cr.

• ART 3000 Level or Higher - Studio Concentration courses (**21 credits**)
• ARTH 3000 Level or Higher (Upper-Division Art History) (**6 credits**)

Art Major: Art Education OPTIONAL K-5 Endorsement/Licensure (3 credits)

Complete ALL of the following Courses:

- ART3700 - Elementary Art Methods - 3cr.

Art Major: Secondary Teacher Education Preparation (STEP) Requirements (18 credits)

Complete ALL of the following Courses:

- ITLS2500 - Technology Enabled Instruction - 3cr.
- SCED3210 - Educational and Multicultural Foundations (DSS/CI) - 3cr.
- SCED5100 - Motivation and Classroom Management - 3cr.
- SCED5200 - Language, Literacy, and Learning in the Content Areas (CI) - 3cr.
- SCED5210 - Learning Theory, Curriculum, and Assessment - 3cr.
- SPED4000 - Education of Students with Disabilities - 3cr.

Open Electives (22 credits)

Complete the following as needed:
Total elective credit is determined by General Education courses taken, degree type selected, additional credits earned, and any additional math or other prerequisite courses needed. Please consult your Academic Advisor for details.

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Bachelor's Degree)

Suggested Degree Maps

Degree Map Name
Suggested Degree Map - Art: Art Education BFA
Total Degree Map Credits
128
Degree Map Effective Catalog Year
2026 -

Degree Map Narrative

- Following is a sample four-year plan. Please note that student-specific plans may differ.
- Meet with an academic advisor to create a specific plan that best fits your academic needs.
- The student is ultimately responsible for knowing and completing all degree requirements.
- Make sure you meet the registration requirements for each class by clicking the course link and checking any prerequisites or corequisites.
- Consultation with an advisor may result in an altered plan customized for an individual student.
- Check your Degree Works for requirements and completion.

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	12.5	0

Requirement Select
- ART1020 - Drawing I (BCA)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- ART1120 - Two-Dimensional Design
  OR
- ART1130 - Three-Dimensional Design

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- ART2700 - Fine Art Seminar

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	0.5
Progress Credits	-
Contact Hours	0.5
Clinical	-
Criticality	No

Requirement Select
- ARTH2710 - Survey of Western Art: Prehistoric to Medieval (BHU)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- ENGL1010 - Writing as Inquiry (CL1)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	15.5	0

Requirement Select
- Portfolio for ART BS review due. See department website for more information. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- ART1120 - Two-Dimensional Design
  OR
- ART1130 - Three-Dimensional Design

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- ART2700 - Fine Art Seminar

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	0.5
Progress Credits	-
Contact Hours	0.5
Clinical	-
Criticality	No

Requirement Select

- ART2810 - Photography I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- ARTH2720 - Survey of Western Art: Renaissance to Post-Modern (BHU)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- ENGL2010 - Research and Argument Across Perspectives (CL2)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Quantitative Literacy (QL) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	15	0

Requirement Select

- ART2200 - Painting I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- ART2400 - Introduction to Graphic Design

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Communications Intensive (CI) Courses
  OR
- ARTH 3000 Level or higher course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Breadth American Institutions (BAI) Course
  OR
- Breadth Life Sciences (BLS) Course
  OR
- Breadth Physical Sciences (BPS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Breadth American Institutions (BAI) Course
  OR
- Breadth Life Sciences (BLS) Course
  OR
- Breadth Physical Sciences (BPS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	15	0

Requirement Select

- Portfolios for the BFA review in Art Education due. See department website for more information (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- ART2650 - Introduction to Ceramics

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- ART class in area of concentration (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- ITLS2500 - Technology Enabled Instruction

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- SCED3210 - Educational and Multicultural Foundations (DSS/CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Breadth American Institutions (BAI) Course
  OR
- Breadth Life Sciences (BLS) Course
  OR
- Breadth Physical Sciences (BPS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Fall	14	0

Requirement Select

- ART2230 - Basic Printmaking

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- ART3000 - Secondary Art Methods I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- ART3300 - Clinical Experience I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- ART4910 - BFA Professional Practice

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- ITLS2500 - Technology Enabled Instruction
  OR
- SPED4000 - Education of Students with Disabilities

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Depth Life and Physical Sciences (DSC) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Spring	15	0

Requirement Select
- ARTH 3000 Level or Higher (CI) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- ART class in area of concentration (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- ART class in area of concentration (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- ART class in area of concentration (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Quantitative Literacy (QL) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Fall	13	0

Requirement Select
- ART4000 - Secondary Art Methods II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- ART4300 - Clinical Experience II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- ART class in area of concentration (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- ART class in area of concentration (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- SCED5100 - Motivation and Classroom Management

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Spring	13	0

Requirement Select
- ART4915 - Senior BFA Exhibition

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- ART class in area of concentration (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- ART class in area of concentration (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- SCED5200 - Language, Literacy, and Learning in the Content Areas (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- SCED5210 - Learning Theory, Curriculum, and Assessment

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 5	Fall	12	0

Requirement Select
- ART5500 - Student Teaching Seminar

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select

- ART5630 - Student Teaching in Secondary Schools

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	10
Progress Credits	-
Contact Hours	10
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 5	Spring	3	0

Requirement Select

- The courses listed this semester are OPTIONAL for K-5 Endorsement/Licensure (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- ART3700 - Elementary Art Methods

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Program Learning Outcomes

Program Learning Outcomes

https://www.usu.edu/oda/assessment/

Art - BA

Program Overview

College	Department	Program Level
College of Arts & Sciences	Art and Design	Undergraduate

About this Degree

The BA degree is a general art degree for the student who is not interested in specializing in one area of art. Students who desire to receive a BA degree in Art must meet the university language requirements and must earn a minimum of 50 semester credits in Art, leaving approximately 54 credits to fulfill all other General Education and University Studies requirements. This degree does not fulfill the requirements for entrance into the graduate schools of art.

- For more information about Art, see the department website here.
- Admitted and current students must meet with an advisor.
- Log on to Degree Works to check student-specific program progress.
- The highest math requirement for this degree is the fulfillment of the Quantitative Literacy (QL) requirement.

Admission Requirements for this Program

- New freshmen must be admitted to USU in Good Standing as Pre-Art or Pre-ID.
- Transfer students from other institutions or other programs at USU are admitted with a 2.75 GPA. Students must also pass a competitive portfolio review. Space is limited.
- See department website for more information.

Program Requirements

Total Credits Required In Program Coursework	Total Credits Required To Earn This Credential
	120

Simple Requisites

Program Requirements

Additional Requirements

A cumulative GPA of 2.75 is required for the BA degree. A grade of B- or better is required in all art (ART) and art history (ARTH) classes. Major requirements may *not* be taken on a pass/fail basis, except ART2700 FINE ART SEMINAR.

Art Major

Type

Completion Requirement

Foundations Requirements (16 credits)

Complete ALL of the following Courses:

- ART1020 - Drawing I (BCA) - 3cr.
- ART1120 - Two-Dimensional Design - 3cr.
- ART1130 - Three-Dimensional Design - 3cr.
- ART2700 - Fine Art Seminar - 0.5cr.
- ARTH2710 - Survey of Western Art: Prehistoric to Medieval (BHU) - 3cr.
- ARTH2720 - Survey of Western Art: Renaissance to Post-Modern (BHU) - 3cr.

NOTE:

1. ART2700 FINE ART SEMINAR - Take 1 credit for Foundation requirement.

Major Requirements (21 credits)

Complete ALL of the following Courses:

- ART2110 - Drawing II - 3cr.
- ART2200 - Painting I - 3cr.
- ART2230 - Basic Printmaking - 3cr.
- ART2400 - Introduction to Graphic Design - 3cr.
- ART2600 - Basic Sculpture - 3cr.
- ART2650 - Introduction to Ceramics - 3cr.
- ART2810 - Photography I - 3cr.

Major Remaining Requirements (13 credits)

Complete ALL of the following Courses:

- ART2700 - Fine Art Seminar - 0.5cr.

• ART 3000- or 4000-level Art Electives (11 credits)

NOTE:

1. ART2700 FINE ART SEMINAR - Take 2 additional credits.

Open Electives

Complete the following as needed:
Total elective credit is determined by General Education courses taken, degree type selected, additional credits earned, and any additional math or other prerequisite courses needed. Please consult your Academic Advisor for details.

Additional Comments:

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Bachelor's Degree)

Suggested Degree Maps

Degree Map Name
Suggested Degree Map - Art - BA
Total Degree Map Credits
121
Degree Map Effective Catalog Year
2026 -

Degree Map Narrative

- Following is a sample four-year plan. Please note that student-specific plans may differ.
- Meet with an academic advisor to create a specific plan that best fits your academic needs.
- The student is ultimately responsible for knowing and completing all degree requirements.
- Make sure you meet the registration requirements for each class by clicking the course link and checking any prerequisites or corequisites.
- Consultation with an advisor may result in an altered plan customized for an individual student.
- Check your Degree Works for requirements and completion.

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	15.5	0

Requirement Select

- ART1020 - Drawing I (BCA)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- ART1120 - Two-Dimensional Design
  OR
- ART1130 - Three-Dimensional Design

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- ART2700 - Fine Art Seminar

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	0.5
Progress Credits	-
Contact Hours	0.5
Clinical	-
Criticality	No

Requirement Select

- ARTH2710 - Survey of Western Art: Prehistoric to Medieval (BHU)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- ENGL1010 - Writing as Inquiry (CL1)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Breadth American Institutions (BAI) Course
  OR
- Breadth Life Sciences (BLS) Course
  OR
- Breadth Physical Sciences (BPS) Course
  OR
- Breadth Social Sciences (BSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	15.5	0

Requirement Select

- ART1120 - Two-Dimensional Design
  OR
- ART1130 - Three-Dimensional Design

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- ART2700 - Fine Art Seminar

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	0.5
Progress Credits	-
Contact Hours	0.5
Clinical	-
Criticality	No

Requirement Select

- Art Core Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- ARTH2720 - Survey of Western Art: Renaissance to Post-Modern (BHU)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- ENGL2010 - Research and Argument Across Perspectives (CL2)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Quantitative Literacy (QL) Course
  OR
- ALEKS Math Placement Exam (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	16.5	0

Requirement Select

- ART2700 - Fine Art Seminar

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	0.5
Progress Credits	-
Contact Hours	0.5
Clinical	-
Criticality	No

Requirement Select

- Art Core Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Art Core Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Foreign Language course as approved by your advisor (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Breadth American Institutions (BAI) Course
  OR
- Breadth Life Sciences (BLS) Course
  OR
- Breadth Physical Sciences (BPS) Course
  OR
- Breadth Social Sciences (BSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Breadth American Institutions (BAI) Course
  OR
- Breadth Life Sciences (BLS) Course
  OR
- Breadth Physical Sciences (BPS) Course
  OR
- Breadth Social Sciences (BSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	16.5	0

Requirement Select
- ART2700 - Fine Art Seminar

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	0.5
Progress Credits	-
Contact Hours	0.5
Clinical	-
Criticality	No

Requirement Select
- Art Core Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Art Core Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Foreign Language Course (First Year II) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Breadth American Institutions (BAI) Course

OR
- Breadth Life Sciences (BLS) Course

OR
- Breadth Physical Sciences (BPS) Course

OR
- Breadth Social Sciences (BSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- General Elective 3000 Level or Higher (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Fall	13.5	0

Requirement Select
- ART2700 - Fine Art Seminar

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	0.5
Progress Credits	-
Contact Hours	0.5
Clinical	-
Criticality	No

Requirement Select
- Art Core Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Art Core Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Foreign Language Course (Second Year I) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Communications Intensive (CI) Courses

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Spring	13.5	0

Requirement Select
- ART2700 - Fine Art Seminar

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	0.5
Progress Credits	-
Contact Hours	0.5
Clinical	-
Criticality	No

Requirement Select
- ART 3000 Level or Higher (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- ART 3000 Level or Higher (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Foreign Language (Second Year II) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Communications Intensive (CI) Courses

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Fall	15	0

Requirement Select
- Quantitative Intensive (QI) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- ART 3000 Level or Higher (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- General Elective 3000 Level or Higher (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- General Elective 3000 Level or Higher (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- General Elective 3000 Level or Higher (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Spring	15	0

Requirement Select
- ART 3000 Level or Higher (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Depth Life and Physical Sciences (DSC) Course
  OR
- Depth Social Sciences (DSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Depth Life and Physical Sciences (DSC) Course
  OR
- Depth Social Sciences (DSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- General Elective 3000 Level or Higher (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- General Elective 3000 Level or Higher (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Program Learning Outcomes

Program Learning Outcomes
https://www.usu.edu/oda/assessment/

Art - BS

Program Overview

College	Department	Program Level
College of Arts & Sciences	Art and Design	Undergraduate

About this Degree
The BS degree is a general art degree for the student who is not interested in specializing in one area of art. This degree requires 50 semester credits in Art courses, leaving 70 credits to fulfill all other General Education and University Studies requirements. This degree does not fulfill the requirements for entrance into graduate schools of art.

- For more information about Art, see the department website here.
- Admitted and current students must meet with an advisor.
- Log on to Degree Works to check student-specific program progress.
- The highest math requirement for this degree is the fulfillment of the Quantitative Literacy (QL) requirement.

Admission Requirements for this Program
- New freshmen must be admitted to USU in Good Standing as Pre-Art, or Pre-ID.
- Transfer students from other institutions or other programs at USU are admitted with a 2.75 GPA. Students must also pass a competitive portfolio review. Space is limited.
- See department website for more information.

Program Requirements

Total Credits Required In Program Coursework	Total Credits Required To Earn This Credential
50	120

Simple Requisites

Program Requirements

Additional Requirements

A cumulative GPA of 2.75 is required for the BS degree. A grade of B- or better is required in all art (ART) and art history (ARTH) classes. Major requirements may not be taken on a pass/fail basis, except ART2700 FINE ART SEMINAR.

Art Major

Type
Completion Requirement

Foundations Requirements (16 credits)

Complete ALL of the following Courses:
- ART1020 - Drawing I (BCA) - 3cr.
- ART1120 - Two-Dimensional Design - 3cr.
- ART1130 - Three-Dimensional Design - 3cr.
- ART2700 - Fine Art Seminar - 0.5cr.
- ARTH2710 - Survey of Western Art: Prehistoric to Medieval (BHU) - 3cr.
- ARTH2720 - Survey of Western Art: Renaissance to Post-Modern (BHU) - 3cr.

NOTE:

1. ART2700 FINE ART SEMINAR - Take 1 credit for Foundation requirement.

Major Requirements (21 credits)

Complete ALL of the following Courses:

- ART2110 - Drawing II - 3cr.
- ART2200 - Painting I - 3cr.
- ART2230 - Basic Printmaking - 3cr.
- ART2400 - Introduction to Graphic Design - 3cr.
- ART2600 - Basic Sculpture - 3cr.
- ART2650 - Introduction to Ceramics - 3cr.
- ART2810 - Photography I - 3cr.

Major Remaining Requirements (13 credits)

Complete ALL of the following Courses:

- ART2700 - Fine Art Seminar - 0.5cr.

• ART 3000- or 4000-level Art Electives (11 credits)

NOTE:

1. ART2700 FINE ART SEMINAR - Take 2 additional credits.

Open Electives

Complete the following as needed:
Total elective credit is determined by General Education courses taken, degree type selected, additional credits earned, and any additional math or other prerequisite courses needed. Please consult your Academic Advisor for details.

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Bachelor's Degree)

Suggested Degree Maps

Degree Map Name
Suggested Degree Map - Art - BS
Total Degree Map Credits
120 - 122
Degree Map Effective Catalog Year
2026 -

Degree Map Narrative

- Following is a sample four-year plan. Please note that student-specific plans may differ.
- Meet with an academic advisor to create a specific plan that best fits your academic needs.
- The student is ultimately responsible for knowing and completing all degree requirements.
- Make sure you meet the registration requirements for each class by clicking the course link and checking any prerequisites or corequisites.
- Consultation with an advisor may result in an altered plan customized for an individual student.
- Check your Degree Works for requirements and completion.

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	15.5	0

Requirement Select

- ART1020 - Drawing I (BCA)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- ART1120 - Two-Dimensional Design
  OR
- ART1130 - Three-Dimensional Design

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- ART2700 - Fine Art Seminar

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	0.5
Progress Credits	-
Contact Hours	0.5
Clinical	-
Criticality	No

Requirement Select

- ARTH2710 - Survey of Western Art: Prehistoric to Medieval (BHU)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- ENGL1010 - Writing as Inquiry (CL1)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Breadth American Institutions (BAI) Course
  OR
- Breadth Life Sciences (BLS) Course
  OR
- Breadth Physical Sciences (BPS) Course
  OR
- Breadth Social Sciences (BSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	15.5 - 17.5	0

Requirement Select

- Portfolio for ART BS review due. See department website for more information. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- ART1120 - Two-Dimensional Design
  OR
- ART1130 - Three-Dimensional Design

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- ART2700 - Fine Art Seminar

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	0.5
Progress Credits	-
Contact Hours	0.5
Clinical	-
Criticality	No

Requirement Select

- ARTH2720 - Survey of Western Art: Renaissance to Post-Modern (BHU)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- ENGL2010 - Research and Argument Across Perspectives (CL2)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Art Core Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Quantitative Literacy (QL) Course
  OR
- Math Placement (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 5
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	15.5	0

Requirement Select
- ART2700 - Fine Art Seminar

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	0.5
Progress Credits	-
Contact Hours	0.5
Clinical	-
Criticality	No

Requirement Select
- Art Core Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Art Core Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Breadth American Institutions (BAI) Course
  OR
- Breadth Life Sciences (BLS) Course
  OR
- Breadth Physical Sciences (BPS) Course
  OR
- Breadth Social Sciences (BSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Breadth American Institutions (BAI) Course
  OR
- Breadth Life Sciences (BLS) Course
  OR
- Breadth Physical Sciences (BPS) Course
  OR
- Breadth Social Sciences (BSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- General Elective course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	15.5	0

Requirement Select

- ART2700 - Fine Art Seminar

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	0.5
Progress Credits	-
Contact Hours	0.5
Clinical	-
Criticality	No

Requirement Select

- Art Core Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Art Core Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Breadth American Institutions (BAI) Course

OR

- Breadth Life Sciences (BLS) Course

OR

- Breadth Physical Sciences (BPS) Course

OR

- Breadth Social Sciences (BSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- General Elective course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- General Elective course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Fall	15.5	0

Requirement Select

- ART2700 - Fine Art Seminar

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	0.5
Progress Credits	-
Contact Hours	0.5
Clinical	-
Criticality	No

Requirement Select
- Art Core course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Art Core course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Communications Intensive (CI) Courses

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Depth Life and Physical Sciences (DSC) Course

OR
- Depth Social Sciences (DSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- General Elective course 3000 Level or Higher (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Spring	15.5	0

Requirement Select
- ART2700 - Fine Art Seminar

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	0.5
Progress Credits	-
Contact Hours	0.5
Clinical	-
Criticality	No

Requirement Select
- ART 3000 Level or Higher (see advisor for course options) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- ART 3000 Level or Higher (see advisor for course options) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Communications Intensive (CI) Courses

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Depth Life and Physical Sciences (DSC) Course

OR

- Depth Social Sciences (DSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- General Elective 3000 Level or Higher (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Fall	15	0

Requirement Select

- ART 3000 Level or Higher (see advisor for course options) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- ART 3000 Level or Higher (see advisor for course options) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Quantitative Intensive (QI) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- General Elective (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- General Elective (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Spring	12	0

Requirement Select

- General Elective course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- General Elective course 3000 Level or Higher (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- General Elective course 3000 Level or Higher (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- General Elective course 3000 Level or Higher (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Program Learning Outcomes

Program Learning Outcomes

https://www.usu.edu/oda/assessment/

Art: Ceramics - BFA

Program Overview

College
College of Arts & Sciences

Department
Art and Design

Program Level
Undergraduate

About this Degree

The **BFA** is a professional degree requiring above-average accomplishment in art. Students must first apply and be accepted to a specific emphasis area.

Only students demonstrating considerable promise will be accepted for this more demanding professional degree program.

This degree fulfills the requirements for entrance into graduate schools of art.

- For more information about Ceramics, see the Department of Art and Design website.
- Admitted and current students should also meet with an advisor.
- Log on to Degree Works to check student-specific program progress.
- The highest math requirement for this degree is the fulfillment of the General Education Requirements of the Quantitative Literacy (QL) requirement.

Admission Requirements for this Program

- New freshmen must be admitted to USU in Good Standing as Pre-Art or Pre-ID.
- Transfer students from other institutions or other programs at USU are admitted with a 2.75 GPA. Students must also pass a competitive portfolio review. Space is limited. See department website for more information.

Program Requirements

Total Credits Required In Program Coursework
78

Total Credits Required To Earn This Credential
120

Simple Requisites

Program Requirements

This degree requires 78 semester credits in Art courses, leaving 42 credits to fulfill all other General Education and University Studies requirements.

Additional Requirements
A cumulative GPA of 2.75 is required for the BFA degree. A grade of B- or better is required in all art (ART) and art history (ARTH) classes. A grade of C or better is required in CHEM1010 INTRO TO CHEMISTRY (BPS) or CHEM1110 GENERAL CHEMISTRY I (BPS) and GEO1010 INTRO TO GEOLOGY (BPS) or GEO1110 PHYSICAL GEOLOGY (BPS) classes. Courses for the major may *not* be taken on a pass/fail basis, except ART2700 FINE ART SEMINAR and ART4915 BFA EXHIBITION.

Art - Ceramics Emphasis - BFA

Type
Completion Requirement

Art Major: Foundations Courses (16 credits)

Complete ALL of the following Courses:

- ART1020 - Drawing I (BCA) - 3cr.
- ART1120 - Two-Dimensional Design - 3cr.
- ART1130 - Three-Dimensional Design - 3cr.
- ART2700 - Fine Art Seminar - 0.5cr.
- ARTH2710 - Survey of Western Art: Prehistoric to Medieval (BHU) - 3cr.
- ARTH2720 - Survey of Western Art: Renaissance to Post-Modern (BHU) - 3cr.

NOTE:

1. ART2700 FINE ART SEMINAR - Take 1 credit for Foundation Requirement.

Art Major: Art Ceramics Core Requirements (9 credits)

Complete at least 3 of the following courses:

- ART2200 - Painting I - 3cr.
- ART2230 - Basic Printmaking - 3cr.
- ART2400 - Introduction to Graphic Design - 3cr.
- ART2810 - Photography I - 3cr.

Art Major: Ceramics Requirements (59-60 credits)

Complete ALL of the following Courses:

- ART2110 - Drawing II - 3cr.
- ART2600 - Basic Sculpture - 3cr.
- ART2650 - Introduction to Ceramics - 3cr.
- ART2700 - Fine Art Seminar - 0.5cr.
- ART3650 - Intermediate Ceramics: Handbuilding - 3cr.
- ART3660 - Intermediate Ceramics: Throwing on the Potter's Wheel - 3cr.
- ART4640 - Technology of Ceramic Art - 3cr.
- ART4650 - Advanced Ceramic Studio - 3cr.
- ART4910 - BFA Professional Practice - 1cr.
- ART4915 - Senior BFA Exhibition - 1cr.
- CHEM1010 - Introduction to Chemistry (BPS) - 3cr. **OR** CHEM1110 - General Chemistry I (BPS) - 4cr.
- GEO1010 - Introduction to Geology (BPS) - 3cr. **OR** GEO1110 - Physical Geology (BPS) - 3cr.

● ART 3XXX or 4XXX - Art Elective (**4 credits**)
● ARTH 3000 Level or Higher (Upper-Division Art History) (**6 credits**)

NOTE:

1. ART2700 FINE ART SEMINAR - Take 2 additional credits.
2. ART4640 TECHNOLOGY OF CERAMIC ART - Take 12 credits.
3. ART4650 ADV CERAMIC STUDIO - Take 12 credits.

Open Electives

Complete the following as needed:
Total elective credit is determined by General Education courses taken, degree type selected, additional credits earned, and any additional math or other prerequisite courses needed. Please consult your Academic Advisor for details.

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Bachelor's Degree)

Suggested Degree Maps

Degree Map Name
Suggested Degree Map - Art: Ceramics - BFA
Total Degree Map Credits
120 - 123
Degree Map Effective Catalog Year
2026 -

Degree Map Narrative

- Following is a sample four-year plan. Please note that student-specific plans may differ.
- Meet with an academic advisor to create a specific plan that best fits your academic needs.
- The student is ultimately responsible for knowing and completing all degree requirements.
- Make sure you meet the registration requirements for each class by clicking the course link and checking any prerequisites or corequisites.
- Consultation with an advisor may result in an altered plan customized for an individual student
- Check your Degree Works for requirements and completion.

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	15.5	0

Requirement Select
- ART1020 - Drawing I (BCA)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- ART1120 - Two-Dimensional Design

OR
- ART1130 - Three-Dimensional Design

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- ART2700 - Fine Art Seminar

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	0.5
Progress Credits	-
Contact Hours	0.5
Clinical	-
Criticality	No

Requirement Select
- ARTH2710 - Survey of Western Art: Prehistoric to Medieval (BHU)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- ENGL1010 - Writing as Inquiry (CL1)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Breadth American Institutions (BAI) Course

OR
- Breadth Life Sciences (BLS) Course

OR
- Breadth Social Sciences (BSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	15.5 - 17.5	0

Requirement Select

- Portfolios for the ART BS review due. See department website for more information. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- ART1120 - Two-Dimensional Design

OR

- ART1130 - Three-Dimensional Design

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- ART2650 - Introduction to Ceramics

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- ART2700 - Fine Art Seminar

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	0.5
Progress Credits	-
Contact Hours	0.5
Clinical	-
Criticality	No

Requirement Select

- ARTH2720 - Survey of Western Art: Renaissance to Post-Modern (BHU)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- ENGL2010 - Research and Argument Across Perspectives (CL2)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Quantitative Literacy (QL) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 5
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	15.5 - 16.5	0

Requirement Select

- Students submit portfolio this semester. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- ART2600 - Basic Sculpture

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- ART2700 - Fine Art Seminar

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	0.5
Progress Credits	-
Contact Hours	0.5
Clinical	-
Criticality	No

Requirement Select

- ART3650 - Intermediate Ceramics: Handbuilding
  OR
- ART3660 - Intermediate Ceramics: Throwing on the Potter's Wheel

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- CHEM1010 - Introduction to Chemistry (BPS)
  OR
- CHEM1110 - General Chemistry I (BPS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 4
Progress Credits	-
Contact Hours	3 - 4
Clinical	-
Criticality	No

Requirement Select

- Breadth American Institutions (BAI) Course
  OR
- Breadth Life Sciences (BLS) Course
  OR
- Breadth Social Sciences (BSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- General Elective (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	15.5	0

Requirement Select

- Portfolios for the BFA review in Ceramics due. See department website for more information. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- ART2110 - Drawing II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- ART2700 - Fine Art Seminar

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	0.5
Progress Credits	-
Contact Hours	0.5
Clinical	-
Criticality	No

Requirement Select
- ART3650 - Intermediate Ceramics: Handbuilding
  OR
- ART3660 - Intermediate Ceramics: Throwing on the Potter's Wheel

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- GEO1010 - Introduction to Geology (BPS)
  OR
- GEO1110 - Physical Geology (BPS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Communications Intensive (CI) Courses
  OR
- ARTH 3000 Level or higher course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Breadth American Institutions (BAI) Course
  OR
- Breadth Life Sciences (BLS) Course
  OR
- Breadth Social Sciences (BSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Fall	16.5	0

Requirement Select
- ART2700 - Fine Art Seminar

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	0.5
Progress Credits	-
Contact Hours	0.5
Clinical	-
Criticality	No

Requirement Select
- ART4640 - Technology of Ceramic Art

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- ART4650 - Advanced Ceramic Studio

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3 - 6
Clinical	-
Criticality	No

Requirement Select
- Art Core course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- ART4910 - BFA Professional Practice

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- Communications Intensive (CI) Courses

OR
- ARTH 3000 Level or higher course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Depth Life and Physical Sciences (DSC) Course

OR
- Depth Social Sciences (DSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Spring	15.5	0

Requirement Select
- ART2700 - Fine Art Seminar

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	0.5
Progress Credits	-
Contact Hours	0.5
Clinical	-
Criticality	No

Requirement Select
- ART4640 - Technology of Ceramic Art

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- ART4650 - Advanced Ceramic Studio

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3 - 6
Clinical	-
Criticality	No

Requirement Select
- Art Elective course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Depth Life and Physical Sciences (DSC) Course
  OR
- Depth Social Sciences (DSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Quantitative Intensive (QI) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Fall	12	0

Requirement Select

- ART4640 - Technology of Ceramic Art

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- ART4650 - Advanced Ceramic Studio

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3 - 6
Clinical	-
Criticality	No

Requirement Select

- Art Core course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- General Elective (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Spring	14	0

Requirement Select

- ART4640 - Technology of Ceramic Art

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- ART4650 - Advanced Ceramic Studio

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3 - 6
Clinical	-
Criticality	No

Requirement Select

- ART4915 - Senior BFA Exhibition

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- Art Core course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Art Elective (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- General Elective (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Program Learning Outcomes

Program Learning Outcomes

https://www.usu.edu/oda/assessment/

Art: Drawing and Painting - BFA

Program Overview

College
College of Arts & Sciences

Department
Art and Design

Program Level
Undergraduate

About this Degree

The BFA is a professional art degree requiring above-average accomplishment in art. Only students demonstrating considerable promise will be accepted for this more demanding professional degree program.

Students majoring in Art at USU have a world of options at their disposal. Each emphasis features in-depth coursework that encourages students to develop their own artistic ideas and style, in addition to solid foundation knowledge of artistic traditions throughout history. Professors are extremely talented artists as well as effective teachers, and they are dedicated to giving students individual attention and mentoring. The Department of Art has a competitive portfolio admission, which allows it to offer smaller classes where students receive individual time with professors. Students also have the opportunity to participate in faculty-supervised group and solo exhibitions.

Drawing and Painting: This emphasis includes the two-dimensional study of form and space, as well as the exploration of drawing and painting media, graphic elements, and visual dynamics.

This degree fulfills the requirements for entrance into graduate schools of art.

- For more information about The Department of Art and Design, see the website.
- Admitted and current students must meet with an advisor.
- Log on to Degree Works to check student-specific program progress.
- The highest math requirement for this degree is the fulfillment of the General Education Requirements for the Quantitative Literacy (QL) requirement.

Admission Requirements for this Program

- New freshmen must be admitted to USU in Good Standing as Pre-Art or Pre-ID.
- Transfer students from other institutions or other programs at USU are admitted with a 2.75 GPA. Students must also pass a competitive portfolio review. Space is limited. See department website for more information.

Program Requirements

Total Credits Required In Program Coursework
78

Total Credits Required To Earn This Credential
120

Simple Requisites

Program Requirements

This degree requires 78 semester credits in Art courses, leaving 42 credits to fulfill all other General Education and University Studies requirements.

Additional Requirements
A cumulative GPA of 2.75 is required for the BFA degree. A grade of B- or better is required in all art (ART) and art history (ARTH) classes. Courses may *not* be taken for a pass/fail grade, except ART2700 FINE ART SEMINAR and ART4915 BFA EXHIBITION.

Major Requirements (78 credits)

Type
Completion Requirement

Art Major: Foundations Requirements (16 credits)

Complete ALL of the following Courses:

- ART1020 - Drawing I (BCA) - 3cr.
- ART1120 - Two-Dimensional Design - 3cr.
- ART1130 - Three-Dimensional Design - 3cr.
- ART2700 - Fine Art Seminar - 0.5cr.
- ARTH2710 - Survey of Western Art: Prehistoric to Medieval (BHU) - 3cr.
- ARTH2720 - Survey of Western Art: Renaissance to Post-Modern (BHU) - 3cr.

NOTE:

1. ART2700 FINE ART SEMINAR - Take 1 credit for Foundation Requirement.

Art Major Drawing and Painting Requirements (6 credits)

Complete at least 2 of the following courses:

- ART2400 - Introduction to Graphic Design - 3cr.
- ART2600 - Basic Sculpture - 3cr.
- ART2650 - Introduction to Ceramics - 3cr.

Art Major Drawing and Painting Printmaking Courses (3 credits)

Complete at least 1 of the following courses:

- ART3220 - Screen Printing - 3cr.
- ART3230 - Lithography - 3cr.
- ART3240 - Intaglio - 3cr.
- ART3250 - Relief Prints - 3cr.

Art Major: Drawing and Painting Courses (53 credits)

Complete ALL of the following Courses:

- ART2110 - Drawing II - 3cr.
- ART2200 - Painting I - 3cr.
- ART2230 - Basic Printmaking - 3cr.
- ART2700 - Fine Art Seminar - 0.5cr.
- ART2810 - Photography I - 3cr.
- ART3200 - Painting II - 3cr.
- ART3270 - Color: Theory and Practice - 3cr.
- ART4200 - Advanced Drawing and Painting Studio - 3cr.
- ART4210 - Figure Drawing & Painting - 3cr.
- ART4220 - Landscape Drawing and Painting - 3cr.
- ART4270 - Special Topics: Drawing and Painting - 3cr.
- ART4910 - BFA Professional Practice - 1cr.
- ART4915 - Senior BFA Exhibition - 1cr.
- ARTH3750 - High-Modernism To Post - Modernism: 1945-1989 (CI) - 3cr.

• ART 3000 Level or Higher - Art Electives (7 credits)
• ARTH 3000 Level or Higher (Upper-Division Art History) (3 credits)

NOTE:

1. ART2700 FINE ART SEMINAR - Take 2 additional credits.
2. ART4200 ADV DRAWING/PAINTING STUDIO - Take 6 credits
3. ART4270 ST: DRAWING AND PAINTING - Take 6 credits

Open Electives

Complete the following as needed:

Total elective credit is determined by General Education courses taken, degree type selected, additional credits earned, and any additional math or other prerequisite courses needed. Please consult your Academic Advisor for details.

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Bachelor's Degree)

Suggested Degree Maps

Degree Map Name
Suggested Degree Map - Art: Drawing and Painting BFA
Total Degree Map Credits
120
Degree Map Effective Catalog Year
2026 -

Degree Map Narrative

- Following is a sample four-year plan. Please note that student-specific plans may differ.
- Meet with an academic advisor to create a specific plan that best fits your academic needs.
- The student is ultimately responsible for knowing and completing all degree requirements.
- Make sure you meet the registration requirements for each class by clicking the course link and checking any prerequisites or corequisites.
- Consultation with an advisor may result in an altered plan customized for an individual student
- Check your Degree Works for requirements and completion.

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	15.5	0

Requirement Select
- ART1020 - Drawing I (BCA)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- ART1120 - Two-Dimensional Design
  OR
- ART1130 - Three-Dimensional Design

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- ART2700 - Fine Art Seminar

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	0.5
Progress Credits	-
Contact Hours	0.5
Clinical	-
Criticality	No

Requirement Select
- ARTH2710 - Survey of Western Art: Prehistoric to Medieval (BHU)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- ENGL1010 - Writing as Inquiry (CL1)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Breadth American Institutions (BAI) Course
  OR
- Breadth Life Sciences (BLS) Course
  OR
- Breadth Physical Sciences (BPS) Course
  OR
- Breadth Social Sciences (BSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	15.5	0

Requirement Select

- Portfolios for ART BS review due. See department website for more information. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- ART1120 - Two-Dimensional Design
  OR
- ART1130 - Three-Dimensional Design

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- ART2110 - Drawing II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- ART2700 - Fine Art Seminar

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	0.5
Progress Credits	-
Contact Hours	0.5
Clinical	-
Criticality	No

Requirement Select

- ARTH2720 - Survey of Western Art: Renaissance to Post-Modern (BHU)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- ENGL2010 - Research and Argument Across Perspectives (CL2)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Quantitative Literacy (QL) Course
  OR
- Take Math Placement test (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	15.5	0

Requirement Select

- Portfolios for the BFA review in Drawing & Painting due. See department website for more information. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- ART2200 - Painting I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- ART2230 - Basic Printmaking

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- ART2700 - Fine Art Seminar

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	0.5
Progress Credits	-
Contact Hours	0.5
Clinical	-
Criticality	No

Requirement Select

- ARTH3750 - High-Modernism To Post - Modernism: 1945-1989 (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Breadth American Institutions (BAI) Course
  OR
- Breadth Life Sciences (BLS) Course
  OR
- Breadth Physical Sciences (BPS) Course
  OR
- Breadth Social Sciences (BSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Breadth American Institutions (BAI) Course
  OR
- Breadth Life Sciences (BLS) Course
  OR
- Breadth Physical Sciences (BPS) Course
  OR
- Breadth Social Sciences (BSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	15.5	0

Requirement Select

- ART2700 - Fine Art Seminar

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	0.5
Progress Credits	-
Contact Hours	0.5
Clinical	-
Criticality	No

Requirement Select

- ART3200 - Painting II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Art Drawing and Painting (Printmaking course) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Communications Intensive (CI) Courses
  OR
- ARTH 3000 Level or higher course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Breadth American Institutions (BAI) Course
  OR
- Breadth Life Sciences (BLS) Course
  OR
- Breadth Physical Sciences (BPS) Course
  OR
- Breadth Social Sciences (BSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- General Elective (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Fall	16.5	0

Requirement Select
- ART2700 - Fine Art Seminar

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	0.5
Progress Credits	-
Contact Hours	0.5
Clinical	-
Criticality	No

Requirement Select
- ART2810 - Photography I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- ART4220 - Landscape Drawing and Painting

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- ART4910 - BFA Professional Practice

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- Art Core Emphasis course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Depth Life and Physical Sciences (DSC) Course

OR
- Depth Social Sciences (DSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Quantitative Intensive (QI) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Spring	15.5	0

Requirement Select
- ART2700 - Fine Art Seminar

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	0.5
Progress Credits	-
Contact Hours	0.5
Clinical	-
Criticality	No

Requirement Select

- ART4210 - Figure Drawing & Painting

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- ART4270 - Special Topics: Drawing and Painting

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Art Core Emphasis course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Depth Life and Physical Sciences (DSC) Course

OR

- Depth Social Sciences (DSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- General Elective (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Fall	12	0

Requirement Select

- ART3270 - Color: Theory and Practice

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- ART4200 - Advanced Drawing and Painting Studio

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3 - 6
Clinical	-
Criticality	No

Requirement Select

- Students shgould register for 3credits of ART4200. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- ART Elective course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- General Elective (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Spring	14	0

Requirement Select
- ART4200 - Advanced Drawing and Painting Studio

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3 - 6
Clinical	-
Criticality	No

Requirement Select
- Students should register for 3 credits of ART4200. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- ART4270 - Special Topics: Drawing and Painting

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- ART4915 - Senior BFA Exhibition

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- ART Elective course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- General Elective (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Program Learning Outcomes

Program Learning Outcomes
https://www.usu.edu/oda/assessment/

Art: Graphic Design - BFA

Program Overview

College
College of Arts & Sciences

Department
Art and Design

Program Level
Undergraduate

About this Degree
Students majoring in art at USU have a world of options at their disposal. Each emphasis features in-depth coursework that encourages students to develop their own artistic ideas and style, in addition to solid foundation knowledge of artistic traditions throughout history. Professors are extremely talented artists as well as effective teachers, and they are dedicated to giving students individual attention and mentoring. The Department of Art has a competitive portfolio admission, which allows it to offer smaller classes where students receive individual time with professors. Students also have the opportunity to participate in faculty-supervised group and solo exhibitions.

The **BFA** is a professional degree requiring above-average accomplishment in art. Students must first apply and be accepted to a specific emphasis area. Students receiving a **BS** do not have an emphasis, and instead have a non-specific, general art degree. To receive a **BA**, students must also gain proficiency in one or more foreign languages.

Graphic Design Emphasis:
Students in graphic design complete a variety of courses that involve working with symbols, trademarks, typography, layout, and all formats of print and publication design. Illustration, digital imaging, motion graphics, animation, and interactive media are also part of the graphic design curriculum.

- For more information about Graphic Design, see our website.
- Admitted and current students should also meet with an advisor.
- Log on to Degree Works to check student-specific program progress.
- The highest math requirement for this degree is the fulfillment of the Quantitative Literacy (QL) requirement.

Admission Requirements for this Program
- New freshmen must be admitted to USU in Good Standing as Pre-Art or Pre-ID.
- Transfer students from other institutions or other programs at USU are admitted with a 2.75 GPA. Students must also pass a competitive portfolio review. Space is limited.
- See department website for more information.

Program Requirements

Total Credits Required In Program Coursework
78

Total Credits Required To Earn This Credential
120

Simple Requisites

Program Requirements

The BFA is a professional art degree requiring above-average accomplishment in art. Only students demonstrating considerable promise will be accepted for this more demanding professional degree program. This degree requires 78 semester credits in Art courses, leaving 42 credits to fulfill all other General Education and University Studies requirements. A cumulative GPA of 2.75 is required for the BFA degree. A grade of B- or better is required in all art (ART) and art history (ARTH) classes. Courses may not be taken on a pass/fail basis, except ART2700 FINE ART SEMINAR and ART4915 BFA EXHIBITION. This degree fulfills the requirements for entrance into graduate schools of art.

Students must complete the General Education Requirements.

Students must also complete the University Studies Requirements.

- For most students, courses taken for the major will fulfill the Communications Intensive (CI) requirement.
- Students must take one course having a QI designation to fulfill the Quantitative Intensive (QI) requirement.
- Complete at least 2 credits in approved 3000-level or above courses from each of the following two categories: Depth Life and Physical Sciences (DSC) and Depth Social Sciences (DSS).

Art - Graphic Design Emphasis - BFA

Type

Completion Requirement

Art Major: Foundations Requirements (16 credits)

Complete ALL of the following Courses:

- ART1020 - Drawing I (BCA) - 3cr.
- ART1120 - Two-Dimensional Design - 3cr.
- ART1130 - Three-Dimensional Design - 3cr.
- ART2700 - Fine Art Seminar - 0.5cr.
- ARTH2710 - Survey of Western Art: Prehistoric to Medieval (BHU) - 3cr.
- ARTH2720 - Survey of Western Art: Renaissance to Post-Modern (BHU) - 3cr.

NOTE:

1. ART2700 FINE ART SEMINAR - Take 1 credit for Foundation Requirement.

Art Major: Graphic Design Requirements (18 credits)

Complete ALL of the following Courses:

- ART2110 - Drawing II - 3cr.
- ART2200 - Painting I - 3cr.
- ART2230 - Basic Printmaking - 3cr.
- ART2600 - Basic Sculpture - 3cr.
- ART2650 - Introduction to Ceramics - 3cr.
- ART2810 - Photography I - 3cr.

Art Major: Graphic Design Elective Courses (11 credits)

Earn at least 11 credits from the following:

- ART3370 - Illustration Concepts - 3cr.
- ART4425 - Advanced Branding/Packaging Design - 3cr.
- ART4430 - Graphic Interface Design II - 3cr.
- ART4445 - Book Cover Design - 3cr.
- ART4455 - Advanced Typography - 3cr.

Art Major: Graphic Design Courses (33 credits)

Complete ALL of the following Courses:

- ART2400 - Introduction to Graphic Design - 3cr.
- ART3400 - Typography - 3cr.
- ART3410 - History of Graphic Design Studio - 3cr.
- ART3420 - Hashimoto Communication Arts Seminar - 1cr.
- ART4410 - Graphic Interface Design I - 3cr.
- ART4420 - Brand Identity Design - 3cr.
- ART4440 - Type, Image, and Visual Continuity - 3cr.
- ART4450 - Senior Capstone - 3cr.

• ARTH 3000 Level or Higher (Upper-Division Art History) (**6 credits**)

NOTE:

1. ART3420 HASHIMOTO COMM ARTS SEMINAR - Take 6 credits.

Open Electives

Complete the following as needed:
Total elective credit is determined by General Education courses taken, degree type selected, additional credits earned, and any additional math or other prerequisite courses needed. Please consult your Academic Advisor for details

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Bachelor's Degree)

Suggested Degree Maps

Degree Map Name
Suggested Degree Map - Art: Graphic Design BFA
Total Degree Map Credits
121 - 123
Degree Map Effective Catalog Year
2027 -

Degree Map Narrative

- Following is a sample four-year plan. Please note that student-specific plans may differ.
- Meet with an academic advisor to create a specific plan that best fits your academic needs.
- The student is ultimately responsible for knowing and completing all degree requirements.
- Make sure you meet the registration requirements for each class by clicking the course link and checking any prerequisites or corequisites.
- Consultation with an advisor may result in an altered plan customized for an individual student.
- Check your Degree Works for requirements and completion.

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	15.5	0

Requirement Select

- ART1020 - Drawing I (BCA)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- ART1120 - Two-Dimensional Design
  OR
- ART1130 - Three-Dimensional Design

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- ART2700 - Fine Art Seminar

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	0.5
Progress Credits	-
Contact Hours	0.5
Clinical	-
Criticality	No

Requirement Select

- ARTH2710 - Survey of Western Art: Prehistoric to Medieval (BHU)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- ENGL1010 - Writing as Inquiry (CL1)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Breadth American Institutions (BAI) Course
  OR
- Breadth Life Sciences (BLS) Course
  OR
- Breadth Physical Sciences (BPS) Course
  OR
- Breadth Social Sciences (BSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	15.5 - 17.5	0

Requirement Select

- Portfolios for the ART BS review due. See department website for more information. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- ART1120 - Two-Dimensional Design
  OR
- ART1130 - Three-Dimensional Design

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- ART2700 - Fine Art Seminar

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	0.5
Progress Credits	-
Contact Hours	0.5
Clinical	-
Criticality	No

Requirement Select

- Art Core Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- ARTH2720 - Survey of Western Art: Renaissance to Post-Modern (BHU)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- ENGL2010 - Research and Argument Across Perspectives (CL2)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Quantitative Literacy (QL) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 5
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	16	0

Requirement Select

- Portfolios for the BFA review in Graphic Design due. See department website for more information. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- ART2400 - Introduction to Graphic Design

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- ART3420 - Hashimoto Communication Arts Seminar

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- Art Core Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Communications Intensive (CI) Courses
  OR
- ARTH 3000 Level or Higher (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Breadth American Institutions (BAI) Course
  OR
- Breadth Life Sciences (BLS) Course
  OR
- Breadth Physical Sciences (BPS) Course
  OR
- Breadth Social Sciences (BSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- General Elective course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	16	0

Requirement Select
- ART3400 - Typography

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- ART3410 - History of Graphic Design Studio

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- ART3420 - Hashimoto Communication Arts Seminar

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- Communications Intensive (CI) Courses
  OR
- ARTH 3000 Level or Higher (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- General Elective course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Breadth American Institutions (BAI) Course
  OR
- Breadth Life Sciences (BLS) Course
  OR
- Breadth Physical Sciences (BPS) Course
  OR
- Breadth Social Sciences (BSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Fall	16	0

Requirement Select
- ART3420 - Hashimoto Communication Arts Seminar

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- ART4410 - Graphic Interface Design I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- ART4420 - Brand Identity Design

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Art Core course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Breadth American Institutions (BAI) Course
  OR
- Breadth Life Sciences (BLS) Course
  OR
- Breadth Physical Sciences (BPS) Course
  OR
- Breadth Social Sciences (BSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- General Elective course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Spring	16	0

Requirement Select

- ART3420 - Hashimoto Communication Arts Seminar

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- ART4440 - Type, Image, and Visual Continuity

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Art Core course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Graphic Design Elective course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Depth Life and Physical Sciences (DSC) Course

OR

- Depth Social Sciences (DSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- General Elective course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Fall	13	0

Requirement Select

- ART3420 - Hashimoto Communication Arts Seminar

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- Graphic Design Elective course (See advisor for courses taught this semester) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Graphic Design Elective course (See advisor for courses taught this semester) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Art Core course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Depth Life and Physical Sciences (DSC) Course

OR

- Depth Social Sciences (DSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Spring	13	0

Requirement Select

- ART3420 - Hashimoto Communication Arts Seminar

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- ART4450 - Senior Capstone

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Graphic Design Elective course (See advisor for courses taught this semester) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Art Core course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Quantitative Intensive (QI) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	Total Major Credits
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Program Learning Outcomes

Program Learning Outcomes
https://www.usu.edu/oda/assessment/

Art - MFA

Program Overview

College
College of Arts & Sciences

Department
Art and Design

Program Level
Graduate

About this Degree
The Master of Fine Arts degree is the terminal degree in the visual arts field. The MFA program is designed to allow students to mature to a level of professional competence in the making of art. Related studies augment a rigorous studio program. The prospective student must exhibit both academic excellence and a well-developed personal artistic vision.

Specializations are available in Ceramics, Drawing and Painting, Graphic Design, Interior Architecture and Design, Photography, Printmaking, and Sculpture.

Admission Requirements for this Program
All applicants are required to have earned a BFA or BS degree in Art or BID degree in Interior Design, or its equivalent, including a minimum of 12 credits of art history from an accredited U.S. college or university or a similarly recognized international university. GPA in art courses must have been at least 3.0 on a 4-point scale

Program Requirements

Total Credits Required In Program Coursework
60

Total Credits Required To Earn This Credential
60

Simple Requisites

Program Requirements

Graduate students are required to maintain at least a 3.0 GPA for degree-program courses. Grades of C- or lower will not be accepted for a graduate degree. The Program of Study must include at least 15 semester credits at the level of 6000 or above.

Credits in the following areas are not acceptable in a degree program: foreign languages (unless included in an approved Program of Study), continuing graduate advisement, individual home study, military science, and courses numbered below 5000. A maximum of 12 credits in 5000-level courses may be accepted for a graduate degree.

Students must pass a first-year review at the end of the first year of completion of study (12-24 credits). The MFA thesis is a visual presentation, the equivalent of a written dissertation in other disciplines. The thesis exhibition is the single most important feature of the MFA program; the culmination of three or more years, of intensive study in a single discipline. Students earning a master's degree in other fields are required to write a written Master's Thesis. In the MFA, the Thesis Exhibition takes the place of the written thesis. This exhibition takes place during the student's final semester. In addition, students must pass an oral examination during the final semester of the graduate program. The "orals" are usually held during the time that the MFA thesis exhibition is on display. The student must also submit visual documentation of the thesis, in the form of a digital image portfolio to the library.

The MFA program is a resident program; it is not possible to complete the requirements for graduation by correspondence. Students must complete a minimum of four semesters in residence as full-time students. At least 24-semester credits for a master's degree must be from a committee-approved and a School of Graduate Studies-approved Program of Study from Utah State University.

For students not serving as graduate assistants who are otherwise employed on campus, 9 credits per semester is the minimum for full-time status. (12 credits is considered a maximum.) For students employed on campus, full-time status is

dependent upon the number of hours per week that the student works. For instance, for a graduate student who is employed on campus for 20 hours per week (.50 FTE), 6 credits is considered full time. Students in their last semester who require fewer credits to complete their Program of Study may also be considered full-time. A minimum of five semesters is thus required to complete the 60-credit program; most students require three years.

The MFA must be completed within six years of entering the degree program. Additional time may be requested by the student's committee and submitted to the Vice Provost of Graduate Studies for review. Coursework over eight years old at the time of degree completion may not be used for a graduate degree unless it is revalidated.

Form Requirements

- Supervisory Committee
- Program of Study
- Appointment for Examination
- Record of Examination
- SGS and library review and approval

Art - MFA

Type
Completion Requirement

Required Credit (60 credits)

Students must earn 60 credits, to include the following courses and designated course credit.

Earn at least 60 credits from the following:

- ART6900 - Professional Practices - 3cr.
- ARTH6755 - Contemporary Art: 1989 to the present - 3cr.
- ART6910 - Graduate Interdisciplinary Critique - 3cr.
- ART6970 - Research and Thesis - 3cr.

• 42 credits of graduate level studio, including 6 credits outside of the declared emphasis area (consult professor before registering)
• 3 credits of additional Art History (6000 level), area specific theory, or theory-related credits outside the department as advised by the Thesis Advisory Committee
• 3 credits outside the Department of Art and Design as specified by the supervisory committee

NOTE:

1. ART6900 PROFESSIONAL PRACTICES - Graduate Seminar: Professional Practices (required for studio arts disciplines; optional for graphic design and interior design students in the case that a related course, more specific to their area of study, be taken in its place at the recommendation of the students Thesis Advisory Committee)
2. ARTH6755 CONTEMPORARY ART - Or other graduate level Art History class at the recommendation of your thesis supervisory committee

Program Learning Outcomes

Program Learning Outcomes
https://www.usu.edu/oda/assessment/

Art: Photography - BFA

Program Overview

College
College of Arts & Sciences

Department
Art and Design

Program Level
Undergraduate

About this Degree
Students majoring in art at USU have a world of options at their disposal. Each emphasis features in-depth coursework that encourages students to develop their own artistic ideas and style, in addition to solid foundation knowledge of artistic traditions throughout history. Professors are extremely talented artists as well as effective teachers, and they are dedicated to giving students individual attention and mentoring. The Department of Art has a competitive portfolio admission, which allows it to offer smaller classes where students receive individual time with professors. Students also have the opportunity to participate in faculty-supervised group and solo exhibition.

The **BFA** is a professional degree requiring above-average accomplishment in art. Students must first apply and be accepted to a specific emphasis area. Students receiving a **BS** do not have an emphasis, and instead have a non-specific, general art degree. To receive a **BA**, students must also gain proficiency in one or more foreign languages.

Photography Emphasis:
Rooted in fine art and documentary traditions and guided in our belief in photography's critical role in contemporary culture, USU Photo guides students in developing thoughtful visual practices marked by rigor, empathy, and community engagement. Led by renowned faculty mentors, students incorporate a range of techniques–from 19th-cen. and darkroom processes to digital technologies–and are supported through generous resources and state-of-the-art equipment.

- For more information about Photography, see the Department of Art and Design website.
- Admitted and current students should also meet with an advisor.
- Log on to Degree Works to check student-specific program progress.
- The highest math requirement for this degree is the fulfillment of the Quantitative Literacy (QL) requirement.

Admission Requirements for this Program
- New freshmen must be admitted to USU in Good Standing as Pre-Art or Pre-ID.
- Transfer students from other institutions or other programs at USU are admitted with a 2.75 GPA. Students must also pass a competitive portfolio review. Space is limited.
- See department website for more information.

Program Requirements

Total Credits Required In Program Coursework
78

Total Credits Required To Earn This Credential
120

Simple Requisites

Program Requirements

The BFA is a professional art degree requiring above-average accomplishment in art. Only students demonstrating considerable promise will be accepted for this more demanding professional degree program. This degree requires 78 semester credits in Art courses, leaving 42 credits to fulfill all other General Education and University Studies requirements. A cumulative GPA of 2.75 is required for the BFA degree. A grade of B- or better is required in all art (ART)

and art history (ARTH) classes. Courses may *not* be taken on a pass/fail basis, except ART2700 FINE ART SEMINAR and ART4915 BFA EXHIBITION. This degree fulfills the requirements for entrance into graduate schools of art.

- Students must complete the General Education Requirements.

  Students must also complete the University Studies Requirements.

  - For most students, courses taken for the major will fulfill the Communications Intensive (CI) requirement.
  - Students must take one course having a QI designation to fulfill the Quantitative Intensive (QI) requirement.

  Complete at least 2 credits in approved 3000-level or above courses from each of the following two categories: Depth Life and Physical Sciences (DSC) and Depth Social Sciences (DSS).

Art - Photography Emphasis - BFA

Type
Completion Requirement

Art Major: Foundations Requirements (16 credits)

Complete ALL of the following Courses:

- ART1020 - Drawing I (BCA) - 3cr.
- ART1120 - Two-Dimensional Design - 3cr.
- ART1130 - Three-Dimensional Design - 3cr.
- ART2700 - Fine Art Seminar - 0.5cr.
- ARTH2710 - Survey of Western Art: Prehistoric to Medieval (BHU) - 3cr.
- ARTH2720 - Survey of Western Art: Renaissance to Post-Modern (BHU) - 3cr.

NOTE:

1. ART2700 FINE ART SEMINAR - Take 1 credit for Foundation Requirement.

Art Photography Requirements (12 credits)

Complete at least 4 of the following courses:

- ART2110 - Drawing II - 3cr.
- ART2200 - Painting I - 3cr.
- ART2230 - Basic Printmaking - 3cr.
- ART2600 - Basic Sculpture - 3cr.
- ART2650 - Introduction to Ceramics - 3cr.

Art Major: Photography Courses (47 credits)

Complete ALL of the following Courses:

- ART2400 - Introduction to Graphic Design - 3cr.
- ART2700 - Fine Art Seminar - 0.5cr.
- ART2810 - Photography I - 3cr.
- ART3810 - Photography II - 3cr.
- ART4810 - Digital Imaging - 3cr. (Inactive)
- ART3825 - Analog Photography - 3cr.
- ART4835 - Theory of Photography - 3cr.
- ART4875 - Studio Lighting - 3cr.
- ART4885 - Advanced Photography Studio - 3cr.
- ART4910 - BFA Professional Practice - 1cr.
- ART4915 - Senior BFA Exhibition - 1cr.
- ARTH3820 - The History of Photography - 3cr.

- ART 3000 Level or Higher - Art Electives (**7 credits**)
- ARTH 3000 Level or Higher (Upper-Division Art History) (**3 credits**)

NOTE:

1. ART2700 FINE ART SEMINAR - Take 2 additional credits.
2. ART4885 ADVANCED PHOTOGRAPHY STUDIO - Take 12 credits.

Open Electives

Complete the following as needed:
Total elective credit is determined by General Education courses taken, degree type selected, additional credits earned, and any additional math or other prerequisite courses needed. Please consult your Academic Advisor for details.

Minimum University Requirements

Minimum University Requirements
Minimum University Requirements (Bachelor's Degree)

Suggested Degree Maps

Degree Map Name
Suggested Degree Map - Art: Photography BFA
Total Degree Map Credits
117 - 119
Degree Map Effective Catalog Year
2026 -

Degree Map Narrative

- Following is a sample four-year plan. Please note that student-specific plans may differ.
- Meet with an academic advisor to create a specific plan that best fits your academic needs.
- The student is ultimately responsible for knowing and completing all degree requirements.
- Make sure you meet the registration requirements for each class by clicking the course link and checking any prerequisites or corequisites.
- Consultation with an advisor may result in an altered plan customized for an individual student
- Check your Degree Works for requirements and completion.

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	15.5	0

Requirement Select

- ART1020 - Drawing I (BCA)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- ART1120 - Two-Dimensional Design
  OR
- ART1130 - Three-Dimensional Design

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- ART2700 - Fine Art Seminar

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	0.5
Progress Credits	-
Contact Hours	0.5
Clinical	-
Criticality	No

Requirement Select

- ARTH2710 - Survey of Western Art: Prehistoric to Medieval (BHU)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- ENGL1010 - Writing as Inquiry (CL1)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Breadth American Institutions (BAI) Course
  OR
- Breadth Life Sciences (BLS) Course
  OR
- Breadth Physical Sciences (BPS) Course
  OR
- Breadth Social Sciences (BSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	15.5 - 17.5	0

Requirement Select

- ART1120 - Two-Dimensional Design
  OR
- ART1130 - Three-Dimensional Design

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- ART2700 - Fine Art Seminar

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	0.5
Progress Credits	-
Contact Hours	0.5
Clinical	-
Criticality	No

Requirement Select

- ART2810 - Photography I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- ARTH2720 - Survey of Western Art: Renaissance to Post-Modern (BHU)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- ENGL2010 - Research and Argument Across Perspectives (CL2)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Quantitative Literacy (QL) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 5
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	15.5	0

Requirement Select

- Portfolios for the BFA review in Photography due. See department website for more information. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- ART2400 - Introduction to Graphic Design

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- ART2700 - Fine Art Seminar

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	0.5
Progress Credits	-
Contact Hours	0.5
Clinical	-
Criticality	No

Requirement Select

- Art Core Photography course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- ART3810 - Photography II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Breadth American Institutions (BAI) Course
  OR
- Breadth Life Sciences (BLS) Course
  OR
- Breadth Physical Sciences (BPS) Course
  OR
- Breadth Social Sciences (BSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- General Elective course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	15.5	0

Requirement Select

- ART2700 - Fine Art Seminar

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	0.5
Progress Credits	-
Contact Hours	0.5
Clinical	-
Criticality	No

Requirement Select

- ART3825 - Analog Photography

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- ARTH3820 - The History of Photography

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Art Core Photography course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Breadth American Institutions (BAI) Course
  OR
- Breadth Life Sciences (BLS) Course
  OR
- Breadth Physical Sciences (BPS) Course
  OR
- Breadth Social Sciences (BSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- General Elective course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Fall	13.5	0

Requirement Select

- ART2700 - Fine Art Seminar

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	0.5
Progress Credits	-
Contact Hours	0.5
Clinical	-
Criticality	No

Requirement Select

- ART4885 - Advanced Photography Studio

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- ART4910 - BFA Professional Practice

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- Communications Intensive (CI) Courses
  OR
- ARTH 3000 Level or Higher (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Breadth American Institutions (BAI) Course
  OR
- Breadth Life Sciences (BLS) Course
  OR
- Breadth Physical Sciences (BPS) Course
  OR
- Breadth Social Sciences (BSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Quantitative Intensive (QI) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Spring	15.5	0

Requirement Select

- ART2700 - Fine Art Seminar

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	0.5
Progress Credits	-
Contact Hours	0.5
Clinical	-
Criticality	No

Requirement Select

- ART4875 - Studio Lighting

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- ART4885 - Advanced Photography Studio

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Communications Intensive (CI) Courses

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Depth Life and Physical Sciences (DSC) Course

OR

- Depth Social Sciences (DSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Art Elective course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Fall	14	0

Requirement Select

- ART4835 - Theory of Photography

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- ART4885 - Advanced Photography Studio

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Art Core Photography course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Depth Life and Physical Sciences (DSC) Course

OR

- Depth Social Sciences (DSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Art Elective course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Spring	12	0

Requirement Select

- ART4885 - Advanced Photography Studio

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- ART4915 - Senior BFA Exhibition

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- Art Core Photography course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Art Elective course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- General Elective course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	Total Major Credits
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Program Learning Outcomes

Program Learning Outcomes
https://www.usu.edu/oda/assessment/

Art: Printmaking - BFA

Program Overview

College
College of Arts & Sciences

Department
Art and Design

Program Level
Undergraduate

About this Degree
The BFA is a professional art degree requiring above-average accomplishment in art. Only students demonstrating considerable promise will be accepted for this more demanding professional degree program.

Students majoring in art at USU have a world of options at their disposal. Each emphasis features in-depth coursework that encourages students to develop their own artistic ideas and style, in addition to solid foundation knowledge of artistic traditions throughout history. Professors are extremely talented artists as well as effective teachers, and they are dedicated to giving students individual attention and mentoring. The Department of Art has a competitive portfolio admission, which allows it to offer smaller classes where students receive individual time with professors. Students also have the opportunity to participate in faculty-supervised group and solo exhibitions.

Printmaking: Printmaking covers the process of creating prints with an element of originality, rather than just a photographic reproduction of the painting. It can be done by etching, woodcut, silk screen, lino cut, etc.

Admission Requirements for this Program
- New freshmen: Admitted to USU in Good Standing as Pre-Art or Pre-ID
- Transfer students from other institutions or other programs at USU: 2.75 GPA.
- Students must pass a competitive portfolio review. Space is limited. See department website for more information.

Program Requirements

Total Credits Required In Program Coursework
78

Total Credits Required To Earn This Credential
120

Simple Requisites

Program Requirements

This degree requires 78 semester credits in Art courses, leaving 42 credits to fulfill all other General Education and University Studies requirements. This degree fulfills the requirements for entrance into graduate schools of art.

- For more information about Printmaking, see the department website.
- Admitted and current students must meet with an advisor.
- Log on to Degree Works to check student-specific program progress.
- The highest math requirement for this degree is the fulfillment of the Quantitative Literacy (QL) requirement.

Additional Requirements
A cumulative GPA of 2.75 is required for the BFA degree. A grade of B- or better is required in all art (ART) and art history (ARTH) classes. Courses may *not* be taken on a pass/fail basis, except ART2700 FINE ART SEMINAR and ART4915 BFA EXHIBITION.

Art - Printmaking Emphasis - BFA

Type
Completion Requirement

Art Major: Foundations Requirements (16 credits)

Complete ALL of the following Courses:

- ART1020 - Drawing I (BCA) - 3cr.
- ART1120 - Two-Dimensional Design - 3cr.
- ART1130 - Three-Dimensional Design - 3cr.
- ART2700 - Fine Art Seminar - 0.5cr.
- ARTH2710 - Survey of Western Art: Prehistoric to Medieval (BHU) - 3cr.
- ARTH2720 - Survey of Western Art: Renaissance to Post-Modern (BHU) - 3cr.

NOTE:

1. ART2700 FINE ART SEMINAR - Take 1 credit for Foundation Requirement.

Art Major: Printmaking Core Requirements (12 credits)

Complete at least 4 of the following courses:

- ART2200 - Painting I - 3cr.
- ART2400 - Introduction to Graphic Design - 3cr.
- ART2600 - Basic Sculpture - 3cr.
- ART2650 - Introduction to Ceramics - 3cr.
- ART2810 - Photography I - 3cr.

Art Major: Printmaking Requirements (50 credits)

Complete ALL of the following Courses:

- ART2110 - Drawing II - 3cr.
- ART2230 - Basic Printmaking - 3cr.
- ART2700 - Fine Art Seminar - 0.5cr.
- ART3220 - Screen Printing - 3cr.
- ART3230 - Lithography - 3cr.
- ART3240 - Intaglio - 3cr.
- ART3250 - Relief Prints - 3cr.
- ART3270 - Color: Theory and Practice - 3cr.
- ART4250 - Advanced Printmaking Studio - 3cr.
- ART4910 - BFA Professional Practice - 1cr.
- ART4915 - Senior BFA Exhibition - 1cr.

• ART 3000 Level or Higher - Art Electives (**7 credits**)
• ARTH 3000 Level or Higher (Upper-Division Art History) (**6 credits**)

NOTE:

1. ART2700 FINE ART SEMINAR - Take 2 additional credits.
2. ART4250 ADV PRINTMAKING STUDIO - Take 12 credits.

Open Electives

Complete the following as needed:
Total elective credit is determined by General Education courses taken, degree type selected, additional credits earned, and any additional math or other prerequisite courses needed. Please consult your Academic Advisor for details.

Suggested Degree Maps

Degree Map Name
Suggested Degree Map - Art: Printmaking BFA
Total Degree Map Credits
121
Degree Map Effective Catalog Year
2026 -

Degree Map Narrative

- Following is a sample four-year plan. Please note that student-specific plans may differ.
- Meet with an academic advisor to create a specific plan that best fits your academic needs.
- The student is ultimately responsible for knowing and completing all degree requirements.
- Make sure you meet the registration requirements for each class by clicking the course link and checking any prerequisites or corequisites.
- Consultation with an advisor may result in an altered plan customized for an individual student.
- Check your Degree Works for requirements and completion.

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	15.5	0

Requirement Select

- ART1020 - Drawing I (BCA)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- ART1130 - Three-Dimensional Design
  OR
- ART1120 - Two-Dimensional Design

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Bachelor's Degree)

Requirement Select

- ART2700 - Fine Art Seminar

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	0.5
Progress Credits	-
Contact Hours	0.5
Clinical	-
Criticality	No

Requirement Select

- ARTH2710 - Survey of Western Art: Prehistoric to Medieval (BHU)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- ENGL1010 - Writing as Inquiry (CL1)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Breadth American Institutions (BAI) Course
  OR
- Breadth Life Sciences (BLS) Course
  OR
- Breadth Physical Sciences (BPS) Course
  OR
- Breadth Social Sciences (BSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	15.5	0

Requirement Select

- Portfolios for ART BS Review due. See department website for more information. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- ART1120 - Two-Dimensional Design
  OR
- ART1130 - Three-Dimensional Design

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- ART2110 - Drawing II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- ARTH2720 - Survey of Western Art: Renaissance to Post-Modern (BHU)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- ART2700 - Fine Art Seminar

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	0.5
Progress Credits	-
Contact Hours	0.5
Clinical	-
Criticality	No

Requirement Select
- ENGL2010 - Research and Argument Across Perspectives (CL2)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Quantitative Literacy (QL) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	15.5	0

Requirement Select
- ART2230 - Basic Printmaking

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Art Printmaking Core course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- ART2700 - Fine Art Seminar

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	0.5
Progress Credits	-
Contact Hours	0.5
Clinical	-
Criticality	No

Requirement Select
- ARTH 3000 Level or higher (Communications Intensive (CI)) course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- ART3270 - Color: Theory and Practice

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Breadth American Institutions (BAI) Course
  OR
- Breadth Life Sciences (BLS) Course
  OR
- Breadth Physical Sciences (BPS) Course
  OR
- Breadth Social Sciences (BSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	15.5	0

Requirement Select

- Portfolios for the BFA review in Printmaking due. See department website for more information. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- ART3220 - Screen Printing
  OR
- ART3230 - Lithography
  OR
- ART3240 - Intaglio
  OR
- ART3250 - Relief Prints

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- ARTH 3000 Level or higher (Communications Intensive (CI)) course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- ART2700 - Fine Art Seminar

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	0.5
Progress Credits	-
Contact Hours	0.5
Clinical	-
Criticality	No

Requirement Select

- Art Printmaking Core course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Breadth American Institutions (BAI) Course
  OR
- Breadth Life Sciences (BLS) Course
  OR
- Breadth Physical Sciences (BPS) Course
  OR
- Breadth Social Sciences (BSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Breadth American Institutions (BAI) Course
  OR
- Breadth Life Sciences (BLS) Course
  OR
- Breadth Physical Sciences (BPS) Course
  OR
- Breadth Social Sciences (BSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Fall	15.5	0

Requirement Select

- ART3220 - Screen Printing
  OR
- ART3230 - Lithography
  OR
- ART3240 - Intaglio
  OR
- ART3250 - Relief Prints

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- ART4250 - Advanced Printmaking Studio

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- ART2700 - Fine Art Seminar

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	0.5
Progress Credits	-
Contact Hours	0.5
Clinical	-
Criticality	No

Requirement Select

- ART4910 - BFA Professional Practice

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- Art Printmaking Core course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- ART Elective (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Quantitative Literacy (QL) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Spring	15.5	0

Requirement Select

- ART3220 - Screen Printing
  OR
- ART3230 - Lithography
  OR
- ART3240 - Intaglio
  OR
- ART3250 - Relief Prints

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- ART4250 - Advanced Printmaking Studio

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- ART2700 - Fine Art Seminar

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	0.5
Progress Credits	-
Contact Hours	0.5
Clinical	-
Criticality	No

Requirement Select

- Art Printmaking Core course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Depth Life and Physical Sciences (DSC) Course
  OR
- Depth Social Sciences (DSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- General Elective (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Fall	15	0

Requirement Select

- ART4250 - Advanced Printmaking Studio

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- ART3220 - Screen Printing
  OR
- ART3230 - Lithography
  OR
- ART3240 - Intaglio
  OR
- ART3250 - Relief Prints

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- ART Elective (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Depth Life and Physical Sciences (DSC) Course
  OR
- Depth Social Sciences (DSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- General Elective (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Spring	13	0

Requirement Select

- ART4250 - Advanced Printmaking Studio

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- ART4915 - Senior BFA Exhibition

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- ART Elective course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- General Elective (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select	• General Elective (Generic)
Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Program Learning Outcomes

Program Learning Outcomes

https://www.usu.edu/oda/assessment/

Art: Sculpture - BFA

Program Overview

College	Department	Program Level
College of Arts & Sciences	Art and Design	Undergraduate

About this Degree

The BFA is a professional art degree requiring above-average accomplishment in art. Only students demonstrating considerable promise will be accepted for this more demanding professional degree program.

Students majoring in art at USU have a world of options at their disposal. Each emphasis features in-depth coursework that encourages students to develop their own artistic ideas and style, in addition to solid foundation knowledge of artistic traditions throughout history. Professors are extremely talented artists as well as effective teachers, and they are dedicated to giving students individual attention and mentoring. The Department of Art has a competitive portfolio admission, which allows it to offer smaller classes where students receive individual time with professors. Students also have the opportunity to participate in faculty-supervised group and solo exhibitions.

Sculpture: Students in the sculpture emphasis investigate specific problems involving technical, aesthetic, and conceptual considerations of sculptures. Students will also develop their own direction based on their experience with form, materials, and techniques, and their understanding of traditional concerns and contemporary issues.

Admission Requirements for this Program

- New freshmen must be admitted to USU in Good Standing as Pre-Art or Pre-ID.
- Transfer students from other institutions or other programs at USU are admitted with a 2.75 GPA. Students must also pass a competitive portfolio review. Space is limited. See department website for more information.

Program Requirements

Total Credits Required In Program Coursework	Total Credits Required To Earn This Credential
78	120

Simple Requisites

Program Requirements

This degree requires 78 semester credits in Art courses, leaving 42 credits to fulfill all other General Education and University Studies requirements. This degree fulfills the requirements for entrance into graduate schools of art.

- For more information about Sculpture, see the Department of Art and Design website.
- Admitted and current students must meet with an advisor.
- Log on to Degree Works to check student-specific program progress.
- The highest math requirement for this degree is the fulfillment of the Quantitative Literacy (QL) requirement.

Additional Requirements

A cumulative GPA of 2.75 is required for the BFA degree. A grade of B- or better is required in all art (ART) and art history (ARTH) classes. Courses may *not* be taken on a pass/fail basis, except ART2700 FINE ART SEMINAR and ART4915 BFA EXHIBITION.

Art - Sculpture Emphasis - BFA

Type
Completion Requirement

Art Major: Foundations Requirements (16 credits)

Complete ALL of the following Courses:

- ART1020 - Drawing I (BCA) - 3cr.
- ART1120 - Two-Dimensional Design - 3cr.
- ART1130 - Three-Dimensional Design - 3cr.
- ART2700 - Fine Art Seminar - 0.5cr.
- ARTH2710 - Survey of Western Art: Prehistoric to Medieval (BHU) - 3cr.
- ARTH2720 - Survey of Western Art: Renaissance to Post-Modern (BHU) - 3cr.

NOTE:

1. ART2700 FINE ART SEMINAR - Take 1 credit for Foundation Requirement.

Art Major: Art Sculpture Core Requirements (6 credits)

Complete at least 2 of the following courses:

- ART2200 - Painting I - 3cr.
- ART2230 - Basic Printmaking - 3cr.
- ART2400 - Introduction to Graphic Design - 3cr.
- ART2810 - Photography I - 3cr.

Art Major: Sculpture Requirements (56 credits)

Complete ALL of the following Courses:

- ART2110 - Drawing II - 3cr.
- ART2600 - Basic Sculpture - 3cr.
- ART2650 - Introduction to Ceramics - 3cr.
- ART2700 - Fine Art Seminar - 0.5cr.
- ART3610 - Intermediate Sculpture - 3cr.
- ART3650 - Intermediate Ceramics: Handbuilding - 3cr.
- ART4260 - Life Drawing - 3cr.
- ART4610 - Sculpture Projects - 3cr.
- ART4630 - Figure Study for Sculpture - 3cr.
- ART4660 - Advanced Sculpture Studio - 1cr.
- ART4910 - BFA Professional Practice - 1cr.
- ART4915 - Senior BFA Exhibition - 1cr.

• ART 3000 Level or Higher - Art Electives (**6 credits**)
• ARTH 3000 Level or Higher (Upper-Division Art History) (**6 credits**)

NOTE:

1. ART2700 FINE ART SEMINAR - Take 2 additional credits.
2. ART4630 FIGURE STUDY FOR SCULPTURE - Take 6 credits.
3. ART4660 ADV SCULPTURE STUDIO - Take 13 credits.

Open Electives

Complete the following as needed:
Total elective credit is determined by General Education courses taken, degree type selected, additional credits earned, and any additional math or other prerequisite courses needed. Please consult your Academic Advisor for details.

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Bachelor's Degree)

Suggested Degree Maps

Degree Map Name
Suggested Degree Map - Art: Sculpture BFA
Total Degree Map Credits
120
Degree Map Effective Catalog Year
2026 -

Degree Map Narrative

- Following is a sample four-year plan. Please note that student-specific plans may differ.
- Meet with an academic advisor to create a specific plan that best fits your academic needs.
- The student is ultimately responsible for knowing and completing all degree requirements.
- Make sure you meet the registration requirements for each class by clicking the course link and checking any prerequisites or corequisites.
- Consultation with an advisor may result in an altered plan customized for an individual student.
- Check your Degree Works for requirements and completion.

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	15.5	0

Requirement Select

- ART1020 - Drawing I (BCA)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- ART1130 - Three-Dimensional Design

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- ART2700 - Fine Art Seminar

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	0.5
Progress Credits	-
Contact Hours	0.5
Clinical	-
Criticality	No

Requirement Select

- ARTH2710 - Survey of Western Art: Prehistoric to Medieval (BHU)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- ENGL1010 - Writing as Inquiry (CL1)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Breadth American Institutions (BAI) Course

OR

- Breadth American Institutions (BAI) Course

OR

- Breadth Life Sciences (BLS) Course

OR

- Breadth Physical Sciences (BPS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	15.5	0

Requirement Select

- Portfolios for ART BS Review due. See department website for more information. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- ART1120 - Two-Dimensional Design

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- ART2600 - Basic Sculpture

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- ART2700 - Fine Art Seminar

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	0.5
Progress Credits	-
Contact Hours	0.5
Clinical	-
Criticality	No

Requirement Select

- ARTH2720 - Survey of Western Art: Renaissance to Post-Modern (BHU)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- ENGL2010 - Research and Argument Across Perspectives (CL2)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Quantitative Literacy (QL) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	15.5	0

Requirement Select

- ART2700 - Fine Art Seminar

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	0.5
Progress Credits	-
Contact Hours	0.5
Clinical	-
Criticality	No

Requirement Select

- ART4630 - Figure Study for Sculpture

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Art Sculpture Core course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Art Sculpture Core course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Communications Intensive (CI) Courses

OR

- ARTH 3000 Level or higher (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Breadth American Institutions (BAI) Course
  OR
- Breadth American Institutions (BAI) Course
  OR
- Breadth Life Sciences (BLS) Course
  OR
- Breadth Physical Sciences (BPS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	15.5	0

Requirement Select

- Portfolios for BFA review in Sculpture due. See department website for more information. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- ART2110 - Drawing II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- ART2650 - Introduction to Ceramics

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- ART2700 - Fine Art Seminar

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	0.5
Progress Credits	-
Contact Hours	0.5
Clinical	-
Criticality	No

Requirement Select

- ART3610 - Intermediate Sculpture

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Communications Intensive (CI) Courses
  OR
- ARTH 3000 Level or higher (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Breadth American Institutions (BAI) Course
  OR
- Breadth American Institutions (BAI) Course
  OR
- Breadth Life Sciences (BLS) Course
  OR
- Breadth Physical Sciences (BPS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits

Year 3	Fall	16.5	0

Requirement Select
- ART2700 - Fine Art Seminar

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	0.5
Progress Credits	-
Contact Hours	0.5
Clinical	-
Criticality	No

Requirement Select
- ART4620 - Sculpture Seminar

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- ART4630 - Figure Study for Sculpture

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- ART4660 - Advanced Sculpture Studio

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	1 - 9
Clinical	-
Criticality	No

Requirement Select
- Students should register for 3 credits of ART4660 (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- ART4910 - BFA Professional Practice

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- Breadth American Institutions (BAI) Course
  OR
- Breadth Life Sciences (BLS) Course
  OR
- Breadth Physical Sciences (BPS) Course
  OR
- Breadth Social Sciences (BSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- General Elective (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Spring	15.5	0

Requirement Select

- ART2700 - Fine Art Seminar

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	0.5
Progress Credits	-
Contact Hours	0.5
Clinical	-
Criticality	No

Requirement Select

- ART4610 - Sculpture Projects

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- ART4660 - Advanced Sculpture Studio

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	1 - 9
Clinical	-
Criticality	No

Requirement Select

- Students should register for 3 credits of ART4660. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- ART Elective course. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Depth Life and Physical Sciences (DSC) Course

OR

- Depth Social Sciences (DSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Quantitative Literacy (QL) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Fall	13	0

Requirement Select

- ART3650 - Intermediate Ceramics: Handbuilding

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- ART4660 - Advanced Sculpture Studio

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	1 - 9
Clinical	-
Criticality	No

Requirement Select

- Students should register for 4 credits of ART4660. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Depth Life and Physical Sciences (DSC) Course

OR

- Depth Social Sciences (DSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- General Elective (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Spring	13	0

Requirement Select

- ART4660 - Advanced Sculpture Studio

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	1 - 9
Clinical	-
Criticality	No

Requirement Select

- ART4915 - Senior BFA Exhibition

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- ART Elective course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- General Elective (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- General Elective (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Students should register for 3 credits for ART4660. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Program Learning Outcomes

Program Learning Outcomes
https://www.usu.edu/oda/assessment/

Asian Studies - Minor

Program Overview

College	Department	Program Level
College of Arts & Sciences	World Languages and Cultures	Undergraduate

Program Requirements

Total Credits Required To Earn This Credential
20

Simple Requisites

Program Requirements
- **Total Credits:** 20
- **Grade Point Average to Declare Minor:** 2.5 Overall GPA
- **Grade Point Average to Graduate with Minor:** 2.5 GPA within minor coursework
- **USU Credit Requirement:** At least half (50 percent) of the credits earned for this minor must be earned at USU.
- **Minimum Grade Requirement:** All courses taken for the minor require a minimum grade of C- or better. Courses for the minor may not be taken on a pass/fail basis.
- **Note:** As many as 10 credits completed at other colleges or universities may be used to partially satisfy these requirements. For more information, students should contact the World Languages and Cultures advisor.

Section 1

Type
Completion Requirement

Required Courses (12 credits)

Earn at least 12 credits from the following:
- ARBC3030 - Introduction to Islam (DHA) - 3cr.
  OR HIST3030 - Introduction to Islam (DHA) - 3cr.
  OR RELS3030 - Introduction to Islam (DHA) - 3cr.
- ANTH3550 - Culture of East Asia (DHA) - 3cr.
  OR HIST3550 - Culture of East Asia (DHA) - 3cr.
  OR LANG3550 - Culture of East Asia (DHA) - 3cr.
- ART3050 - Japanese Calligraphy - 1cr.
  OR JAPN3050 - Japanese Calligraphy - 1cr.
- ARTH3110 - Ancient Near East (DHU/CI) - 3cr.
  OR HIST3110 - Ancient Near East (DHA/CI) - 3cr.
- CHIN3090 - Introduction to Modern Chinese Literature and Film - 3cr.
- CHIN3100 - Readings in Contemporary Chinese Culture (DHA) - 3cr.
- CHIN3510 - Chinese Business Presentations - 3cr.
- CHIN3520 - Chinese Business Strategies - 3cr.
- CHIN3540 - Translating into and from Chinese (CI) - 3cr.
- CHIN3600 - Contemporary Children's Literature in Chinese - 3cr.
- CHIN4010 - Chinese Multimedia - 3cr.
- CHIN4030 - Love and Death in Chinese Film - 3cr.
- CHIN4090 - Readings in Masterworks of Classical Chinese Fiction - 3cr.
- CHIN4210 - Chinese/Sinophone Theatre and Performance -

3cr.
- ECON5510 - International Trade Theory - 3cr.
- HIST3010 - Introduction to Buddhism (DHA) - 3cr.
  OR RELS3010 - Introduction to Buddhism (DHA) - 3cr.
- HIST3020 - Introduction to Hinduism (DHA) - 3cr.
  OR RELS3020 - Introduction to Hinduism (DHA) - 3cr.
- HIST3410 - The Modern Middle East - 3cr.
- HIST3460 - Comparative Asian History (DHA) - 3cr.
- HIST3482 - Ancient China to 1800 (DHA) - 3cr.
- HIST3483 - Modern China 1800 to present (DHA) - 3cr.
- HIST3560 - Modern East Asia (DHA) - 3cr.
- HIST4150 - Japan, Europe, and the Early Modern World - 3cr.
- HIST4560 - Women in Islam (DHA) - 3cr.
  OR RELS4560 - Women in Islam (DHA) - 3cr.
- HIST4821 - World War II in Asia (DHA) - 3cr.
- JAPN3090 - Introduction to Japanese Literature - 3cr.
- JAPN3100 - Readings in Contemporary Japanese Culture - 3cr.
- JAPN3510 - Japanese for the Business Environment - 3cr.
- JAPN3560 - Studies in Japanese Film - 3cr.
- KOR3510 - Business Korean - 3cr.
- LANG3570 - Narrative Ethics in Asian Literature and Film (DHA) - 3cr.
- LANG3650 - Women and Gender in East Asian Culture - 3cr.
- PHIL3710 - Philosophies of East Asia - 3cr.
- POLS3230 - Middle Eastern Government and Politics - 3cr.
- POLS3250 - Chinese Government and Politics (DSS) - 3cr.
- POLS4230 - Issues in Middle East Politics - 3cr.
- POLS4260 - Asian Government and Politics (DSS) - 3cr.
- POLS4470 - Foreign Policy in the Pacific - 3cr.
- RELS3470 - Religion and Politics in South Asia - 3cr.
  OR HIST3470 - Religion and Politics in South Asia - 3cr.
- RELS3820 - Hindu Sacred Texts (CI) - 3cr.
- RELS4565 - Medieval Islam (DHA) - 3cr.
  OR HIST4565 - Medieval Islam (DHA) - 3cr.
- RELS4566 - Global Faces of Islam (DHA) - 3cr.
  OR HIST4566 - Global Faces of Islam (DHA) - 3cr.

Other courses that are focused on Asia may also applied. See advisor for details.

Section 2

Type
Completion Requirement

General Elective or Language Courses (8 credits)

The remaining 8 credits must be chosen from either of the following sections (see below): General Electives ***OR*** Language Courses.

Earn at least 8 credits

General Elective Course Options

Complete ANY of the following Courses:
- ANTH1010 - Cultural Anthropology (BSS) - 3cr.
- ANTH2010 - Peoples of the Contemporary World (BSS) - 3cr.
- ANTH3160 - Anthropology of Religion (DSS) - 3cr.
- ANTH4100 - The Study of Language - 3cr.
  OR LING4100 - The Study of Language - 3cr.
- APEC5700 - Regional and Community Economic Development - 3cr.
- CMST1330 - Introduction to Global Communication (BSS) - 3cr.
- CMST3330 - Intercultural Communication (DSS) - 3cr.
- CMST4330 - Advanced Perspectives in Global Communication (CI) - 3cr.
- ECON3500 - Introduction to International Business and Economics (DSS) - 3cr.
- ECON3530 - Comparative Economic Systems (DSS)(CI) - 3cr.
- FIN4300 - International Finance - 3cr.
- GEOG1300 - World Geography: Human and Environmental Dynamics (BSS) - 3cr.
- LANG4330 - Advanced Perspectives in Global Communication - 3cr.
- LING2100 - Languages in Global and Historical Context (BSS) - 3cr.
- LING3100 - Language in Social Context - 3cr.
- MSLE4590 - Marketing Strategy - 3cr.
- POLS2100 - Introduction to International Relations (BSS) - 3cr.
- POLS2200 - Comparative Politics (BSS) - 3cr.
- SOC3200 - Population and Society (DSS) - 3cr.
- SOC3600 - Finding Community in Today's Society (DSS) - 3cr.

Language Course Options

Complete 8 credits in any of the following:

Arabic

Complete ANY of the following Courses:
- ARBC1010 - Arabic First Year I - 4cr.
- ARBC1020 - Arabic First Year II - 4cr.
- ARBC2010 - Intermediate Standard Arabic Second Year I - 4cr.
- ARBC2020 - Intermediate Standard Arabic Second Year II - 4cr.
- ARBC3010 - Advanced Arabic I - 3cr.
- ARBC3020 - Advanced Arabic II - 3cr.

Chinese

Complete ANY of the following Courses:
- CHIN1010 - Chinese First Year I - 4cr.
- CHIN1020 - Chinese First Year II - 4cr.
- CHIN2010 - Chinese Second Year I - 4cr.
- CHIN2020 - Chinese Second Year II - 4cr.
- CHIN2050 - Chinese Conversation - 3cr.
- CHIN3010 - Chinese Third Year I - 4cr.
- CHIN3020 - Chinese Third Year II - 4cr.

Japanese

Complete ANY of the following Courses:
- JAPN1010 - Japanese First Year I - 4cr.
- JAPN1020 - Japanese First Year II - 4cr.
- JAPN2010 - Japanese Second Year I - 4cr.
- JAPN2020 - Japanese Second Year II - 4cr.
- JAPN3010 - Japanese Third Year I - 4cr.
- JAPN3020 - Japanese Third Year II - 4cr.
- JAPN4250 - Internship/Coop - 3cr.

Korean

Complete ANY of the following Courses:
- KOR1010 - Korean First Year I - 5cr.
- KOR1020 - Korean First Year II - 5cr.
- KOR2010 - Korean Second Year I - 5cr.
- KOR2020 - Korean Second Year II - 5cr.
- KOR3010 - Korean Third Year I - 4cr.

- KOR3020 - Korean Third Year II - 4cr.

Additional Comments:

Related Programs

- Asian Studies - BA: 33-34 credits

Program Learning Outcomes

Program Learning Outcomes

https://www.usu.edu/oda/assessment/

Asian Studies - BA

Program Overview

College	Department	Program Level
College of Arts & Sciences	World Languages and Cultures	Undergraduate

About this Degree

The Asian studies program focuses on the study of peoples, cultures, and institutions of Asia. Coursework is multidisciplinary, consisting of history, geography, and Asian language classes. Through the program, students obtain an understanding of the foundation and functioning of political, economic, and social institutions of Asia. They also gain proficiency in at least one Asian language and develop an understanding of similarities and differences among Asian nations with respect to ethnicity, history, culture, religion, and institutions.

It is highly recommended, but not required, that students spend at least one term of their education participating in a study abroad program. Living and studying in Asia provides students with a greater depth of knowledge and experience that cannot be gained in a classroom setting.

- For more information about Asian Studies, please see the World Languages and Cultures website.
- Admitted and current students must meet with an academic advisor. Please make sure to consult regularly with your departmental advisor to confirm what courses will be available and to work out your plan of study.
- Log on to Degree Works to check student-specific program progress.
- The highest math requirement for this degree is Quantitative Literacy (QL) course of the student's choice.

Admission Requirements for this Program

- New freshmen must be admitted to USU in Good Standing
- Transfer students from other institutions or other programs at USU must have a 2.50 GPA
- Grade Point Average to Declare Major: 2.5 Career GPA

Program Requirements

Total Credits Required In Program Coursework	Total Credits Required To Earn This Credential
33-34	120

Simple Requisites

Program Requirements

Additional Information

- **Grade Point Average to Graduate with Major**: 2.50 GPA within major coursework.
- **USU Credit Requirement:** At least half (50 percent) of the credits earned for this major must be earned at USU.
- **Minimum Grade Requirement**: All courses for the major require a minimum grade of **C-** or better. Courses for the major may not be taken on a pass/fail basis.
- ***Total Credits for Asian Studies Minor****: 20*

Students desiring to apply study abroad credits (CHIN1800 CHINESE I STUDY ABROAD, CHIN2800 CHINESE II STUDY ABROAD, CHIN3800 CHINESE III STUDY ABROAD, CHIN4800 CHINESE IV STUDY ABROAD) toward these degrees must obtain approval from the World Languages and Cultures office prior to participating.

CHIN2050 CHINESE CONVERSATION is a required transition course that is intended for students who have not had extensive experience living in a Chinese community. CHIN2050 CHINESE CONVERSATION is required after CHIN2010 CHINESE SECOND YR I and before CHIN3010 CHINESE THIRD YR I and does not count towards the Chinese minor. For students with at least one year of extensive experience speaking Mandarin Chinese in a Mandarin-speaking environment (e.g., returned missionaries), CHIN2050 CHINESE CONVERSATION is waived and the student should take CHIN3010 CHINESE THIRD YR I after they have tested in the World Languages and Cultures Department (Cantonese speakers should take CHIN2050 CHINESE CONVERSATION).

Bachelor of Arts Degree Language Requirement

A Bachelor of Arts (BA) degree signifies proficiency in one or more foreign languages. Specifically, the BA requirement may be completed in one of the following ways:

- Demonstration of proficiency in *one* foreign language by successful completion of one course at the 2020-level or higher (or its equivalent).
  OR
- Demonstration of proficiency in American Sign Language by successful completion of ASL4920 AMERICAN SIGN LANGUAGE IV and ASL4780 DEAF CULTURE, and by passing an exit interview.
  OR
- Demonstration of proficiency in *two* foreign languages by successful completion of the 1020 course level in one language ***and*** the 2010 course level in the second language (or its equivalent).
  OR
- Completion of an upper-division (3000-level or higher) foreign language grammar or literature course requiring the 2020 course level (or its equivalent) as a prerequisite. Conversation courses *cannot* be considered for satisfying this requirement.

For nonnative English-speaking students only:

- To meet the requirement of Asian studies major, non-native English speakers who are skipping third year language courses in Arabic, Chinese, Japanese, and Korean need to take the same amounts of credits (3-4 credits) from courses in Section A Core Requirements or Section B General Elective Requirements.
- Non-native English-speaking students may also consider the following options:
- Successful completion of the Intensive English Language Institute (IELI) program for international students.

OR

- TOEFL, Michigan, or IELI placement scores high enough to meet the University admission criteria.

Asian Studies - BA

Type
Completion Requirement

Major Requirements (33-34 credits)

See the following:

To graduate with a BA degree in Asian Studies, students must complete a minimum of 33-34 credits approved by the Asian Studies program director. The program must include a minimum of 18 credits selected from the Core Requirements, 12 credits from the General Electives, and 3-4 credits of one upper-division grammar course from the language of the student's choice. Course selections may need consultation with the Asian Studies program advisor.

A. Core Requirements (18 credits)

Earn at least 18 credits from the following:

- ARBC3030 - Introduction to Islam (DHA) - 3cr.
  OR RELS3030 - Introduction to Islam (DHA) - 3cr.
- ARBC4040 - Language and Culture of the Arab World (DHA) - 3cr.
- CHIN3090 - Introduction to Modern Chinese Literature and Film - 3cr.
- CHIN3100 - Readings in Contemporary Chinese Culture (DHA) - 3cr.
- CHIN3510 - Chinese Business Presentations - 3cr.
- CHIN3520 - Chinese Business Strategies - 3cr.
- CHIN3540 - Translating into and from Chinese (CI) - 3cr.
- CHIN3600 - Contemporary Children's Literature in Chinese - 3cr.
- CHIN4010 - Chinese Multimedia - 3cr.
- CHIN4030 - Love and Death in Chinese Film - 3cr.
- CHIN4090 - Readings in Masterworks of Classical Chinese Fiction - 3cr.
- CHIN4210 - Chinese/Sinophone Theatre and Performance - 3cr.
- ECON5510 - International Trade Theory - 3cr.
- HIST3410 - The Modern Middle East - 3cr.
- HIST3460 - Comparative Asian History (DHA) - 3cr.
- HIST3482 - Ancient China to 1800 (DHA) - 3cr.
- HIST3483 - Modern China 1800 to present (DHA) - 3cr.
- HIST3560 - Modern East Asia (DHA) - 3cr.
- HIST4150 - Japan, Europe, and the Early Modern World - 3cr.
- HIST4821 - World War II in Asia (DHA) - 3cr.
- JAPN3050 - Japanese Calligraphy - 1cr.
  OR ART3050 - Japanese Calligraphy - 1cr.
- JAPN3090 - Introduction to Japanese Literature - 3cr.
- JAPN3100 - Readings in Contemporary Japanese Culture - 3cr.
- JAPN3510 - Japanese for the Business Environment - 3cr.
- JAPN3560 - Studies in Japanese Film - 3cr.
- KOR3510 - Business Korean - 3cr.
- LANG3550 - Culture of East Asia (DHA) - 3cr.
  OR ANTH3550 - Culture of East Asia (DHA) - 3cr.
  OR HIST3550 - Culture of East Asia (DHA) - 3cr.
- HIST3110 - Ancient Near East (DHA/CI) - 3cr.
- LANG3570 - Narrative Ethics in Asian Literature and Film (DHA) - 3cr.
- LANG3650 - Women and Gender in East Asian Culture - 3cr.
- LANG3990 - Special Topics - 1cr.
- PHIL3710 - Philosophies of East Asia - 3cr.
- POLS3230 - Middle Eastern Government and Politics - 3cr.
- POLS3250 - Chinese Government and Politics (DSS) - 3cr.
- POLS4230 - Issues in Middle East Politics - 3cr.
- POLS4260 - Asian Government and Politics (DSS) - 3cr.
- POLS4470 - Foreign Policy in the Pacific - 3cr.
- RELS3010 - Introduction to Buddhism (DHA) - 3cr.
  OR HIST3010 - Introduction to Buddhism (DHA) - 3cr.
- RELS3020 - Introduction to Hinduism (DHA) - 3cr.
  OR HIST3020 - Introduction to Hinduism (DHA) - 3cr.
- RELS3470 - Religion and Politics in South Asia - 3cr.

OR HIST3470 - Religion and Politics in South Asia - 3cr.
- RELS3820 - Hindu Sacred Texts (CI) - 3cr.
- RELS4560 - Women in Islam (DHA) - 3cr.
  OR HIST4560 - Women in Islam (DHA) - 3cr.
- RELS4565 - Medieval Islam (DHA) - 3cr.
  OR HIST4565 - Medieval Islam (DHA) - 3cr.
- RELS4566 - Global Faces of Islam (DHA) - 3cr.
  OR HIST4566 - Global Faces of Islam (DHA) - 3cr.

● Or other topics courses that are focused on Asia

NOTE:

1. LANG3990 SPECIAL TOPICS - 3 credits required.

B. General Elective Requirements (12 credits)

CHIN3800 CHINESE III STUDY ABROAD and CHIN4800 CHINESE IV STUDY ABROAD are repeatable for credit.

Earn at least 12 credits from the following:
- ANTH1010 - Cultural Anthropology (BSS) - 3cr.
- ANTH2010 - Peoples of the Contemporary World (BSS) - 3cr.
- ANTH3160 - Anthropology of Religion (DSS) - 3cr.
- ANTH4100 - The Study of Language - 3cr.
  OR LING4100 - The Study of Language - 3cr.
- APEC5700 - Regional and Community Economic Development - 3cr.
- CMST1330 - Introduction to Global Communication (BSS) - 3cr.
- CMST3330 - Intercultural Communication (DSS) - 3cr.
- CMST4330 - Advanced Perspectives in Global Communication (CI) - 3cr.
- ECON3500 - Introduction to International Business and Economics (DSS) - 3cr.
- ECON3530 - Comparative Economic Systems (DSS)(CI) - 3cr.
- FIN4300 - International Finance - 3cr.
- GEOG1300 - World Geography: Human and Environmental Dynamics (BSS) - 3cr.
- LANG4330 - Advanced Perspectives in Global Communication - 3cr.
- LING2100 - Languages in Global and Historical Context (BSS) - 3cr.
- LING3100 - Language in Social Context - 3cr.
- MSLE4590 - Marketing Strategy - 3cr.
- POLS2100 - Introduction to International Relations (BSS) - 3cr.
- POLS2200 - Comparative Politics (BSS) - 3cr.
- CHIN3800 - Chinese III Study Abroad - 1cr.
- SOC3200 - Population and Society (DSS) - 3cr.
- SOC3600 - Finding Community in Today's Society (DSS) - 3cr.

C. Language Requirements (3-4 credits)

Students must have completed the equivalent of one of the 3010/3020 third year language courses from an Asian language, including Arabic, Chinese, Japanese and Korean (see the department for questions regarding other languages). The following are languages courses that will help fulfill that requirement:

Fulfill ANY of the following requirements:

Arabic

Complete ALL of the following Courses:
- ARBC3010 - Advanced Arabic I - 3cr.

OR

Chinese

Complete ALL of the following Courses:
- CHIN3010 - Chinese Third Year I - 4cr.
  OR CHIN3020 - Chinese Third Year II - 4cr.

OR

Japanese

Complete ALL of the following Courses:
- JAPN3010 - Japanese Third Year I - 4cr.
  OR JAPN3020 - Japanese Third Year II - 4cr.

OR

Korean

Complete ALL of the following Courses:
- KOR3010 - Korean Third Year I - 4cr.
  OR KOR3020 - Korean Third Year II - 4cr.

Open Electives

Complete the following as needed:
Total elective credit is determined by General Education courses taken, degree type selected, additional credits earned, and any additional math or other prerequisite courses needed. Please consult your Academic Advisor for details.

Additional Comments:

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Bachelor's Degree)

Suggested Degree Maps

Degree Map Name
Suggested Degree Map - Asian Studies BA
Total Degree Map Credits
120
Degree Map Effective Catalog Year
2027 -

Degree Map Narrative

- Following is a sample four-year plan. Please note that student-specific plans may differ.
- Meet with an academic advisor to create a specific plan that best fits your academic needs.
- The student is ultimately responsible for knowing and completing all degree requirements.
- Make sure you meet the registration requirements for each class by clicking the course link and checking any prerequisites or corequisites.
- Consultation with an advisor may result in an altered plan customized for an individual student.
- Check your Degree Works for requirements and completion.

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	15	0

Requirement Select
- Quantitative Literacy (QL) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Asian Language 1010 course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	5
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Breadth American Institutions (BAI) Course
  OR
- Breadth Creative Arts (BCA) Course
  OR
- Breadth Humanities (BHU) Course
  OR
- Breadth Life Sciences (BLS) Course
  OR
- Breadth Physical Sciences (BPS) Course
  OR
- Breadth Social Sciences (BSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Breadth American Institutions (BAI) Course
  OR
- Breadth Creative Arts (BCA) Course
  OR
- Breadth Humanities (BHU) Course
  OR
- Breadth Life Sciences (BLS) Course
  OR
- Breadth Physical Sciences (BPS) Course
  OR
- Breadth Social Sciences (BSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	15	0

Requirement Select
- ENGL1010 - Writing as Inquiry (CL1)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Asian Language 1020 course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	5
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Breadth American Institutions (BAI) Course
  OR
- Breadth Creative Arts (BCA) Course
  OR
- Breadth Humanities (BHU) Course
  OR
- Breadth Life Sciences (BLS) Course
  OR
- Breadth Physical Sciences (BPS) Course
  OR
- Breadth Social Sciences (BSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Breadth American Institutions (BAI) Course
  OR
- Breadth Creative Arts (BCA) Course
  OR
- Breadth Humanities (BHU) Course
  OR
- Breadth Life Sciences (BLS) Course
  OR
- Breadth Physical Sciences (BPS) Course
  OR
- Breadth Social Sciences (BSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	15	0

Requirement Select

- Asian General Elective course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Asian Language 2010 course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	5
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Breadth American Institutions (BAI) Course
  OR
- Breadth Creative Arts (BCA) Course
  OR
- Breadth Humanities (BHU) Course
  OR
- Breadth Life Sciences (BLS) Course
  OR
- Breadth Physical Sciences (BPS) Course
  OR
- Breadth Social Sciences (BSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Breadth American Institutions (BAI) Course
  OR
- Breadth Creative Arts (BCA) Course
  OR
- Breadth Humanities (BHU) Course
  OR
- Breadth Life Sciences (BLS) Course
  OR
- Breadth Physical Sciences (BPS) Course
  OR
- Breadth Social Sciences (BSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	15	0

Requirement Select

- ENGL2010 - Research and Argument Across Perspectives (CL2)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Asian Language 2020 course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	5
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Asian Core course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Asian General Elective course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Fall	15	0

Requirement Select

- Asian Language 3010/3020 course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Asian Upper-Division Core course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Communications Intensive (CI) Courses

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Quantitative Intensive (QI) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Breadth American Institutions (BAI) Course
  OR
- Breadth Creative Arts (BCA) Course
  OR
- Breadth Humanities (BHU) Course
  OR
- Breadth Life Sciences (BLS) Course
  OR
- Breadth Physical Sciences (BPS) Course
  OR
- Breadth Social Sciences (BSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Spring	15	0

Requirement Select

- Asian Upper-Division Core course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Asian Upper-Division Core course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Communications Intensive (CI) Courses

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Depth Life and Physical Sciences (DSC) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Asian General Elective course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Fall	15	0

Requirement Select
- Asian Upper-Division Core course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Upper-Division Asian General Elective course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Upper-Division Elective course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Upper-Division Elective course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Depth Social Sciences (DSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Spring	15	0

Requirement Select

- Asian Upper-Division Core course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Upper-Division Asian General Elective course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Upper-Division Elective course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Upper-Division Elective course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Elective course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Program Learning Outcomes

Program Learning Outcomes

https://artsci.usu.edu/assessments/

American Sign Language - Minor

Program Overview

College
College of Education & Human Services

Department
Speech and Hearing Sciences

Program Level
Undergraduate

About this Degree

Students must complete the following requirements to receive a minor in American Sign Language. Learning American Sign Language can benefit students of any major as they will be able to communicate with deaf people/clients/personnel within their chosen professions. The minor in ASL provides an excellent background for students who wish to further their education by getting into the field of Deaf Education or Interpreting or related professions.

Program Requirements

Total Credits Required In Program Coursework
18

Total Credits Required To Earn This Credential
18

Simple Requisites

Program Requirements

Students must earn a grade of C or better in all of the courses required for the minor. Residency requirement: Students must complete at least two of the required courses through USU.

American Sign Language - Minor

Type
Completion Requirement

ASL Minor (18 credits)

Complete ALL of the following Courses:

- ASL1010 - American Sign Language I - 4cr.
- ASL1020 - American Sign Language II - 4cr.
- ASL2010 - American Sign Language III - 4cr.
- ASL2020 - American Sign Language IV - 4cr.
- ASL4780 - Deaf Culture - 3cr.

Program Learning Outcomes

Program Learning Outcomes

https://cehs.usu.edu/shs/assessment/university/undergraduate-program/learning-objectives

Agricultural Systems Technology and Agribusiness (Composite) - BS

Program Overview

College
College of Agriculture & Natural Resources

Department
Applied Sciences, Technology and Education

Program Level
Undergraduate

About this Degree

This degree is a combination of courses required for the agricultural systems technology degree and the agribusiness degree. USU is the only university in the state with this program. Students gain an understanding of agricultural, biological, and physical sciences, as well as technical and business managerial skills.

The composite program prepares graduates for managerial careers within the agriculture industry, including running a family farm or ranch. Graduates may also pursue other agricultural careers, such as working for an agricultural equipment corporation, managing a machinery dealership, serving as a sales representative for an equipment company, or serving as a farm or ranch manager.

A dual degree option (meaning students graduate with two separate degrees) is also available through the Applied Economics Department. The difference is that students in the composite program are not required to take as many higher-level math classes and theoretical economics classes.

- For more information about Agricultural Systems Technology, see the website.
- Admitted and current students must meet with an advisor. Contact Allie East, allie.east@usu.edu, 435-797-2194 for advising.
- Log on to Degree Works to check student-specific program progress.
- The highest math requirement for this degree is MATH1050 COLLEGE ALGEBRA (QL)

Admission Requirements for this Program

- New freshmen: Admitted to USU in Good Standing
- Transfer students from other institutions or other programs at USU: 2.75 GPA

Program Requirements

Total Credits Required In Program Coursework
91

Total Credits Required To Earn This Credential
120

Simple Requisites

Program Requirements

Agricultural Systems Technology and Agribusiness (Composite) - BS Required Courses

Type
Completion Requirement

Applied Economics and Economics Courses (36 credits)

Complete ALL of the following Courses:

- ACCT2010 - Financial Accounting Principles - 3cr.
- APEC1600 - Natural Resources and American Economic Institutions (BAI) - 3cr.
  OR ECON2010 - Introduction to Microeconomics (BSS) - 3cr.
- APEC2010 - Introduction to Microeconomics (BSS) - 3cr.

- APEC2120 - Small Firm Accounting Basics - 3cr.
- APEC2310 - Small Firm Management - 3cr.
- APEC2830 - Agribusiness Sales and Marketing - 3cr.
- APEC3010 - Agricultural Economics (DSS) - 3cr.
- APEC3310 - Analytical Methods in Applied Economics (QI) - 3cr.
- APEC5010 - Firm Marketing and Price Analysis (QI) - 3cr.
- APEC5015 - Applied Economics for Decision Making (QI) - 3cr.
- APEC5020 - Strategic Firm Management (CI) - 3cr.
- APEC5940 - U.S. Agricultural Policy Analysis - 3cr.
  OR APEC5950 - Applied Economics Policy Analysis - 3cr.

Agricultural Systems Courses (24 credits)

Complete ALL of the following Courses:

- ASTE1010 - Introduction to Agricultural Systems Technology - 3cr.
- ASTE1110 - Equipment Safety for Agriculture and Natural Resources - 2cr.
- ASTE1610 - Agricultural and Construction Machinery Power - 4cr.
- ASTE1640 - Introduction to Welding - 3cr.
- ASTE3600 - Data Management of Agricultural Systems (QI) - 3cr.
- ASTE4100 - Agricultural Structures and Environment (QI) - 3cr.
- ASTE5260 - Environmental Impacts of Agricultural Systems (CI) - 3cr.
- TESY1200 - Computer-Aided Drafting and Design - 3cr.

Technical Requirements (28 credits)

Complete ALL of the following Courses:

- ASTE3030 - Metal Fabrication for Agriculture and Natural Resource Industries - 3cr.
- ASTE3050 - Technical and Professional Communication Principles (CI) - 3cr.
- ASTE3080 - Compact Power Units for Agricultural and Turfgrass Applications - 3cr.
- ASTE3720 - Electrical Power Systems for Agricultural Applications - 4cr.
- CHEM1110 - General Chemistry I (BPS) - 4cr.
- MATH1050 - College Algebra (QL) - 4cr.
- MGT3350 - Legal and Ethical Environment of Business - 3cr.
  OR BUSN2050 - Business Law - 3cr.
- PSC3000 - Fundamentals of Soil Science - 4cr.

Required

Earn at least 3 credits from the following:

- ASTE4250 - Occupational Experiences in Agriculture - 1cr.

Open Electives

Complete the Following as Needed:

Total elective credit is determined by General Education courses taken, degree type selected, additional credits earned, and any additional math or other prerequisite courses needed. Please consult your Academic Advisor for details.

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Bachelor's Degree)

Suggested Degree Maps

Degree Map Name
Suggested Degree Map - Agricultural Systems Technology and Agribusiness (Composite), BS
Total Degree Map Credits
122 - 124
Degree Map Effective Catalog Year
2027 -

Degree Map Narrative

- Following is a sample four-year plan. Please note that student-specific plans may differ.
- Meet with an academic advisor to create a specific plan that best fits your academic needs.
- The student is ultimately responsible for knowing and completing all degree requirements.
- Make sure you meet the registration requirements for each class by clicking the course link and checking any prerequisites or corequisites.
- Consultation with an advisor may result in an altered plan customized for an individual student.
- Check your Degree Works for requirements and completion.

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	14 - 16	0

Requirement Select

- ASTE1010 - Introduction to Agricultural Systems Technology

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- MATH Course (2-4 Credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2 - 4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- ASTE1640 - Introduction to Welding

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- ASTE1610 - Agricultural and Construction Machinery Power

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- ASTE1110 - Equipment Safety for Agriculture and Natural Resources

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	16	0

Requirement Select
- APEC1600 - Natural Resources and American Economic Institutions (BAI)

  OR
- ECN1500 - Introduction to Macroeconomics

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- CHEM1110 - General Chemistry I (BPS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- TESY1200 - Computer-Aided Drafting and Design

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- ENGL1010 - Writing as Inquiry (CL1)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- QANR Elective (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	16	0

Requirement Select

- ENGL2010 - Research and Argument Across Perspectives (CL2)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- ACCT2010 - Financial Accounting Principles

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- ASTE3720 - Electrical Power Systems for Agricultural Applications

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- Breadth Creative Arts (BCA) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- QANR Elective (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	15	0

Requirement Select

- APEC2010 - Introduction to Microeconomics (BSS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- APEC2830 - Agribusiness Sales and Marketing

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- APEC2310 - Small Firm Management

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- USU1350 - Integrated Life Science (BLS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- QANR Elective (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Fall	16	0

Requirement Select

- APEC3310 - Analytical Methods in Applied Economics (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- MGT3350 - Legal and Ethical Environment of Business

OR

- BUSN2050 - Business Law

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- PSC3000 - Fundamentals of Soil Science

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- APEC2120 - Small Firm Accounting Basics

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Breadth Humanities (BHU) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Spring	15	0

Requirement Select

- APEC3010 - Agricultural Economics (DSS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- ASTE3080 - Compact Power Units for Agricultural and Turfgrass Applications

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- ASTE3050 - Technical and Professional Communication Principles (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- APEC5940 - U.S. Agricultural Policy Analysis
  OR
- APEC5950 - Applied Economics Policy Analysis

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- QANR Elective (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Fall	15	0

Requirement Select

- APEC5010 - Firm Marketing and Price Analysis (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- APEC5015 - Applied Economics for Decision Making (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- ASTE5260 - Environmental Impacts of Agricultural Systems (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Depth Humanities and Creative Arts (DHA) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- QANR Elective (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Spring	15	0

Requirement Select

- ASTE3600 - Data Management of Agricultural Systems (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- ASTE4100 - Agricultural Structures and Environment (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- APEC5020 - Strategic Firm Management (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- QANR Elective (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- QANR Elective (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	Total Major Credits
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Program Learning Outcomes

Program Learning Outcomes

https://www.usu.edu/oda/assessment/

Agricultural Systems Technology - Minor

Program Overview

College
College of Agriculture & Natural Resources

Department
Applied Sciences, Technology and Education

Program Level
Undergraduate

About this Degree

The agricultural systems technology minor provides a foundation in applying technical skills related to power and machine systems used in agriculture and food systems. Coursework focuses on management, use, and troubleshooting of technology.

For more information on this minor, contact the academic advisor:

Allie East, allie.east@usu.edu, 435-797-2194

Program Requirements

Total Credits Required In Program Coursework
12

Total Credits Required To Earn This Credential
12

Simple Requisites

Program Requirements

Agricultural Systems Technology Minor Requirements (12 credits)

Type
Completion Requirement

The following course is required:

Complete ALL of the following Courses:

- ASTE1010 - Introduction to Agricultural Systems Technology - 3cr.

Select the balance of credits from the following courses:

Complete at least 9 of the following courses:

- ASTE1110 - Equipment Safety for Agriculture and Natural Resources - 2cr.
- ASTE1130 - Agricultural Machinery Systems: Planting, Tillage, and Harvest Technologies - 3cr.
- ASTE1610 - Agricultural and Construction Machinery Power - 4cr.
- ASTE3030 - Metal Fabrication for Agriculture and Natural Resource Industries - 3cr.
- ASTE3080 - Compact Power Units for Agricultural and Turfgrass Applications - 3cr.
- ASTE3600 - Data Management of Agricultural Systems (QI) - 3cr.
- ASTE3720 - Electrical Power Systems for Agricultural Applications - 4cr.
- ASTE4100 - Agricultural Structures and Environment (QI) - 3cr.
- ASTE5260 - Environmental Impacts of Agricultural Systems (CI) - 3cr.
- ASTE5999 - Precision Agriculture Practicum - 3cr.

or substitutions approved by faculty or advisor

Program Learning Outcomes

Program Learning Outcomes

https://caas.usu.edu/aste/assessment/

Agricultural Systems Technology - Agribusiness Emphasis - BS

Program Overview

College
College of Agriculture & Natural Resources

Department
Applied Sciences, Technology and Education

Program Level
Undergraduate

About this Degree

A degree in Agricultural Systems Technology prepares individuals to manage agricultural systems and agribusinesses with the application of sound technical, economical, and environmental practices. The focal point of the program is on the management, use, and troubleshooting of agricultural technology.

Students' coursework typically involves a broad foundation through real-world instruction in power and machine systems, natural resources conservation, electricity and electronics, precision agriculture technologies, and agricultural structural systems.

Students have the option to take electives to focus their studies in one of three emphases: **Agribusiness**, **Agricultural Machinery and Technology, or Agricultural Operations.**

An **Agribusiness** emphasis provides in-depth, technical education in agricultural economics and business management. It is designed to provide basic knowledge of business concepts and approaches, as well as an understanding of current agricultural changes. This emphasis is for students who wish to become managers in the ag industry. Students take courses in agricultural economics, agricultural business, and agricultural mechanics.

An **Agricultural Machinery and Technology** emphasis provides a broad understanding of agriculture with a depth of understanding related to using machinery and technology used in production practices. Students take courses in agricultural machinery, unmanned aerial systems, hydraulics, and electrical systems.

An **Agricultural Operations** emphasis provides a systems approach for students who wish to efficiently manage a crop or livestock production operation, or make a positive contribution on a multi-generational farm and/or ranch. Students in this 24-credit emphasis strengthen their knowledge and ability in animal and plant science to meet the variety of challenges that face agriculture today.

- For more information about Agricultural Systems Technology, see the website.
- Admitted and current students must meet with an advisor.
- For more information, click on this link or contact the academic advisor, Allie East at allie.east@usu.edu or 435-797-2194.
- Choose to emphasize in Agricultural Machinery and Technology, Agribusiness or Agricultural Operations. 24 credits are required.
- The highest math requirement for this degree is MATH1050 COLLEGE ALGEBRA (QL)

Admission Requirements for this Program

- New freshmen: Admitted to USU in Good Standing
- Transfer students from other institutions or other programs at USU: 2.75 GPA

Program Requirements

Total Credits Required In Program Coursework
90

Total Credits Required To Earn This Credential
120

Simple Requisites

Program Requirements

Log on to Degree Works to check student-specific program progress.

Agricultural Systems Technology - Agribusiness Emphasis - BS Course Requirements

Type
Completion Requirement

Technical Requirements (27 credits)

Complete ALL of the following Courses:

- APEC2010 - Introduction to Microeconomics (BSS) - 3cr.
- APEC2120 - Small Firm Accounting Basics - 3cr.
- APEC2310 - Small Firm Management - 3cr.
- APEC3010 - Agricultural Economics (DSS) - 3cr.
- CHEM1110 - General Chemistry I (BPS) - 4cr.
- APEC1600 - Natural Resources and American Economic Institutions (BAI) - 3cr.
  OR ECN1500 - Introduction to Macroeconomics - 3cr.
- MATH1050 - College Algebra (QL) - 4cr.
- PSC3000 - Fundamentals of Soil Science - 4cr.

Required Communications Course (3 credits)

Complete ALL of the following Courses:

- ASTE3050 - Technical and Professional Communication Principles (CI) - 3cr.

Agricultural Systems Courses (24 credits)

Complete ALL of the following Courses:

- ASTE1010 - Introduction to Agricultural Systems Technology - 3cr.
- ASTE1110 - Equipment Safety for Agriculture and Natural Resources - 2cr.
- ASTE1610 - Agricultural and Construction Machinery Power - 4cr.
- ASTE1640 - Introduction to Welding - 3cr.
- ASTE3600 - Data Management of Agricultural Systems (QI) - 3cr.
- ASTE4100 - Agricultural Structures and Environment (QI) - 3cr.
- ASTE5260 - Environmental Impacts of Agricultural Systems (CI) - 3cr.
- TESY1200 - Computer-Aided Drafting and Design - 3cr.

Agribusiness Emphasis (24 credits)

Agricultural Systems Technology students may elect to concentrate their coursework within one of the three major emphases: Agribusiness, Agricultural Mechanization, or Farm and Ranch Operations.

Complete ALL of the following Courses:

- APEC3310 - Analytical Methods in Applied Economics (QI) - 3cr.
- APEC4310 - Agribusiness Finance - 3cr.
- APEC5000 - International Trade and Finance - 3cr.
- APEC5015 - Applied Economics for Decision Making (QI) - 3cr.
  OR APEC5020 - Strategic Firm Management (CI) - 3cr.

Agribusiness Emphasis Elective Credits (12 credits)

A minimum of 3 credits for ASTE 4250 are required.

Earn at least 12 credits from the following:

- APEC2830 - Agribusiness Sales and Marketing - 3cr.
- ASTE1130 - Agricultural Machinery Systems: Planting, Tillage, and Harvest Technologies - 3cr.
- ASTE2100 - Personal and Team Leadership - 3cr.
- ASTE3720 - Electrical Power Systems for Agricultural Applications - 4cr.
- ASTE3080 - Compact Power Units for Agricultural and Turfgrass Applications - 3cr.
- ASTE4250 - Occupational Experiences in Agriculture - 1cr.
- ASTE5300 - Emergency Preparedness for Agricultural Enterprises - 1cr.
- ASTE5999 - Precision Agriculture Practicum - 3cr.

Open Electives

Complete the following as needed:
Total elective credit is determined by General Education courses taken, degree type selected, additional credits earned, and any additional math or other prerequisite courses needed. Please consult your Academic Advisor for details.

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Bachelor's Degree)

Suggested Degree Maps

Degree Map Name
Suggested Degree Map - Agricultural Systems Technology: Agribusiness Emphasis - BS
Total Degree Map Credits
125 - 127
Degree Map Effective Catalog Year
2027 -

Degree Map Narrative

- Following is a sample four-year plan. Please note that student-specific plans may differ.
- Meet with an academic advisor to create a specific plan that best fits your academic needs.
- The student is ultimately responsible for knowing and completing all degree requirements.
- Make sure you meet the registration requirements for each class by clicking the course link and checking any prerequisites or corequisites.
- Consultation with an advisor may result in an altered plan customized for an individual student.
- Check your Degree Works for requirements and completion.

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	17 - 19	0

Requirement Select

- ASTE1010 - Introduction to Agricultural Systems Technology

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- ENGL1010 - Writing as Inquiry (CL1)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Math Course (2-4 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2 - 4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- ASTE1640 - Introduction to Welding

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- ASTE1110 - Equipment Safety for Agriculture and Natural Resources

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select

- ASTE1610 - Agricultural and Construction Machinery Power

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	16	0

Requirement Select

- APEC1600 - Natural Resources and American Economic Institutions (BAI)

  OR
- ECN1500 - Introduction to Macroeconomics

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- MATH1050 - College Algebra (QL)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- TESY1200 - Computer-Aided Drafting and Design

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Breadth Humanities (BHU) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Designated Elective (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	15	0

Requirement Select

- APEC2120 - Small Firm Accounting Basics

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- ENGL2010 - Research and Argument Across Perspectives (CL2)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- USU1350 - Integrated Life Science (BLS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Designated Emphasis Elective Course (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Designated Elective (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	16	0

Requirement Select

- APEC2010 - Introduction to Microeconomics (BSS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- CHEM1110 - General Chemistry I (BPS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- QANR Elective (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- QANR Elective (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- APEC2310 - Small Firm Management

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Fall	16	0

Requirement Select

- ASTE3050 - Technical and Professional Communication Principles (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- PSC3000 - Fundamentals of Soil Science

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- Designated Emphasis Elective Course (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Designated Emphasis Elective Course (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- APEC3310 - Analytical Methods in Applied Economics (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Spring	15	0

Requirement Select

- APEC3010 - Agricultural Economics (DSS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- ASTE3600 - Data Management of Agricultural Systems (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- QANR Elective (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Designated Elective (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Designated Elective (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Fall	15	0

Requirement Select
- ASTE5260 - Environmental Impacts of Agricultural Systems (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- ASTE4250 - Occupational Experiences in Agriculture

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	1 - 6
Clinical	-
Criticality	No

Requirement Select
- QANR Elective (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- APEC4310 - Agribusiness Finance

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- APEC5015 - Applied Economics for Decision Making (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Spring	15	0

Requirement Select

- APEC2310 - Small Firm Management

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Depth Humanities and Creative Arts (DHA) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Designated Emphasis Elective Course (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Designated Emphasis Elective Course (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- ASTE4100 - Agricultural Structures and Environment (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Program Learning Outcomes

Program Learning Outcomes

https://www.usu.edu/oda/assessment/

Agricultural Systems Technology - Agricultural Operations Emphasis - BS

Program Overview

College
College of Agriculture & Natural Resources

Department
Applied Sciences, Technology and Education

Program Level
Undergraduate

About this Degree

A degree in Agricultural Systems Technology prepares individuals to manage agricultural systems and agribusinesses with the application of sound technical, economical, and environmental practices. The focal point of the program is on the management, use, and troubleshooting of agricultural technology.

Students' coursework typically involves a broad foundation through real-world instruction in power and machine systems, natural resources conservation, electricity and electronics, precision agriculture technologies, and agricultural structural systems.

Students have the option to take electives to focus their studies in one of three emphases: **Agribusiness**, **Agricultural Machinery and Technology, or Agricultural Operations.**

An **Agribusiness** emphasis provides in-depth, technical education in agricultural economics and business management. It is designed to provide basic knowledge of business concepts and approaches, as well as an understanding of current agricultural changes. This emphasis is for students who wish to become managers in the ag industry. Students take courses in agricultural economics, agricultural business, and agricultural mechanics.

An **Agricultural Machinery and Technology** emphasis provides a broad understanding of agriculture with a depth of understanding related to using machinery and technology used in production practices. Students take courses in agricultural machinery, unmanned aerial systems, hydraulics, and electrical systems.

An **Agricultural Operations** emphasis provides a systems approach for students who wish to efficiently manage a crop or livestock production operation, or make a positive contribution on a multi-generational farm and/or ranch. Students in this 24-credit emphasis strengthen their knowledge and ability in animal and plant science to meet the variety of challenges that face agriculture today.

- For more information about Agricultural Systems Technology, see the website.
- Admitted and current students must meet with an advisor.
- For more information, click on this link or contact the academic advisor, Allie East at allie.east@usu.edu or 435-797-2194.
- Choose to emphasize in Agricultural Machinery and Technology, Agribusiness or Agricultural Operations. 24 credits are required.
- The highest math requirement for this degree is MATH1050 COLLEGE ALGEBRA (QL)

Admission Requirements for this Program

- New freshmen: Admitted to USU in Good Standing
- Transfer students from other institutions or other programs at USU: 2.75 GPA

Program Requirements

Total Credits Required In Program Coursework
78

Total Credits Required To Earn This Credential
120

Simple Requisites

Program Requirements

Log on to Degree Works to check student-specific program progress.

Agricultural Systems Technology - Agricultural Operations Emphasis - BS Course Requirements

Type
Completion Requirement

Technical Requirements (27 credits)

Complete ALL of the following Courses:

- APEC2010 - Introduction to Microeconomics (BSS) - 3cr.
- APEC2120 - Small Firm Accounting Basics - 3cr.
- APEC2310 - Small Firm Management - 3cr.
- APEC3010 - Agricultural Economics (DSS) - 3cr.
- CHEM1110 - General Chemistry I (BPS) - 4cr.
- APEC1600 - Natural Resources and American Economic Institutions (BAI) - 3cr.
  AND ECN1500 - Introduction to Macroeconomics - 3cr.
- MATH1050 - College Algebra (QL) - 4cr.
- PSC3000 - Fundamentals of Soil Science - 4cr.

Required Communications Course (3 credits)

Complete ALL of the following Courses:

- ASTE3050 - Technical and Professional Communication Principles (CI) - 3cr.

Agricultural Systems Courses (24 credits)

Complete ALL of the following Courses:

- ASTE1010 - Introduction to Agricultural Systems Technology - 3cr.
- ASTE1110 - Equipment Safety for Agriculture and Natural Resources - 2cr.
- ASTE1610 - Agricultural and Construction Machinery Power - 4cr.
- ASTE1640 - Introduction to Welding - 3cr.
- ASTE3600 - Data Management of Agricultural Systems (QI) - 3cr.
- ASTE4100 - Agricultural Structures and Environment (QI) - 3cr.
- ASTE5260 - Environmental Impacts of Agricultural Systems (CI) - 3cr.
- TESY1200 - Computer-Aided Drafting and Design - 3cr.

Agricultural Operations Emphasis (24 credits)

Select 3 credits from each systems area (Animal Systems, Natural Resource Systems, Pest Management, and Plant Systems) for a total of 12 credits of required systems courses.

Students must select an additional 12 credits from the agricultural technology area for a total of 24 credits to complete the agricultural operations emphasis.

Fulfill ALL of the following requirements:

Animal Systems (3 credits)

Earn at least 3 credits from the following:

- ADVS2080 - Beef Production Practices - 3cr.
- ADVS2090 - Sheep Production Practices - 3cr.
- ADVS2120 - Swine Production and Management - 3cr.
- ADVS2130 - Dairy Cattle Production - 3cr.

- ADVS2190 - Horse Production Practices - 3cr.
- ADVS3150 - Principles of Equine-Assisted Services - 3cr.
- ADVS3650 - Live Animal and Carcass Evaluation - 3cr.
- ADVS3910 - Special Topics - 1cr.
- ADVS3930 - Sheep Day - 1cr.
- ADVS5860 - Poisonous Range Plants Affecting Livestock - 3cr.

AND

Natural Resource Systems (3 credits)

Earn at least 3 credits from the following:

- ENVS4000 - Human Dimensions of Natural Resource Management (DSS) - 3cr.
- PSC5350 - Wildland Soils - 3cr.
- PSC5710 - Irrigated Soils - 3cr.
- WATS3700 - Fundamentals of Watershed Science (CI) - 3cr.
- WILD4000 - Principles of Rangeland Management - 3cr.

AND

Pest Management (3 credits)

Earn at least 3 credits from the following:

- PSC4550 - Integrated Weed Management - 3cr.
- BIOL4500 - Applied Entomology - 3cr.
- PSC5550 - Fundamentals of Integrated Weed Management - 4cr.

AND

Plant Systems (3 credits)

Earn at least 3 credits from the following:

- PSC3500 - Structure and Function of Plants - 3cr.
- PSC3600 - An Introduction to Plant Breeding and Heredity - 3cr.
- PSC3800 - Fundamentals of Organic Agriculture - 3cr.
- PSC4280 - Field and Food Cropping Systems - 3cr.
- PSC4320 - Forage Production and Pasture Management - 3cr.

Agricultural Technology Elective Credits (12 credits)

Students must complete ASTE 1130 (3 credits) and 9 additional agricultural technology elective credits from the following courses.

Earn at least 12 credits from the following:

- ASTE1130 - Agricultural Machinery Systems: Planting, Tillage, and Harvest Technologies - 3cr.
- ASTE2100 - Personal and Team Leadership - 3cr.
- ASTE3030 - Metal Fabrication for Agriculture and Natural Resource Industries - 3cr.
- ASTE3080 - Compact Power Units for Agricultural and Turfgrass Applications - 3cr.
- ASTE3720 - Electrical Power Systems for Agricultural Applications - 4cr.
- ASTE3900 - Special Problems in Agricultural Systems Technology and Education - 1cr.
- ASTE4250 - Occupational Experiences in Agriculture - 1cr.
- ASTE5300 - Emergency Preparedness for Agricultural Enterprises - 1cr.
- ASTE5999 - Precision Agriculture Practicum - 3cr.

- GEOG2800 - Introduction to Geographic Information Sciences - 4cr.
  OR WILD2800 - Introduction to Geographic Information Sciences - 4cr.
  OR WATS2800 - Introduction to Geographic Information Sciences - 4cr.

Open Electives

Complete the following as needed:
Total elective credit is determined by General Education courses taken, degree type selected, additional credits earned, and any additional math or other prerequisite courses needed. Please consult your Academic Advisor for details.

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Bachelor's Degree)

Suggested Degree Maps

Degree Map Name
Suggested Degree Map - Agricultural Systems Technology: Agricultural Operations Emphasis, BS
Total Degree Map Credits
125
Degree Map Effective Catalog Year
2027 -

Degree Map Narrative

- Following is a sample four-year plan. Please note that student-specific plans may differ.
- Meet with an academic advisor to create a specific plan that best fits your academic needs.
- The student is ultimately responsible for knowing and completing all degree requirements.
- Make sure you meet the registration requirements for each class by clicking the course link and checking any prerequisites or corequisites.
- Consultation with an advisor may result in an altered plan customized for an individual student.
- Check your Degree Works for requirements and completion.

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	16	0

Requirement Select

- ASTE1010 - Introduction to Agricultural Systems Technology

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- ENGL1010 - Writing as Inquiry (CL1)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Math Course (2-4 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- ASTE1640 - Introduction to Welding

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Breadth Creative Arts (BCA) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	16	0

Requirement Select

- APEC1600 - Natural Resources and American Economic Institutions (BAI)

  OR

- ECN1500 - Introduction to Macroeconomics

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- MATH1050 - College Algebra (QL)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- Designated Emphasis Elective Course (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- ENGL2010 - Research and Argument Across Perspectives (CL2)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- TESY1200 - Computer-Aided Drafting and Design

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	16	0

Requirement Select

- APEC2120 - Small Firm Accounting Basics

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- USU1350 - Integrated Life Science (BLS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- ASTE1610 - Agricultural and Construction Machinery Power

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- ASTE3720 - Electrical Power Systems for Agricultural Applications

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- ASTE1110 - Equipment Safety for Agriculture and Natural Resources

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	16	0

Requirement Select

- APEC2010 - Introduction to Microeconomics (BSS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- CHEM1110 - General Chemistry I (BPS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- ASTE1130 - Agricultural Machinery Systems: Planting, Tillage, and Harvest Technologies

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Breadth Humanities (BHU) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Designated Emphasis Elective (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Fall	16	0

Requirement Select

- ASTE3050 - Technical and Professional Communication Principles (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- PSC3000 - Fundamentals of Soil Science

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- Designated Emphasis Elective Course (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Designated Emphasis Elective Course (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Depth Humanities and Creative Arts (DHA) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Spring	15	0

Requirement Select
- APEC3010 - Agricultural Economics (DSS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- ASTE3600 - Data Management of Agricultural Systems (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Designated Emphasis Elective (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- QANR Elective (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Designated Emphasis Elective (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Fall	15	0

Requirement Select
- ASTE5260 - Environmental Impacts of Agricultural Systems (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- QANR Elective (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- QANR Elective (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Designated Emphasis Elective (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- QANR Elective (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Spring	15	0

Requirement Select
- APEC2310 - Small Firm Management

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- QANR Elective (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Designated Emphasis Elective Course (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Designated Emphasis Elective Course (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- ASTE4100 - Agricultural Structures and Environment (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Total General Education Credits	Total Major Credits
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Program Learning Outcomes

Program Learning Outcomes
https://www.usu.edu/oda/assessment/

Agricultural Systems Technology - Agricultural Machinery and Technology Emphasis - BS

Program Overview

College
College of Agriculture & Natural Resources

Department
Applied Sciences, Technology and Education

Program Level
Undergraduate

About this Degree
A degree in Agricultural Systems Technology prepares individuals to manage agricultural systems and agribusinesses with the application of sound technical, economical, and environmental practices. The focal point of the program is on the management, use, and troubleshooting of agricultural technology.

Students' coursework typically involves a broad foundation through real-world instruction in power and machine systems, natural resources conservation, electricity and electronics, precision agriculture technologies, and agricultural structural systems.

Students have the option to take electives to focus their studies in one of three emphases: **Agribusiness**, **Agricultural Machinery and Technology, or Agricultural Operations.**

An **Agribusiness** emphasis provides in-depth, technical education in agricultural economics and business management. It is designed to provide basic knowledge of business concepts and approaches, as well as an understanding of current agricultural changes. This emphasis is for students who wish to become managers in the ag industry. Students take courses in agricultural economics, agricultural business, and agricultural mechanics.

An **Agricultural Machinery and Technology** emphasis provides a broad understanding of agriculture with a depth of understanding related to using machinery and technology used in production practices. Students take courses in agricultural machinery, unmanned aerial systems, hydraulics, and electrical systems.

An **Agricultural Operations** emphasis provides a systems approach for students who wish to efficiently manage a crop or livestock production operation, or make a positive contribution on a multi-generational farm and/or ranch. Students in this 24-credit emphasis strengthen their knowledge and ability in animal and plant science to meet the variety of challenges that face agriculture today.

- For more information about Agricultural Systems Technology, see the website.
- Admitted and current students must meet with an advisor.
- For more information, click on this link or contact the academic advisor, Allie East at allie.east@usu.edu or 435-797-2194.
- Choose to emphasize in Agricultural Machinery and Technology, Agribusiness or Agricultural Operations. 24 credits are required.
- The highest math requirement for this degree is MATH1050 COLLEGE ALGEBRA (QL)

Admission Requirements for this Program
- New freshmen: Admitted to USU in Good Standing
- Transfer students from other institutions or other programs at USU: 2.75 GPA

Program Requirements

Total Credits Required In Program Coursework
82

Total Credits Required To Earn This Credential
120

Simple Requisites

Program Requirements

Log on to Degree Works to check student-specific program progress.

Agricultural Systems Technology - Agricultural Machinery and Technology Emphasis - BS Course Requirements

Type

Completion Requirement

Technical Requirements (27 credits)

Complete ALL of the following Courses:

- APEC2010 - Introduction to Microeconomics (BSS) - 3cr.
- APEC2120 - Small Firm Accounting Basics - 3cr.
- APEC2310 - Small Firm Management - 3cr.
- APEC3010 - Agricultural Economics (DSS) - 3cr.
- CHEM1110 - General Chemistry I (BPS) - 4cr.
- APEC1600 - Natural Resources and American Economic Institutions (BAI) - 3cr.
  OR ECON2010 - Introduction to Microeconomics (BSS) - 3cr.
- MATH1050 - College Algebra (QL) - 4cr.
- PSC3000 - Fundamentals of Soil Science - 4cr.

Required Communications Course (3 credits)

Complete ALL of the following Courses:

- ASTE3050 - Technical and Professional Communication Principles (CI) - 3cr.

Agricultural Systems Courses (24 credits)

Complete ALL of the following Courses:

- ASTE1010 - Introduction to Agricultural Systems Technology - 3cr.
- ASTE1110 - Equipment Safety for Agriculture and Natural Resources - 2cr.
- ASTE1610 - Agricultural and Construction Machinery Power - 4cr.
- ASTE1640 - Introduction to Welding - 3cr.
- ASTE3600 - Data Management of Agricultural Systems (QI) - 3cr.
- ASTE4100 - Agricultural Structures and Environment (QI) - 3cr.
- ASTE5260 - Environmental Impacts of Agricultural Systems (CI) - 3cr.
- TESY1200 - Computer-Aided Drafting and Design - 3cr.

Agricultural Machinery and Technology Emphasis (16 credits)

A minimum of 6 credits of ASTE 4250 are required.

Complete ALL of the following Courses:

- ASTE3030 - Metal Fabrication for Agriculture and Natural Resource Industries - 3cr.
- ASTE3080 - Compact Power Units for Agricultural and Turfgrass Applications - 3cr.
- ASTE3720 - Electrical Power Systems for Agricultural Applications - 4cr.
- ASTE4250 - Occupational Experiences in Agriculture - 1cr.

Agricultural Machinery and Technology Emphasis Elective Credits (12 credits)

Earn at least 12 credits from the following:

- ASTE1130 - Agricultural Machinery Systems: Planting, Tillage, and Harvest Technologies - 3cr.
- ASTE2100 - Personal and Team Leadership - 3cr.
- ASTE3900 - Special Problems in Agricultural Systems Technology and Education - 1cr.
- ASTE5999 - Precision Agriculture Practicum - 3cr.
- ASTE5300 - Emergency Preparedness for Agricultural Enterprises - 1cr.
- AV1905 - Intro to Unmanned Aerial Systems (without FAA Exam) - 2cr.
- GEOG2800 - Introduction to Geographic Information Sciences - 4cr.
  OR WILD2800 - Introduction to Geographic Information Sciences - 4cr.
  OR WATS2800 - Introduction to Geographic Information Sciences - 4cr.

Open Electives

Complete the following as needed:

Total elective credit is determined by General Education courses taken, degree type selected, additional credits earned, and any additional math or other prerequisite courses needed. Please consult your Academic Advisor for details.

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Bachelor's Degree)

Suggested Degree Maps

Degree Map Name

Suggested Degree Map - Agricultural Systems Technology: Agricultural Machinery and Technology Emphasis, BS

Total Degree Map Credits

123 - 125

Degree Map Effective Catalog Year

2027 -

Degree Map Narrative

- Following is a sample four-year plan. Please note that student-specific plans may differ.
- Meet with an academic advisor to create a specific plan that best fits your academic needs.
- The student is ultimately responsible for knowing and completing all degree requirements.
- Make sure you meet the registration requirements for each class by clicking the course link and checking any prerequisites or corequisites.
- Consultation with an advisor may result in an altered plan customized for an individual student.
- Check your Degree Works for requirements and completion.

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	14 - 16	0

Requirement Select

- Math Course (2-4 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2 - 4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- ASTE1010 - Introduction to Agricultural Systems Technology

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- ASTE1110 - Equipment Safety for Agriculture and Natural Resources

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select

- ASTE1610 - Agricultural and Construction Machinery Power

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- ASTE1640 - Introduction to Welding

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	16	0

Requirement Select

- APEC1600 - Natural Resources and American Economic Institutions (BAI)

  OR

- ECN1500 - Introduction to Macroeconomics

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- MATH1050 - College Algebra (QL)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- ENGL1010 - Writing as Inquiry (CL1)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- TESY1200 - Computer-Aided Drafting and Design

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- USU1350 - Integrated Life Science (BLS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	16	0

Requirement Select
- APEC2120 - Small Firm Accounting Basics

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- ENGL2010 - Research and Argument Across Perspectives (CL2)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- TESY1200 - Computer-Aided Drafting and Design

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Designated Emphasis Elective Course (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- ASTE3720 - Electrical Power Systems for Agricultural Applications

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	16	0

Requirement Select
- APEC2010 - Introduction to Microeconomics (BSS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- CHEM1110 - General Chemistry I (BPS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- QANR Elective (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Breadth Humanities (BHU) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- ASTE3030 - Metal Fabrication for Agriculture and Natural Resource Industries

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Fall	16	0

Requirement Select

- ASTE3050 - Technical and Professional Communication Principles (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- PSC3000 - Fundamentals of Soil Science

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- Depth Humanities and Creative Arts (DHA) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- ASTE4250 - Occupational Experiences in Agriculture

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	1 - 6
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Spring	15	0

Requirement Select
- APEC3010 - Agricultural Economics (DSS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- ASTE3080 - Compact Power Units for Agricultural and Turfgrass Applications

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Designated Emphasis Elective Course (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- QANR Elective (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- ASTE3600 - Data Management of Agricultural Systems (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Fall	15	0

Requirement Select
- ASTE5260 - Environmental Impacts of Agricultural Systems (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- QANR Elective (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- QANR Elective (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- QANR Elective (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- QANR Elective (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Spring	15	0

Requirement Select

- APEC2310 - Small Firm Management

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Designated Emphasis Elective Course (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Designated Emphasis Elective Course (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- ASTE4100 - Agricultural Structures and Environment (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Designated Elective (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	Total Major Credits
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Program Learning Outcomes

Program Learning Outcomes

https://www.usu.edu/oda/assessment/

Aviation Technology - Maintenance Management - BS

Program Overview

College
College of Agriculture & Natural Resources

Department
Aviation Technology

Program Level
Undergraduate

About this Degree

The Aviation Technology - Maintenance Management major prepares students for entry-level positions in management and maintenance programs within the airline industry, corporate aviation, and general aviation.

Students acquire skills in flight principles and aircraft structures, aircraft maintenance, and aircraft systems through hands-on experience while working closely with professional instructors.

Students complete all of the courses required for the Federal Aviation Administration (FAA) Airframe and Powerplant (A&P) licenses, so when they graduate they have a bachelor's degree as well as meeting the FAA requirements to test for the A& P licenses, which qualifies them to work on certain aircraft and engines. Students take classes in advanced turbine engines, and composite structures. Computer literacy, management, and communications courses are incorporated into the program to provide essential business skills, and students also take courses in science, statistics, and electronics to further enhance their technical knowledge.

- For more information about Aviation Technology Maintenance Management, see the website
- Admitted and current students must meet with an advisor.
- Log on to Degree Works to check student-specific program progress.
- The math requirement for this degree is any Quantitative Literacy (QL) course

Admission Requirements for this Program

- New freshmen: 2.5 GPA
- Transfer students from other institutions or other programs at USU: 2.5 GPA

Program Requirements

Total Credits Required In Program Coursework
88

Total Credits Required To Earn This Credential
120

Simple Requisites

Program Requirements

For all aviation technology majors, the following academic regulations apply in addition to university regulations:

1. A minimum GPA of 2.5 must be maintained in major required classes. University Studies courses are not included in this GPA calculation.

2. No more than 6 credits of *D or D+* credit may be applied toward meeting graduation requirements in major required classes.

3. The *P-D-F* grading option may not be used in required courses. (The *P-D-F* grading option is approved for University Studies courses.)

4. The academic regulations listed above (1-3) apply to required coursework and any technology/math/science/business course which could be used to satisfy graduation requirements for the chosen degree. That is, once a student completes a particular technical elective, it becomes a required course for that student.

5. Students in violation of departmental or college academic regulations, no longer eligible for graduation, or not making satisfactory progress toward a degree will have a registration hold placed on their record.

a. Students will be placed on probation (registration hold) if they

i. have more than 6 credits of *D* credit (see item 2 above), or

ii. have a major GPA of less than 2.5 (see item 1 above)

b. The hold remains until they improve their standing by repeating classes to reduce the number of *D* credits to 6 or less, and/or by raising their GPA above 2.5. Students must meet with their advisor to have the hold removed.

6. FAA regulations require students to earn a 70% or higher score to pass each course. To obtain the certification to test for Airframe and Powerplant licenses, students must meet that standard in each FAA part 147 required course.

Students are required to furnish their own basic set of tools and toolbox. With special discounts available through USU, prices range from $500 to $1,500. Contact Randy Chesley, randy.chesley@usu.edu or (435) 797-2748, for required tool list.

Required Courses

Type
Completion Requirement

Aviation Courses (74 credits)

Complete ALL of the following Courses:

- AV1100 - The Aviation Profession - 1cr.
- AV1130 - Flight Principles - 3cr.
- AV1140 - Aircraft Components and Principles - 3cr.
- AV1150 - Aircraft Components and Principles II - 3cr.
- AV1170 - Aircraft Structures - 3cr.
- AV1240 - Aircraft Maintenance - 3cr.
- AV2100 - Aircraft Reciprocating Powerplants and Accessories - 3cr.
- AV2110 - Aircraft Reciprocating Powerplants and Accessories Lab - 3cr.
- AV2140 - Aircraft Turbine Powerplants and Maintenance Operations - 3cr.
- AV2150 - Aircraft Turbine Powerplant Maintenance Operations Lab - 3cr.
- AV2170 - Aircraft Systems - 2cr.
- AV2180 - Aircraft Hydraulic and Pneumatic Systems - 2cr.
- AV2190 - Aircraft Systems Lab - 1cr.
- AV2200 - Aircraft Hydraulics and Pneumatics Systems Lab - 1cr.
- AV2430 - Aircraft Electrical Systems and Components - 2cr.
- AV2440 - Aircraft Electrical Systems Laboratory - 2cr.
- AV3120 - Aviation Law - 3cr.
  OR AV4490 - Human Factors in Aviation Safety - 3cr.
- AV3280 - Advanced Aircraft Maintenance - 3cr.
- AV3420 - FAA Regulations, Records, and Certification - 2cr.
- AV4200 - Composite Manufacturing Processes and Repair - 3cr.
- AV4280 - Aviation Management - 3cr.
- AV4610 - Aviation Maintenance Senior Project I (CI) - 3cr.
- AV4620 - Aviation Maintenance Senior Project II (CI) - 3cr.
  OR AV4720 - Aviation Safety and Security (CI) - 3cr.

- ASTE3050 - Technical and Professional Communication Principles (CI) - 3cr.
- MSLE3110 - Managing Organizations and People (DSS) - 3cr.
- TEE2300 - Electronic Fundamentals (QI) - 3cr.
  OR AV2300 - Fundamentals of Electricity and Aircraft Electronics - 4cr.
- TESY1030 - Material Processing Systems - 3cr.
- TESY1200 - Computer-Aided Drafting and Design - 3cr.

Students are also required to fulfill the Quantitative Literacy (QL) requirement

Upper-Division Directed Electives (12 credits)

Students must take 12 credits of upper-division directed electives to be chosen from the following list:

Earn at least 12 credits from the following:

- AV3010 - National Airspace, Air Traffic Control, and Airport Administration - 3cr.
- AV3100 - Technical Communication for the Global Aviation Industry (CI) - 3cr.
- AV4150 - AOG (Aircraft On Ground) Aircraft Maintenance - 1cr.
- AV4250 - Internship - 1cr.
- AV4300 - History of Aviation in America - 3cr.
- AV4720 - Aviation Safety and Security (CI) - 3cr.
- AV4750 - Aviation Symposium - 1cr.
- CMST3250 - Organizational Communication (CI) - 3cr.
- CMST3330 - Intercultural Communication (DSS) - 3cr.
- CMST4200 - Language, Thought, and Action (CI/DSS) - 3cr.
- CMST5500 - Communication and Leadership - 3cr.
- HDFS3350 - Family Finance (DSS) - 3cr.
- MGT3250 - Managing Human Capital - 3cr.
- MGT4600 - Negotiations - 2cr.
- MSLE3500 - Fundamentals of Marketing - 3cr.
- MSLE3510 - New Venture Creation - 3cr.
- MSLE3530 - New Venture Marketing - 3cr.
- MSLE3540 - New Venture Finance - 3cr.
- MSLE3580 - New Venture Execution - 3cr.
- MSLE3710 - Leading Teams - 2cr.
- MSLE3800 - Leadership - 2cr.
- MSLE3820 - International Business (DSS) - 3cr.
- UAS3010 - Unmanned Aircraft System Introduction to Remote Pilot Certification - 3cr.
- UAS3050 - Unmanned Aircraft Systems Pilot in Command Introduction - 3cr.
- UAS3200 - Fixed-wing Design and Construction Essentials - 3cr.
- UAS3440 - Unmanned Aircraft Systems Precision Agriculture Introduction - 3cr.
- UAS3700 - Unmanned Aircraft Systems Video Production - 3cr.
- TESY3000 - Hazard Recognition & Control - 3cr.
- TESY4500 - Quality Management Systems - 3cr.

- For information about other classes that may apply, including minor and ROTC classes, students should contact their advisor.

Open Electives

Complete the following as needed:
Total elective credit is determined by General Education courses taken, degree type selected, additional credits earned, and any additional math or other prerequisite courses needed. Please consult your Academic Advisor for details.

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Bachelor's Degree)

Suggested Degree Maps

Degree Map Name
Suggested Degree Map - Aviation Technology: Maintenance Management, BS
Total Degree Map Credits
116 - 127
Degree Map Effective Catalog Year
2027 -

Degree Map Narrative

- Following is a sample four-year plan. Please note that student-specific plans may differ.
- Meet with an academic advisor to create a specific plan that best fits your academic needs.
- The student is ultimately responsible for knowing and completing all degree requirements.
- Make sure you meet the registration requirements for each class by clicking the course link and checking any prerequisites or corequisites.
- Consultation with an advisor may result in an altered plan customized for an individual student.
- Check your Degree Works for requirements and completion.

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	16	0

Requirement Select

- AV1100 - The Aviation Profession

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- AV1130 - Flight Principles

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- AV1140 - Aircraft Components and Principles

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- AV1170 - Aircraft Structures

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Quantitative Literacy (QL) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Elective credit (2 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Elective credit (2 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	15	0

Requirement Select

- AV1240 - Aircraft Maintenance

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- ENGL1010 - Writing as Inquiry (CL1)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- TEE2300 - Electronic Fundamentals (QI)

  OR
- AV2300 - Fundamentals of Electricity and Aircraft Electronics

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3 - 4
Clinical	-
Criticality	No

Requirement Select

- Breadth American Institutions (BAI) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- AV1150 - Aircraft Components and Principles II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	12 - 16	0

Requirement Select

- AV2180 - Aircraft Hydraulic and Pneumatic Systems

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select

- AV2200 - Aircraft Hydraulics and Pneumatics Systems Lab

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- ENGL2010 - Research and Argument Across Perspectives (CL2)

  OR

- ENGL2020 - Professional Communication (CL2)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- TESY1200 - Computer-Aided Drafting and Design

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Breadth Physical Sciences (BPS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	0 - 4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Breadth Creative Arts (BCA) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	16 - 18	0

Requirement Select
- AV2170 - Aircraft Systems

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select
- AV2190 - Aircraft Systems Lab

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- AV2430 - Aircraft Electrical Systems and Components

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select
- AV2440 - Aircraft Electrical Systems Laboratory

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select
- Breadth Social Sciences (BSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Breadth Life Sciences (BLS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- TESY1030 - Material Processing Systems

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Fall	15	0

Requirement Select
- AV2100 - Aircraft Reciprocating Powerplants and Accessories

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- AV2110 - Aircraft Reciprocating Powerplants and Accessories Lab

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- AV3120 - Aviation Law

OR

- AV4490 - Human Factors in Aviation Safety

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- AV4200 - Composite Manufacturing Processes and Repair

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Breadth Humanities (BHU) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Spring	13 - 18	0

Requirement Select

- ASTE3050 - Technical and Professional Communication Principles (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- AV2140 - Aircraft Turbine Powerplants and Maintenance Operations

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- AV2150 - Aircraft Turbine Powerplant Maintenance Operations Lab

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- AV3420 - FAA Regulations, Records, and Certification

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select
- Quantitative Intensive (QI) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2 - 7
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Fall	15	0

Requirement Select
- AV3280 - Advanced Aircraft Maintenance

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- AV4280 - Aviation Management

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- AV4610 - Aviation Maintenance Senior Project I (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- MSLE3110 - Managing Organizations and People (DSS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Directed Elective Course (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Spring	14	0

Requirement Select
- AV4620 - Aviation Maintenance Senior Project II (CI)

OR
- AV4720 - Aviation Safety and Security (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Depth Humanities and Creative Arts (DHA) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Directed Elective Courses (6 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Elective credit (2 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Program Learning Outcomes

Program Learning Outcomes

https://www.usu.edu/oda/assessment/

Aviation Technology - Professional Pilot: Accelerated Fixed Wing Emphasis - BS

Program Overview

College	Department	Program Level
College of Agriculture & Natural Resources	Aviation Technology	Undergraduate

About this Degree

The Aviation Technology – Professional Pilot: Accelerated Fixed Wing Emphasis prepares students to become professional pilots in the fixed wing industry. This emphasis allows students to complete their flight training in fewer semesters, providing greater flexibility and efficiency in their education. Upon graduation, students will have acquired the necessary flight hours and FAA licenses, including private, instrument, commercial single-engine with multi-engine add-on, and CFI.

- For more information about Aviation Technology Professional Pilot, see the website.
- Admitted and current students must meet with an advisor.
- Log on to Degree Works to check student-specific program progress.
- The highest math requirement for this degree is MATH1060 TRIGONOMETRY

Flight Training

Once students commence flight training at USU, all flight training must be completed in USU approved aircraft. Exceptions include courses not offered by USU such as glider ratings, seaplanes, etc. Students who hold a FAA instrument and/or commercial license(s) are not admissible to this degree and should seek an alternate degree. Students should adhere to expected standards of flight training and complete each flight course in the semester. Students should work closely with their assigned flight instructor and the chief flight instructor to ensure standards are met. Failure to progress because of noncompliance with the expectations could result in a flight hold. Failing three FAA check exams can result in dismissal from the program. Further details and expectations can be found in the program handbook.

Medical Certificates

In accordance with the *Code of Federal Regulations*, *Title 14*, *Part 61.3*, all professional pilot students are required to obtain an FAA Medical Certificate. There are three classes of medical certificates which students may obtain: First Class, Second Class, and Third Class. Although *only* a Third Class Medical Certificate is required for student pilot operations at Utah State University, it is highly recommended that students obtain a First Class Certificate, in order to ensure that no medical conditions exist which would disqualify them from obtaining one at a later date. **Many pilot jobs *require* a First Class Medical Certificate.** Students using VA education benefits must maintain at least a Second Class Medical Certificate. A medical certificate may be obtained from a certified Aviation Medical Examiner (AME). Detailed requirements for each medical class and durations are explained in CFR Title 14, part 67, and part 61.23.

Fees

In addition to regular tuition and fees, a special class fee will be assessed to all flight certification classes. When a student enrolls in each flight certification, the fee is due with tuition payment. Course costs are based on average costs of training, and include stage check and FAA check ride fees. **All fees are subject to change**. Please visit the program website for a list of current flight fees.

Restricted ATP

Students who graduate with this degree can qualify for the Restricted Airline Transport Pilot (RATP) certificate. To be eligible for the RATP certifying document you must meet the following criteria: 1) Received a Bachelors degree in Aviation Technology – Professional Pilot from Utah State University; 2) Earn a minimum of 60 credits of approved aviation courses (see advisor for list); 3) Complete instrument rating and commercial pilot certificate from Utah State University.

All students please note that the 1000 hour R-ATP will only be awarded to students who meet all FAA requirements AND graduate in the Aviation Technology Professional Pilot degree.

Students who meet FAA requirements for the R-ATP, but graduate in an Aviation Management major will only qualify for the 1250 hour R-ATP.

Admission Requirements for this Program

- New freshmen: 3.0 GPA
- Transfer students from other institutions or other programs at USU: 3.0 GPA

Program Requirements

Total Credits Required In Program Coursework
78

Total Credits Required To Earn This Credential
120

Simple Requisites

Program Requirements

Students should work closely with their advisor when choosing electives and filling out the necessary matriculation forms. The advisor can be a useful source of information and assistance, but it is the student's responsibility to seek an advisor's aid and meet the necessary graduation requirements. Find advisor contact here.

Graduation Requirements for Aviation Technology:

For all aviation technology majors, the following academic regulations apply in addition to University regulations:

1. A minimum GPA of 3.0 must be maintained in major required classes. University Studies courses are not included in this GPA calculation.

2. No more than 5 credits of *D+* or lower credit may be applied toward meeting graduation requirements in major required classes.

3. The *P-D-F* grading option may not be used in required courses. (The *P-D-F* grading option is approved for University Studies courses.)

4. The academic regulations listed above (1-3) apply to required coursework and any technology/math/science/business course which could be used to satisfy graduation requirements for the chosen degree. That is, once a student completes a particular technical elective, it becomes a required course for that student.

5. Students in violation of departmental or college academic regulations, no longer eligible for graduation, or not making satisfactory progress toward a degree will have a registration hold placed on their record.

Aviation Technology - Professional Pilot: Accelerated Fixed Wing Emphasis - BS Course Requirements

Type

Completion Requirement

Professional Pilot Core Courses (25 credits)

Complete ALL of the following Courses:

- AV1100 - The Aviation Profession - 1cr.
- AV2040 - Aviation Weather - 3cr.
- AV3010 - National Airspace, Air Traffic Control, and Airport Administration - 3cr.
- AV3120 - Aviation Law - 3cr.
- AV4490 - Human Factors in Aviation Safety - 3cr.
- AV4660 - Aviation Senior Project (CI) - 3cr.
- MATH1050 - College Algebra (QL) - 4cr.
- MATH1060 - Trigonometry - 2cr.
- MSLE3110 - Managing Organizations and People (DSS) - 3cr.

Accelerated Flight Emphasis Courses (37 credits)

Complete ALL of the following Courses:

- AV2000 - Aerodynamics for Aviators - 3cr.
- AV2160 - Aircraft Systems for the Professional Pilot - 3cr.
- AV2330 - Private Pilot Ground School - 4cr.
- AV2350 - Private Pilot Certification - 3cr.
- AV2520 - Instrument Pilot Ground School - 4cr.
- AV2620 - Commercial Pilot Ground School - 3cr.
- AV2800 - Flight Lab 1 (141 Instrument and Commercial Training) - 3cr.
- AV2900 - Flight Lab 2 (141 Instrument and Commercial Training) - 3cr.
- AV3200 - Flight Lab 4 (141 Commercial and CFI Training) - 3cr.
- AV3720 - CFI Ground School (CI) - 3cr.
- AV3880 - Commercial Multi-Engine Add-On - 2cr.
- AV5500 - Airline Transport Pilot (ATP) Standards (QI) - 4cr.

Accelerated Flight Emphasis Electives (12 credits)

Earn at least 12 credits from the following:

- AV3000 - Flight Lab 3 (141 Commercial Training) - 3cr.
- AV3140 - Advanced Avionics Systems and Flight Simulation - 3cr.
- AV3300 - Flight Lab 5 (141 CFI Training) - 2cr.
- AV3900 - Aviation Independent Study - 1cr.
- AV4250 - Internship - 1cr.
- AV4280 - Aviation Management - 3cr.
- AV4710 - Crew Resource Management (CI) - 3cr.
- AV4720 - Aviation Safety and Security (CI) - 3cr.
- AV4750 - Aviation Symposium - 1cr.
- AV5300 - Advanced Twin Systems - 3cr.
- AV5400 - Boeing 737 NG Systems and Procedures - 4cr.
- AV5420 - Boeing 737 NG Advanced Flight Maneuvers - 3cr.

Open Electives

Complete the following as needed:
Total elective credit is determined by General Education courses taken, degree type selected, additional credits earned, and any additional math or other prerequisite courses needed. Please consult your Academic Advisor for details.

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Bachelor's Degree)

Suggested Degree Maps

Degree Map Name
Suggested Degree Map - Professional Pilot: Accelerated Fixed Wing Emphasis BS
Total Degree Map Credits
118 - 123
Degree Map Effective Catalog Year
2027 -

Degree Map Narrative

- Following is a sample four-year plan. Please note that student-specific plans may differ.
- Meet with an academic advisor to create a specific plan that best fits your academic needs.
- The student is ultimately responsible for knowing and completing all degree requirements.
- Make sure you meet the registration requirements for each class by clicking the course link and checking any prerequisites or corequisites.
- Consultation with an advisor may result in an altered plan customized for an individual student.
- Check your Degree Works for requirements and completion.

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	15	0

Requirement Select
- AV1100 - The Aviation Profession

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- AV2330 - Private Pilot Ground School

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- AV2350 - Private Pilot Certification

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- MATH1050 - College Algebra (QL)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- Breadth American Institutions (BAI) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	14 - 15	0

Requirement Select
- ENGL1010 - Writing as Inquiry (CL1)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- MATH1060 - Trigonometry

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select
- Breadth Humanities (BHU) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Breadth Life Sciences (BLS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Breadth Creative Arts (BCA) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	16 - 17	0

Requirement Select
- AV2000 - Aerodynamics for Aviators

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- AV2520 - Instrument Pilot Ground School

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- AV2800 - Flight Lab 1 (141 Instrument and Commercial Training)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- ENGL2010 - Research and Argument Across Perspectives (CL2)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Breadth Physical Sciences (BPS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	It is strongly recommended that students in this program take a physics class to fulfill their BPS requirement.
Minimum Grade	-
Area	-
Actual Credits	3 - 4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- It is strongly recommended that students in this program take a physics class to fulfill their BPS requirement. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	15 - 16	0

Requirement Select

- AV2160 - Aircraft Systems for the Professional Pilot

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- AV2620 - Commercial Pilot Ground School

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- AV2900 - Flight Lab 2 (141 Instrument and Commercial Training)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- AV2040 - Aviation Weather

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Breadth Social Sciences (BSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Fall	15	0

Requirement Select

- AV3010 - National Airspace, Air Traffic Control, and Airport Administration

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- AV Elective (3 Credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- MSLE3110 - Managing Organizations and People (DSS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Emphasis elective (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Elective (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Spring	15	0

Requirement Select

- AV3120 - Aviation Law

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- AV3720 - CFI Ground School (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- AV3200 - Flight Lab 4 (141 Commercial and CFI Training)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- AV4490 - Human Factors in Aviation Safety

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Elective (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Fall	12 - 14	0

Requirement Select
- AV3880 - Commercial Multi-Engine Add-On

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select
- AV4660 - Aviation Senior Project (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Depth Humanities and Creative Arts (DHA) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1 - 3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective (6 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Spring	16	0

Requirement Select
- Emphasis electives (9 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	9
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- AV5500 - Airline Transport Pilot (ATP) Standards (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Total General Education Credits	Total Major Credits
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Program Learning Outcomes

Program Learning Outcomes

https://www.usu.edu/oda/assessment/

Aviation Technology - Professional Pilot: Fixed Wing Emphasis - BS

Program Overview

College
College of Agriculture & Natural Resources

Department
Aviation Technology

Program Level
Undergraduate

About this Degree

The Aviation Technology – Professional Pilot major prepares students to become professional pilots in the fixed wing industries. Upon graduation from this program, students will have acquired approximately 250-300 hours of flight time. The degree requirements include completion of the following FAA licenses: private, instrument, commercial single-engine with multi-engine add-on, and CFI.

- For more information about Aviation Technology Professional Pilot, see the website.
- Admitted and current students must meet with an advisor.
- Log on to Degree Works to check student-specific program progress.
- The highest math requirement for this degree is MATH1060 TRIGONOMETRY

Flight Training

Once students commence flight training at USU, all flight training must be completed in USU approved aircraft. Exceptions include courses not offered by USU such as glider ratings, seaplanes, etc. Students who hold a FAA instrument and/or commercial license(s) are not admissible to this degree and should seek an alternate degree. Students should adhere to expected standards of flight training and complete each flight course in the semester. Students should work closely with their assigned flight instructor and the chief flight instructor to ensure standards are met. Failure to progress because of noncompliance with the expectations could result in a flight hold. Failing three FAA check exams can result in dismissal from the program. Further details and expectations can be found in the program handbook.

Garmin Pilot App

Students will need a device that can operate the Garmin Pilot App in order to engage in flight training. Please see compatibility requirements here: Garmin Pilot App Compatibility Requirements | Garmin Customer Support

Medical Certificates

In accordance with the *Code of Federal Regulations, Title 14, Part 61.3*, all professional pilot students are required to obtain an FAA Medical Certificate. There are three classes of medical certificates which students may obtain: First Class, Second Class, and Third Class. Although *only* a Third Class Medical Certificate is required for student pilot operations at Utah State University, it is highly recommended that students obtain a First Class Certificate, in order to ensure that no medical conditions exist which would disqualify them from obtaining one at a later date. **Many pilot jobs *require* a First Class Medical Certificate.** Students using VA education benefits must maintain at least a Second Class Medical Certificate. A medical certificate may be obtained from a certified Aviation Medical Examiner (AME). Detailed requirements for each medical class and durations are explained in CFR Title 14, part 67, and part 61.23.

FAA Medical Certificate must be obtained and submitted to your advisor **before** registering for any flight courses. See this and other requirements to fly here: caas.usu.edu/aviation/flight-requirements

Fees

In addition to regular tuition and fees, a special class fee will be assessed to all flight certification classes. When a student enrolls in each flight certification, the fee is due with tuition payment. Course costs are based on average costs of training, and include stage check and FAA check ride fees. **All fees are subject to change**. Please visit the program website for a list of current flight fees.

Restricted ATP

Students who graduate with this degree can qualify for the Restricted Airline Transport Pilot (RATP) certificate. To be eligible for the RATP certifying document you must meet the following criteria: 1) Received a Bachelors degree in Aviation Technology – Professional Pilot from Utah State University; 2) Earn a minimum of 60 credits of approved aviation courses (see advisor for list); 3) Complete instrument rating and commercial pilot certificate from Utah State University.

All students please note that the 1000 hour R-ATP will only be awarded to students who meet all FAA requirements AND graduate in the Aviation Technology Professional Pilot degree.

Students who meet FAA requirements for the R-ATP, but graduate in an Aviation Management major will only qualify for the 1250 hour R-ATP.

Any questions can be directed to Maranda.Garvin@usu.edu.

Admission Requirements for this Program

- New freshmen and transfer students from other institutions or other programs at USU: 3.0 GPA

Program Requirements

Total Credits Required In Program Coursework
80

Total Credits Required To Earn This Credential
120

Simple Requisites

Program Requirements

Students should work closely with their advisor when choosing electives and filling out the necessary matriculation forms. The advisor can be a useful source of information and assistance, but it is the student's responsibility to seek an advisor's aid and meet the necessary graduation requirements. Find advisor contact here.

Graduation Requirements for Aviation Technology:

For all aviation technology majors, the following academic regulations apply in addition to University regulations:

1. A minimum GPA of 2.75 must be maintained in major required classes. University Studies courses are not included in this GPA calculation.

2. No more than 5 credits of *D+* or lower credit may be applied toward meeting graduation requirements in major required classes.

3. The *P-D-F* grading option may not be used in required courses. (The *P-D-F* grading option is approved for University Studies courses.)

4. The academic regulations listed above (1-3) apply to required coursework and any technology/math/science/business course which could be used to satisfy graduation requirements for the chosen degree. That is, once a student completes a particular technical elective, it becomes a required course for that student.

5. Students in violation of departmental or college academic regulations, no longer eligible for graduation, or not making satisfactory progress toward a degree will have a registration hold placed on their record.

Required Courses

Type
Completion Requirement

Professional Pilot Core Courses (28 credits)

Complete ALL of the following Courses:

- AV1100 - The Aviation Profession - 1cr.

- AV2040 - Aviation Weather - 3cr.
- AV3010 - National Airspace, Air Traffic Control, and Airport Administration - 3cr.
- AV3120 - Aviation Law - 3cr.
- AV4490 - Human Factors in Aviation Safety - 3cr.
- AV4660 - Aviation Senior Project (CI) - 3cr.
- MATH1050 - College Algebra (QL) - 4cr.
- MATH1060 - Trigonometry - 2cr.
- MSLE3110 - Managing Organizations and People (DSS) - 3cr.

Students must also complete the Breadth Physical Sciences requirement. It is strongly recommended that professional pilot students take a physics course to fulfill their BPS requirement.

Fixed Wing Emphasis Courses (44 credits)

Complete ALL of the following Courses:

- AV2000 - Aerodynamics for Aviators - 3cr.
  OR AV1130 - Flight Principles - 3cr.
- AV2160 - Aircraft Systems for the Professional Pilot - 3cr.
- AV2330 - Private Pilot Ground School - 4cr.
- AV2350 - Private Pilot Certification - 3cr.
- AV2401 - Cross Country Ground School - 1cr.
- AV2450 - Cross Country - Commercial Stage 1 - 3cr.
  OR AV2451 - Challenge Cross Country - Commercial Stage 1 - 3cr.
- AV2520 - Instrument Pilot Ground School - 4cr.
- AV2540 - Instrument Pilot Certification - 3cr.
- AV2620 - Commercial Pilot Ground School - 3cr.
- AV2660 - Advanced Maneuvers - Commercial Stage 2 - 3cr.
- AV3410 - Commercial Single Engine Certification - Commercial Stage 3 - 3cr.
- AV3700 - Fundamentals of Instruction - 1cr.
- AV3720 - CFI Ground School (CI) - 3cr.
- AV3740 - CFI Certification - 2cr.
- AV3880 - Commercial Multi-Engine Add-On - 2cr.
- AV5500 - Airline Transport Pilot (ATP) Standards (QI) - 4cr.

Fixed Wing Emphasis Elective Courses (9-10 credits)

Complete at least 3 of the following courses:

- AV3100 - Technical Communication for the Global Aviation Industry (CI) - 3cr.
- AV3140 - Advanced Avionics Systems and Flight Simulation - 3cr.
- AV4280 - Aviation Management - 3cr.
- AV4710 - Crew Resource Management (CI) - 3cr.
- AV4720 - Aviation Safety and Security (CI) - 3cr.
- AV5300 - Advanced Twin Systems - 3cr.
- AV5400 - Boeing 737 NG Systems and Procedures - 4cr.
- AV5420 - Boeing 737 NG Advanced Flight Maneuvers - 3cr.

Open Electives

Complete the following as needed:
Total elective credit is determined by General Education courses taken, degree type selected, additional credits earned, and any additional math or other prerequisite courses needed. Please consult your Academic Advisor for details.

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Bachelor's Degree)

Suggested Degree Maps

Degree Map Name
Suggested Degree Map - Aviation Technology: Professional Pilot, Fixed Wing Emphasis BS
Total Degree Map Credits
112 - 123
Degree Map Effective Catalog Year
2027 -

Degree Map Narrative

- Following is a sample of a possible four-year plan. **Please note that student-specific plans may differ**.
- Meet with an academic advisor to create a specific plan that best fits your academic needs.
- The student is ultimately responsible for knowing and completing all degree requirements.
- Make sure you meet the registration requirements for each class by clicking the course link and checking any prerequisites or corequisites.
- Consultation with an advisor may result in an altered plan customized for an individual student.
- Check your Degree Works for requirements and completion.

FAA Medical Certificate must be obtained and submitted to your advisor **before** registering for any flight courses. See this and other requirements to fly here: caas.usu.edu/aviation/flight-requirements

Students who come to USU with a private pilot license will skip AV2330 PRIVATE PILOT GROUND/AV2350 PRIVATE PILOT CERT and register for AV2401 CROSS COUNTRY GROUND SCHOOL and AV2451 CHALLENGE CROSS COUNTRY. FAA medical certificate and private pilot license must be submitted to advisor **before** registering for these courses.

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	15	0

Requirement Select

- AV1100 - The Aviation Profession

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- AV2330 - Private Pilot Ground School

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- AV2350 - Private Pilot Certification

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- MATH1050 - College Algebra (QL)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- Breadth American Institutions (BAI) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	14 - 15	0

Requirement Select
- AV2160 - Aircraft Systems for the Professional Pilot

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- ENGL1010 - Writing as Inquiry (CL1)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- MATH1060 - Trigonometry

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select
- Breadth Humanities (BHU) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Breadth Social Sciences (BSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	16	0

Requirement Select
- AV2000 - Aerodynamics for Aviators

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- AV2401 - Cross Country Ground School

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- AV2450 - Cross Country - Commercial Stage 1

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- ENGL2010 - Research and Argument Across Perspectives (CL2)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Breadth Creative Arts (BCA) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective course (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	10 - 14	0

Requirement Select
- AV2520 - Instrument Pilot Ground School

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- AV2540 - Instrument Pilot Certification

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- PSC2040 - Aviation Meteorology (BPS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Breadth Physical Sciences (BPS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	It is strongly recommended that students take a physics course to fulfill this BPS requirement.
Minimum Grade	-
Area	-
Actual Credits	0 - 4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Fall	15 - 17	0

Requirement Select
- AV2620 - Commercial Pilot Ground School

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- AV2660 - Advanced Maneuvers - Commercial Stage 2

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- AV3010 - National Airspace, Air Traffic Control, and Airport Administration

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Aviation Elective (3-4 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Breadth Life Sciences (BLS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Spring	14 - 16	0

Requirement Select
- AV3120 - Aviation Law

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- AV3410 - Commercial Single Engine Certification - Commercial Stage 3

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- MSLE3110 - Managing Organizations and People (DSS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Elective Course (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Depth Humanities and Creative Arts (DHA) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1 - 3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- AV3700 - Fundamentals of Instruction

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Fall	14 - 15	0

Requirement Select

- AV3720 - CFI Ground School (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- AV3740 - CFI Certification

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select

- AV4660 - Aviation Senior Project (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Aviation Elective (3-4 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	Yes

Requirement Select
- Elective Course (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Spring	14 - 15	0

Requirement Select
- AV3880 - Commercial Multi-Engine Add-On

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select
- AV4490 - Human Factors in Aviation Safety

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Aviation Elective (3-4 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- AV5500 - Airline Transport Pilot (ATP) Standards (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- Elective Courses (4 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Program Learning Outcomes

Program Learning Outcomes

https://www.usu.edu/oda/assessment/

FW #1: Identify principles of aviation science.

FW #2: Demonstrate the ability to apply safety, ADM, and competency to flight operations.

FW #3: Demonstrate the ability to apply regulations, rules and procedures to flight operations.

FW #4: Earn /maintain FAA pilot certification(s).

Aviation Technology - Professional Pilot: Rotorcraft Emphasis - BS

Program Overview

College
College of Agriculture & Natural Resources

Department
Aviation Technology

Program Level
Undergraduate

About this Degree

The Aviation Technology – Professional Pilot major prepares students to become professional pilots in the rotorcraft industries. Upon graduation from this program, students will have acquired approximately 250-300 hours of flight time. During the freshman and sophomore years, students will complete courses that provide general technological background and skills. The junior and senior years are reserved for concentrated study in flight technology. Aviation Technology – Professional Pilot graduates are trained to be commercial pilots. The degree requirements include completion of the following FAA licenses: private, instrument, commercial, CFI, and CFII.

Rotorcraft Emphasis: This emphasis focuses on receiving flight training in rotorcraft. Students will train in R22 Beta II, R44 Raven II, and a flight training simulator. Possible career paths could include scenic tours, EMS, aerial firefighting, wildlife study, and more.

- For more information about Aviation Technology Professional Pilot, see the website.
- Admitted and current students must meet with an advisor.
- Log on to Degree Works to check student-specific program progress.
- The highest math requirement for this degree is MATH1060 TRIGONOMETRY

Fees

In addition to regular tuition and fees, a special class fee will be assessed to all flight certification classes. When a student enrolls in each flight certification, the fee is due with tuition payment. Course costs are based on average costs of ratings and include stage check and FAA check ride fees. Please visit the program website for a list of current flight fees.

All students are required to have their own iPad, uniform, and headset.

Medical Certificates

In accordance with the Code of Federal Regulations, Title 14, Part 61.3, all professional pilot students are required to obtain an FAA Medical Certificate. There are three classes of medical certificates which students may obtain: First Class, Second Class, and Third Class. Although only a Third Class Medical Certificate is required for student pilot operations at Utah State University, it is highly recommended that students obtain a First Class Certificate in order to ensure that no medical conditions exist which would disqualify him or her from obtaining one at a later date. Many pilot jobs require a First Class Medical Certificate. Students using VA education benefits must maintain at least a Second Class Medical Certificate.

A medical certificate may be obtained from a certified Aviation Medical Examiner (AME). Although the cost varies according to the examiner and the type of physical sought (First, Second, or Third), the cost is approximately $70 to $100. Detailed requirements for each medical class and durations are explained in CFR Title 14, part 67, and part 61.23.

Before you can be authorized to begin any flight training, you must obtain a valid FAA medical certificate (at least a **Third-Class** medical, though a **First-Class** is recommended if you're pursuing a commercial career). Once you've received your signed medical certificate, please email a copy to your advisor **before registration you can be authorized to register in a flight course.**

Admission Requirements for this Program

- New freshmen: Admitted to USU in Good Standing
- Transfer students from other institutions or other programs at USU: 2.50

Program Requirements

Total Credits Required In Program Coursework
78

Total Credits Required To Earn This Credential
120

Simple Requisites

Program Requirements

Students should work closely with their advisor when choosing electives and filling out the necessary matriculation forms. The advisor can be a useful source of information and assistance, but it is the student's responsibility to seek an advisor's aid and meet the necessary graduation requirements. Contact Lisa Hunsaker, lisa.hunsaker@usu.edu, 435-797-0851 for advising.

Graduation Requirements for Aviation Technology

For all aviation technology majors, the following academic regulations apply in addition to University regulations:

1. A minimum GPA of 2.5 must be maintained in technology/math/science/business courses required for, or used as technical electives in, the chosen major. University Studies courses are not included in this GPA calculation.

2. No more than 6 credits of D or D+ credit may be applied toward meeting graduation requirements in technology/math/science/business classes.

3. The P-D-F grading option may not be used in required or elective courses. (The P-D-F grading option is approved for University Studies courses.)

4. The academic regulations listed above (1-3) apply to required coursework and any technology/math/science/business course which could be used to satisfy graduation requirements for the chosen degree. That is, once a student completes a particular technical elective, it becomes a required course for that student.

5. Students in violation of departmental or college academic regulations, no longer eligible for graduation, or not making satisfactory progress toward a degree will have a registration hold placed on their record.

a. Students will be placed on probation (registration hold) if they:
   i. have more than 6 credits of D credit (see item 2 above), or
   ii. have a GPA of less than 2.5 (see item 1 above)
b. The hold remains until they improve their standing by repeating classes to reduce the number of D credits to 6 or less, and/or by raising their GPA above 2.5. Students must meet with their advisor to have the hold removed.

Required Courses

Type
Completion Requirement

Professional Pilot Core Courses

Complete ALL of the following Courses:

- AV1100 - The Aviation Profession - 1cr.
- AV2040 - Aviation Weather - 3cr.
- AV3010 - National Airspace, Air Traffic Control, and Airport Administration - 3cr.
- AV3120 - Aviation Law - 3cr.
- AV4490 - Human Factors in Aviation Safety - 3cr.
- AV4660 - Aviation Senior Project (CI) - 3cr.

- MATH1050 - College Algebra (QL) - 4cr.
- MATH1060 - Trigonometry - 2cr.
- MSLE3110 - Managing Organizations and People (DSS) - 3cr.

Rotorcraft Emphasis Courses

Complete ALL of the following Courses:

- AV2175 - Robinson Helicopter Systems - 2cr.
- AV2335 - Private Pilot Ground School Helicopter - 4cr.
- AV2355 - Private Pilot Helicopter Stage I Certification - 3cr.
- AV2365 - Private Pilot Helicopter Stage II Certification - 3cr.
- AV2525 - Instrument Pilot Ground School Helicopter - 4cr.
- AV2545 - Instrument Helicopter Certification - 3cr.
- AV2625 - Commercial Pilot Ground School Helicopter - 4cr.
- AV2665 - Commercial Helicopter Stage I Certification - 3cr.
- AV2675 - Commercial Helicopter Stage II Certification - 3cr.
- AV3145 - Helicopter Flight Training Device - 3cr.
- AV3725 - Certified Flight Instructor Ground School Helicopter - 4cr.
- AV3735 - Certified Flight Instructor Certification Helicopter - 2cr.
- AV3825 - Certified Flight Instructor - Instrument Ground School Helicopter - 4cr.
- AV3835 - Certified Flight Instructor Instrument Certification Helicopter - 1cr.
- AV3885 - Helicopter Turbine Transition - 2cr.
  OR AV4605 - Helicopter History and Industry Applications - 2cr.
- AV4505 - Advanced Robinson Helicopter Systems - 3cr.
  OR AV4720 - Aviation Safety and Security (CI) - 3cr.
- AV4710 - Crew Resource Management (CI) - 3cr.
- MSLE3710 - Leading Teams - 2cr.

Quantitative Literacy course

Complete ALL of the following Courses:

- MATH1050 - College Algebra (QL) - 4cr.

MATH 1050 is recommended to fulfill the QL requirement

Open Electives

Complete the following as needed:
Total elective credit is determined by General Education courses taken, degree type selected, additional credits earned, and any additional math or other prerequisite courses needed. Please consult your Academic Advisor for details.

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Bachelor's Degree)

Suggested Degree Maps

Degree Map Name
Suggested Degree Map - Aviation Technology: Professional Pilot, Rotorcraft Emphasis BS
Total Degree Map Credits
117 - 123
Degree Map Effective Catalog Year
2027 -

Degree Map Narrative

- Following is a sample four-year plan. Please note that student-specific plans may differ.
- Meet with an academic advisor to create a specific plan that best fits your academic needs.
- The student is ultimately responsible for knowing and completing all degree requirements.
- Make sure you meet the registration requirements for each class by clicking the course link and checking any prerequisites or corequisites.
- Consultation with an advisor may result in an altered plan customized for an individual student.
- Check your Degree Works for requirements and completion.

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	15	0

Requirement Select

- AV1100 - The Aviation Profession

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- AV2335 - Private Pilot Ground School Helicopter

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- AV2355 - Private Pilot Helicopter Stage I Certification

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- MATH1050 - College Algebra (QL)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- Breadth American Institutions (BAI) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	15 - 16	0

Requirement Select
- AV2365 - Private Pilot Helicopter Stage II Certification

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- ENGL1010 - Writing as Inquiry (CL1)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- MATH1060 - Trigonometry

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select
- AV2175 - Robinson Helicopter Systems

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select
- Elective Credit (2 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Breadth Life Sciences (BLS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	16	0

Requirement Select

- AV2665 - Commercial Helicopter Stage I Certification

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- ENGL2010 - Research and Argument Across Perspectives (CL2)

  OR
- ENGL2020 - Professional Communication (CL2)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- AV2525 - Instrument Pilot Ground School Helicopter

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- Breadth Humanities (BHU) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- AV3145 - Helicopter Flight Training Device

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	12 - 16	0

Requirement Select

- Quantitative Intensive (QI) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- AV2545 - Instrument Helicopter Certification

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Elective Credit (2 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Breadth Physical Sciences (BPS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	0 - 4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Breadth Creative Arts (BCA) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Fall	16 - 17	0

Requirement Select

- AV2625 - Commercial Pilot Ground School Helicopter

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- AV2675 - Commercial Helicopter Stage II Certification

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- AV3010 - National Airspace, Air Traffic Control, and Airport Administration

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- AV2040 - Aviation Weather

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Breadth Social Sciences (BSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Spring	14	0

Requirement Select

- AV3120 - Aviation Law

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- AV3725 - Certified Flight Instructor Ground School Helicopter

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- AV3735 - Certified Flight Instructor Certification Helicopter

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select

- MSLE3110 - Managing Organizations and People (DSS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Elective Credit (2 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Fall	15	0

Requirement Select

- AV3825 - Certified Flight Instructor - Instrument Ground School Helicopter

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- AV3835 - Certified Flight Instructor Instrument Certification Helicopter

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- AV4605 - Helicopter History and Industry Applications
  OR
- AV3885 - Helicopter Turbine Transition

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select

- AV4660 - Aviation Senior Project (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Depth Humanities and Creative Arts (DHA) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Elective Credit (2 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Spring	14	0

Requirement Select

- AV4490 - Human Factors in Aviation Safety

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- AV4505 - Advanced Robinson Helicopter Systems

OR

- AV4720 - Aviation Safety and Security (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- AV4710 - Crew Resource Management (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- MSLE3710 - Leading Teams

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select

- Elective Credit (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	Total Major Credits
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Program Learning Outcomes

Program Learning Outcomes

https://www.usu.edu/oda/assessment/

Air Traffic Control - Minor

Program Overview

College
College of Agriculture & Natural Resources

Department
Aviation Technology

Program Level
Undergraduate

About this Degree
This minor will introduce students to the basics of air traffic control through classroom instruction, online training, and simulated scenarios. Courses will introduce students to air traffic control, air traffic control tower operations, how the national airspace system functions, and the weather which impacts aviation.

Program Requirements

Total Credits Required In Program Coursework
13

Total Credits Required To Earn This Credential
13

Simple Requisites

Program Requirements

A minimum grade of C- is required for minor courses. To declare the minor a student must have a cumulative GPA of 2.5 or higher.

For additional information regarding this program, please contact the program advisor.

Section 1

Type
Completion Requirement

Minor Required Courses

Complete ALL of the following Courses:

- AV1710 - Air Traffic Control Fundamentals - 3cr.
- AV2710 - Basic Control Tower Operations - 3cr.
- AV3010 - National Airspace, Air Traffic Control, and Airport Administration - 3cr.
- AV2040 - Aviation Weather - 3cr.
- AV4810 - Air Traffic Control Knowledge Evaluation - 1cr.

Program Learning Outcomes

Program Learning Outcomes
https://caas.usu.edu/avte/assessment

Audiology - AuD

Program Overview

College
College of Education & Human Services

Department
Speech and Hearing Sciences

Program Level
Graduate

About this Degree
The Doctor of Audiology (AuD) at Utah State University is a four-year, post-baccalaureate professional doctoral degree offered through the Department of Speech and Hearing Sciences in the Emma Eccles Jones College of Education and Human Services. The AuD is the entry-level degree required for professional practice in audiology and prepares graduates to function as independent healthcare providers in the prevention, identification, assessment, and management of hearing and balance disorders.

The program is designed to be completed over 11 sequential semesters and follows a structured progression of didactic coursework integrated with clinical education. Students begin supervised clinical practicum experiences in the first year of study, applying foundational knowledge to patient care with increasing independence and professional responsibility across university-based and affiliated healthcare settings. The curriculum culminates in a full-time fourth-year clinical externship that provides advanced clinical training in a professional practice environment.

Students receive academic preparation and supervised clinical experience in diagnostic audiology and electrophysiology; amplification and hearing technology; cochlear implants and other implantable devices; vestibular assessment and rehabilitation; and tinnitus management. Clinical experiences span pediatric and adult populations and may include services provided in medical, educational, and community-based settings. In addition to academic coursework and practicum, all students complete a required clinical research project as part of the doctoral curriculum.

The program is accredited by the Council on Academic Accreditation in Audiology and Speech-Language Pathology (CAA) of the American Speech-Language-Hearing Association. Graduates are academically prepared to meet requirements for state licensure and national certification in audiology.

The program accepts students from a wide range of undergraduate degree backgrounds. Applicants are not required to hold a bachelor's degree in speech and hearing sciences; however, required prerequisite coursework must be completed prior to matriculation as specified on the program's Admission and Tuition webpage.

Program Requirements

Total Credits Required In Program Coursework
90

Total Credits Required To Earn This Credential
90

Simple Requisites

Program Requirements

The Doctor of Audiology (AuD) program requires completion of 90 semester credits across an 11-semester course of study. The curriculum includes required academic coursework, clinical practicum, and a full-time fourth-year externship.

Students must progress through the program in accordance with departmental academic and clinical standards. Advancement within the program is contingent upon satisfactory academic performance, completion of required clinical experiences, and adherence to professional conduct expectations.

All students are required to:

- Take and pass all required coursework and practicum experiences.

- Take and pass the program's Preliminary Examination during the second year of study.
- Take and pass the program's Comprehensive Examination during the third year of study.
- Take and pass the Praxis Examination in Audiology and provide official score notification to the department prior to graduation.
- Complete the required clinical research project.
- Complete a full-time fourth-year clinical externship.

Graduate School Requirements

• Degree Verification: A bachelor's degree from an accredited U.S. college or university or a similarly recognized international university is required for admission to and completion of a graduate program. An official transcript must be sent directly to the School of Graduate Studies
• Overall Graduate GPA at least 3.0 and no grades of C- or lower: Graduate students are required to maintain at least a 3.0 GPA for degree-program courses. Grades of C- or lower will not be accepted for a graduate degree.
• Course Number Acceptability: The program of study for a master's degree cannot include more than 12 semester credits of courses at the 5000 level. Credits in the following areas are not acceptable in a degree program: foreign languages (unless included in an approved Program of Study), continuing graduate advisement, individual home study, military science, and courses numbered below 5000.
• Matriculation Start Semester: A master's degree must be completed within six years of entering the degree program. Additional time may be requested by the student's advisor and submitted to the Vice Provost of Graduate Studies for review.
• Coursework Validity: Coursework over eight years old at the time of degree completion may not be used for a graduate degree unless it is revalidated by the Vice Provost of Graduate Studies.
• Master's forms: Approval of the Program of Study is required by the School of Graduate Studies.

Section 1

Type
Completion Requirement

Required Courses (90 credits)

All students admitted to the AuD program must complete the following courses prior to beginning their first semester in the graduate program: Anatomy and Physiology of Speech and Hearing and Basic Audiology. For those with undergraduate degrees other than Speech and Hearing Sciences, foundational coursework in neural bases of communication, normal speech and language development, and statistics is required. All foundational courses can be completed online in the summer prior to admission or prior to the first year of the AuD program. See SHS Website for additional information regarding foundational courses.

Complete ALL of the following Courses:

- SHS7000 - Implementation Science Seminar - 1cr.
- SHS7100 - Acoustics - 1cr.
- SHS7200 - Introduction to Clinical Practice - 1cr.
- SHS7240 - Anatomy and Physiology - 3cr.
- SHS7300 - Intermediate Clinical Practicum - 1cr.
- SHS7310 - Psychoacoustics - 2cr.
- SHS7320 - Amplification I - 3cr.
- SHS7340 - Pediatric Audiology - 2cr.
- SHS7380 - Advanced Audiology - 3cr.
- SHS7400 - Advanced Clinical Practicum - 1cr.
- SHS7420 - Amplification II - 3cr.
- SHS7430 - Electrophysiology - 3cr.
- SHS7450 - Counseling for Audiological Care - 3cr.
- SHS7460 - Aural Rehabilitation Across the Lifespan - 3cr.
- SHS7490 - Medical Aspects of Audiology - 3cr.
- SHS7520 - Introduction to Cochlear Implants - 2cr.
- SHS7530 - Balance Evaluation and Management - 3cr.
- SHS7800 - Clinical Externship in Audiology - 1cr.
- SHS7870 - Clinical Research Project - 1cr.
- SHS7880 - Research Methods in Audiology - 3cr.
- SHS7920 - Preliminary Exam - 1cr.
- SHS7930 - Comprehensive Exam - 1cr.
- EDUC6040 - Applied Research Methods - 3cr.
- EDUC6050 - Applied Statistical Analysis - 3cr.

NOTE:

The following courses are repeatable for credit. To earn the required number of credits, students must take these courses, during more than one semester.

- SHS7000 IMPLEMENTATION SCIENCE SEMINAR - 3 credits
- SHS7200 INTRO TO CLINICAL PRACTICE - 2 credits
- SHS7300 INTERM CLINICAL PRACT - 8 credits
- SHS7400 ADV CLINICAL PRACT - 10 credits
- SHS7800 CLINICAL EXTERNSHIP - 16 credits
- SHS7870 CLINICAL RESEARCH PROJECT - 4 credits

Program Learning Outcomes

Program Learning Outcomes
https://cehs.usu.edu/shs/assessment/university/audiology-graduate-program/learning-objectives

Audio Technology - Certificate

Program Overview

College
College of Arts & Sciences

Department
Music

Program Level
Undergraduate

About this Degree

The Audio Technology Certificate is designed to prepare students for a variety of technical careers in live sound, audio recording, production services, and post-production. This 16-credit certificate can be pursued independently or completed alongside other majors.

Program Requirements

Total Credits Required In Program Coursework
16

Total Credits Required To Earn This Credential
16

Simple Requisites

Program Requirements

Audio Technology Certificate Requirements

To receive the certificate, a student must complete the following set of requirements:

- Register for and successfully complete all 16 credits
- Maintain a minimum 3.0 GPA for program courses (grades below C will not be accepted)
- Abide by the Code of Policies and Procedures for Students at Utah State University

Audio Technology - Certificate

Type
Completion Requirement

Required Coursework

A minimum grade of C is required and students must maintain a minimum GPA of 3.0 in coursework taken to fulfill certificate requirements.

Complete ALL of the following Courses:

- MUSC1360 - Introduction to Audio Technology - 3cr.
- MUSC2360 - Live Music Production - 3cr.
- MUSC2370 - Music Recording and Post-Production - 3cr.
- MUSC2265 - Audio Technology Practicum - 1cr.
- MUSC2275 - Audio Technology Capstone - 2cr.
- MUSC2390 - Audio Technology Internship - 3cr.

NOTE:

1. MUSC2265 AUDIO TECH PRACTICUM must be taken for 2 credits

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Undergraduate Academic or Technical Certificates)

Automated Manufacturing - Technical Certificate

Program Overview

College
College of Agriculture & Natural Resources

Department
Technology, Design & Technical Ed

Program Level
Undergraduate

About this Degree

Federal Gainful Employment Information

This program supports a wide variety of mechanical and automated systems. The coursework is designed to help prepare students with the necessary skills to become technicians in several critical industries. Students are introduced to a wide variety of tools, practices, and procedures. The program uses a competency based hands-on approach, with other teaching methods that are employed throughout.

Program Requirements

Total Credits Required In Program Coursework
32

Total Credits Required To Earn This Credential
32

Simple Requisites

Program Requirements

Section 1

Type
Completion Requirement

Required Courses

Complete ALL of the following Courses:

- ELET1120 - Computer Tools for Technology - 3cr.
- ELET1130 - Circuit Analysis - 3cr.
- ELET1140 - Circuit Analysis Lab - 2cr.
- ELET1200 - Motor Controls - 4cr.
- ELET1210 - Motor Controls Lab - 2cr.
- ELET2150 - Industrial Instrumentation Systems - 3cr.
- ELET2160 - Industrial Instrumentation Systems Lab - 1cr.
- ELET2210 - Advanced PLC's - 3cr.
- ELET2220 - Advanced PLC's Lab - 1cr.

Section 2

Type
Completion Requirement

Industrial Mechanics Courses

Earn at least 6 credits from the following:

- TEAM1040 - Industrial Mechanics - 3cr.
- ELET2200 - Industrial Mechanics II - 3cr.
- ELET2988 - Special Problems - 1cr.

ELET2988 SPECIAL PROBLEMS must be taken for 3 credits

Section 3

Type
Completion Requirement

Pneumatics and Hydraulics Courses

Complete ALL of the following Courses:

- TEAM1020 - Pneumatics - 2cr.
- TEAM1030 - Hydraulics - 2cr.

Program Learning Outcomes

Program Learning Outcomes

- Demonstrate a working knowledge of mechanical systems, maintenance, troubleshooting, repair techniques, and safety practices and procedures.
- Apply system diagnostics and troubleshooting techniques.
- Apply mathematical concepts to real world applications.
- Read, utilize, and design blueprints and schematics.
- Operate, install, maintain, modify, and troubleshoot electrical systems.
- Operate, install, maintain, modify, and troubleshoot fluid power systems.
- Operate, install, maintain, modify, and troubleshoot electrical motor control systems.
- Operate, modify, maintain, program, and troubleshoot programmable logic controllers.
- Implement and properly use a variety of precision measurement tools and procedures.

Automotive Technology - Technical Certificate

Program Overview

College
College of Agriculture & Natural Resources

Department
Technology, Design & Technical Ed

Program Level
Undergraduate

About this Degree

What if students could turn their passion for cars into a high-demand career, so that they can work with cutting-edge automotive technology and keep vehicles running at peak performance?

For example, they'll gain hands-on experience diagnosing, repairing, and maintaining modern vehicles using the latest tools and techniques.

Students will be prepared for industry certifications and have doors open to opportunities in dealerships, repair shops, and even performance tuning. Automotive Technology could be the perfect fit to accelerate their future.

Admission Requirements for this Program

None

Program Requirements

Total Credits Required In Program Coursework
42

Total Credits Required To Earn This Credential
42

Simple Requisites

Program Requirements

Automotive Technology Requirements (42 credits)

Type
Completion Requirement

Required Courses

Complete ALL of the following Courses:

- TEAU1400 - Suspension and Steering - 4cr.
- TEAU1500 - Brakes - 4cr.
- TEAU1600 - Electrical I - 4cr.
- TEAU1800 - Engine Performance I - 4cr.
- TEAU1060 - Safety and Introduction to Automotive Service - 4cr.
- TEAU1100 - Engine Repair - 3cr.
- TEAU1200 - Automatic Transmissions - 4cr.
- TEAU1300 - Manual Drivetrain and Axles - 4cr.
- TEAU1700 - Heating, Ventilation, and Air Conditioning - 3cr.
- TEAU2600 - Electrical II - 4cr.
- TEAU2800 - Engine Performance II - 4cr.

Program Learning Outcomes

Program Learning Outcomes

All curricula are aligned with industry-standard ASE credentials that are expected outcomes of student participation. Students are expected to test for their industry credentials to support future employment accounting for all certificates in each are of automotive maintenance and technology.

Aviation Dispatch - Minor

Program Overview

College
College of Agriculture & Natural Resources

Department
Aviation Technology

Program Level
Undergraduate

About this Degree

An Aviation Dispatch minor equips students with the knowledge and skills needed to manage flight operations, including flight planning, weather analysis, and air traffic coordination. Graduates will earn their FAA Aircraft Dispatcher certification, allowing them to legally dispatch commercial flights and share operational control with airline captains. This credential not only opens doors to careers in airline operations but also serves as a strong foundation for leadership roles in aviation management and flight safety. To be eligible for an Aircraft Dispatcher Certificate, a person must be at least 23 years of age. Applicants can be 21 years old to take the FAA written dispatch & practical exam, and will be issued a Letter of Aeronautical Competency that can be forwarded to the FAA upon turning 23.

Program Requirements

Total Credits Required In Program Coursework
18

Total Credits Required To Earn This Credential
18

Simple Requisites

Program Requirements

Section 1

Type
Completion Requirement

Required Courses (15 credits)

Complete ALL of the following Courses:

- AV2040 - Aviation Weather - 3cr.
- AV2320 - Intro to Private Pilot Requirements - 3cr.
  OR AV2330 - Private Pilot Ground School - 4cr.
- AV2510 - IFR and Commercial Regulations and Procedures - 3cr.
  OR AV2520 - Instrument Pilot Ground School - 4cr.
- AV5700 - Aircraft Dispatcher Written Exam Preparation - 3cr.
- AV5710 - Aircraft Dispatcher Practical Exam Preparation - 3cr.

Elective Courses (3 credits)

Earn at least 3 credits from the following:

- AV2000 - Aerodynamics for Aviators - 3cr.
  OR AV1130 - Flight Principles - 3cr.
- AV3010 - National Airspace, Air Traffic Control, and Airport Administration - 3cr.
- AV3120 - Aviation Law - 3cr.
- AV4280 - Aviation Management - 3cr.
- AV4490 - Human Factors in Aviation Safety - 3cr.
- AV4710 - Crew Resource Management (CI) - 3cr.
- AV4720 - Aviation Safety and Security (CI) - 3cr.
- UAS3010 - Unmanned Aircraft System Introduction to Remote Pilot Certification - 3cr.

Program Learning Outcomes

Program Learning Outcomes

https://caas.usu.edu/avte/assessment

Aviation Education - Post-Bachelor's Certificate

Program Overview

College
College of Agriculture & Natural Resources

Department
Aviation Technology, Applied Sciences, Technology and Education

Program Level
Graduate

About this Degree
The Aviation Education Post-Bachelor's Certificate is designed for aviation professionals who want to strengthen their teaching, training, and instructional leadership skills in aviation settings. It supports pilots, aviation managers, maintainers, dispatchers, and UAS professionals who are moving into training roles—or who want a formal credential to enhance their effectiveness as educators. This 100% online certificate requires **12 credits** and builds practical skills in instructional design, teaching strategies, learner assessment, and clear communication in technical environments, with coursework that emphasizes real-world application to aviation training. Graduates are prepared for roles such as aviation instructor or ground school instructor, flight training educator or training coordinator, airline or corporate training specialist, safety and training manager support roles, standardization/training support in flight operations or dispatch, UAS instructor or training lead, aviation program instructor in collegiate/technical/workforce settings, or curriculum developer/instructional designer for aviation training programs.

Admission Requirements for this Program
Bachelor's degree from accredited institution / Grad Admissions

Program Requirements

Total Credits Required In Program Coursework
12

Total Credits Required To Earn This Credential
12

Simple Requisites

Program Requirements

Aviation Education - PBC

Type
Completion Requirement

Program Requirement (6 credits)

Complete at least 2 of the following courses:

- AV6210 - Fundamentals of Aviation Science - 3cr.
- AV6140 - Aviation Safety: History and Research - 3cr.
- AV6260 - Breaking Barriers in Aviation: Historically Underrepresented Populations in Aviation - 3cr.
- AV6160 - Human Factors in Aviation - 3cr.

Program Requirements (6 credits)

Complete at least 2 of the following courses:

- ASTE6090 - Curriculum Design - 3cr.
- ASTE6150 - Evaluation and Assessment - 3cr.
- ASTE6300 - Advanced Teaching Strategies - 3cr.
- ASTE6160 - Foundations of Adult Education - 3cr.
- ASTE6320 - Classroom Management, Student Motivation, and Guidance - 3cr.
- ASTE6380 - Mentoring and Supervision - 3cr.

Program Learning Outcomes

Program Learning Outcomes
https://qanr.usu.edu/avte/assessment

Aviation Technology - Aviation Management: Aviation Operations Emphasis - BS

Program Overview

College
College of Agriculture & Natural Resources

Department
Aviation Technology

Program Level
Undergraduate

About this Degree

The Aviation Technology - Aviation Management degree is designed for students who intend to pursue a career in airport management and unmanned aerial systems.

Aviation Operations Emphasis: This emphasis prepares students for a variety of aviation careers, including airport management, finance, Fixed Based Operator staff and working for business and corporate aviation.

Students will learn the discipline's latest technology with hands-on and research-based courses. First- and second-year students will complete courses in aviation subjects such as aviation history, weather, flight principles, airport management, and start to take emphasis courses. During junior and senior years, students focus on deeper topics in their emphasis area, and prepare for careers with courses in airline management, aviation law, national airspace and more.

- For more information about Aviation Technology-Aviation Management, see website.
- Admitted and current students must meet with an advisor.
- Log on to Degree Works to check student-specific program progress.
- Any Quantitative Literacy course can fulfill QL requirement.

Admission Requirements for this Program

- New Freshmen: Admitted to USU in Good Standing
- Transfer students from other institutions or other programs at USU: 2.50 GPA

Program Requirements

Total Credits Required In Program Coursework
60

Total Credits Required To Earn This Credential
120

Simple Requisites

Program Requirements

Students in the Aviation Technology - Aviation Management program must select either the Aviation Operations emphasis or the Unmanned Aerial Systems emphasis.

For all Aviation Management majors, the following academic regulations apply in addition to university regulations:

1. A minimum GPA of 2.50 must be maintained in major required classes. University Studies courses are not included in this GPA calculation.

2. No more than 6 credits of *D or D+* credit may be applied toward meeting graduation requirements in major required classes.

3. The *P-D-F* grading option may not be used in required courses. (The *P-D-F* grading option is approved for University Studies courses.)

4. The academic regulations listed above (1-3) apply to required coursework and any technology/math/science/business course which could be used to satisfy graduation requirements for the chosen degree. That is, once a student completes a particular technical elective, it becomes a required course for that student.

5. Students in violation of departmental or college academic regulations, no longer eligible for graduation, or not making satisfactory progress toward a degree will have a registration hold placed on their record.

a. Students will be placed on probation (registration hold) if they

i. have more than 6 credits of *D* credit (see item 2 above), or

ii. have a major GPA of less than 2.75 (see item 1 above)

b. The hold remains until they improve their standing by repeating classes to reduce the number of *D* credits to 6 or less, and/or by raising their GPA above 2.50. Students must meet with their advisor to have the hold removed.

Course Requirements

Type
Completion Requirement

Aviation Management Core Courses (34 credits)

Complete ALL of the following Courses:

- AV1100 - The Aviation Profession - 1cr.
  OR AV1125 - The Aviation Profession - 1cr.
- AV1130 - Flight Principles - 3cr.
  OR AV2000 - Aerodynamics for Aviators - 3cr.
- AV2050 - History of Aviation - 3cr.
- AV3010 - National Airspace, Air Traffic Control, and Airport Administration - 3cr.
- AV3100 - Technical Communication for the Global Aviation Industry (CI) - 3cr.
- AV3120 - Aviation Law - 3cr.
- AV4490 - Human Factors in Aviation Safety - 3cr.
- AV4660 - Aviation Senior Project (CI) - 3cr.
- AV4720 - Aviation Safety and Security (CI) - 3cr.
- MSLE3110 - Managing Organizations and People (DSS) - 3cr.
- AV5150 - Fundamentals of Airport Management - 3cr.
- AV2040 - Aviation Weather - 3cr.

Aviation Operations Courses (15-18 credits)

Complete ALL of the following Courses:

- AV2320 - Intro to Private Pilot Requirements - 3cr.
- AV2510 - IFR and Commercial Regulations and Procedures - 3cr.
  OR AV2530 - Instrument Flight Rules, Regulations and Procedures - 4cr.
  OR AV2630 - Commercial Pilot Regulations and Procedures - 2cr.
- AV4280 - Aviation Management - 3cr.
- AV4710 - Crew Resource Management (CI) - 3cr.

Students also must fulfill the Quantitative Literacy (QL) requirement.

Aviation Operations Electives (12 credits)

Students must complete 12 credits from the following courses.

Earn at least 12 credits from the following:

- AV1710 - Air Traffic Control Fundamentals - 3cr.
- AV2160 - Aircraft Systems for the Professional Pilot - 3cr.
- AV2710 - Basic Control Tower Operations - 3cr.
- AV3900 - Aviation Independent Study - 1cr.

- AV4250 - Internship - 1cr.
- AV5220 - Fixed Based Operator Management for General Aviation Airports - 3cr.
- AV5400 - Boeing 737 NG Systems and Procedures - 4cr.
- AV5420 - Boeing 737 NG Advanced Flight Maneuvers - 3cr.
- AV5910 - Aviation Special Topics - 1cr.

Open Electives

Complete the following as needed:
Total elective credit is determined by General Education courses taken, degree type selected, additional credits earned, and any additional math or other prerequisite courses needed. Please consult your Academic Advisor for details.

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Bachelor's Degree)

Suggested Degree Maps

Degree Map Name
Suggested Degree Map - Aviation Technology: Aviation Management, Aviation Operations Emphasis BS
Total Degree Map Credits
112 - 122
Degree Map Effective Catalog Year
2026 -

Degree Map Narrative

- Following is a sample four-year plan. Please note that student-specific plans may differ.
- Meet with an academic advisor to create a specific plan that best fits your academic needs.
- The student is ultimately responsible for knowing and completing all degree requirements.
- Make sure you meet the registration requirements for each class by clicking the course link and checking any prerequisites or corequisites.
- Consultation with an advisor may result in an altered plan customized for an individual student.
- Check your Degree Works for requirements and completion.

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	16 - 17	0

Requirement Select
- AV1100 - The Aviation Profession
  OR
- AV1125 - The Aviation Profession

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- AV1130 - Flight Principles
  OR
- AV2000 - Aerodynamics for Aviators

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- ENGL1010 - Writing as Inquiry (CL1)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Quantitative Literacy (QL) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Breadth American Institutions (BAI) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Breadth Creative Arts (BCA) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	15 - 16	0

Requirement Select

- AV2320 - Intro to Private Pilot Requirements

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- ENGL2010 - Research and Argument Across Perspectives (CL2)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Breadth Humanities (BHU) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Breadth Life Sciences (BLS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- General Elective Course (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	15	0

Requirement Select

- AV2050 - History of Aviation

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- AV2510 - IFR and Commercial Regulations and Procedures

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- AV2040 - Aviation Weather

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- General Elective Course (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- General Elective Course (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	15 - 16	0

Requirement Select
- AV3120 - Aviation Law

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Breadth Social Sciences (BSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Aviation Elective (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- General Elective Course (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- General Elective Course (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Fall	15	0

Requirement Select

- AV3010 - National Airspace, Air Traffic Control, and Airport Administration

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- AV4280 - Aviation Management

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Aviation Elective (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- General Elective Course (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- General Elective Course (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Spring	15	0

Requirement Select

- AV4710 - Crew Resource Management (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- AV4720 - Aviation Safety and Security (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- AV3100 - Technical Communication for the Global Aviation Industry (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Aviation Elective Course (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- General Elective Course (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Fall	14 - 19	0

Requirement Select

- AV4490 - Human Factors in Aviation Safety

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- MSLE3110 - Managing Organizations and People (DSS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Aviation Elective Course (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- General Elective Course (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Quantitative Intensive (QI) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2 - 7
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Spring	7 - 9	0

Requirement Select

- AV4660 - Aviation Senior Project (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- AV5150 - Fundamentals of Airport Management

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Depth Humanities and Creative Arts (DHA) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1 - 3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- General Elective course (1-3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Program Learning Outcomes

Program Learning Outcomes

https://www.usu.edu/oda/assessment/

Aviation Management - Post-Bachelor's Certificate

Program Overview

College
College of Agriculture & Natural Resources

Department
Aviation Technology

Program Level
Graduate

About this Degree

The Aviation Management Post-Bachelor's Certificate is designed for aviation professionals who want to strengthen their leadership and management skills for operational, administrative, and business-focused roles across the aviation industry. This 100% online certificate requires **12 credits** and emphasizes practical, real-world application in areas such as organizational leadership, decision-making, aviation operations, and problem-solving in complex environments. It is a strong fit for working professionals in flight operations, dispatch, airport/airline operations, FBOs, maintenance organizations, and UAS programs who want a focused credential without committing to a full graduate degree. Graduates commonly pursue roles such as aviation operations manager or supervisor, airline or corporate operations specialist, dispatch/operations leadership support, flight department coordinator, aviation program coordinator, or other management-track positions in aviation organizations.

Program Requirements

Total Credits Required In Program Coursework
12

Total Credits Required To Earn This Credential
12

Simple Requisites

Program Requirements

REQUIRED COURSES

Type
Completion Requirement

Select three courses

Complete at least 3 of the following courses:

- AV6110 - Air Transportation - 3cr.
- AV6120 - Aviation Operations and Management - 3cr.
- AV6140 - Aviation Safety: History and Research - 3cr.
- ASTE6150 - Evaluation and Assessment - 3cr.

Select one course

Complete at least 1 of the following courses:

- AV6220 - Fixed Based Operator Management for General Aviation Airports - 3cr.
- AV6320 - Airport and Ground Safety Programs - 3cr.
- AV6340 - Aircraft Accident Investigation and Analysis - 3cr.
- AV6350 - Aviation Security - 3cr.

Program Learning Outcomes

Program Learning Outcomes

https://agnr.usu.edu/avte/assessment

Aviation Technology - Aviation Management - Unmanned Aircraft Systems Emphasis - BS

Program Overview

College
College of Agriculture & Natural Resources

Department
Aviation Technology

Program Level
Undergraduate

About this Degree

The Aviation Technology - Aviation Management degree is designed for students who intend to pursue a career in airport management and unmanned aircraft systems.

Students will learn the discipline's latest technology with hands-on and research-based courses. First- and second-year students will complete courses in aviation subjects such as aviation history, weather, flight principles, airport management, and start to take emphasis courses. During junior and senior years, students focus on deeper topics in their emphasis area, and prepare for careers with courses in airline management, aviation law, national airspace and more.

Unmanned Aircraft Systems Emphasis: This emphasis introduces the rules, regulations and certification to become a Commercial Remote Pilot, with practical design, build and flight labs. Students will learn to fly course drones and gain experience in aerial photography, mapping and data collection/analysis.

- For more information about Aviation Technology-Aviation Management, see website.
- Admitted and current students must meet with an advisor.
- Log on to Degree Works to check student-specific program progress.
- The highest math requirement for this degree is MATH1060 TRIGONOMETRY

Admission Requirements for this Program

- New freshmen: Admitted to USU in Good Standing
- Transfer students from other institutions or other programs at USU: 2.50 GPA

Program Requirements

Total Credits Required In Program Coursework
74

Total Credits Required To Earn This Credential
120

Simple Requisites

Program Requirements

Students in the Aviation Technology - Aviation Management program must select either the Aviation Operations emphasis or the Unmanned Aerial Systems emphasis.

For all Aviation Management majors, the following academic regulations apply in addition to University regulations:

1. A minimum GPA of 2.50 must be maintained in major required classes. University Studies courses are not included in this GPA calculation.

2. No more than 6 credits of *D or D+* credit may be applied toward meeting graduation requirements in major required classes.

3. The *P-D-F* grading option may not be used in required courses. (The *P-D-F* grading option is approved for University Studies courses.)

4. The academic regulations listed above (1-3) apply to required coursework and any technology/math/science/business course which could be used to satisfy graduation requirements for the chosen degree. That is, once a student completes a particular technical elective, it becomes a required course for that student.

5. Students in violation of departmental or college academic regulations, no longer eligible for graduation, or not making satisfactory progress toward a degree will have a registration hold placed on their record.

a. Students will be placed on probation (registration hold) if they

i. have more than 6 credits of *D* credit (see item 2 above), or

ii. have a major GPA of less than 2.50 (see item 1 above)

b. The hold remains until they improve their standing by repeating classes to reduce the number of *D* credits to 6 or less, and/or by raising their GPA above 2.50. Students must meet with their advisor to have the hold removed.

Required Courses

Type
Completion Requirement

Aviation Management Core Courses (34 credits)

Complete ALL of the following Courses:

- AV1100 - The Aviation Profession - 1cr.
- AV1130 - Flight Principles - 3cr.
  OR AV2000 - Aerodynamics for Aviators - 3cr.
- AV2050 - History of Aviation - 3cr.
- AV3010 - National Airspace, Air Traffic Control, and Airport Administration - 3cr.
- AV3100 - Technical Communication for the Global Aviation Industry (CI) - 3cr.
- AV3120 - Aviation Law - 3cr.
- AV4490 - Human Factors in Aviation Safety - 3cr.
- AV4660 - Aviation Senior Project (CI) - 3cr.
- AV4720 - Aviation Safety and Security (CI) - 3cr.
- AV5150 - Fundamentals of Airport Management - 3cr.
- MSLE3110 - Managing Organizations and People (DSS) - 3cr.
- AV2040 - Aviation Weather - 3cr.

Unmanned Aerial Systems (UAS) Emphasis Courses (27 credits)

Complete ALL of the following Courses:

- UAS1200 - Unmanned Aircraft Systems Introduction to Fixed-Wings - 3cr.
- UAS1300 - Unmanned Aircraft Systems Introduction to Multirotor - 3cr.
- UAS1500 - Introduction to Unmanned Aircraft Systems Maintenance and Components - 3cr.
- UAS2050 - Unmanned Aircraft Systems Pilot in Command - 3cr.
- UAS2100 - Unmanned Aircraft Systems Flight Lab - Patterns and Maneuvers - 3cr.
- UAS2700 - Unmanned Aircraft Systems Photo and Video Basics - 3cr.
  OR UAS3700 - Unmanned Aircraft Systems Video Production - 3cr.
- TEE2300 - Electronic Fundamentals (QI) - 3cr.
  OR TESY3300 - Electronic Systems and Programming (QI) - 3cr.
- MATH1050 - College Algebra (QL) - 4cr.
- MATH1060 - Trigonometry - 2cr.

FAA Certification Courses

Complete ALL of the following Courses:

- UAS1020 - Unmanned Aircraft Systems Part 107 Test - 1cr.

FAA Certification Courses

Complete ANY of the following Courses:

- UAS1010 - Unmanned Aircraft Systems - Remote Pilot - 3cr.
- UAS3010 - Unmanned Aircraft System Introduction to Remote Pilot Certification - 3cr.
- UAS3020 - Part 61 Introduction to Unmanned Aircraft Systems and Flight Lab - 3cr.

Only students who have been issued an FAA Part 61 Pilot Certificate are eligible to register for UAS 3020.

UAS Electives (9 credits)

Students must choose three of the following courses, or a course approved by the program advisor. A minimum of 9 credits is required.

Complete at least 3 of the following courses:

- AV3900 - Aviation Independent Study - 1cr.
- AV4250 - Internship - 1cr.
- UAS1350 - UAS Intro to FPV (First Person View) Essentials - 3cr.
- UAS2300 - Unmanned Aircraft Systems Multirotor Autonomy - 3cr.
- UAS2650 - Drones for Hire - 3cr.
- UAS3200 - Fixed-wing Design and Construction Essentials - 3cr.
- UAS3360 - UAS First Person View (FPV) Fundamentals - 3cr.
- UAS3650 - Drones for Projects - 3cr.
- UAS3700 - Unmanned Aircraft Systems Video Production - 3cr.
- MAE5330 - Small Unmanned Aircraft Systems - 3cr.

Open Electives

Complete the following as needed:
Total elective credit is determined by General Education courses taken, degree type selected, additional credits earned, and any additional math or other prerequisite courses needed. Please consult your Academic Advisor for details.

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Bachelor's Degree)

Suggested Degree Maps

Degree Map Name
Suggested Degree Map - Aviation Technology: Aviation Management, Unmanned Aerial Systems Emphasis BS
Total Degree Map Credits
117 - 123
Degree Map Effective Catalog Year
2026 -

Degree Map Narrative

- Following is a sample four-year plan. *Please note that student-specific plans may differ*.

- Meet with an academic advisor to create a specific plan that best fits your academic needs.
- The student is ultimately responsible for knowing and completing all degree requirements.
- Make sure you meet the registration requirements for each class by clicking the course link and checking any prerequisites or corequisites.
- Consultation with an advisor may result in an altered plan customized for an individual student.
- Check your Degree Works for requirements and completion.

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	14	0

Requirement Select
- AV1100 - The Aviation Profession

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- UAS1010 - Unmanned Aircraft Systems - Remote Pilot

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- UAS1020 - Unmanned Aircraft Systems Part 107 Test

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- MATH1050 - College Algebra (QL)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- ENGL1010 - Writing as Inquiry (CL1)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Elective course (2 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	15 - 16	0

Requirement Select
- ENGL2010 - Research and Argument Across Perspectives (CL2)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- MATH1060 - Trigonometry

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select
- Breadth Life Sciences (BLS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Breadth Humanities (BHU) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- AV1130 - Flight Principles

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Elective course (1 credit) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	12 - 16	0

Requirement Select
- AV2050 - History of Aviation

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- UAS1500 - Introduction to Unmanned Aircraft Systems Maintenance and Components

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- UAS2050 - Unmanned Aircraft Systems Pilot in Command

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- AV2040 - Aviation Weather

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Breadth Physical Sciences (BPS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	It is strongly recommended that students in this program take a physics class as their BPS.
Minimum Grade	-
Area	-
Actual Credits	0 - 4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	15 - 16	0

Requirement Select
- TEE2300 - Electronic Fundamentals (QI)

OR
- TESY3300 - Electronic Systems and Programming (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Breadth Social Sciences (BSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- UAS2650 - Drones for Hire

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Breadth American Institutions (BAI) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Breadth Creative Arts (BCA) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Fall	15	0

Requirement Select
- AV3010 - National Airspace, Air Traffic Control, and Airport Administration

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- AV3100 - Technical Communication for the Global Aviation Industry (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- AV4490 - Human Factors in Aviation Safety

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- UAS1200 - Unmanned Aircraft Systems Introduction to Fixed-Wings

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- UAS2100 - Unmanned Aircraft Systems Flight Lab - Patterns and Maneuvers

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Spring	15	0

Requirement Select

- AV3120 - Aviation Law

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- AV4720 - Aviation Safety and Security (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- MSLE3110 - Managing Organizations and People (DSS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- UAS1300 - Unmanned Aircraft Systems Introduction to Multirotor

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- General Elective Course (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Fall	16	0

Requirement Select
- UAS2700 - Unmanned Aircraft Systems Photo and Video Basics
  OR
- UAS3700 - Unmanned Aircraft Systems Video Production

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Depth Humanities and Creative Arts (DHA) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- UAS3650 - Drones for Projects

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- General Elective Course (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- General Elective Course (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- UAS Elective course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Spring	15	0

Requirement Select
- AV4660 - Aviation Senior Project (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- AV5150 - Fundamentals of Airport Management

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- UAS Elective Course (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- UAS Elective Course (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- General Elective Course (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Program Learning Outcomes

Program Learning Outcomes

https://www.usu.edu/oda/assessment/

Master of Aviation Science - MAS

Program Overview

College
College of Agriculture & Natural Resources

Department
Aviation Technology

Program Level
Graduate

About this Degree

The Master of Aviation Science (MAS) is a 100% online professional graduate degree designed for working aviation professionals who want to advance their knowledge, credentials, and career options while maintaining flexibility. The program supports a wide range of aviation backgrounds and career paths, including flight operations, safety, airport and airline management, maintenance, and aviation education/training.

Students develop graduate-level skills in leadership, aviation decision-making, safety and risk management, and applied research—skills that translate directly to real-world aviation roles and help graduates pursue new opportunities or advance within their current organizations. Because all coursework is offered online, students can complete the degree from anywhere.

The MAS requires **33 credits**, including a **non-thesis capstone graduate project (Plan C)** that allows students to apply what they've learned to a practical problem or professional goal in aviation. Most students take **two to three courses per semester (6–9 credits)** and complete the program at a pace that fits their schedule.

A specialization is **not required** to earn this degree.

Program Contact:
Amy Monson, Graduate Program Director
Department of Aviation Technology, Utah State University
amy.monson@usu.edu

Admission Requirements for this Program

Admission Requirements for this Program
All students must be admitted through USU's School of Graduate Studies and follow standard graduate admission procedures and policies. The MAS does **not** require an entrance exam (GRE or MAT not required).

To apply visit the School of Graduate Studies (SGS) application website.

Program Requirements

Total Credits Required In Program Coursework
33

Total Credits Required To Earn This Credential
33

Simple Requisites

Program Requirements

Program Requirements

Degree Verification:
Admission to and completion of the Master of Aviation Science (MAS) requires a bachelor's degree from an accredited U.S. college or university or a similarly recognized international university. Official transcripts must be sent directly to the School of Graduate Studies.

Overall Graduate GPA of at least 3.0 and no grades of C- or lower:
Graduate students must maintain a minimum 3.0 GPA in degree-program coursework. Grades of C- or lower will not be accepted for a graduate degree.

Course Number Acceptability:
A master's Program of Study may not include more than 12 semester credits of courses below the 6000 level. Credits in the following areas are not acceptable in a degree program: foreign languages (unless included in an approved Program of Study), continuing graduate advisement, individual home study, military science, and courses numbered below 5000.

Matriculation Start Semester:
The master's degree must be completed within six years of entering the degree program. Requests for additional time may be submitted by the students' advisor to the Vice Provost of Graduate Studies for review.

Coursework Validity:
Coursework more than eight years old at the time of degree completion may not be used toward a graduate degree unless revalidated.

Master's Forms / Program of Study:
Students must submit and receive approval of a Program of Study through the School of Graduate Studies.

MAS Degree Requirements (Plan C):
Students in the Master of Aviation Science program complete 33 credits, including a non-thesis capstone graduate project (Plan C). Students are encouraged to meet with their advisor early in the program to plan their Program of Study and capstone timeline to ensure all degree requirements are met and paperwork is submitted to the School of Graduate Studies.

MAS Required Courses (12 credits)

Type
Completion Requirement

Required Core Courses

Complete at least 12 credits from this list of course options

Complete ANY of the following Courses:

- AV6110 - Air Transportation - 3cr.
- AV6120 - Aviation Operations and Management - 3cr.
- AV6140 - Aviation Safety: History and Research - 3cr.
- AV6150 - Airport Management - 3cr.
- AV6160 - Human Factors in Aviation - 3cr.

Required Capstone Courses

Complete ALL of the following Courses:

- AV6760 - Reading and Applying Research - 3cr.
- AV6960 - Aviation Capstone Project - 3cr.

Students should complete AV 6760 their second semester.

Elective Courses

Complete at least 2 of the following courses:

- AV5210 - Fundamentals of Aviation Science - 3cr.
- AV6230 - Aerospace Technology and Automation - 3cr.
- AV6900 - Aviation Independent Study - 3cr.
- AV6910 - Aviation Special Topics - 1cr.
- AV6940 - Aviation Internship - 3cr.
- AV6950 - Aviation Creative Project - 3cr.

MAS Specialization Courses

Type
Completion Requirement

Safety Management Specialization

Complete at least 3 of the following courses:

- AV6310 - Aviation Safety Management Systems - 3cr.
- AV6320 - Airport and Ground Safety Programs - 3cr.
- AV6330 - Flight Safety Program Management - 3cr.
- AV6340 - Aircraft Accident Investigation and Analysis - 3cr.

- AV6350 - Aviation Security - 3cr.

Airport Management Specialization

Complete at least 3 of the following courses:

- AV6220 - Fixed Based Operator Management for General Aviation Airports - 3cr.
- AV6240 - Certified Member: Airport Manager Certification Preparation - 3cr.
- AV6320 - Airport and Ground Safety Programs - 3cr.
- AV6340 - Aircraft Accident Investigation and Analysis - 3cr.
- AV6350 - Aviation Security - 3cr.

Aviation Management Specialization

Complete at least 3 of the following courses:

- AV6220 - Fixed Based Operator Management for General Aviation Airports - 3cr.
- AV6310 - Aviation Safety Management Systems - 3cr.
- AV6320 - Airport and Ground Safety Programs - 3cr.
- AV6340 - Aircraft Accident Investigation and Analysis - 3cr.
- AV6350 - Aviation Security - 3cr.

Aviation Education Specialization

Complete at least 3 of the following courses:

- ASTE6090 - Curriculum Design - 3cr.
- ASTE6150 - Evaluation and Assessment - 3cr.
- ASTE6300 - Advanced Teaching Strategies - 3cr.
- ASTE6160 - Foundations of Adult Education - 3cr.
- ASTE6320 - Classroom Management, Student Motivation, and Guidance - 3cr.
- ASTE6380 - Mentoring and Supervision - 3cr.

Program Learning Outcomes

Program Learning Outcomes

AVTE Assessment | USU

Aviation Safety Management - Post-Bachelor's Certificate

Program Overview

College
College of Agriculture & Natural Resources

Department
Aviation Technology

Program Level
Graduate

About this Degree

The Aviation Safety Post-Bachelor's Certificate is designed for aviation professionals who want to deepen their safety knowledge and strengthen their ability to identify hazards, manage risk, and support a proactive safety culture. This 100% online certificate requires **12 credits** and emphasizes practical safety application in aviation operations, including safety management principles, incident analysis, and risk-based decision-making. It is ideal for professionals in flight operations, maintenance, airport operations, dispatch, and UAS who want a focused credential to support advancement into safety responsibilities. Graduates commonly pursue roles such as safety specialist or safety coordinator, SMS support staff, risk management or compliance support, safety and training support roles, incident/quality assurance support, or operational leadership positions with a safety focus across airlines, corporate flight departments, maintenance organizations, airports, and other aviation employers.

Program Requirements

Total Credits Required In Program Coursework
12

Total Credits Required To Earn This Credential
12

Simple Requisites

Program Requirements

Aviation Safety Management Course Requirements

Type
Completion Requirement

Required Courses

Complete ALL of the following Courses:

- AV6310 - Aviation Safety Management Systems - 3cr.
- AV6330 - Flight Safety Program Management - 3cr.

Select two courses from the following:

Complete at least 2 of the following courses:

- AV6140 - Aviation Safety: History and Research - 3cr.
- AV6320 - Airport and Ground Safety Programs - 3cr.
- AV6340 - Aircraft Accident Investigation and Analysis - 3cr.
- AV6350 - Aviation Security - 3cr.

Program Learning Outcomes

Program Learning Outcomes

https://agnr.usu.edu/avte/assessment

Basic Music - Minor

Program Overview

College
College of Arts & Sciences

Department
Music

Program Level
Undergraduate

Admission Requirements for this Program

Students wishing to add the Basic Music minor should make an appointment with Nathan Scott. At least one-half of the credits taken for the Basic Music minor must be taken at Utah State University.

Program Requirements

Total Credits Required To Earn This Credential

21

Simple Requisites

Program Requirements

- A grade of C- or better is required in all courses taken for the minor.
- A GPA of at least 2.5 is required in minor coursework.
- No more than 10 credits may be taken on a pass/fail basis. Individual instruction courses may not be taken on a pass/fail basis.

Section 1

Type
Completion Requirement

Basic Music Minor (21 credits)

Fulfill ALL of the following requirements:

Required Courses (15 credits)

Complete ALL of the following Courses:

- MUSC1010 - Introduction to Music (BCA) - 3cr.
- MUSC1100 - Fundamentals of Music for Non-Music Majors (BCA) - 3cr.
- MUSC1480 - Individual Piano Instruction for Nonmusic Majors - 1cr.

• Large or Small Ensemble (4 credits)
• Individual Instruction (nonmajor) (4 credits)

NOTE:

1. MUSC1480 PIANO INSTR-NONMAJOR - Take 1 credit.

AND

Additional Required Courses (6 credits)

Complete at least 2 of the following courses:

- MUSC3010 - Masterpieces of Music (DHA) - 3cr.
- MUSC3020 - History of Jazz (DHA) - 3cr.
- MUSC3030 - Rock and Roll-Catalyst for Social Change (DSS) - 3cr.

Program Learning Outcomes

Program Learning Outcomes

https://www.usu.edu/oda/assessment/

Beef Cattle Management - Certificate

Program Overview

College
College of Agriculture & Natural Resources

Department
Animal, Dairy & Veterinary Sciences

Program Level
Undergraduate

About this Degree

The Beef Cattle Management Certificate is designed to provide students with specialized knowledge and hands-on experience in beef cattle production and management. This 24- to 25-credit program offers a comprehensive curriculum that covers critical areas such as beef production practices, animal nutrition, live animal and carcass evaluation, and business management. Electives allow students to deepen their knowledge in topics related to beef management (forage production, range nutrition, wildlife management, meat science, etc.), tailoring their education to their specific interests and career goals. This program emphasizes practical, real-world applications, preparing students for careers in the beef cattle industry by equipping them with essential skills to manage and optimize herd health, productivity, and business operations.

Program Requirements

Total Credits Required In Program Coursework
24

Total Credits Required To Earn This Credential
24

Simple Requisites

Program Requirements

1. Attain a grade point average of at least 2.50 across all courses applied toward this certificate.
2. Courses required for the certificate may *not* be taken for a *pass/fail* grade except for courses that are only offered as pass/fail.
3. A minimum grade of C is required in all courses applied toward this certificate.

Required Courses

Type
Completion Requirement

Complete all required courses

Complete ALL of the following Courses:

- ADVS1110 - Introduction to Animal Science (BLS) - 3cr.
- ADVS2080 - Beef Production Practices - 3cr.
- ADVS2500 - Feeds and Feeding - 3cr.
- ADVS3650 - Live Animal and Carcass Evaluation - 3cr.
- ADVS5080 - Beef Cattle Management - 3cr.
- APEC2120 - Small Firm Accounting Basics - 3cr.
- APEC2310 - Small Firm Management - 3cr.

Choose one of the following courses:

Complete at least 1 of the following courses:

- NDFS5020 - Meat Science and Technology - 4cr.
  OR PSC4320 - Forage Production and Pasture Management - 3cr.
  OR WILD4500 - Principles of Wildlife Management - 3cr.
  OR WILD5340 - Range Ruminant Nutrition and Management - 3cr.

Additional Comments:
NOTE:

1. Some of these courses have prerequisites, which may in turn have further prerequisites, etc. We encourage you to plan accordingly and/or speak with an advisor.

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Undergraduate Academic or Technical Certificates)

Program Learning Outcomes

Program Learning Outcomes

https://qanr.usu.edu/advs/assessment/

Basic Corrections Officer - Technical Certificate

Program Overview

College
College of Agriculture & Natural Resources

Department
Technology, Design & Technical Ed

Program Level
Undergraduate

About this Degree
Federal Gainful Employment Information

The Basic Corrections Officer program builds upon skills and knowledge gained in the Special Function Officer program and provides basic training required for employment in the field of corrections. Areas of study include constitutional and correctional law, offender supervision strategies, critical incident responses, and other correctional-related topics.

Admission Requirements for this Program

- Successfully completed the SFO certification test in the past 4 years OR employment with an agency and engaging in SFO duties.
- Be at least 19 years of age at the time of certification as a correctional officer

Program Requirements

Total Credits Required In Program Coursework
5

Total Credits Required To Earn This Credential
5

Simple Requisites

Program Requirements

Section 1

Type
Completion Requirement

Required Courses

Complete ALL of the following Courses:

- TELE1020 - Basic Corrections Officer - 5cr.

Minimum University Requirements

Minimum University Requirements
Minimum University Requirements (Undergraduate Academic or Technical Certificates)

Program Learning Outcomes

Program Learning Outcomes

- Identify and demonstrate key ethical standards in corrections culture.
- Apply concepts of constitutional and correctional law to practical situations.
- Interact professionally with incarcerated offenders.
- Apply basic skills to avoid offender manipulation.
- Demonstrate competency in less-lethal options such as pepper spray.
- Demonstrate competency in critical incident and forced cell response actions.

Behavioral Health - Minor

Program Overview

College
College of Education & Human Services

Department
Psychology

Program Level
Undergraduate

About this Degree
This minor allows students to have a focus in behavioral health, which may be advantageous for them as they apply for professional and graduate schools in areas outside of Psychology but with a social/behavioral component.

Program Requirements

Total Credits Required To Earn This Credential
19

Simple Requisites

Program Requirements

Students are required to have a 3.0 (B) average GPA on all minor coursework with a minimum grade of C on each individual course. At least 9 of the 19 credits required for this minor must be completed through USU. This minor is not available to Students already majoring or minoring in psychology.

Section 1

Type
Completion Requirement

Required Courses (19 credits)

Complete ALL of the following Courses:

- PSY1010 - General Psychology (BSS) - 3cr.
- PSY1100 - Lifespan Development - 3cr.
- PSY1400 - Analysis of Behavior: Basic Principles - 3cr.
- PSY1410 - Analysis of Behavior: Basic Principles Lab - 1cr.
- PSY3110 - Health Psychology - 3cr.
- PSY3500 - Research Methods in Psychology (DSS/CI) - 3cr.
- PSY3510 - Social Psychology (DSS) - 3cr.

Program Learning Outcomes

Program Learning Outcomes
https://www.usu.edu/oda/assessment/

Biological Engineering - BS

Program Overview

College
College of Engineering

Department
Biological Engineering

Program Level
Undergraduate

About this Degree

The BS Degree is a 120-credit program designed to teach students principles and skills in various biological engineering areas, such as bioprocessing, biomedical, bioenvironmental, bioenergy, and biomanufacturing. Students will also gain hands-on experience from the in-class lab sessions and Senior Design project.

- For more information about Biological Engineering, visit the Biological Engineering department.
- Admitted and current students must meet with an advisor.
- Log on to Degree Works to check student-specific program progress.
- The Biological Engineering - BS degree program is accredited by the Engineering Accreditation Commission of ABET, under the commission's General Criteria and the Program Criteria for Biological Engineering and Similarly Named Programs.
- The highest math requirement for this degree is MATH2250 LINEAR ALG/DIFF EQUATIONS (QI) and STAT3000 STATISTICS FOR SCIENTISTS (QI)

Admission Requirements for this Program

New Freshmen and Transfer Students (from other institutions or other USU programs)

- Admitted to USU in Good Standing

New Freshmen:

- 2.8 High School GPA or higher
- 20 ACT or 1030 SAT or higher

Admission to Pre-Professional Program

- Completion of Foundational Courses (listed below)
- MATH1210 CALCULUS I (QL), MATH1220 CALCULUS II (QL), CHEM1210 PRIN OF CHEMISTRY I, CHEM1215 CHEMICAL PRINCIPLES LAB I, PHYS2210 PHYS SCI AND ENGR I (QI)(BPS), PHYS2215 PHYS SCI AND ENGR LAB 1, ENGR1010 ENGR EXPLORATION, ENGR1400 ENGR COMPUTER PROGRAMMING completed with a C- or higher
- 2.8 or higher GPA in Foundational Courses

Program Requirements

Total Credits Required In Program Coursework
105

Total Credits Required To Earn This Credential
120

Simple Requisites

Program Requirements

Biological Engineering Foundational Program Requirements

Type
Completion Requirement

Required for Completion of the Engineering Foundations Program (25 credits)

To be admitted to the pre-professional program, students must:

- Have an engineering foundations GPA of 2.80 or higher in the foundations engineering courses, NOT including ENGL2010 RSRCH&ARGUMENT PRSPCTVES (CL2) or ENGL2020 PROFESSNL COMMUNICATION (CL2)

- Pass all of the courses in the foundations engineering program with a C- or better

Complete ALL of the following Courses:

- ENGR1010 - Engineering Exploration - 3cr.
- ENGR1400 - Computer Programming for Engineers - 4cr.
- MATH1210 - Calculus I (QL) - 4cr.
- MATH1220 - Calculus II (QL) - 4cr.
- CHEM1210 - Principles of Chemistry I - 4cr.
- CHEM1215 - Chemical Principles Laboratory I - 1cr.
- PHYS2210 - Physics for Scientists and Engineers I (QI/BPS) - 4cr.
- PHYS2215 - Physics for Scientists and Engineers Lab I - 1cr.

Biological Engineering Pre-Professional Program Requirements (28 credits)

Type
Completion Requirement

Biological Engineering Pre-Professional Program Requirement Courses

To be admitted to the professional program, students must:

- Have a pre-professional GPA of 2.30 or higher in the pre-professional courses and engineering foundations courses, NOT including ENGL2010 RSRCH&ARGUMENT PRSPCTVES (CL2) or ENGL2020 PROFESSNL COMMUNICATION (CL2)

- Pass all of the courses in the pre-professional engineering program with a C- or better

Complete ALL of the following Courses:

- MATH2250 - Linear Algebra and Differential Equations (QI) - 4cr.
- BIOL1610 - Biology I - 3cr.
- BIOL1615 - Biology I Laboratory - 1cr.
- CHEM2300 - Principles of Organic Chemistry - 3cr.
- CHEM2315 - Organic Chemistry Laboratory I - 1cr.
- CHEM3700 - Introductory Biochemistry - 3cr.
- CHEM3710 - Introductory Biochemistry Laboratory - 1cr.
- ENGL2010 - Research and Argument Across Perspectives (CL2) - 3cr.
  OR ENGL2020 - Professional Communication (CL2) - 3cr.
- BENG1200 - SolidWorks for Biological Engineers - 2cr.
- BENG1880 - Engineering Quantification of Biological Processes - 3cr.
- BENG2400 - Biological and Environmental Thermodynamics - 3cr.
- ENGR2010 - Engineering Mechanics Statics - 3cr.

Biological Engineering Professional Program Requirements (55 credits)

Type
Completion Requirement

Biological Engineering Professional Program Courses

To maintain eligibility in the professional program, students must:

- Maintain a GPA of 2.0 or higher in the professional courses. This GPA includes any engineering, math, and science courses required for or used to fulfill required electives in this major. Courses which were part of the pre-professional program requirements and university studies courses are not included in this GPA calculation.

- Pass all of the required courses in the professional engineering program with a C- or better**.** This includes any engineering, math, and science courses that are applied toward meeting graduation requirements.

- Have no more than three repeats total from required or elective courses completed as part of a professional program in order to meet graduation requirements. Courses completed as part of the pre-professional program are not included in this total of three repeats.

- Use the standard letter grading for all professional level courses. The P/D+, D, F grading option may not be used in required or elective courses completed as part of a professional program (the P/D+, D, F grading option is approved for University Studies Courses).

Complete ALL of the following Courses:

- ENGR2140 - Mechanics of Materials - 3cr.
  OR ENGR2210 - Fundamental Electronics for Engineers - 3cr.
- ENGR2450 - Numerical Methods for Engineers - 3cr.
- ENGR3080 - Creativity and Communication in Design (CI) - 3cr.
- STAT3000 - Statistics for Scientists (QI) - 3cr.
- BIOL3300 - General Microbiology - 3cr.
- BENG2330 - Engineering Properties of Biological Materials - 3cr.
- BENG3000 - Instrumentation for Biological Systems - 3cr.
- BENG3200 - Introduction to Unit Operations in Biological Engineering - 3cr.
- BENG3500 - Fluid Mechanics in Biological Engineering - 3cr.
- BENG3670 - Transport Phenomena in Bio-Environmental Systems - 3cr.
- BENG3870 - Biological Engineering Design I - 1cr.
- BENG4880 - Biological Engineering Design II (CI) - 3cr.
- BENG4890 - Biological Engineering Design III (CI) - 3cr.
- BENG5020 - Biological Modeling and Controls - 3cr.

Biological Engineering Electives (select 6 credits)

Students must take two classes (6 credits) of Biological Engineering Electives. Students may choose from the following elective courses.

Complete at least 2 of the following courses:

- BENG5500 - Systems Biology Modeling - 3cr.
- BENG5600 - Downstream Processes in Biological Engineering - 3cr.
- BENG5610 - Food and Bioprocess Engineering - 3cr.
- BENG5620 - Metabolic Engineering I - 3cr.
- BENG5630 - Synthetic Biological Engineering - 3cr.
- BENG5700 - Introduction to Microfabrication - 3cr.
- BENG5810 - Biochemical Engineering - 3cr.
- BENG5850 - Biomaterials Engineering - 3cr.
- BENG5870 - Molecular and Cellular Bioengineering - 3cr.
- BENG5880 - BioMEMS: Microtechnology for BioMedical Research - 3cr.
- BENG5890 - Tissue Engineering - 3cr.
- BENG5910 - Introduction to Biosensors - 3cr.

Engineering Electives (select 3 credits)

There are **two** options to fulfill this requirement:

1. Students can take an additional (3 credit) biological engineering elective listed in Biological Engineering Electives (not already used).

2. Students can take at least three credits from the list below.

Complete ANY of the following Courses:

- ENGR2030 - Engineering Mechanics Dynamics - 3cr.
- MAE2160 - Material Science - 3cr.
- MAE3040 - Mechanics of Solids - 3cr.

Technical Electives (select 5 credits)

Students must take 5 credits of approved technical electives listed below. Other classes may be considered to count as technical electives that are not on the list. Students will need to go through their academic advisor to seek approval of the non-listed technical elective through the department.

Earn at least 5 credits from the following:

- AV4200 - Composite Manufacturing Processes and Repair - 3cr.
- BENG2290 - Biological Engineering Profession Exploration - 1cr.
- BENG4250 - Cooperative Practice - 3cr.
- BENG5660 - Environmental Quality Analysis - 3cr.
- BENG5680 - Soil-based Waste Management - 2cr.
- BENG5830 - Management and Utilization of Biological Solids and Wastewater - 3cr.
- BENG5840 - Introduction to Biophotonics - 3cr.
- BENG5930 - Special Studies - 1cr.
- BIOL1620 - Biology II (BLS) - 3cr.
- BIOL1625 - Biology II Laboratory - 1cr.
- BIOL2320 - Human Anatomy - 4cr.
- BIOL2420 - Human Physiology - 4cr.
- BIOL3060 - Principles of Genetics (QI) - 3cr.
- BIOL3100 - Bioethics (CI) - 3cr.
- BIOL4450 - Neurobiology - 3cr.
- BIOL5160 - Methods in Biotechnology: Cell Culture - 3cr. (Inactive)
- BIOL5210 - Cell Biology - 3cr.
- BIOL5230 - Developmental Biology - 3cr.
- BIOL5260 - Methods in Biotechnology: Molecular Cloning - 3cr. (Inactive)
- CEE3020 - Structural Analysis - 3cr.
- CEE5060 - Mechanics of Composite Materials - 3cr.
- CHEM1220 - Principles of Chemistry II (BPS) - 4cr.
- CHEM1225 - Chemical Principles Laboratory II - 1cr.
- CHEM2320 - Organic Chemistry II - 4cr.
- CHEM2325 - Organic Chemistry Laboratory II - 1cr.
- CHEM3070 - Physical Chemistry II (QI) - 3cr.
- CHEM3650 - Environmental Chemistry (DSC) - 3cr.
- CHEM5070 - Biophysical Chemistry - 3cr.
- ECE2290 - Electrical Circuits II - 4cr.
- ECE2700 - Digital Circuits - 4cr.
- ENGR5930 - Special Problems - 1cr.
- KIN4200 - Biomechanics (QI) - 4cr.
- MAE3340 - Instrumentation and Measurements - 3cr.
- MAE5310 - Control Systems - 4cr.
- MAE5320 - Mechatronics - 4cr.
- MATH2210 - Multivariable Calculus (QI) - 3cr.
- MATH5710 - Introduction to Probability - 3cr.
- NDFS4020 - Advanced Nutrition - 3cr.
- NDFS5100 - Sensory Evaluation of Food (QI) - 3cr.
- NDFS5110 - Food Microbiology (CI) - 3cr.
- PHIL4530 - Ethics and Biotechnology (DSC) - 3cr.
- PHYS2220 - Physics for Scientists and Engineers II (BPS/QI) - 4cr.
- PHYS2225 - Physics for Scientists and Engineers Lab II - 1cr.
- PSC3000 - Fundamentals of Soil Science - 4cr.
- PSC5670 - Environmental Soil Physics - 4cr.

- PSY3460 - Neuroscience I - 3cr.
- PSY4460 - Neuroscience II - 3cr.

-Any CS course above CS 1400 fulfills a technical elective

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Bachelor's Degree)

Suggested Degree Maps

Degree Map Name
Suggested Degree Map - Biological Engineering BS
Total Degree Map Credits
112 - 115
Degree Map Effective Catalog Year
2027 -

Degree Map Narrative

- The following is a sample four-year plan. Please note that student-specific plans may differ.
- Meet with an academic advisor to create a specific plan that best fits your academic needs.
- The student is ultimately responsible for knowing and completing all degree requirements.
- Make sure you meet the registration requirements for each class by clicking the course link and checking any prerequisites or corequisites.
- Consultation with an advisor may result in an altered plan customized for an individual student.
- Check your Degree Works for requirements and completion.

*Please note the following:

- ENGL1010 WRITING AS INQUIRY (CL1) is required by USU but is not included in the degree map because most engineering students satisfy this requirement through an ACT English score of 29 or higher, an SAT Critical Reading score of 640 or higher, Advanced Placement (AP) Examinations (score of 3 on English Language & Composition or English Literature & Composition) or College-Level Examination Program (CLEP) completion.
- BIOL1610 BIOLOGY I and BIOL1615 BIOLOGY I LABORATORY, when taken with BIOL3300 GENERAL MICROBIOLOGY, will fulfill the Breadth Life Science (BLS) requirement
- Though **not** required, students are encouraged to take USU1010 UNIVERSITY CONNECTIONS in their first semester
- Apply for admission to the Professional Program in spring semester of year 2
- Passing the Fundamentals of Engineering Exam is part of the degree requirements. It is highly recommended students take the exam before the fall semester of their senior year.
- Students are recommended to apply for graduation as soon as they have registered for their last semester.
- Please see Program Requirements above and work with your Academic Advisor to ensure pre-professional requirements are met within the correct timeline

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	15	0

Requirement Select
- ENGR1010 - Engineering Exploration

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	Major
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- MATH1210 - Calculus I (QL)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	Major
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- CHEM1210 - Principles of Chemistry I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	Major
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- CHEM1215 - Chemical Principles Laboratory I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	Major
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- Breadth American Institutions (BAI) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	General Education
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	16	0

Requirement Select

- ENGR1400 - Computer Programming for Engineers

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	Major
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- MATH1220 - Calculus II (QL)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	Major
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- PHYS2210 - Physics for Scientists and Engineers I (QI/BPS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	Major
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- PHYS2215 - Physics for Scientists and Engineers Lab I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	Major
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- ENGL2010 - Research and Argument Across Perspectives (CL2)

  OR
- ENGL2020 - Professional Communication (CL2)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	General Education
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	16 - 17	0

Requirement Select

- BENG1880 - Engineering Quantification of Biological Processes

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	Major
Actual Credits	1
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- MATH2250 - Linear Algebra and Differential Equations (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	Major
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- BIOL1610 - Biology I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	Major
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- BIOL1615 - Biology I Laboratory

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	Major
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- CHEM2300 - Principles of Organic Chemistry

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	Major
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- CHEM2315 - Organic Chemistry Laboratory I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	Major
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- Breadth Social Sciences (BSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	General Education
Actual Credits	3 - 4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	15	0

Requirement Select
- BENG2400 - Biological and Environmental Thermodynamics

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	Major
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- BENG1200 - SolidWorks for Biological Engineers

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	Major
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select
- ENGR2010 - Engineering Mechanics Statics

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	Major
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- CHEM3700 - Introductory Biochemistry

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	Major
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- CHEM3710 - Introductory Biochemistry Laboratory

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	Major
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- Breadth Humanities (BHU) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	General Education
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Fall	15	0

Requirement Select

- BENG3500 - Fluid Mechanics in Biological Engineering

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	Major
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- STAT3000 - Statistics for Scientists (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	Major
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- BENG3200 - Introduction to Unit Operations in Biological Engineering

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	Major
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- BENG2330 - Engineering Properties of Biological Materials

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	Major
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- ENGR2140 - Mechanics of Materials

OR

- ENGR2210 - Fundamental Electronics for Engineers

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	Major
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Spring	13	0

Requirement Select

- BENG3870 - Biological Engineering Design I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	Major
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- BENG3000 - Instrumentation for Biological Systems

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	Major
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- BENG3670 - Transport Phenomena in Bio-Environmental Systems

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	Major
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- ENGR3080 - Creativity and Communication in Design (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	Major
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- ENGR2450 - Numerical Methods for Engineers

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	Major
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Fall	12	0

Requirement Select

- BENG4880 - Biological Engineering Design II (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	Major
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- BENG5020 - Biological Modeling and Controls

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	Major
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- BIOL3300 - General Microbiology

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	Major
Actual Credits	4
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- BENG Elective Credit (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	Major
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- 5000-level Elective credit (2 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	Major
Actual Credits	2
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Spring	10 - 12	0

Requirement Select
- BENG4890 - Biological Engineering Design III (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	Major
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- 5000-level Elective credit (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	Major
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- 5000-level Elective credit (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	Major
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- 5000-level Elective credit (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	Major
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Depth Social Sciences (DSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	General Education
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Depth Humanities and Creative Arts (DHA) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1 - 3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	Total Major Credits
15 - 16	96
Total Minor Credits	**Total Elective Credits**
0	0

Program Learning Outcomes

Program Learning Outcomes
https://www.usu.edu/oda/assessment/

Biological Engineering - ME

Program Overview

College
College of Engineering

Department
Biological Engineering

Program Level
Graduate

About this Degree
This degree emphasizes professional practice and coursework. Master of Engineering candidates in Biological Engineering can specialize in biomanufacturing and bioproducts, biofuels, biomaterials, bioprocessing, brain organoid, cell engineering, cell sensing and imaging, functional in vitro models, metabolic engineering, and nanophotonics.

Admission Requirements for this Program
- A bachelor's degree from an accredited U.S. college of university or a similarly recognized international university is required for admission
- 3.0 or higher GPA
- Three letters of recommendation

Program Requirements

Total Credits Required In Program Coursework
30

Total Credits Required To Earn This Credential
30

Simple Requisites

Program Requirements

Graduation Standards and Number of Credits
- A minimum of 30 credits of technical and scientific coursework is required.
- Approval of academic forms required for master's students by the School of Graduate Studies
- Graduate students are required to maintain at least a 3.0 GPA for degree-program courses. Grades of C- or lower will not be accepted for a graduate degree.
- The Program of Study (POS) for a master's degree must include at least 18 semester credits at the level of 6000 or above. A maximum of 12 credits of 5000-level coursework may be applied to the program.
- A master's degree must be completed within six years of entering the program. Additional time may be requested by the student's committee and submitted to the Vice Provost for Graduate Students for review.
- Coursework over eight years old at the time of degree completion may not be used for a graduate degree until it is revalidated.

The Master of Engineering degree in Biological Engineering requires 15 credits of core mandatory graduate Biological Engineering coursework, and an additional 15 credits of elective courses for a total of 30 credits. The balance of graduate courses (electives) are determined by the student, graduate advisor, and the department graduate committee and can be in the following emphasis areas:

- Biomanufacturing & Bioproducts
- Biofuels
- Biomaterials
- Bioprocessing

- Brain Organoid
- Cell Engineering
- Cell Sensing & Imaging
- Functional In Vitro Models
- Metabolic Engineering
- Nanophotonics

Elective courses must follow the guidelines of the School of Graduate Studies for inclusion on a student's Program of Study and must be approved by the committee.

Required Core Coursework

Type
Completion Requirement

Mandatory Core

Complete ALL of the following Courses:

- BENG6510 - Graduate Seminar - 1cr.
- BENG6600 - Downstream Processes in Biological Engineering - 3cr.
- BENG6630 - Synthetic Biological Engineering - 3cr.
- BENG6810 - Biochemical Engineering - 3cr.
- BENG6860 - Research Orientation and Planning - 2cr.
- STAT6200 - Analysis of Designed Experiments - 3cr.

Elective Credits

Complete 15 credits in elective coursework.

Biological Engineering - MS

Program Overview

College
College of Engineering

Department
Biological Engineering

Program Level
Graduate

About this Degree

The MS program in Biological Engineering emphasizes design, building, and testing of new specialized bioreactors, biomedical biomaterials, bioplastics, biofuels, pharmaceuticals, biosensors, and bioinstrumentation. We develop engineered systems that protect public health from water, air, and soil contamination. The program includes specific courses in biochemical engineering, synthetic biological engineering, metabolic engineering, biophotonics, biofuels, tissue engineering, biomaterials engineering, and biosensors that provide students with new skills required by employers in industry, government national laboratories, medical and other research institutes, and universities.

The MS degree requires a thesis or project work in a specific area and prepares students for advanced study or advanced work in that area. The MS degree has two options.: Plan A, the student completes a thesis; Plan B, the student prepares a project report.

There is also a Plan C for a Master of Engineering degree (ME) that consists of the student completing coursework only.

Admission Requirements for this Program

In order to be admitted to a graduate degree program at Utah State University, you must meet these minimum requirements:

- Bachelor's degree in an Engineering field from accredited institution (If Bachelor's degree is not in an Engineering field, please see info below concerning Make-up Courses for Non-engineering Students).
- 3.0 or higher GPA. Grade of C or higher on courses.
- Official transcripts with degree conferment for all institutes of higher education attended.
- Statement of Purpose.
- Three letters of recommendation.
- International Students – proof of English proficiency (please see Graduate Admissions Policy).
- GRE is no longer required.

Program Requirements

Total Credits Required In Program Coursework
30

Total Credits Required To Earn This Credential
30

Simple Requisites

Program Requirements

All graduate degrees in Biological Engineering (BE) require 15 credits of core mandatory graduate BE coursework (see below), 9-12 credits of elective courses, and 3-6 credits of research for a total of 30 credits. Plan C for the ME program will require 15 credits of general courses and 15 credits of elective courses for a total of 30 credits. The balance of graduate courses (electives) are determined by the student, the major professor, and the student's graduate

committee. Elective courses must follow the guidelines of the School of Graduate Studies for inclusion on a student's Program of Study and must be approved by the student's committee.

- **Degree Verification:** A bachelor's degree from an accredited U.S. college or university or a similarly recognized international university is required for admission to and completion of a graduate program. An official transcript must be sent directly to the School of Graduate Studies.
- **Overall Graduate GPA at least 3.0 and no grades of C- or lower:** Graduate students are required to maintain at least a 3.0 GPA for degree-program courses. Grades of C- or lower will not be accepted for a graduate degree.
- **Course Number Acceptability:** The program of study for a master's degree cannot include more than 12 semester credits of courses below the 6000 level. Credits in the following areas are not acceptable in a degree program: foreign languages (unless included in an approved Program of Study), continuing graduate advisement, individual home study, military science, and courses numbered below 5000.
- **Matriculation Start Semester:** A master's degree must be completed within six years of entering the degree program. Additional time may be requested by the student's advisor and submitted to the Vice Provost of Graduate Studies for review.
- **Coursework Validity:** Coursework over eight years old at the time of degree completion may not be used for a graduate degree unless it is revalidated.
- Submit minimum 1 article for publication with an approved peer-reviewed technical journal.
- Write a thesis acceptable to supervisory committee. Give oral presentation of thesis and submit final copy to the USU library.

Section 1

Type
Completion Requirement

Core Courses - 15 credits

Complete ALL of the following Courses:

- STAT6200 - Analysis of Designed Experiments - 3cr.
  OR CEE6660 - Environmental and Hydrologic Data Analysis - 3cr.
- BENG6510 - Graduate Seminar - 1cr.
- BENG6600 - Downstream Processes in Biological Engineering - 3cr.
- BENG6630 - Synthetic Biological Engineering - 3cr.
- BENG6810 - Biochemical Engineering - 3cr.
- BENG6860 - Research Orientation and Planning - 2cr.

Section 2

Type
Completion Requirement

Electives

The MS degree in Biological Engineering Plan A requires 9 credits of electives. The MS Plan B requires 12 credits of electives. The ME Plan C requires 15 credits of electives. A graduate student's supervisory committee helps choose other related graduate coursework as needed to complete the student's program of study and support the research project.

Section 3

Type
Completion Requirement

Elective Courses - (9-15 credits depending on path/degree)

Complete 9-15 credits of Elective Courses

Complete ANY of the following Courses:

- BENG6500 - Systems Biology Modeling - 3cr.
- BENG6610 - Food and Bioprocess Engineering - 3cr.
- BENG6620 - Metabolic Engineering I - 3cr.
- BENG6640 - Biofuels - 3cr.
- BENG6660 - Environmental Quality Analysis - 3cr.
- BENG6680 - Soil-based Waste Management - 2cr.
- BENG6790 - Protein Structure/Function and Purfication - 3cr.
- BENG6830 - Management and Utilization of Biological Solids and Wastewater - 3cr.
- BENG6840 - Introduction to Biophotonics - 3cr.
- BENG6850 - Biomaterials Engineering - 3cr.
- BENG6870 - Molecular and Cellular Bioengineering - 3cr.
- BENG6880 - BioMEMS: Microtechnology for BioMedical Research - 3cr.
- BENG6890 - Tissue Engineering - 3cr.
- BENG6910 - Introduction to Biosensors - 3cr.

- Plan C (ME) requires 15 credits of elective courses. Choice of elective courses will be under the supervision of the department graduate committee

Section 4

Type
Completion Requirement

Thesis Research

All MS Plan A students are required to take 6 credits of thesis research for degree completion. The MS Plan B requires 3 credits of thesis research.

Complete ALL of the following Courses:

- BENG6970 - Thesis Research - 1cr.

Section 5

Type
Completion Requirement

Make-Up Courses for Non-Engineering Students Seeking Admission to the BE Graduate Program

Students who do not have a B.S. degree in an accredited engineering discipline but who want a BE graduate engineering degree, either M.S. or PhD, must take two make-up courses in addition to the coursework for the specific graduate engineering degree.

Make-up courses must be taken the first year of program.

Students may also elect to take the Fundamentals of Engineering (FE) Examination- General Exam (at their own expense). They must successfully pass the exam in lieu of taking the make-up courses.

Complete ALL of the following Courses:

- BENG2400 - Biological and Environmental Thermodynamics - 3cr.
- BENG3200 - Introduction to Unit Operations in Biological Engineering - 3cr.

Program Learning Outcomes

Program Learning Outcomes
https://engineering.usu.edu/

Biological Engineering - PhD

Program Overview

College
College of Engineering

Department
Biological Engineering

Program Level
Graduate

About this Degree
The PhD program in Biological Engineering emphasizes design, building, and testing of new specialized bioreactors, biomedical biomaterials, bioplastics, biofuels, pharmaceuticals, biosensors, and bioinstrumentation. We develop engineered systems that protect public health from water, air, and soil contamination. The program includes specific courses in biochemical engineering, synthetic biological engineering, metabolic engineering, biophotonics, biofuels, tissue engineering, biomaterials engineering, and biosensors that provide students with new skills required by employers in industry, government national laboratories, medical and other research institutes, and universities.

Students seeking a PhD degree in biological engineering successfully complete all required coursework, conduct research under the direction of a major professor, pass the qualifying examinations for PhD candidacy, write a dissertation acceptable to a supervisory committee, submit minimum 2 articles for publication with an approved peer-reviewed technical journal.

Admission Requirements for this Program
To be admitted to a graduate degree program at Utah State University, you must meet the minimum requirements:

- Bachelor's degree in an Engineering field from accredited institution (If Bachelor's degree is not in an Engineering field, please see info below concerning Make-up Courses for Non-engineering Students).
- 3.0 or higher GPA. Grade of C or higher on courses.
- Official transcripts with degree conferment for all institutes of higher education attended.
- Statement of Purpose.
- Three letters of recommendation.
- International Students – proof of English proficiency (please see Graduate Admissions Policy).
- GRE is no longer required.

Program Requirements

Total Credits Required In Program Coursework
36-60

Total Credits Required To Earn This Credential
36-60

Simple Requisites

Program Requirements

The PhD degree in Biological Engineering (BE) requires 12 credits of core mandatory graduate BE coursework (see below), 9-15 credits of elective courses, and 12-30 credits of research for a total of 36-60 credits. The number of credits depends on whether student is a Post-BS or Post-MS seeking PhD candidate. The balance of graduate courses (electives) are determined by the student, the major professor, and the student's graduate committee. Elective courses must follow the guidelines of the School of Graduate Studies for inclusion on a student's Program of Study and must be approved by the student's committee.

- Cumulative GPA of 3.0 is required for graduation.
- Grade of C or higher on courses.

- Submit a minimum of 2 articles for publication with an approved peer-reviewed technical journal.
- Write a dissertation acceptable to supervisory committee. Give oral presentation of dissertation and submit final copy to the USU library.
- A PhD degree must be completed within eight (8) years of entering the degree program. Additional time may be requested by the student's committee and submitted to the Vice Provost of Graduate Studies for review.
- Coursework over eight years old at the time of degree completion may not be used for a graduate degree unless it is revalidated by the Vice Provost for Graduate Studies.
- Credits in the following areas are not acceptable: foreign languages, continuing graduate advisement, individual home study, military science, and courses numbered below 5000.

Section 1

Type
Completion Requirement

Core Courses (12 credits)

Complete ALL of the following Courses:

- STAT6200 - Analysis of Designed Experiments - 3cr.
  OR CEE6660 - Environmental and Hydrologic Data Analysis - 3cr.
- BENG7310 - The Secret Life of Biofilms: Engineering Principles and Research - 3cr.
- BENG7330 - Advanced Transport Phenomena - 3cr.
- BENG7510 - Graduate Seminar - 1cr.
- BENG7860 - Research Orientation and Planning - 2cr.

Section 2

Type
Completion Requirement

Electives

The PhD degree in Biological Engineering requires 9-15 credits of electives. A graduate student's supervisory committee helps choose related graduate coursework as needed to complete the student's program of study and support the research project.

Section 3

Type
Completion Requirement

Dissertation Research

All PhD students are required to take 12-30 credits of dissertation research for degree completion.

Complete ALL of the following Courses:

- BENG7970 - Dissertation Research - 1cr.

Section 4

Type
Completion Requirement

Make-Up Courses for Non-Engineering Students Seeking Admission to the BE Graduate Program

Students who do not have a B.S. degree in an accredited engineering discipline but who want a BE graduate engineering degree, either M.S. or PhD, must take two make-up courses in addition to the coursework for the specific graduate engineering degree.

Make-up courses must be taken the first year of program.

Students may also elect to take the Fundamentals of Engineering (FE) Examination- General Exam (at their own expense). They must successfully pass the exam in lieu of taking the make-up courses.

Complete ALL of the following Courses:

- BENG2400 - Biological and Environmental Thermodynamics - 3cr.
- BENG3200 - Introduction to Unit Operations in Biological Engineering - 3cr.

Program Learning Outcomes

Program Learning Outcomes

https://engineering.usu.edu/

Biochemistry - BS

Program Overview

College	Department	Program Level
College of Arts & Sciences	Chemistry & Biochemistry	Undergraduate

About this Degree

Biochemistry is the basic science that addresses the molecular basis of life and seeks to explain the chemical properties and changes that occur in living organisms. The core courses for the major are in the areas of general, organic, and biological chemistry, general biology, calculus, general physics, and laboratory courses.

At USU, chemistry majors have the opportunity to conduct undergraduate research from the beginning of their studies, first as laboratory assistants and eventually moving on to their own research projects. Unique to USU, many undergraduates in the department are able to publish research papers. This gives USU students a competitive advantage should they apply for graduate programs.

- For more information about Chemistry and Biochemistry, see the Department of Chemistry and Biochemistry.
- Admitted and current students must meet with the Chemistry & Biochemistry Department Advisor.
- Log on to Degree Works to check student-specific program progress.
- The highest math requirement for this degree is MATH1220 CALCULUS II (QL).

Additional Information

The following curriculum is required for the BS degree in Biochemistry. To complete the degree in eight semesters (four academic years), students must register for an average of 15-16 credits per semester. (**Note:** Biochemistry Majors *cannot* declare a Chemistry Minor.)

Note: Students may satisfy the CHEM1210 PRIN OF CHEMISTRY I requirement with an AP score of 3 or 4. *Both* CHEM1210 PRIN OF CHEMISTRY I ***and*** CHEM1220 PRIN OF CHEMISTRY II (BPS) may be satisfied with an AP score of 5.

Students must complete the General Education Requirements.

- CHEM1220 PRIN OF CHEMISTRY II (BPS) will fulfill the Breadth Physical Sciences (BPS) requirement.
- PHYS2120 GENERAL PHYS LIFE SCI II (BPS) and/or BIOL1620 BIOLOGY II (BLS) will fulfill the Breadth Life Science (BLS) requirement.
- MATH1210 CALCULUS I (QL) will fulfill the Quantitative Literacy (QL) requirement.

Students must also complete the University Studies Requirements.

- Complete at least 2 credits in approved 3000-level or above courses from each of the following two categories: Depth Humanities and Creative Arts (DHA) and Depth Social Sciences (DSS).

Admission Requirements for this Program

- New freshmen must be admitted to USU in Good Standing.
- Transfer students from other institutions or other programs at USU must have a 2.20 GPA.

Program Requirements

Total Credits Required In Program Coursework	Total Credits Required To Earn This Credential
96-108	120

Simple Requisites

Program Requirements

REQUIREMENTS TO REMAIN IN THE PROGRAM:

- No CHEM prefix course may be applied toward graduation with a major in Biochemistry with an earned grade of less than C-.
- No CHEM prefix course may be taken on a pass/fail basis, except those courses which are only taught pass/fail.
- No CHEM prefix course may be repeated more than one time to improve the grade to a C- or better.
- All candidates for graduation with a Biochemistry degree must complete a department exit survey prior to approval of graduation application and completion of the program.

Major Requirements (96-108 credits)

Type
Completion Requirement

Biochemistry Requirements (66 credits)

Complete ALL of the following Courses:

- BIOL1610 - Biology I - 3cr.
- BIOL1615 - Biology I Laboratory - 1cr.
- BIOL1620 - Biology II (BLS) - 3cr.
- BIOL1625 - Biology II Laboratory - 1cr.
- CHEM1210 - Principles of Chemistry I - 4cr.
- CHEM1215 - Chemical Principles Laboratory I - 1cr.
- CHEM1220 - Principles of Chemistry II (BPS) - 4cr.
- CHEM1225 - Chemical Principles Laboratory II - 1cr.
- CHEM1990 - Introduction to the Chemistry and Biochemistry Professions - 1cr.
- CHEM2310 - Organic Chemistry I - 4cr.
- CHEM2315 - Organic Chemistry Laboratory I - 1cr.
- CHEM2320 - Organic Chemistry II - 4cr.
- CHEM2325 - Organic Chemistry Laboratory II - 1cr.
- CHEM3000 - Quantitative Analysis (QI) - 3cr.
- CHEM3005 - Quantitative Analysis Laboratory - 1cr.
- CHEM4890 - Undergraduate Biochemistry Seminar (CI) - 2cr.
- CHEM5070 - Biophysical Chemistry - 3cr.
- CHEM5700 - General Biochemistry I - 3cr.
- CHEM5710 - General Biochemistry II - 3cr.
- CHEM5715 - General Biochemistry Laboratory I - 1cr.
- CHEM5720 - General Biochemistry Laboratory II (CI) - 2cr.
- MATH1210 - Calculus I (QL) - 4cr.
- MATH1220 - Calculus II (QL) - 4cr.
- PHYS2110 - General Physics—Life Sciences I - 4cr.
  OR PHYS2210 - Physics for Scientists and Engineers I (QI/BPS) - 4cr.
- PHYS2120 - General Physics - Life Sciences II (BPS) - 4cr.
  OR PHYS2220 - Physics for Scientists and Engineers II (BPS/QI) - 4cr.
- STAT3000 - Statistics for Scientists (QI) - 3cr.
  OR STAT3080 - Data Science for Scientists - 3cr.

Required Major Advanced Electives (18 credits)

Complete the following:

- Students must take a total of 18 credits of approved electives
- 14 credits must be 3000 level or higher
- A minimum of 9 credits must come from list A
- Students must receive a C- grade or higher in elective courses

- No P grades will be accepted in elective courses
- Other upper-division courses may be substituted if approved by the department.
- Prerequisites will not be waived

Advanced Biochemistry Elective Options List A (9-18 credits required)

A minimum of 9 credits of coursework must from from List A to meet the 18 credit minimum requirement.

- Students must take a total of 18 credits of approved electives
- 14 credits of the 18 total credits must be 3000 level or higher
- Students must receive a C- grade or higher in elective courses
- No P grades will be accepted in elective courses
- Only 3 total credits of research (BIOL 5800 and/or CHEM 4800) can be counted towards 18 credit elective requirements
- For 6000 and 7000 level CHEM prefix courses, permission from the instructor will be required

Earn at least 9 credits from the following:

- ADVS4200 - Physiology of Reproduction and Lactation (CI) - 4cr.
- BIOL3060 - Principles of Genetics (QI) - 3cr.
- BIOL3065 - Genetics Laboratory (CI) - 2cr.
- BIOL3300 - General Microbiology - 3cr.
  AND BIOL3305 - General Microbiology Laboratory - 2cr.
- BIOL4450 - Neurobiology - 3cr.
- BIOL4770 - Introduction to Dynamic Biological Systems - 3cr.
- BIOL5150 - Immunology - 3cr.
- BIOL5210 - Cell Biology - 3cr.
- BIOL5220 - Endocrine Aspects of Nutrition - 3cr.
- BIOL5240 - Virology - 3cr.
- BIOL5400 - Environmental Toxicology - 3cr.
- BIOL5600 - Comparative Animal Physiology - 3cr.
- CHEM3510 - Intermediate Inorganic Chemistry - 2cr.
- CHEM4800 - Research Problems (CI) - 1cr.
- CHEM5100 - Computational Chemistry - 3cr.
- CHEM5520 - Advanced Inorganic Chemistry - 2cr.
- CHEM5640 - Instrumental Analysis - 3cr.
- CHEM5670 - Intermediate Environmental Chemistry - 3cr.
- CHEM6300 - Advanced Modern Organic Chemistry - 3cr.
- CHEM6720 - Principles of Enzymology I - 1cr.
- CHEM6740 - Cellular Communication by Small Molecules and Proteins - 1cr.
- CHEM6750 - Principles of Structural Biology - 1cr.
- CHEM6760 - Principles of Bioenergetics - 1cr.
- CHEM6770 - Biochemical Methods - 1cr.
- CHEM6780 - Biochemical Basis of Gene Expression: Nucleic Acid Protein Interactions - 1cr.
- CHEM7300 - Reactions and Synthesis in Modern Organic Chemistry - 3cr.
- CHEM7770 - Special Topics in Biochemistry (Topic) - 1cr.
- BENG5810 - Biochemical Engineering - 3cr.
- BENG5870 - Molecular and Cellular Bioengineering - 3cr.
- BENG5500 - Systems Biology Modeling - 3cr.
- PUBH5400 - Environmental Toxicology - 3cr.

Advanced Biochemistry Elective Options List B (0-9 Credits)

A maximum of 9 credits of coursework can come from List B to meet the 18 credit minimum requirement.

- Students must take a total of 18 credits of approved electives
- 14 credits of the 18 total credits must be 3000 level or higher
- Students must receive a C- grade or higher in elective courses
- No P grades will be accepted in elective courses
- Only 3 total credits of research (BIOL 5800 and/or CHEM 4800) can be counted towards 18 credit elective requirements
- Students cannot count both BIOL 2420 and BIOL 4600 towards the elective requirements

Complete ANY of the following Courses:

- ADVS3500 - Principles of Animal Nutrition - 3cr.
- BIOL2320 - Human Anatomy - 4cr.
- BIOL2420 - Human Physiology - 4cr.
- BIOL3020 - Evolutionary Biology - 3cr.
- BIOL3050 - Organismal Biology with Physiology - 3cr.
- BIOL3070 - Computational Approaches to Biology - 3cr.
- BIOL4000 - Human Dissection - 1cr.
- BIOL4040 - Fundamentals of Epidemiology - 3cr.
- BIOL4400 - Plant Physiology (QI) - 4cr.
- BIOL4430 - Introduction to Plant Pathology - 4cr.
- BIOL4600 - Advanced Human Physiology - 5cr.
- BIOL5625 - Neurophysiology Laboratory - 2cr.
- BIOL5630 - Endocrinology (CI) - 3cr.
- BIOL5800 - Undergraduate Research - 1cr.
- CHEM4250 - Cooperative Experience - 1cr.
- PUBH4030 - Communicable Disease Control - 3cr.
- BENG5660 - Environmental Quality Analysis - 3cr.
- BENG5880 - BioMEMS: Microtechnology for BioMedical Research - 3cr.
- BENG5910 - Introduction to Biosensors - 3cr.
- BENG2330 - Engineering Properties of Biological Materials - 3cr.

Open Electives

Complete the following as needed:
Total elective credit is determined by General Education courses taken, degree type selected, additional credits earned, and any additional math or other prerequisite courses needed. Please consult your Academic Advisor for details

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Bachelor's Degree)

Suggested Degree Maps

Degree Map Name
Suggested Degree Map - Biochemistry BS
Total Degree Map Credits
120 - 130
Degree Map Effective Catalog Year
2027 -

Degree Map Narrative

- Following is a sample four-year plan. Please note that student-specific plans may differ.
- Meet with an academic advisor to create a specific plan that best fits your academic needs.
- The student is ultimately responsible for knowing and completing all degree requirements.
- Make sure you meet the registration requirements for each class by clicking the course link and checking any prerequisites or corequisites.
- Consultation with an advisor may result in an altered plan customized for an individual student.
- Check your Degree Works for requirements and completion.

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	15 - 16	0

Requirement Select

- Grade C- or higher is required in CHEM1210 and CHEM1215. CHEM1990 can have a P grade. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- CHEM1210 - Principles of Chemistry I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	C-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- CHEM1215 - Chemical Principles Laboratory I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	C-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- CHEM1990 - Introduction to the Chemistry and Biochemistry Professions

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- MATH1210 - Calculus I (QL)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- University Studies courses (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	5 - 6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	15	0

Requirement Select

- A grade of C- or higher is required for CHEM1220 and CHEM1225. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- CHEM1220 - Principles of Chemistry II (BPS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	C-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- CHEM1225 - Chemical Principles Laboratory II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- MATH1220 - Calculus II (QL)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- University Studies courses (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	15 - 16	0

Requirement Select

- BIOL1610 - Biology I
- **AND** BIOL1615 - Biology I Laboratory

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- Grade of C- or higher is required for CHEM2310 and CHEM2315. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- CHEM2310 - Organic Chemistry I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- CHEM2315 - Organic Chemistry Laboratory I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	C-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- PHYS2110 - General Physics—Life Sciences I
  OR
- PHYS2210 - Physics for Scientists and Engineers I (QI/BPS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- University Studies course(s) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2 - 3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	15 - 16	0

Requirement Select

- BIOL1620 - Biology II (BLS)
- **AND** BIOL1625 - Biology II Laboratory

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- Grade C- or higher is required in CHEM2320 and CHEM2325. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- CHEM2320 - Organic Chemistry II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	C-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- CHEM2325 - Organic Chemistry Laboratory II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	C-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- PHYS2120 - General Physics - Life Sciences II (BPS)
  OR
- PHYS2220 - Physics for Scientists and Engineers II (BPS/QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- University Studies courses (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2 - 3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Fall	15 - 17	0

Requirement Select

- CHEM3000, CHEM3005, CHEM5700, CHEM5715, and Advanced Biochemistry Elective need a grade of C- or higher. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- CHEM3000 - Quantitative Analysis (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	C-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- CHEM3005 - Quantitative Analysis Laboratory

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	C-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- CHEM5700 - General Biochemistry I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	C-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- CHEM5715 - General Biochemistry Laboratory I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	C-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- Advanced Biochemistry Electives (Approved by Dept.) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	C-
Area	-
Actual Credits	3 - 4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- University Studies courses (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4 - 5
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Spring	17 - 18	0

Requirement Select

- CHEM5710, Advanced Biochemistry Electives, and CHEM5720 require a grade of C- or higher. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- CHEM5710 - General Biochemistry II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	C-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- CHEM5720 - General Biochemistry Laboratory II (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	C-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select
- Advanced Biochemistry Electives (Approved by Dept.) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- University Studies courses (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- STAT3000 - Statistics for Scientists (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- STAT3080 - Data Science for Scientists

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Fall	15	0

Requirement Select
- CHEM5070 and Advanced Biochemistry Electives need a grade of C- or higher. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- CHEM5070 - Biophysical Chemistry

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Advanced Biochemistry Electives (Approved by Dept.) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	C-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- University Studies course(s) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Spring	13 - 17	0

Requirement Select

- CHEM4890 and Advanced Biochemistry Elective requires a grade of C- or higher. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- CHEM4890 - Undergraduate Biochemistry Seminar (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	C-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select

- Advanced Biochemistry Electives (Approved by Dept.) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	C-
Area	-
Actual Credits	4 - 6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- University Studies course(s) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	7 - 9
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	Total Major Credits
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Program Learning Outcomes

Program Learning Outcomes

https://artsci.usu.edu/chem-biochem/assessment/undergraduate/assessment-plan

Biochemistry - MS

Program Overview

College	Department	Program Level
College of Arts & Sciences	Chemistry & Biochemistry	Graduate

About this Degree

The Master of Science (MS) in Biochemistry at Utah State University provides advanced training in the chemical and molecular principles that govern biological systems. The program is designed for students seeking to strengthen their scientific foundation, develop research expertise, and prepare for doctoral study or professional careers in biotechnology, health sciences, and related industries.

Students engage in rigorous coursework in biochemistry and related disciplines, building depth in areas such as molecular biology, metabolism, structural biology, and bioanalytical methods. Emphasis is placed on critical evaluation of scientific literature, quantitative analysis, experimental design, and clear scientific communication.

The program includes significant laboratory and research experiences under faculty mentorship, enabling students to develop technical proficiency with modern instrumentation and methodologies. Through thesis research or other approved scholarly projects, students demonstrate mastery of biochemical concepts and the ability to conduct systematic scientific investigation.

Graduates are well prepared for continued doctoral study, research positions in biotechnology and pharmaceutical industries, government laboratories, and other science-based professions requiring advanced biochemical training.

Qualified undergraduate biochemistry majors at Utah State University may apply in their third year for admission to the BS-MS program. Students should consult with the chairperson of the Graduate Recruiting and Admissions Committee to be certain of their eligibility for this program. All requirements for the BS degree must be completed within two semesters of admission. The MS degree cannot include coursework counted toward the BS degree.

Admissions Requirements for this Degree

Applicants to the MS in Biochemistry program must hold a bachelor's degree in biochemistry or a closely related discipline from an accredited institution. Applicants are expected to have completed foundational coursework in general chemistry, organic chemistry, biochemistry, and related life science disciplines. Admissions requirements and procedures can be found at: https://artsci.usu.edu/chem-biochem/students/graduate/graduate-application.

Additional information about the MS and BS-MS in Biochemistry programs may be obtained by contacting the Department of Chemistry and Biochemistry or by visiting https://artsci.usu.edu/chem-biochem/.

Program Requirements

Total Credits Required In Program Coursework	Total Credits Required To Earn This Credential
30	30

Simple Requisites

Program Requirements

Requirements for an MS degree in Biochemistry

- **Degree Verification**: A bachelor's degree from an accredited U.S. college or university or a similarly recognized international university is required for admission to and completion of a graduate degree.
- **GPA and Minimum Grades**: Graduate students are required to maintain at least a 3.0 GPA for degree-program courses. More than one C grade or grades of C- or lower will not be accepted for a biochemistry graduate degree.
- **Coursework Validity:** Coursework over eight years old at the time of degree completion may not be used for a graduate degree unless it is revalidated.
- **Matriculation Start Semester:** An MS degree must be completed within six years of entering the degree program. Additional time may be requested by the student's committee and submitted to the Vice Provost of Graduate Studies for review.
- **Course Number Acceptability:** The program of study for a master's degree cannot include more than 12 semester credits of courses at the 5000 level. Credits in the following areas are not acceptable in a degree program: foreign languages (unless included in an approved Program of Study), continuing graduate advisement, individual home study, military science, and courses numbered below 5000.
- **Research Credits:** The Plan A option for an MS degree requires the preparation and defense of a thesis. Students are required to complete a minimum of 6 semester credits of thesis research with a maximum of 15 thesis credits applied toward a Program of Study.
    1. A Plan B option requires the production and defense of a paper/project. A minimum of two credits of thesis research (6970) are required, but no more than three thesis research credits can be included in an approved Program of Study.
- **School of Graduate Studies Forms:** Approval of all academic forms required for MS students by the School of Graduate Studies. This includes the Supervisory Committee Approval form, Program of Study, Thesis Proposal Approval, Appointment for Exam, Authorship & Copyright, Format & Style, Title Page, and Graduation Application.

Biochemistry - MS

Type
Completion Requirement

Biochemistry Course Requirements (30 credits)

The Program of Study is approved by the student's supervisory committee. A total of 30 credits is required for the MS degree. Every MS student in biochemistry must complete the following coursework for a minimum of 15 credits:

Fulfill ALL of the following requirements:

Core Course Requirements (6 credits)

Complete ALL of the following Courses:

- CHEM6720 - Principles of Enzymology I - 1cr.
- CHEM6740 - Cellular Communication by Small Molecules and Proteins - 1cr.
- CHEM6750 - Principles of Structural Biology - 1cr.
- CHEM6760 - Principles of Bioenergetics - 1cr.
- CHEM6770 - Biochemical Methods - 1cr.
- CHEM6780 - Biochemical Basis of Gene Expression: Nucleic Acid Protein Interactions - 1cr.

AND

Course Requirements

Complete ALL of the following Courses:

- CHEM7800 - Seminar - 1cr.

• One additional CHEM course at the level of 5000 or above
• One graduate-level course with any prefix at the level of 5000 or above

NOTE:

1. CHEM7800 SEMINAR - Must complete 4 credits

Additional Program Requirements

Complete the following:
• Complete Responsible Conduct of Research training
• Attend the Graduate Student Proposal Writing Seminar

Additional Comments:

Program Learning Outcomes

Program Learning Outcomes

https://artsci.usu.edu/chem-biochem/assessment/graduate/graduate-program-assessment-plan

Biochemistry - PhD

Program Overview

College	Department	Program Level
College of Arts & Sciences	Chemistry & Biochemistry	Graduate

About this Degree

The PhD in Biochemistry at Utah State University is a research-intensive doctoral program designed to prepare scientists for leadership in academia, biotechnology, and related industries. The program provides advanced training in the molecular and chemical foundations of biological systems while cultivating independence, analytical rigor, and professional integrity.

Doctoral students conduct original research under the guidance of accomplished faculty mentors whose work spans areas such as molecular biology, structural biology, enzymology, bioanalytical chemistry, and related interdisciplinary fields. Coursework strengthens expertise in biochemical principles, quantitative analysis, and experimental design, while emphasizing critical evaluation of scientific literature and clear scientific communication.

Students develop technical proficiency through modern laboratory methodologies and instrumentation and gain experience presenting their research at professional conferences and publishing in peer-reviewed journals. Teaching and mentoring opportunities further reinforce mastery of foundational concepts and prepare graduates for diverse professional roles.

Graduates of the program are well prepared for postdoctoral research, faculty appointments, and advanced positions in biotechnology, pharmaceuticals, government laboratories, and other research-driven organizations.

Admissions Requirements for this Degree

Applicants to the PhD in Biochemistry program must hold a bachelor's or master's degree in biochemistry or a closely related discipline from an accredited institution. Applicants are expected to have completed foundational coursework in general chemistry, organic chemistry, biochemistry, and related life science disciplines. Admissions requirements and procedures can be found at: https://artsci.usu.edu/chem-biochem/students/graduate/graduate-application.

Additional information about the PhD in Biochemistry may be obtained by contacting the Department of Chemistry and Biochemistry or by visiting https://artsci.usu.edu/chem-biochem/.

Program Requirements

Total Credits Required In Program Coursework	Total Credits Required To Earn This Credential
30-60	30-60

Simple Requisites

Program Requirements

Requirements for a PhD degree in Biochemistry

- **Degree Verification**: A bachelor's degree or master's degree from an accredited U.S. college or university or a similarly recognized international university is required for admission to and completion of a PhD degree.
- **GPA and Minimum Grades**: Graduate students are required to maintain at least a 3.0 GPA for degree-program courses. More than one C grade or grades of C- or lower will not be accepted for a biochemistry graduate degree.
- **Coursework Validity:** Coursework over eight years old at the time of degree completion may not be used for a graduate degree unless it is revalidated.

- **Matriculation Start Semester:** A PhD degree must be completed within eight years of entering the degree program. Additional time may be requested by the student's committee and submitted to the Vice Provost of Graduate Studies for review.
- **Course Number Acceptability:** The Program of Study for a PhD degree must include at least 18 semester credits at the level of 6000 or above.
    1. The program of study for a master's degree cannot include more than 12 semester credits of courses at the 5000 level. Credits in the following areas are not acceptable in a degree program: foreign languages (unless included in an approved Program of Study), continuing graduate advisement, individual home study, military science, and courses numbered below 5000.
- **Research Credits:** A minimum of 12 dissertation research credits is required if the student has an MS degree, and a minimum of 18 is required if the student has a bachelor's degree.
- **School of Graduate Studies Forms:** Approval of all academic forms required for PhD students by the School of Graduate Studies. This includes the Supervisory Committee Approval form, Program of Study, Application for Candidacy, Appointment for Exam, Authorship & Copyright, Format & Style, Title Page, and Graduation Application.

Biochemistry - PhD

Type
Completion Requirement

Biochemistry Course Requirements

The Program of Study is approved by the student's supervisory committee. A total of 30 credits is required for students entering with an MS degree, 60 credits is required for students entering with a bachelor's degree. Every PhD student in biochemistry must complete the following coursework for a minimum of 10 credits:

Fulfill ALL of the following requirements:

Biochemistry Core Courses

Complete ALL of the following Courses:

- CHEM6720 - Principles of Enzymology I - 1cr.
- CHEM6740 - Cellular Communication by Small Molecules and Proteins - 1cr.
- CHEM6750 - Principles of Structural Biology - 1cr.
- CHEM6760 - Principles of Bioenergetics - 1cr.
- CHEM6770 - Biochemical Methods - 1cr.
- CHEM6780 - Biochemical Basis of Gene Expression: Nucleic Acid Protein Interactions - 1cr.

AND

Additional Course Requirements

Complete ALL of the following Courses:

- CHEM7800 - Seminar - 1cr.

• One additional CHEM course at the level of 5000 or above
• One graduate-level course with any prefix at the level of 5000 or above

NOTE:

1. CHEM7800 SEMINAR - Must complete 4 credits

Additional Program Requirements

Type
Completion Requirement

Additional Requirements

Complete the following:
• Complete Responsible Conduct of Research training
• Attend the Graduate Student Proposal Writing Seminar

Additional Comments:

Program Learning Outcomes

Program Learning Outcomes

https://artsci.usu.edu/chem-biochem/assessment/graduate/graduate-program-assessment-plan

Biology - Minor

Program Overview

College	Department	Program Level
College of Arts & Sciences	Biology	Undergraduate

Program Requirements

Total Credits Required To Earn This Credential
20

Simple Requisites

Program Requirements

The Biology minor requires completion of 20 credits with the following courses:

Section 1

Type
Completion Requirement

Program Requirments

A minimum overall GPA of 2.25 is required for these courses, with a *C-* or better grade in BIOL1610 BIOLOGY I, BIOL1620 BIOLOGY II (BLS), BIOL1620 BIOLOGY II (BLS), and BIOL1625 BIOLOGY II LABORATORY.

Complete ALL of the following Courses:

- BIOL1610 - Biology I - 3cr.
- BIOL1615 - Biology I Laboratory - 1cr.
- BIOL1620 - Biology II (BLS) - 3cr.
- BIOL1625 - Biology II Laboratory - 1cr.

• Upper-division (3000-level and above) BIOL prefix courses (12 credits)

NOTE:
BIOL2220 GENERAL ECOLOGY may be counted toward the 12 elective credits. However, students may not take both BIOL2220 GENERAL ECOLOGY and BIOL3200 ADVANCED ECOLOGY (CI) to fulfill the minor requirements.

Program Learning Outcomes

Program Learning Outcomes
https://www.usu.edu/science/assessment/

Biology: Biology - BA, BS

Program Overview

College	Department	Program Level
College of Arts & Sciences	Biology	Undergraduate

About this Degree
Biology is the study of living organisms and life, and their origin, structure, function, growth, evolution, distribution, and taxonomy. There are many specialty areas that students can major in within biology. Biologists can find careers in research, healthcare, teaching, science writing, administration and management, government, and industry. Studying biology teaches students to ask questions, make observations, evaluate evidence, and solve problems.

Biology Emphasis: This emphasis is a flexible option for students wishing to customize their education in biology. Students choose electives and conduct research in a variety of different topics, such as botany, entomology, biotechnology, synthetic biology, neurobiology, physiology, toxicology, microbiology, virology, herpetology, mammalogy, ornithology, behavioral biology, and more.

The Biology Department offers courses that fulfill the majority of graduate program prerequisites for students hoping to go on to health professions careers following their undergraduate degree. Students who receive health professions advising from USU can be in any major. USU medical school and dental school applicants have a consistently high acceptance rate. USU's health profession students have the opportunity to receive advanced education in human anatomy and physiology, and the human dissection course offered by the department gives students hands-on preparation not available at most other universities.

Biology majors at USU have the unique opportunity to work with faculty mentors on research projects. Faculty is also involved in multiple USTAR (Utah Science Technology and Research) groups and in national and international collaborative research efforts.

The Department of Biology offers programs leading to a Bachelor of Science or Bachelor of Arts degree. For Bachelor of Arts degree, see Undergraduate Academic Credential Requirements for language requirements. Majors will complete a core of courses that provide an understanding of biological principles. Upper-division courses provide integration, in-depth study, and an opportunity for specialization within the different degree emphases. Additional coursework in chemistry, physics, statistics, and mathematics provides knowledge and analytical skills in these important related fields. Biology degrees provide a foundation for graduate work or employment in research, industry, or governmental agencies. Biology majors can add a minor area of study, such as business or chemistry, to enhance their employment opportunities.

- For more information about Biology, see the link to the Department of Biology.
- Admitted and current students must meet with their academic advisor.
- Log on to Degree Works to check student-specific program progress.
- The highest math requirement for this degree is MATH1210 CALCULUS I (QL) or MATH1100 CALCULUS TECHNIQUES (QL), and either STAT2000 STATISTICAL METHODS (QI), or STAT3000 STATISTICS FOR SCIENTISTS (QI).

Admission Requirements for this Program
- New freshmen admitted to USU in good standing qualify for admission to this major.
- Transfer students from other institutions need a 2.25 transfer GPA and students transferring from other USU majors need a 2.25 GPA for admission to this major in good standing

Program Requirements

Total Credits Required In Program Coursework
74-86

Total Credits Required To Earn This Credential
120

Simple Requisites

Program Requirements

A minimum GPA of 2.25 must be attained in all Biology and Public Health coursework required for the major. Major requirements may not be taken on a pass/fail basis, except BIOL5850 MICROBIOLOGY SEMINAR, BIOL6800 BIOLOGY SEMINAR, BIOL6870 ECOLOGY SEMINAR and other one-credit seminar biology classes.

Some program requirements will fulfill the General Education Requirements and University Studies Requirements.

- Two classes from BIOL3055 ORGANISMAL BIOL/PHYS LAB (CI), BIOL3065 GENETICS LABORATORY (CI), BIOL3085 ECOLOGY LABORATORY (CI), and BIOL3095 MOLEC, CELL, DEV BIOL LAB (CI) will fulfill the Communications Intensive (CI) requirement.
- STAT2000 STATISTICAL METHODS (QI) or STAT3000 STATISTICS FOR SCIENTISTS (QI) will fulfill the Quantitative Intensive (QI) requirement.

All candidates for graduation with a biology degree must complete a department assessment prior to approval of graduation application and completion of the program.

For further information, contact the Biology Advising Center.

Major Requirements (74-86 credits)

Type
Completion Requirement

Biology Major Required Courses (27 credits)

Fulfill ALL of the following requirements:

Required Courses

Complete ALL of the following Courses:

- BIOL1050 - Biology Professions - 1cr.
  OR BIOL1060 - Prehealth Professions - 1cr.
- BIOL2220 - General Ecology - 3cr.
- BIOL3020 - Evolutionary Biology - 3cr.
- BIOL3050 - Organismal Biology with Physiology - 3cr.
- BIOL3060 - Principles of Genetics (QI) - 3cr.
- BIOL3070 - Computational Approaches to Biology - 3cr.
  OR BIOL3150 - Quantitative Modeling of Life - 3cr.
  OR BIOL4770 - Introduction to Dynamic Biological Systems - 3cr.
- BIOL3090 - Molecular, Cellular, and Developmental Biology - 3cr.

AND

Additional Required Courses

Earn a minimum grade of C- in the following:

- BIOL1610 - Biology I - 3cr.
- BIOL1615 - Biology I Laboratory - 1cr.
- BIOL1620 - Biology II (BLS) - 3cr.
- BIOL1625 - Biology II Laboratory - 1cr.

Laboratory Course Requirements (4 credits)

Complete at least 2 of the following courses:

- BIOL3055 - Organismal Biology with Physiology Laboratory (CI) - 2cr.
- BIOL3065 - Genetics Laboratory (CI) - 2cr.
- BIOL3085 - Ecology Laboratory (CI) - 2cr.
- BIOL3095 - Molecular, Cellular, and Developmental Biology Laboratory (CI) - 2cr.

Biology Electives (10 credits)

Earn at least 10 credits
Students must select an additional 10 credits of 4000-level and above BIOL or PUBH prefix courses as electives. BIOL3300 GENERAL MICROBIOLOGY may also be included toward these elective credits. A maximum of 4 credits from BIOL4250 INTERNSHIP AND COOP (1-2 credits), BIOL4710 TEACHING INTERNSHIP (1 credit), and BIOL5800 UNDERGRADUATE RESEARCH (1-3 credits) may be included among the 10 elective credits.

Required Physical Science Courses (26-37 credits)

Fulfill ALL of the following requirements:

Required Courses

Complete ALL of the following Courses:

- CHEM1210 - Principles of Chemistry I - 4cr.
- CHEM1215 - Chemical Principles Laboratory I - 1cr.
- CHEM1220 - Principles of Chemistry II (BPS) - 4cr.
- CHEM1225 - Chemical Principles Laboratory II - 1cr.
- PHYS2110 - General Physics—Life Sciences I - 4cr.
- PHYS2120 - General Physics - Life Sciences II (BPS) - 4cr.

Students must also select an Organic Chemistry option as well as a Biochemistry option

AND

Organic Chemistry

Fulfill ANY of the following requirements:

Organic Chemistry Option 1

Complete ALL of the following Courses:

- CHEM2300 - Principles of Organic Chemistry - 3cr.
  AND CHEM2315 - Organic Chemistry Laboratory I - 1cr.

OR

Organic Chemistry Option 2

Complete ALL of the following Courses:

- CHEM2310 - Organic Chemistry I - 4cr.
  AND CHEM2315 - Organic Chemistry Laboratory I - 1cr.
- CHEM2320 - Organic Chemistry II - 4cr.
  AND CHEM2325 - Organic Chemistry Laboratory II - 1cr.

AND

Biochemistry

Fulfill ANY of the following requirements:

Biochemistry Option 1

Complete ALL of the following Courses:

- CHEM3700 - Introductory Biochemistry - 3cr.
  AND CHEM3710 - Introductory Biochemistry Laboratory - 1cr.

OR

Biochemistry Option 2

Students who select "Organic Chemistry Option 1" are not eligible to register for this Biochemistry option.

Complete ALL of the following Courses:

- CHEM5700 - General Biochemistry I - 3cr.
  AND CHEM5715 - General Biochemistry Laboratory I - 1cr.
- CHEM5710 - General Biochemistry II - 3cr.
  AND CHEM5720 - General Biochemistry Laboratory II (CI) - 2cr.

Mathematics and Statistics Requirement (7-8 credits)

Complete ALL of the following Courses:

- MATH1210 - Calculus I (QL) - 4cr.
  OR MATH1100 - Calculus Techniques (QL) - 3cr.
  OR MATH1170 - Modeling Change: Calculus in Life and Society - 4cr.
- STAT2000 - Statistical Methods (QI) - 4cr.
  OR STAT3000 - Statistics for Scientists (QI) - 3cr.

Open Electives

Complete the following as needed:
Total elective credit is determined by General Education courses taken, degree type selected, additional credits earned, and any additional math or other prerequisite courses needed. Please consult your Academic Advisor for details.

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Bachelor's Degree)

Suggested Degree Maps

Degree Map Name
Suggested Degree Map - Biology: Biology BA, BS
Total Degree Map Credits
107 - 137
Degree Map Effective Catalog Year
2027 -

Degree Map Narrative

- Following is a sample four-year plan. Please note that student-specific plans may differ.
- Meet with an academic advisor to create a specific plan that best fits your academic needs.
- The student is ultimately responsible for knowing and completing all degree requirements.
- Make sure you meet the registration requirements for each class by clicking the course link and checking any prerequisites or corequisites.
- Consultation with an advisor may result in an altered plan customized for an individual student.
- Check your Degree Works for requirements and completion.

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	16 - 20	0

Requirement Select

- *For MATH/STAT courses take MATH 1210, STAT 2000 or STAT 3000; or a prerequisite for these courses (e.g., MATH 1050, MATH 1060, etc.). Contact advisor for details. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- BIOL1610 - Biology I
- **AND** BIOL1615 - Biology I Laboratory

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	C-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- CHEM1210 - Principles of Chemistry I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- CHEM1215 - Chemical Principles Laboratory I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- MATH/STAT course* (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- ENGL1010 - Writing as Inquiry (CL1)

  OR
- Other University Studies course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 6
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- BIOL1050 - Biology Professions

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	15 - 19	0

Requirement Select

- *For MATH/STAT Courses take MATH 1210, STAT 2000 or STAT 3000; or a prerequisite for these courses (e.g., MATH 1050, MATH 1060, etc.). Contact advisor for details. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- BIOL1620 - Biology II (BLS)
- **AND** BIOL1625 - Biology II Laboratory

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	C-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- CHEM1220 - Principles of Chemistry II (BPS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- CHEM1225 - Chemical Principles Laboratory II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- MATH/STAT course* (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- ENGL2010 - Research and Argument Across Perspectives (CL2)
  OR
- Other University Studies courses (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 6
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	13 - 17	0

Requirement Select
- BIOL2220 - General Ecology

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- CHEM2300 - Principles of Organic Chemistry

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- CHEM2315 - Organic Chemistry Laboratory I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- University Studies or Elective courses (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- MATH1210 - Calculus I (QL)
  OR
- MATH1100 - Calculus Techniques (QL)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 4
Progress Credits	-
Contact Hours	3 - 4
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	13 - 17	0

Requirement Select
- BIOL3020 - Evolutionary Biology

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- CHEM3700 - Introductory Biochemistry

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- CHEM3710 - Introductory Biochemistry Laboratory

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- STAT2000 - Statistical Methods (QI)
  OR
- STAT3000 - Statistics for Scientists (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 4
Progress Credits	-
Contact Hours	3 - 4
Clinical	-
Criticality	No

Requirement Select

- University Studies or Elective courses (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Fall	15 - 18	0

Requirement Select

- *For University Studies or Elective courses, CS 1400 - Introduction to Computer Science–CS 1 is not required, but is recommended for students who lack programming skills. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- BIOL3070 - Computational Approaches to Biology
  OR
- BIOL3150 - Quantitative Modeling of Life
  OR
- BIOL4770 - Introduction to Dynamic Biological Systems

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- BIOL3060 - Principles of Genetics (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- BIOL3065 - Genetics Laboratory (CI)
  OR
- BIOL3085 - Ecology Laboratory (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select

- PHYS2110 - General Physics—Life Sciences I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- University Studies or Elective courses* (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Spring	12 - 15	0

Requirement Select

- BIOL3050 - Organismal Biology with Physiology

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- BIOL3055 - Organismal Biology with Physiology Laboratory (CI)

  OR
- BIOL3095 - Molecular, Cellular, and Developmental Biology Laboratory (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select

- PHYS2120 - General Physics - Life Sciences II (BPS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- University Studies or Elective courses (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Fall	11 - 15	0

Requirement Select

- Biology Major Elective courses (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Depth Humanities and Creative Arts (DHA) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2 - 3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- University Studies or Biology Major Elective or Elective course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Spring	12 - 16	0

Requirement Select

- Biology Major Elective course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- BIOL3090 - Molecular, Cellular, and Developmental Biology

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- University Studies or Biology Major Elective or Elective course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Depth Social Sciences (DSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2 - 3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	Total Major Credits
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Program Learning Outcomes

Program Learning Outcomes

https://www.usu.edu/oda/assessment/

Biology: Cellular/Molecular - BA, BS

Program Overview

College
College of Arts & Sciences

Department
Biology

Program Level
Undergraduate

About this Degree

Biology is the study of living organisms and life, and their origin, structure, function, growth, evolution, distribution, and taxonomy. There are many specialty areas that students can major in within biology. Biologists can find careers in research, healthcare, teaching, science writing, administration and management, government, and industry. Studying biology teaches students to ask questions, make observations, evaluate evidence, and solve problems.

The Biology Department offers 4 different emphases. The **Cellular/Molecular** emphasis deals with the formation, structure, and function of macromolecules essential to life, such as nucleic acids and proteins. It also deals with cellular and developmental biology. In addition the Department offers courses that fulfill the majority of graduate program prerequisites for students hoping to go on to health professions careers following their undergraduate degree. Students who receive health professions advising from USU can be in any major. USU medical school and dental school applicants have a consistently high acceptance rate. USU's health profession students have the opportunity to receive advanced education in human anatomy and physiology, and the human dissection course offered by the department gives students hands-on preparation not available at most other universities.

Biology majors at USU have the unique opportunity to work with faculty mentors on research projects. Faculty is also involved in multiple USTAR (Utah Science Technology and Research) groups and in national and international collaborative research efforts.

The Department of Biology offers programs leading to a Bachelor of Science or Bachelor of Arts degree. Majors will complete a core of courses that provide an understanding of biological principles. Upper-division courses provide integration, in-depth study, and an opportunity for specialization within the different degree emphases. Additional coursework in chemistry, physics, statistics, and mathematics provides knowledge and analytical skills in these important related fields. Biology degrees provide a foundation for graduate work or employment in research, industry, or governmental agencies. Biology majors can add a minor area of study, such as business or chemistry, to enhance their employment opportunities.

- For more information about Biology, see the link to the Department of Biology.
- Admitted and current students must meet with their academic advisor.
- Log on to Degree Works to check student-specific program progress.
- The highest math requirement for this degree is MATH1210 CALCULUS I (QL) or MATH1100 CALCULUS TECHNIQUES (QL) and either STAT2000 STATISTICAL METHODS (QI) or STAT3000 STATISTICS FOR SCIENTISTS (QI).

Admission Requirements for this Program

- New freshmen admitted to USU in good standing qualify for admission to this major.
- Transfer students from other institutions need a 2.25 transfer GPA and students transferring from other USU majors need a 2.25 GPA for admission to this major in good standing.

Program Requirements

Total Credits Required In Program Coursework
90

Total Credits Required To Earn This Credential
120

Simple Requisites

Program Requirements

A minimum GPA of 2.25 must be attained in all Biology and Public Health coursework required for the major. Major requirements may *not* be taken on a pass/fail basis.

The following major coursework will fulfill either the General Education Requirements, or University Studies Requirements.

- The required Biology coursework will fulfill the Breadth Life Science (BLS) requirement.
- The required Chemistry coursework will fulfill the Breadth Physical Science (BPS) requirement.
- Two classes from BIOL3055 ORGANISMAL BIOL/PHYS LAB (CI), BIOL3065 GENETICS LABORATORY (CI), BIOL3085 ECOLOGY LABORATORY (CI), and BIOL3095 MOLEC, CELL, DEV BIOL LAB (CI) will fulfill the Communications Intensive (CI) requirement.
- STAT2000 STATISTICAL METHODS (QI) or STAT3000 STATISTICS FOR SCIENTISTS (QI) will fulfill the Quantitative Intensive (QI) requirement.

All candidates for graduation with a biology degree must complete a department assessment prior to approval of graduation application and completion of the program.

For further information, contact the Biology Advising Center.

Biology: Cellular/Molecular - BA, BS

Type
Completion Requirement

Biology Major Required Courses (31 credits)

Complete ALL of the following Courses:

- BIOL1500 - Anatomy and Physiology - 3cr.
  OR BIOL1060 - Prehealth Professions - 1cr.
- BIOL1610 - Biology I - 3cr.
- BIOL1615 - Biology I Laboratory - 1cr.
- BIOL1620 - Biology II (BLS) - 3cr.
- BIOL1625 - Biology II Laboratory - 1cr.
- BIOL2220 - General Ecology - 3cr.
- BIOL3020 - Evolutionary Biology - 3cr.
- BIOL3050 - Organismal Biology with Physiology - 3cr.
- BIOL3060 - Principles of Genetics (QI) - 3cr.
- BIOL3090 - Molecular, Cellular, and Developmental Biology - 3cr.
- BIOL3095 - Molecular, Cellular, and Developmental Biology Laboratory (CI) - 2cr.
- BIOL5800 - Undergraduate Research - 1cr.
- BIOL3070 - Computational Approaches to Biology - 3cr.
  OR BIOL3150 - Quantitative Modeling of Life - 3cr.
  OR BIOL4770 - Introduction to Dynamic Biological Systems - 3cr.

NOTE:

1. BIOL1610 BIOLOGY I, BIOL1615 BIOLOGY I LABORATORY, BIOL1620 BIOLOGY II (BLS), BIOL1625 BIOLOGY II LABORATORY - Requires a C- or better.

2. BIOL5800 UNDERGRADUATE RESEARCH - Minimum of 2 credits required.

Laboratory Course Requirements (2 credits)

Complete ALL of the following Courses:

- BIOL3055 - Organismal Biology with Physiology Laboratory (CI) - 2cr.
- BIOL3065 - Genetics Laboratory (CI) - 2cr.
- BIOL3085 - Ecology Laboratory (CI) - 2cr.

Molecular Biology/Cell/Biotechnology Course Requirement (at least 9 credits)

Earn at least 9 credits from the following:

- BIOL3300 - General Microbiology - 3cr.
- BIOL4400 - Plant Physiology (QI) - 4cr.
- BIOL4450 - Neurobiology - 3cr.
- BIOL4600 - Advanced Human Physiology - 5cr.
- BIOL5050 - Evolutionary Genomics - 3cr.
- BIOL5150 - Immunology - 3cr.
- BIOL5210 - Cell Biology - 3cr.
- BIOL5240 - Virology - 3cr.
- BIOL5390 - Genes and Behavior (CI) - 3cr.
- BIOL5460 - Molecular Neurophamacology - 3cr.
- BIOL5600 - Comparative Animal Physiology - 3cr.
- BIOL5625 - Neurophysiology Laboratory - 2cr.
- BIOL5790 - Protein Structure/Function and Purification - 3cr.

Biology Electives (4 credits)

Complete the following:

Students must select an additional 4 credits of 4000-level and above BIOL prefix courses as electives. A maximum of 3 credits from BIOL4250 INTERNSHIP AND COOP and BIOL4710 TEACHING INTERNSHIP may be included among the 4 elective credits.

Required Physical Science Courses (37 credits)

Complete ALL of the following Courses:

- CHEM1210 - Principles of Chemistry I - 4cr.
- CHEM1215 - Chemical Principles Laboratory I - 1cr.
- CHEM1220 - Principles of Chemistry II (BPS) - 4cr.
- CHEM1225 - Chemical Principles Laboratory II - 1cr.
- CHEM2310 - Organic Chemistry I - 4cr.
- CHEM2315 - Organic Chemistry Laboratory I - 1cr.
- CHEM2320 - Organic Chemistry II - 4cr.
- CHEM2325 - Organic Chemistry Laboratory II - 1cr.
- CHEM5700 - General Biochemistry I - 3cr.
- CHEM5710 - General Biochemistry II - 3cr.
- CHEM5715 - General Biochemistry Laboratory I - 1cr.
- CHEM5720 - General Biochemistry Laboratory II (CI) - 2cr.
- PHYS2110 - General Physics—Life Sciences I - 4cr.
- PHYS2120 - General Physics - Life Sciences II (BPS) - 4cr.

Mathematics and Statistics Requirement (7-8 credits)

Complete ALL of the following Courses:

- MATH1210 - Calculus I (QL) - 4cr.
  OR MATH1100 - Calculus Techniques (QL) - 3cr.
  OR MATH1170 - Modeling Change: Calculus in Life and Society - 4cr.
- STAT2000 - Statistical Methods (QI) - 4cr.
  OR STAT3000 - Statistics for Scientists (QI) - 3cr.

Open Electives

Complete the following as needed:

Total elective credit is determined by General Education courses taken, degree type selected, additional credits earned, and any additional math or other prerequisite courses needed. Please consult your Academic Advisor for details.

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Bachelor's Degree)

Suggested Degree Maps

Degree Map Name

Suggested Degree Map - Biology: Cellular/Molecular BA, BS

Total Degree Map Credits

120 - 145

Degree Map Effective Catalog Year

2027 -

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	16 - 19	0

Requirement Select

- *For the MATH/STAT course, take MATH 1210, STAT 2000 or STAT 3000; or a prerequisite for these courses (e.g., MATH 1050, MATH 1060, etc.). Contact advisor for details. A grade of C- or better is required in BIOL1610 and BIOL1615. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- BIOL1610 - Biology I
- **AND** BIOL1615 - Biology I Laboratory

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	C-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- CHEM1210 - Principles of Chemistry I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- CHEM1215 - Chemical Principles Laboratory I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- MATH/STAT course* (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- ENGL1010 - Writing as Inquiry (CL1)
  OR
- Other University Studies courses (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 5
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- BIOL1050 - Biology Professions
  OR
- BIOL1060 - Prehealth Professions

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	15 - 17	0

Requirement Select

- *For the MATH/STAT course, take MATH 1210, STAT 2000 or STAT 3000; or a prerequisite for these courses (e.g., MATH 1050, MATH 1060, etc.). Contact advisor for details. A grade of C- or better is required in BIOL1620 and BIOL1625. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- BIOL1620 - Biology II (BLS)
- **AND** BIOL1625 - Biology II Laboratory

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	C-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- CHEM1220 - Principles of Chemistry II (BPS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- CHEM1225 - Chemical Principles Laboratory II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- MATH/STAT course* (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- ENGL2010 - Research and Argument Across Perspectives (CL2)

  OR
- Other University Studies courses (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 4
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	14 - 18	0

Requirement Select

- BIOL3020 - Evolutionary Biology

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- CHEM2310 - Organic Chemistry I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- CHEM2315 - Organic Chemistry Laboratory I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- University Studies or Elective courses (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- MATH1210 - Calculus I (QL)

  OR
- MATH1100 - Calculus Techniques (QL)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 4
Progress Credits	-
Contact Hours	3 - 4
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	15 - 18	0

Requirement Select

- CS 1400 - Introduction to Computer Science–CS 1 is not required but is recommended for students who lack programming skills. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- BIOL3050 - Organismal Biology with Physiology

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- CHEM2320 - Organic Chemistry II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- CHEM2325 - Organic Chemistry Laboratory II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- STAT2000 - Statistical Methods (QI)
  OR
- STAT3000 - Statistics for Scientists (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	3 - 4
Clinical	-
Criticality	No

Requirement Select

- University Studies or Elective courses (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Fall	18	0

Requirement Select

- *May take BIOL 3055 - Organismal Biology with Physiology Laboratory (CI). Only offered in Spring semester. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- CHEM5700 - General Biochemistry I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- CHEM5715 - General Biochemistry Laboratory I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- BIOL2220 - General Ecology

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- BIOL3060 - Principles of Genetics (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- BIOL3065 - Genetics Laboratory (CI)

OR
- BIOL3085 - Ecology Laboratory (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select
- PHYS2110 - General Physics—Life Sciences I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- A minimum of 2 credits are required in BIOL5800. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- BIOL5800 - Undergraduate Research

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	1 - 3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Spring	14	0

Requirement Select
- CHEM5710 - General Biochemistry II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- CHEM5720 - General Biochemistry Laboratory II (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select
- BIOL3090 - Molecular, Cellular, and Developmental Biology

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- BIOL3095 - Molecular, Cellular, and Developmental Biology Laboratory (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select
- PHYS2120 - General Physics - Life Sciences II (BPS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Fall	17 - 22	0

Requirement Select
- Biology Elective course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Molecular/Cell/Biotechnology courses (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Depth Humanities and Creative Arts (DHA) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2 - 3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- University Studies or Elective course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- BIOL3070 - Computational Approaches to Biology
  OR
- BIOL3150 - Quantitative Modeling of Life
  OR
- BIOL4770 - Introduction to Dynamic Biological Systems

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Spring	11 - 19	0

Requirement Select

- Biology Elective course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Molecular/Cell/Biotechnology courses (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Depth Social Sciences (DSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2 - 3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- University Studies or Biology Elective or Elective course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	Total Major Credits
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Program Learning Outcomes

Program Learning Outcomes

https://artsci.usu.edu/biology/assessment/undergraduate/biology-major

Biology: Ecology and Evolutionary Biology - BA, BS

Program Overview

College
College of Arts & Sciences

Department
Biology

Program Level
Undergraduate

About this Degree

Biology is the study of living organisms and life, and their origin, structure, function, growth, evolution, distribution, and taxonomy. There are many specialty areas that students can major in within biology. Biologists can find careers in research, healthcare, teaching, science writing, administration and management, government, and industry. Studying biology teaches students to ask questions, make observations, evaluate evidence, and solve problems.

The Biology Department offers 4 different emphases. The **Ecology and Evolutionary Biology** emphasis focuses on both ecology, the branch of biology dealing with the relations and interactions between organisms and their environment, and biodiversity, the varieties of life on earth at all its levels and the ecological and evolutionary processes that sustain it.In addition the Department offers courses that fulfill the majority of graduate program prerequisites for students hoping to go on to health professions careers following their undergraduate degree. Students who receive health professions advising from USU can be in any major. USU medical school and dental school applicants have a consistently high acceptance rate. USU's health profession students have the opportunity to receive advanced education in human anatomy and physiology, and the human dissection course offered by the department gives students hands-on preparation not available at most other universities.

Biology majors at USU have the unique opportunity to work with faculty mentors on research projects. Faculty is also involved in multiple USTAR (Utah Science Technology and Research) groups and in national and international collaborative research efforts.

The Department of Biology offers programs leading to a Bachelor of Science or Bachelor of Arts degree. Majors will complete a core of courses that provide an understanding of biological principles. Upper-division courses provide integration, in-depth study, and an opportunity for specialization within the different degree emphases. Additional coursework in chemistry, physics, statistics, and mathematics provides knowledge and analytical skills in these important related fields. Biology degrees provide a foundation for graduate work or employment in research, industry, or governmental agencies. Biology majors can add a minor area of study, such as business or chemistry, to enhance their employment opportunities.

- For more information about Biology, see the link to the Department of Biology.
- Admitted and current students must meet with their academic advisor.
- Log on to Degree Works to check student-specific program progress.
- The highest math requirement for this degree is MATH1210 CALCULUS I (QL) or MATH1100 CALCULUS TECHNIQUES (QL) and either STAT2000 STATISTICAL METHODS (QI) or STAT3000 STATISTICS FOR SCIENTISTS (QI).

Admission Requirements for this Program

- New freshmen admitted to USU in good standing qualify for admission to this major.
- Transfer students from other institutions need a 2.25 transfer GPA and students transferring from other USU majors need a 2.25 GPA for admission to this major in good standing.

Program Requirements

Total Credits Required In Program Coursework
81

Total Credits Required To Earn This Credential
120

Simple Requisites

Program Requirements

A minimum GPA of 2.25 must be attained in all Biology and Public Health coursework required for the major. Major requirements may *not* be taken on a pass/fail basis.

The following major coursework will fulfill either the General Education Requirements, or University Studies Requirements.

- The required Biology coursework will fulfill the Breadth Life Science (BLS) requirement.
- The required Chemistry coursework will fulfill the Breadth Physical Science (BPS) requirement.
- Two classes from BIOL3055 ORGANISMAL BIOL/PHYS LAB (CI) and BIOL3085 ECOLOGY LABORATORY (CI) will fulfill the Communications Intensive (CI) requirement.
- STAT2000 STATISTICAL METHODS (QI) or STAT3000 STATISTICS FOR SCIENTISTS (QI) will fulfill the Quantitative Intensive (QI) requirement.

All candidates for graduation with a biology degree must complete a department assessment prior to approval of graduation application and completion of the program.

For further information, contact the Biology Advising Center.

Biology: Ecology and Evolutionary Biology - BA, BS

Type
Completion Requirement

Biology Major Required Courses (33-34 credits)

Complete ALL of the following Courses:

- BIOL1050 - Biology Professions - 1cr.
  OR BIOL1060 - Prehealth Professions - 1cr.
- BIOL1610 - Biology I - 3cr.
- BIOL1615 - Biology I Laboratory - 1cr.
- BIOL1620 - Biology II (BLS) - 3cr.
- BIOL1625 - Biology II Laboratory - 1cr.
- BIOL2220 - General Ecology - 3cr.
- BIOL3020 - Evolutionary Biology - 3cr.
- BIOL3050 - Organismal Biology with Physiology - 3cr.
- BIOL3055 - Organismal Biology with Physiology Laboratory (CI) - 2cr.
- BIOL3060 - Principles of Genetics (QI) - 3cr.
- BIOL3085 - Ecology Laboratory (CI) - 2cr.
- BIOL3090 - Molecular, Cellular, and Developmental Biology - 3cr.
- BIOL5800 - Undergraduate Research - 1cr.
- BIOL3070 - Computational Approaches to Biology - 3cr.
  OR BIOL3150 - Quantitative Modeling of Life - 3cr.
  OR BIOL4770 - Introduction to Dynamic Biological Systems - 3cr.

NOTE:

1. BIOL1610 BIOLOGY I, BIOL1615 BIOLOGY I LABORATORY, BIOL1620 BIOLOGY II (BLS), BIOL1625 BIOLOGY II LABORATORY - Requires a grade of C- or better.

2. BIOL5800 UNDERGRADUATE RESEARCH - Minimum of 2 credits required.

Ecology and Evolution Electives (15 credits)

Earn at least 15 credits from the following:

- BIOL3065 - Genetics Laboratory (CI) - 2cr.
- BIOL3095 - Molecular, Cellular, and Developmental Biology Laboratory (CI) - 2cr.
- BIOL3300 - General Microbiology - 3cr.
- BIOL4040 - Fundamentals of Epidemiology - 3cr.
- BIOL4060 - Exploring Animal Behavior - 3cr.
- BIOL4230 - Applied Mathematics in Biology (QI) - 3cr.
- BIOL4250 - Internship/Co-op - 1cr.
- BIOL4270 - Theoretical Ecology - 3cr.
- BIOL4320 - Summarizing complex datasets and machine learning for biologists - 1cr.
- BIOL4400 - Plant Physiology (QI) - 4cr.
- BIOL4420 - Plant Systematics and Diversity - 3cr.
- BIOL4430 - Introduction to Plant Pathology - 4cr.
- BIOL4500 - Applied Entomology - 3cr.
- BIOL4540 - Invertebrate Zoology - 3cr.
- BIOL4650 - Evolution: History of an Idea (CI/DSC) - 3cr.
- BIOL5010 - Biogeography - 3cr.
- BIOL5390 - Genes and Behavior (CI) - 3cr.
- BIOL5530 - Insect Systematics and Evolution - 3cr.
- BIOL5550 - Freshwater Invertebrates - 3cr.
- BIOL5560 - Ornithology - 3cr.
- BIOL5570 - Herpetology - 3cr.
- BIOL5580 - Mammalogy - 3cr.
- BIOL5600 - Comparative Animal Physiology - 3cr.
- BIOL5810 - Bachelor's Thesis - 3cr.
- CS1400 - Introduction to Computer Science--CS 1 - 4cr.
- MATH2270 - Linear Algebra (QI) - 3cr.
- MATH2280 - Ordinary Differential Equations (QI) - 3cr.
- MATH3310 - Discrete Mathematics - 3cr.
- WILD4600 - Conservation Biology - 3cr.

Aquatic Biology Electives (6 credits)

Students interested in Aquatic Biology may also include up to 6 Elective Credits from the following:

Earn at least 6 credits from the following:

- WATS2500 - Introduction to Marine Biology (BLS) - 3cr.
- WATS3000 - Oceanography (DSC) - 3cr.
- WATS3100 - Fish Ecology, Conservation, and Management (CI/DSC) - 3cr.

Required Physical Science Courses (26 credits)

Complete ALL of the following Courses:

- CHEM1210 - Principles of Chemistry I - 4cr.
- CHEM1215 - Chemical Principles Laboratory I - 1cr.
- CHEM1220 - Principles of Chemistry II (BPS) - 4cr.
- CHEM1225 - Chemical Principles Laboratory II - 1cr.
- CHEM2300 - Principles of Organic Chemistry - 3cr.
- CHEM2315 - Organic Chemistry Laboratory I - 1cr.
- CHEM3700 - Introductory Biochemistry - 3cr.
- CHEM3710 - Introductory Biochemistry Laboratory - 1cr.
- PHYS2110 - General Physics—Life Sciences I - 4cr.
- PHYS2120 - General Physics - Life Sciences II (BPS) - 4cr.

Mathematics and Statistics Requirement (7-8 credits)

Complete ALL of the following Courses:

- MATH1210 - Calculus I (QL) - 4cr.
  OR MATH1100 - Calculus Techniques (QL) - 3cr.
  OR MATH1170 - Modeling Change: Calculus in Life and Society - 4cr.
- STAT2000 - Statistical Methods (QI) - 4cr.
  OR STAT3000 - Statistics for Scientists (QI) - 3cr.

Open Electives

Complete the following as needed:
Total elective credit is determined by General Education courses taken, degree type selected, additional credits earned, and any additional math or other prerequisite courses needed. Please consult your Academic Advisor for details.

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Bachelor's Degree)

Suggested Degree Maps

Degree Map Name
Suggested Degree Map - Biology: Ecology and Evolutionary Biology BA, BS
Total Degree Map Credits
119 - 147
Degree Map Effective Catalog Year
2027 -

Degree Map Narrative

- Following is a sample four-year plan. Please note that student-specific plans may differ.
- Meet with an academic advisor to create a specific plan that best fits your academic needs.
- The student is ultimately responsible for knowing and completing all degree requirements.
- Make sure you meet the registration requirements for each class by clicking the course link and checking any prerequisites or corequisites.
- Consultation with an advisor may result in an altered plan customized for an individual student.
- Check your Degree Works for requirements and completion.

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	16 - 19	0

Requirement Select

- *For MATH/STAT courses, take MATH 1210, STAT 2000, or STAT 3000; or a prerequisite for these courses (e.g., MATH 1050, MATH 1060, etc.). Contact your advisor for details. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- BIOL1610 - Biology I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	C-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- BIOL1615 - Biology I Laboratory

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	C-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- CHEM1210 - Principles of Chemistry I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- CHEM1215 - Chemical Principles Laboratory I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- MATH/STAT Course* (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- ENGL1010 - Writing as Inquiry (CL1)

  OR
- Other University Studies Courses (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 5
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- BIOL1050 - Biology Professions

  OR
- BIOL1060 - Prehealth Professions

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	15 - 16	0

Requirement Select

- *For MATH/STAT courses, take MATH 1210, STAT 2000, or STAT 3000; or a prerequisite for these courses (e.g., MATH 1050, MATH 1060, etc.). Contact your advisor for details. BIOL1620 and BIOL1625 must have grade of C- or better. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- BIOL1620 - Biology II (BLS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	C-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- BIOL1625 - Biology II Laboratory

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	C-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- CHEM1220 - Principles of Chemistry II (BPS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- CHEM1225 - Chemical Principles Laboratory II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- MATH/STAT Course* (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- ENGL2010 - Research and Argument Across Perspectives (CL2)

  OR
- Other University Studies courses (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	13 - 17	0

Requirement Select

- BIOL3060 - Principles of Genetics (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- CHEM2300 - Principles of Organic Chemistry

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- CHEM2315 - Organic Chemistry Laboratory I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- University Studies or Biology Electives or Elective courses (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- MATH1210 - Calculus I (QL)

  OR
- MATH1100 - Calculus Techniques (QL)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 4
Progress Credits	-
Contact Hours	3 - 4
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	14 - 17	0

Requirement Select

- BIOL3090 - Molecular, Cellular, and Developmental Biology

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- CHEM3700 - Introductory Biochemistry

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- CHEM3710 - Introductory Biochemistry Laboratory

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- STAT2000 - Statistical Methods (QI)

  OR
- STAT3000 - Statistics for Scientists (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	3 - 4
Clinical	-
Criticality	No

Requirement Select

- University Studies or Biology Electives or Elective courses (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Fall	17 - 21	0

Requirement Select

- * CS 1400 - Introduction to Computer Science–CS 1 is not required but is recommended for students who lack programming skills (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- BIOL2220 - General Ecology

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- BIOL3020 - Evolutionary Biology

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- BIOL3085 - Ecology Laboratory (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select

- BIOL5800 - Undergraduate Research

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2 - 3
Progress Credits	-
Contact Hours	1 - 3
Clinical	-
Criticality	No

Requirement Select

- PHYS2110 - General Physics—Life Sciences I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- University Studies or Biology Electives or Elective courses* (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Spring	15 - 18	0

Requirement Select

- BIOL3050 - Organismal Biology with Physiology

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- BIOL3055 - Organismal Biology with Physiology Laboratory (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select

- PHYS2120 - General Physics - Life Sciences II (BPS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- University Studies or Elective course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- BIOL3070 - Computational Approaches to Biology
  OR
- BIOL3150 - Quantitative Modeling of Life
  OR
- BIOL4770 - Introduction to Dynamic Biological Systems

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Fall	14 - 18	0

Requirement Select

- Biology Major Elective course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	6 - 9
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Depth Humanities and Creative Arts (DHA) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2 - 3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- University Studies or Elective courses (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Spring	15 - 21	0

Requirement Select

- Biology Major Elective course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	6 - 9
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Depth Social Sciences (DSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2 - 3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- University Studies or Elective courses (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	7 - 9
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Program Learning Outcomes

Program Learning Outcomes

https://artsci.usu.edu/biology/assessment/undergraduate/biology-major

Biology: Human Biology - BA, BS

Program Overview

College	Department	Program Level
College of Arts & Sciences	Biology	Undergraduate

About this Degree

Biology is the study of living organisms and life, and their origin, structure, function, growth, evolution, distribution, and taxonomy. There are many specialty areas that students can major in within biology. Biologists can find careers in research, healthcare, teaching, science writing, administration and management, government, and industry. Studying biology teaches students to ask questions, make observations, evaluate evidence, and solve problems.

The Biology Department offers 4 different emphases. The **Human Biology** emphasis is designed to fulfill the academic course requirements for entrance to most medical or dental schools in the United States and Canada. In addition, the Department offers courses that fulfill the majority of graduate program prerequisites for students hoping to go on to health professions careers following their undergraduate degree. Students who receive health professions advising from USU can be in any major. USU medical school and dental school applicants have a consistently high acceptance rate. USU's health profession students have the opportunity to receive advanced education in human anatomy and physiology, and the human dissection course offered by the department gives students hands-on preparation not available at most other universities.

Biology majors at USU have the unique opportunity to work with faculty mentors on research projects. Faculty is also involved in multiple USTAR (Utah Science Technology and Research) groups and in national and international collaborative research efforts.

The Department of Biology offers programs leading to a Bachelor of Science or Bachelor of Arts degree. For Bachelor of Arts degree, see Undergraduate Academic Credential Requirements for language requirements. Majors will complete a core of courses that provide an understanding of biological principles. Upper-division courses provide integration, in-depth study, and an opportunity for specialization within the different degree emphases. Additional coursework in chemistry, physics, statistics, and mathematics provides knowledge and analytical skills in these important related fields. Biology degrees provide a foundation for graduate work or employment in research, industry, or governmental agencies. Biology majors can add a minor area of study, such as business or chemistry, to enhance their employment opportunities.

- For more information about Biology, see the link to the Department of Biology.
- Admitted and current students must meet with their academic advisor.
- Log on to Degree Works to check student-specific program progress.
- Prehealth students pursuing a professional program should also consult with the Prehealth Advising office.
- The highest math requirement for this degree is MATH1210 CALCULUS I (QL) or MATH1100 CALCULUS TECHNIQUES (QL) and either STAT2000 STATISTICAL METHODS (QI) or STAT3000 STATISTICS FOR SCIENTISTS (QI).

Admission Requirements for this Program

- New freshmen admitted to USU in good standing qualify for admission to this major.
- Transfer students from other institutions need a 2.25 transfer GPA and students transferring from other USU majors need a 2.25 GPA for admission to this major in good standing.

Program Requirements

Total Credits Required In Program Coursework
85

Total Credits Required To Earn This Credential
120

Simple Requisites

Program Requirements

A minimum GPA of 2.25 must be attained in all Biology and Public Health coursework required for the major. Major requirements may *not* be taken on a pass/fail basis.

The following major coursework will fulfill either the General Education Requirements, or University Studies Requirements.

- The required Biology coursework will fulfill the Breadth Life Science (BLS) requirement.
- The required Chemistry coursework will fulfill the Breadth Physical Science (BPS) requirement.
- PSY1010 GENERAL PSYCHOLOGY (BSS) or SOC1010 INTRO SOCIOLOGY (BSS) or SOC1020 SOCIAL PROBLEMS (BSS) will fulfill the Breadth Social Science (BSS) requirement.
- Two classes from BIOL3055 ORGANISMAL BIOL/PHYS LAB (CI), BIOL3065 GENETICS LABORATORY (CI), BIOL3085 ECOLOGY LABORATORY (CI), and BIOL3095 MOLEC, CELL, DEV BIOL LAB (CI) will fulfill the Communications Intensive (CI) requirement.
- STAT2000 STATISTICAL METHODS (QI) or STAT3000 STATISTICS FOR SCIENTISTS (QI) will fulfill the Quantitative Intensive (QI) requirement.

All candidates for graduation with a biology degree must complete a department assessment prior to approval of graduation application and completion of the program.

For further information, contact the Biology Advising Center.

Biology: Human Biology - BA, BS

Type
Completion Requirement

Required Biology Courses (27 credits)

Complete ALL of the following Courses:

- BIOL1050 - Biology Professions - 1cr.
  OR BIOL1060 - Prehealth Professions - 1cr.
- BIOL1610 - Biology I - 3cr.
- BIOL1615 - Biology I Laboratory - 1cr.
- BIOL1620 - Biology II (BLS) - 3cr.
- BIOL1625 - Biology II Laboratory - 1cr.
- BIOL2220 - General Ecology - 3cr.
- BIOL3020 - Evolutionary Biology - 3cr.
- BIOL3050 - Organismal Biology with Physiology - 3cr.
  OR BIOL4600 - Advanced Human Physiology - 5cr.
- BIOL3060 - Principles of Genetics (QI) - 3cr.
- BIOL3090 - Molecular, Cellular, and Developmental Biology - 3cr.
- BIOL3070 - Computational Approaches to Biology - 3cr.
  OR BIOL3150 - Quantitative Modeling of Life - 3cr.
  OR BIOL4770 - Introduction to Dynamic Biological Systems - 3cr.

NOTE:

1. BIOL1610 BIOLOGY I, BIOL1615 BIOLOGY I LABORATORY, BIOL1620 BIOLOGY II (BLS), BIOL1625 BIOLOGY II LABORATORY - Requires a C- or better.

Laboratory Course Requirements (4 credits)

Complete at least 2 of the following courses:

- BIOL3055 - Organismal Biology with Physiology Laboratory (CI) - 2cr.
- BIOL3065 - Genetics Laboratory (CI) - 2cr.
- BIOL3085 - Ecology Laboratory (CI) - 2cr.
- BIOL3095 - Molecular, Cellular, and Developmental Biology Laboratory (CI) - 2cr.

Human Biology Electives (12 credits)

Earn at least 12 credits
Students must select an additional 12 credits of 4000 level or above BIOL or PUBH prefix courses as electives. BIOL2320 HUMAN ANATOMY, BIOL3100 BIOETHICS (CI), and BIOL3300 GENERAL MICROBIOLOGY may also be included toward these elective credits. A maximum of 4 credits from BIOL4250 INTERNSHIP AND COOP, BIOL4710 TEACHING INTERNSHIP, and BIOL5800 UNDERGRADUATE RESEARCH may be included among the 12 elective credits. With the approval of the Director of Undergraduate Studies, up to three credits of Emphasis Electives may come from upper-division courses at the 3000 level and above from other departments. Such substitutions, which may include courses in the humanities and social sciences, must be appropriate to the Human Biology Emphasis and must be different from the courses used to fulfill University Studies Depth Education requirements.

Required Supporting Courses (3 credits)

Complete ALL of the following Courses:

- PSY1010 - General Psychology (BSS) - 3cr.
  OR SOC1010 - Introductory Sociology (BSS) - 3cr.
  OR SOC1020 - Social Problems (BSS) - 3cr.

Required Physical Science Courses (32-37 credits)

Fulfill ALL of the following requirements:

Required Physical Science Courses

Complete ALL of the following Courses:

- CHEM1210 - Principles of Chemistry I - 4cr.
- CHEM1215 - Chemical Principles Laboratory I - 1cr.
- CHEM1220 - Principles of Chemistry II (BPS) - 4cr.
- CHEM1225 - Chemical Principles Laboratory II - 1cr.
- CHEM2310 - Organic Chemistry I - 4cr.
- CHEM2315 - Organic Chemistry Laboratory I - 1cr.
- CHEM2320 - Organic Chemistry II - 4cr.
- CHEM2325 - Organic Chemistry Laboratory II - 1cr.
- PHYS2110 - General Physics—Life Sciences I - 4cr.
- PHYS2120 - General Physics - Life Sciences II (BPS) - 4cr.

AND

Chemistry/Biochemistry

Fulfill ANY of the following requirements:

Introductory Biochemistry Option

Complete ALL of the following Courses:

- CHEM3700 - Introductory Biochemistry - 3cr.

- CHEM3710 - Introductory Biochemistry Laboratory - 1cr.

OR

General Biochemistry Option

Complete ALL of the following Courses:

- CHEM5700 - General Biochemistry I - 3cr.
- CHEM5710 - General Biochemistry II - 3cr.
- CHEM5715 - General Biochemistry Laboratory I - 1cr.
- CHEM5720 - General Biochemistry Laboratory II (CI) - 2cr.

Mathematics and Statistics Requirement (7-8 credits)

Complete ALL of the following Courses:

- MATH1100 - Calculus Techniques (QL) - 3cr.
  OR MATH1210 - Calculus I (QL) - 4cr.
  OR MATH1170 - Modeling Change: Calculus in Life and Society - 4cr.
- STAT2000 - Statistical Methods (QI) - 4cr.
  OR STAT3000 - Statistics for Scientists (QI) - 3cr.

Open Electives

Complete the following as needed:
Total elective credit is determined by General Education courses taken, degree type selected, additional credits earned, and any additional math or other prerequisite courses needed. Please consult your Academic Advisor for details.

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Bachelor's Degree)

Suggested Degree Maps

Degree Map Name
Suggested Degree Map - Biology: Human Biology BA, BS
Total Degree Map Credits
119 - 134
Degree Map Effective Catalog Year
2027 -

Degree Map Narrative

- Following is a sample four-year plan. Please note that student-specific plans may differ.
- Meet with an academic advisor to create a specific plan that best fits your academic needs.
- The student is ultimately responsible for knowing and completing all degree requirements.
- Make sure you meet the registration requirements for each class by clicking the course link and checking any prerequisites or corequisites.
- Consultation with an advisor may result in an altered plan customized for an individual student.
- Check your Degree Works for requirements and completion.

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	15 - 17	0

Requirement Select

- *For MATH/STAT courses, take MATH 1210, STAT 2000 or STAT 3000; or a prerequisite for these courses (e.g., MATH 1050, MATH 1060, etc.). Contact your advisor for details. BIOL1610 and BIOL1625 must have a grade of C- or better. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- BIOL1050 - Biology Professions
  OR
- BIOL1060 - Prehealth Professions

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- BIOL1610 - Biology I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	C-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- BIOL1615 - Biology I Laboratory

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	C-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- CHEM1210 - Principles of Chemistry I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- CHEM1215 - Chemical Principles Laboratory I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- MATH/STAT Course* (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2 - 4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- ENGL1010 - Writing as Inquiry (CL1)
  OR
- Other University Studies courses (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	17 - 22	0

Requirement Select
- *For MATH/STAT courses, take MATH 1210, STAT 2000 or STAT 3000; or a prerequisite for these courses (e.g., MATH 1050, MATH 1060, etc.). Contact your advisor for details. A grade of C- or better is required for BIOL1620 and BIOL1625. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	C-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- BIOL1620 - Biology II (BLS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	C-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- BIOL1625 - Biology II Laboratory

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	C-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- CHEM1220 - Principles of Chemistry II (BPS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- CHEM1225 - Chemical Principles Laboratory II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- MATH/STAT course* (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2 - 4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- ENGL2010 - Research and Argument Across Perspectives (CL2)
  OR
- University Studies courses (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 6
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	15	0

Requirement Select

- BIOL2220 - General Ecology
  OR
- BIOL3060 - Principles of Genetics (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- CHEM2310 - Organic Chemistry I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- CHEM2315 - Organic Chemistry Laboratory I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- MATH1210 - Calculus I (QL)
  OR
- MATH1100 - Calculus Techniques (QL)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	3 - 4
Clinical	-
Criticality	No

Requirement Select

- SOC1010 - Introductory Sociology (BSS)
  OR
- PSY1010 - General Psychology (BSS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	14 - 16	0

Requirement Select

- BIOL2220 - General Ecology
  OR
- BIOL3060 - Principles of Genetics (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- CHEM2320 - Organic Chemistry II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- CHEM2325 - Organic Chemistry Laboratory II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- STAT2000 - Statistical Methods (QI)
  OR
- STAT3000 - Statistics for Scientists (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 4
Progress Credits	-
Contact Hours	3 - 4
Clinical	-
Criticality	No

Requirement Select

- University Studies or Elective courses (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Fall	14 - 16	0

Requirement Select

- * CS 1400 - Introduction to Computer Science–CS 1 is not required but is recommended for students who lack programming skills. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- BIOL3020 - Evolutionary Biology

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- BIOL3065 - Genetics Laboratory (CI)
  OR
- BIOL3085 - Ecology Laboratory (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select

- Biology Major Elective course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- PHYS2110 - General Physics—Life Sciences I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- University Studies or Elective courses* (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2 - 4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Spring	16	0

Requirement Select

- BIOL3050 - Organismal Biology with Physiology

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- BIOL3055 - Organismal Biology with Physiology Laboratory (CI)
  OR
- BIOL3095 - Molecular, Cellular, and Developmental Biology Laboratory (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select

- CHEM3700 - Introductory Biochemistry

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- CHEM3710 - Introductory Biochemistry Laboratory

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- PHYS2120 - General Physics - Life Sciences II (BPS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- University Studies or Elective course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Fall	11 - 13	0

Requirement Select

- Biology Major Elective course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Depth Humanities and Creative Arts (DHA) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2 - 3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- University Studies or Elective course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- BIOL3070 - Computational Approaches to Biology
  OR
- BIOL3150 - Quantitative Modeling of Life
  OR
- BIOL4770 - Introduction to Dynamic Biological Systems

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Spring	17 - 19	0

Requirement Select

- Biology Elective courses (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Depth Social Sciences (DSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2 - 3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- University Studies or General Elective course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	6 - 7
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- BIOL3090 - Molecular, Cellular, and Developmental Biology

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Program Learning Outcomes

Program Learning Outcomes

https://artsci.usu.edu/biology/assessment/undergraduate/biology-major

Biology - MS

Program Overview

College	Department	Program Level
College of Arts & Sciences	Biology	Graduate

About this Degree

Co-Directors: Dr. Erin Bobeck and Dr. Noelle Beckman
Graduate Programs Coordinator: Anthony Sterenchak
Location: Biology-Natural Resources 117E
E-Mail: anthony.sterenchak@usu.edu
Phone: (435) 797-2485

Website: https://artsci.usu.edu/biology/
Admissions Info: https://artsci.usu.edu/biology/students/graduate/prospective-students

Specializations:

- Climate Adaptation Science: https://www.usu.edu/climate-adaptation/

Admission Requirements for this Program

Admissions Info: https://artsci.usu.edu/biology/students/graduate/prospective-students

Program Requirements

Total Credits Required In Program Coursework	Total Credits Required To Earn This Credential
30	30

Simple Requisites

Program Requirements

School of Graduate Studies Requirements

- A bachelor's degree from an accredited U. S. college or university or a similarly recognized international university is required for admission to and completion of a graduate program.
- Graduate students are required to maintain at least a 3. 0 GPA for degree-program courses. Grades of C- or lower will not be accepted for a graduate degree.
- The Program of Study for a master's degree must include at least 15 semester credits at the level of 6000 or above.
- A master's degree must be completed within six years of entering the degree program. Additional time may be requested by the student's committee and submitted to the Vice Provost of Graduate Studies for review.
- Coursework over eight years old at the time of degree completion may not be used for a graduate degree unless it is revalidated by the Vice Provost of the School of Graduate Studies.
- **Course Level Restrictions:**
  - Graduate level coursework (6000 and above)
  - No more than 12 credits of 5000-5990 level courses
- **Master's forms:**
  - Approval of academic forms required for master's students by the School of Graduate Studies

- List of specific forms required, depending on plan type:
    - RCR Training
    - Supervisory Committee
    - Program of Study
    - Annual Professional Development Plan
    - Individual Development Plan
    - Completion of Comprehensive Exam (Written or Oral)
    - Thesis/Project Approval
    - Appointment for Examination
    - Record of Examination
    - Thesis Format and Style
    - Authorship and Copyright
    - Thesis Title Page
    - SGS and library review and approval of Thesis

- **Defense**
    - Completion of Public Presentation of research
    - Completion of Private Defense with Supervisory Committee

Intro to Graduate Studies

Type
Completion Requirement

Program Requirement

Intro to Grad Studies

Earn at least 1 credits from the following:

- BIOL6750 - Topics in Biology - 1cr.

Research Credits

Type
Completion Requirement

Research Credit

Between 6 - 15 Research Credits

Earn at least 6 credits from the following:

- BIOL6970 - Thesis Research - 1cr.

Coursework

Type
Completion Requirement

Elective Credit

Complete the following:
Remaining credits will be filled by coursework decided in collaboration with your Faculty Advisor.

Program Learning Outcomes

Program Learning Outcomes

https://artsci.usu.edu/biology/assessment/graduate/assessment-plan

Biology - PhD

Program Overview

College
College of Arts & Sciences

Department
Biology

Program Level
Graduate

About this Degree

Co-Directors: Dr. Erin Bobeck and Dr. Noelle Beckman
Graduate Programs Coordinator: Anthony Sterenchak
Location: Biology-Natural Resources 117E
E-Mail: anthony.sterenchak@usu.edu
Phone: (435) 797-2485

Website: https://www.usu.edu/biology/
Admissions Info: https://artsci.usu.edu/biology/students/graduate/prospective-student

Specializations:

- Climate Adaptation Science: https://www.usu.edu/climate-adaptation/

Admission Requirements for this Program

Admissions Info: https://artsci.usu.edu/biology/students/graduate/prospective-student

Program Requirements

Total Credits Required In Program Coursework
30-60

Total Credits Required To Earn This Credential
30-60

Simple Requisites

Program Requirements

School of Graduate Studies Requirements

- A bachelor's degree from an accredited U.S. college or university or a similarly recognized international university is required for admission to and completion of a graduate program.
- Graduate students are required to maintain at least a 3.0 GPA for degree-program courses. Grades of C- or lower will not be accepted for a graduate degree.
- The Program of Study for a doctoral degree, if the student has a master's degree, must include at least 15 semester credits at the level of 6000 or above. If the student does not have a master's degree, the Program of Study must include at least 30 credits at the level of 6000 or above.
- A doctorate must be completed within eight years of entering the degree program. Additional time may be requested by the student's committee and submitted to the Vice Provost of Graduate Studies for review.
- Coursework over eight years old at the time of degree completion may not be used for a graduate degree unless it is revalidated by the Vice Provost of the School of Graduate Studies.
- **Course Level Restrictions:**
  - Graduate level course work (6000 and above)
  - No more than 12 credits of 5000-5990 level courses
- **Doctoral forms:**
  - Approval of academic forms required for doctoral students by the School of Graduate Studies.
  - List of specific forms, depending on plan type:
    - RCR Training
    - Supervisory Committee
    - Program of Study
    - Annual Professional Development Plan
    - Individual Development Plan
    - Completion of Comprehensive Exams (Written and Oral)
    - Application for Candidacy
    - Appointment for Examination
    - Record of Examination
    - Dissertation Format and Style
    - Authorship and Copyright
    - Dissertation Title Page
    - SGS and library review and approval of Dissertation
- **Defense**
  - Completion of Public presentation of research
  - Completion of Private Defense with Supervisory Committee

Intro to Graduate Studies

Type
Completion Requirement

Required Course (1 credit)

Intro to Grad Studies

Earn at least 1 credits from the following:

- BIOL6750 - Topics in Biology - 1cr.

Research Credits

Type
Completion Requirement

Dissertation Research (12-18 credits)

Complete ALL of the following Courses:

- BIOL7970 - Dissertation Research - 1cr.

NOTE:

1. With previous Master's Degree: 12 credits of BIOL7970 DISSERTATION RESEARCH
2. With Bachelor's Degree only: 18 credits of BIOL7970 DISSERTATION RESEARCH

Coursework

Type
Completion Requirement

Additional Required Credit

Complete the following:
Remaining credits will be filled by coursework decided in collaboration with your Faculty Advisor.

Program Learning Outcomes

Program Learning Outcomes

Admissions Info: https://artsci.usu.edu/biology/students/graduate/prospective-students

Biomathematics - Minor (Mathematics and Statistics)

Program Overview

College
College of Science

Department
Mathematics & Statistics (Inactive Code - Do Not Use), Biology

Program Level
Undergraduate

Program Requirements

Total Credits Required To Earn This Credential

36-40

Simple Requisites

Program Requirements

All grades for MATH and STAT courses applied toward the Biomathematics minor must be C- or better. A grade of C- or better is also required in BIOL1610 BIOLOGY I, BIOL1615 BIOLOGY I LABORATORY, BIOL1620 BIOLOGY II (BLS), and BIOL1625 BIOLOGY II LABORATORY.

Section 1

Type
Completion Requirement

Required Courses (28 credits)

Complete ALL of the following Courses:

- BIOL1610 - Biology I - 3cr.
- BIOL1615 - Biology I Laboratory - 1cr.
- BIOL1620 - Biology II (BLS) - 3cr.
- BIOL1625 - Biology II Laboratory - 1cr.
- MATH1210 - Calculus I (QL) - 4cr.
- MATH1220 - Calculus II (QL) - 4cr.
- MATH2270 - Linear Algebra (QI) - 3cr.
- DSAI2275 - Linear Algebra for Data Science - 4cr.
- MATH2280 - Ordinary Differential Equations (QI) - 3cr.
- STAT3000 - Statistics for Scientists (QI) - 3cr.
- MATH4230 - Applied Mathematics in Biology (QI) - 3cr.
- BIOL4230 - Applied Mathematics in Biology (QI) - 3cr.

(students may choose either MATH2270 LINEAR ALGEBRA (QI) ***or DSAI 2275)***
(students may choose either MATH4230 APPLIED MATH IN BIOLOGY (QI) ***or*** BIOL4230 APPLIED MATH IN BIOLOGY (QI))

Section 2

Type
Completion Requirement

Elective Courses (8-12 credits)

- **Mathematics and Statistics majors** must take *two* courses from the Biology electives, and *one* course from the Mathematics and Statistics electives.
- **Biology majors** must take *one* course from the Biology electives (listed below), and *two* courses from the Mathematics and Statistics electives (listed below).

- **All other majors** must take *two* courses from *each* set of electives.

Fulfill ANY of the following requirements:

Mathematics and Statistics Electives

Complete ANY of the following Courses:

- MATH5410 - Methods of Applied Mathematics - 3cr.
- MATH5420 - Partial Differential Equations - 3cr.
- MATH5460 - Nonlinear Dynamics - 3cr.
- MATH4610 - Fundamentals of Numerical Analysis - 3cr.
- MATH5610 - Introduction to Numerical Analysis - 3cr.
- MATH5620 - Numerical Algorithms for Approximate Solutions of DE - 3cr.
- MATH5710 - Introduction to Probability - 3cr.
- STAT5100 - Modern Regression Methods (CI/QI) - 3cr.
- STAT5120 - Statistical Methods for Rates and Proportions - 2cr.
- STAT5200 - Analysis of Designed Experiments - 3cr.
- STAT5650 - Applied Machine Learning and Multivariate Statistics - 3cr.

(students may choose either MATH4610 FUND OF NUMERICAL ANALYSIS ***or*** MATH5610 INTRO TO NUMERICAL ANALYSIS)

OR

Biology Electives

Complete ANY of the following Courses:

- BENG5020 - Biological Modeling and Controls - 3cr.
- BIOL3060 - Principles of Genetics (QI) - 3cr.
- BIOL3070 - Computational Approaches to Biology - 3cr.
- BIOL4270 - Theoretical Ecology - 3cr.
- BIOL4300 - Programming for Biologists - 3cr.
- BIOL4400 - Plant Physiology (QI) - 4cr.
- BIOL5600 - Comparative Animal Physiology - 3cr.
- PSC5500 - Environmental Physics of Land Ecosystems & Climate - 3cr.
- PSC5760 - Climate and Climate Change (DSC)(QI) - 3cr.
- PUBH5330 - Industrial Hygiene Chemical Hazard Control (QI) - 3cr.
- WILD3810 - Wildlife Population Ecology - 3cr.

(BIOL4310 LINEAR REGRESSION ***and*** BIOL4320 DATASETS AND MACHINE LEARNING count together as one elective)

Program Learning Outcomes

Program Learning Outcomes

https://www.usu.edu/science/assessment/

Biotechnology - BS

Program Overview

College	Department	Program Level
College of Agriculture & Natural Resources	Animal, Dairy & Veterinary Sciences	Undergraduate

About this Degree

The Biotechnology degree provides a comprehensive curriculum that integrates theoretical knowledge with practical applications, enabling students to understand the fundamental principles of biotechnology and its diverse applications in various industries.

- For more information about Animal, Dairy, & Veterinary Sciences, see the website.
- If you are a new/entering student, we strongly recommend reviewing the four-year plan found at the bottom of this page.
- Admitted and current students must meet with an advisor.
- Log on to Degree Works to check student-specific program progress.
- The highest math requirement for this degree is MATH1050 COLLEGE ALGEBRA (QL)

Admission Requirements for this Program

- New freshmen: Admitted to USU in Good Standing
- Transfer students from other institutions or other programs at USU: 2.75 GPA

Program Requirements

Total Credits Required To Earn This Credential

120

Simple Requisites

Program Requirements

Students with last names A-L: Contact Allie East at allie.east@usu.edu, 435-797-2194, or https://aggie.link/AllieEast for advising.
Students with last names M-Z: Contact Tami Spackman, tami.spackman@usu.edu, 435-797-2150 or https://aggie.link/TamiSpackman for advising.

1. Attain a grade point average of at least 2.50 in all ADVS courses.
2. ADVS courses required for the major may be repeated only *once* to improve a grade.
3. Courses required for the major may *not* be taken for a *pass/fail* grade, except for courses that are only offered as pass/fail.
4. To graduate with a degree in this major, students must attain an overall GPA of at least 2.25 for all required courses for the major.

Biotechnology - BS Course Requirements

Type

Completion Requirement

Required Courses (79 credits)

Complete ALL of the following Courses:

- ADVS1050 - Animal, Dairy and Veterinary Science Academic and Career Orientation I - 1cr.

- ADVS1060 - Animal, Dairy, and Veterinary Science Academic and Career Orientation II - 1cr.
- ADVS1110 - Introduction to Animal Science (BLS) - 3cr.
- ADVS2200 - Anatomy and Physiology of Animals - 3cr.
- ADVS3000 - Animal Health and Hygiene - 3cr.
- ADVS3200 - Ethical Issues in Genetic Engineering and Biotechnology (DSC) - 3cr. (Inactive)
- ADVS4200 - Physiology of Reproduction and Lactation (CI) - 4cr.
- ADVS4250 - Internship in Animal Industry - 1cr.
  OR ADVS4800 - Undergraduate Research or Creative Opportunity - 1cr.
- ADVS5160 - Methods in Biotechnology: Cell Culture - 3cr. (Inactive)
- ADVS5260 - Methods in Biotechnology: Molecular Cloning - 3cr. (Inactive)
- ADVS5280 - Animal Molecular Biology - 3cr. (Inactive)
- ADVS5650 - Science Communication - 3cr.
- BIOL1610 - Biology I - 3cr.
- BIOL1615 - Biology I Laboratory - 1cr.
- BIOL1620 - Biology II (BLS) - 3cr.
- BIOL1625 - Biology II Laboratory - 1cr.
- BIOL3060 - Principles of Genetics (QI) - 3cr.
- BIOL3300 - General Microbiology - 3cr.
- CHEM1210 - Principles of Chemistry I - 4cr.
- CHEM1215 - Chemical Principles Laboratory I - 1cr.
- CHEM1220 - Principles of Chemistry II (BPS) - 4cr.
- CHEM1225 - Chemical Principles Laboratory II - 1cr.
- CHEM2310 - Organic Chemistry I - 4cr.
- CHEM2315 - Organic Chemistry Laboratory I - 1cr.
- CHEM2320 - Organic Chemistry II - 4cr.
- CHEM3700 - Introductory Biochemistry - 3cr.
- MATH1050 - College Algebra (QL) - 4cr.
- STAT2000 - Statistical Methods (QI) - 4cr.

***ADVS4250 INTERN ANIMAL INDUSTRY*, *ADVS4800 UNDERGRADUATE RESEARCH* require a minimum of 3 credits**

Directed Electives (12 credits)

Earn at least 12 credits from the following:

- ADVS3500 - Principles of Animal Nutrition - 3cr.
- ADVS3520 - Equine Nutrition and Exercise Physiology - 3cr.
- ADVS4210 - Applied Reproduction and Artificial Insemination - 2cr.
- ADVS4220 - Applied Equine Reproduction I - 3cr.
- ADVS4560 - Principles of Animal Genetics and Breeding (QI) - 3cr.
- ADVS5020 - One Health: People, Animals, and the Environment - 3cr.
- ADVS5500 - Applied Animal Nutrition - 2cr.
- ADVS5530 - Nutrient Metabolization & Utilization - 3cr.
- ADVS5630 - Endocrinology (CI) - 3cr.
- BENG2330 - Engineering Properties of Biological Materials - 3cr.
- BENG5890 - Tissue Engineering - 3cr.
- BIOL4540 - Invertebrate Zoology - 3cr.
- BIOL5150 - Immunology - 3cr.
- BIOL5210 - Cell Biology - 3cr.
- BIOL5230 - Developmental Biology - 3cr.
- BIOL5240 - Virology - 3cr.
- BIOL5600 - Comparative Animal Physiology - 3cr.
- MSLE3510 - New Venture Creation - 3cr.
- MSLE3530 - New Venture Marketing - 3cr.
- MSLE3540 - New Venture Finance - 3cr.
- MSLE3580 - New Venture Execution - 3cr.
- PHYS2110 - General Physics—Life Sciences I - 4cr.
- PHYS2120 - General Physics - Life Sciences II (BPS) - 4cr.
- PSC3500 - Structure and Function of Plants - 3cr.
- PSC3700 - Plant Propagation - 4cr.
- PSC5150 - Bioinformatics and Big Data Mining - 3cr.

Open Electives

Complete the following as needed:
Total elective credit is determined by General Education courses taken, degree type selected, additional credits earned, and any additional math or other prerequisite courses needed. Please consult your Academic Advisor for details.

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Bachelor's Degree)

Suggested Degree Maps

Degree Map Name
Suggested Degree Map - Biotechnology BS
Total Degree Map Credits
115 - 122
Degree Map Effective Catalog Year
2026 -

Degree Map Narrative

- Following is a sample four-year plan. Please note that student-specific plans may differ.
- Meet with an academic advisor to create a specific plan that best fits your academic needs.
- The student is ultimately responsible for knowing and completing all degree requirements.
- Make sure you meet the registration requirements for each class by clicking the course link and checking any prerequisites or corequisites.
- Consultation with an advisor may result in an altered plan customized for an individual student.
- Check your Degree Works for requirements and completion.

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	15	0

Requirement Select

- ADVS1050 - Animal, Dairy and Veterinary Science Academic and Career Orientation I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- ADVS1110 - Introduction to Animal Science (BLS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- BIOL1610 - Biology I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- BIOL1615 - Biology I Laboratory

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- ENGL1010 - Writing as Inquiry (CL1)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- MATH1050 - College Algebra (QL)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	15	0

Requirement Select
- ADVS1060 - Animal, Dairy, and Veterinary Science Academic and Career Orientation II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- BIOL1620 - Biology II (BLS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- BIOL1625 - Biology II Laboratory

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- STAT2000 - Statistical Methods (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- Breadth American Institutions (BAI) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Breadth Humanities (BHU) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	15 - 16	0

Requirement Select

- CHEM1210 - Principles of Chemistry I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- CHEM1215 - Chemical Principles Laboratory I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- ENGL2010 - Research and Argument Across Perspectives (CL2)

  OR
- ENGL2020 - Professional Communication (CL2)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Breadth Social Sciences (BSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Breadth Creative Arts (BCA) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- General elective course (1 credit) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	12 - 16	0

Requirement Select

- ADVS2200 - Anatomy and Physiology of Animals

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- CHEM1220 - Principles of Chemistry II (BPS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- CHEM1225 - Chemical Principles Laboratory II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- Depth Social Sciences (DSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	0 - 4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- General elective course (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Fall	14	0

Requirement Select

- ADVS3000 - Animal Health and Hygiene

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- ADVS5650 - Science Communication

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- BIOL3060 - Principles of Genetics (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- CHEM2310 - Organic Chemistry I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- CHEM2315 - Organic Chemistry Laboratory I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Spring	12 - 14	0

Requirement Select

- ADVS3200 - Ethical Issues in Genetic Engineering and Biotechnology (DSC) (Inactive)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- ADVS5160 - Methods in Biotechnology: Cell Culture (Inactive)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- CHEM2320 - Organic Chemistry II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- Depth Humanities and Creative Arts (DHA) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1 - 3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- General elective course (1 credit) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Fall	16	0

Requirement Select

- ADVS4200 - Physiology of Reproduction and Lactation (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- ADVS4250 - Internship in Animal Industry
  OR
- ADVS4800 - Undergraduate Research or Creative Opportunity

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	1 - 12
Clinical	-
Criticality	No

Requirement Select

- ADVS5260 - Methods in Biotechnology: Molecular Cloning (Inactive)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Directed elective course (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Directed elective course (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- 3 credits are required for either ADVS4250 or ADVS4800 (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Spring	16	0

Requirement Select

- ADVS5280 - Animal Molecular Biology (Inactive)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- BIOL3300 - General Microbiology

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- CHEM3700 - Introductory Biochemistry

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Directed elective course (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Directed elective course (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Program Learning Outcomes

Program Learning Outcomes

https://www.usu.edu/oda/assessment/

Biotechnology - Certificate

Program Overview

College	Department	Program Level
College of Agriculture & Natural Resources	Animal, Dairy & Veterinary Sciences	Undergraduate

About this Degree

(More information to come)

Program Requirements

Total Credits Required In Program Coursework	Total Credits Required To Earn This Credential
-	-

Biomedical Sciences - MS

Program Overview

College	Department	Program Level
College of Veterinary Medicine	Veterinary Clinical & Life Sciences	Graduate

About this Degree

Program Contact:

Chris Davies, PhD, DVM
Associate Dean for Research; College of Veterinary Medicine
Associate Professor, Graduate Program Director; Department of Veterinary Clinical and Life Sciences
chris.davies@usu.edu; 435-797-1900

Rebekah Pratt
Graduate Program Coordinator; Department of Veterinary Clinical and Life Sciences
rebekah.pratt@usu.edu; 435-797-1762

Program Description

The Department of Veterinary Clinical and Life Sciences offers a graduate program that confers the Master of Science degree in Biomedical Sciences. Students will primarily engage in research focused on understanding animal diseases and the improvement of animal and human health.

Guided by mentors, students in the program work on basic, translational, and clinical research projects that include laboratory, clinical and field studies, and learn skills in preparation for careers as biomedical scientists. Graduates in Biomedical Sciences have a wide variety of employment options in industry, government, and academia.

NOTE: Students who are seeking a **Doctor of Veterinary Medicine (DVM)** should see the Doctor of Veterinary Medicine - DVM program catalog page for more information.

Admission Requirements for this Program

Prerequisites Required for Admission

Prior to applying for an MS in the Biomedical Sciences Program, a student **must** identify a graduate faculty member within the Department of Veterinary Clinical and Life Sciences willing to serve as their major professor. However, identifying a mentor **does not** guarantee acceptance into the Biomedical Sciences Program.

Prospective graduate students should send faculty members they are interested in working with an email including:

- A cover letter detailing your research interests and why your career goals align with their work.
- A current CV/Resume
- Unofficial university transcripts (Official transcripts from all credit-granting institutions indicating a bachelor's, master's or health professional doctorate degree that is or will be completed before matriculating from an accredited U.S. college or university or a similarly recognized international university will be required at a later time.)

Department of Veterinary Clinical and Life Sciences Admissions Policies

Prerequisite Courses Required or their equivalents (No grades of C- or lower)

1. **Earn a minimum grade of C in the following:**
    - BIOL1610 BIOLOGY I
    - BIOL1620 BIOLOGY II (BLS)
    - CHEM1210 PRIN OF CHEMISTRY I
    - CHEM1215 CHEMICAL PRINCIPLES LAB I
    - CHEM1220 PRIN OF CHEMISTRY II (BPS)
    - CHEM1225 CHEMICAL PRINCIPLES LAB II
    - MATH1050 COLLEGE ALGEBRA (QL)
    - STAT2000 STATISTICAL METHODS (QI)
2. Overall GPA 3.0
    - Calculated with primary consideration on the last 60 semester credits of the most recent degree program.
3. Three letters of recommendation
4. Statement of personal and career goals
5. International students – proof of English proficiency (TOEFL or IELTS)
    - Admissions Policies | Grad School | USU See School of Graduate Studies website for required scores and requirements based on country.
6. Students must also meet all School of Graduate Studies requirements for admission. View the School of Graduate Studies Catalog and the School of Graduate Studies webpage to learn more about their requirements and how to apply.

*Applications are taken on a rolling basis. However, to be considered for a departmental teaching assistantship, your completed application must be received by the School of Graduate Studies by **March 1** for the following fall semester.*

Please note: Graduate student stipends are dependent on the continued availability of funding.

Program Requirements

Total Credits Required In Program Coursework	Total Credits Required To Earn This Credential
30	30

Simple Requisites

Program Requirements

Department of Veterinary Clinical and Life Sciences MS Program Policies

- **Degree Verification:** A bachelor's degree from an accredited U.S. college or university or a similarly recognized international university is required for admission to and completion of a graduate program. An official transcript must be sent directly to the School of Graduate Studies.
- **Overall Graduate GPA at least 3.0 and no grades of C- or lower:** Graduate students are required to maintain at least a 3.0 GPA for degree-program courses. Grades of C- or lower will not be accepted for a graduate degree.
- **Course Number Acceptability:** Credits in the following areas are not acceptable: foreign languages, continuing graduate advisement, individual home study, military science, and courses numbered below 6000. No more than 12 credits of 5000-level courses will be accepted as part of the program of study.
- **Matriculation Start Semester:** A master's degree must be completed within 6 years of entering the degree program. Additional time may be requested by the student's committee and submitted to the Vice Provost of Graduate Studies for review.
- **Course Validity:** Coursework over 8 years old at the time of degree completion may not be used for a graduate degree unless it is revalidated.

- **Residency:** At least 24 semester credits must be from Utah State University.
    1. Non-residents of Utah who are eligible to apply for Utah residency must apply for Utah residency upon completion of their first year of the program in order to qualify for in-state tuition. All forms must be submitted prior to the beginning of the semester (August 1 for Fall Semester and December 1 for Spring Semester). Failure to apply for residency will result in the student being financially responsible for paying the difference between in-state and out-of-state tuition (more than $6,000 per semester).
- **Thesis Defense:** The following are required to fully complete your thesis defense:
    1. Approval of your thesis proposal by your committee.
    2. A successful formal thesis defense.
    3. Submission of the thesis to the library. The thesis must meet the School of Graduate Studies and VCLS Department requirements.
- **Master's Forms:** All graduate students must submit the following School of Graduate Studies forms and fulfill requirements for their chosen plan:

1. Supervisory Committee (Due by the end of the student's **second semester**).
2. Program of Study (Due before the end of the student's **second semester**).
3. Thesis Proposal Approval.
4. Appointment for Examination.
    - Submit at least 10 days before your scheduled defense.
5. Defense
    - A student must advertise at least 2 weeks prior to their defense date. See graduate program coordinator for advertising assistance.
    - See School of Graduate Studies deadlines for final defense completion dates and finalized paperwork submission dates to the library for successful graduation within the same semester.
6. After the Defense Forms:
    - Record of Examination (submitted by GPC)
    - Authorship & Copyright
    - Format and Style
    - Title Page
7. School of Graduate Studies and library thesis review and approval.
8. Graduation Registration

MS Plan - A Thesis (30 credits)

Type
Completion Requirement

MS Plan - A Thesis Course Requirements

Please refer to the School of Graduate Studies Catalog for general MS program requirements and policies.

See the following:
Veterinary Clinical and Life Sciences MS Course Policies
Required Credits

- Minimum Total Credits: 30
- Minimum Course Credits: 15-24
- Minimum Research Credits: 6-15 (maximum of 15 research credits applied to Program of Study)

Required Courses (4 credits)

Type
Completion Requirement

Required Courses

VCLS6100 BIOMED LIFE SCI SEMINAR SERIES is offered each fall semester. VCLS6800 BIOMED LIFE SCI GRADUATE SEM is offered each spring semester. Enrollment is expected every semester while enrolled in the program. Exceptions must be approved by the major professor and the course director.

Complete ALL of the following Courses:

- VCLS6100 - Biomedical and Life Sciences Seminar Series - 1cr.
- VCLS6800 - Biomedical and Life Sciences Graduate Seminar - 1cr.

Thesis Research Credits (6-15 credits)

Type
Completion Requirement

Thesis Research Credits

The semesters during which a student registers for thesis credit should correspond as closely as possible to the semesters in which the thesis work is done, and faculty supervision is provided. A student must register for at least 3 thesis credits the semester of their final defense.

Complete ALL of the following Courses:

- VCLS6970 - Veterinary Clinical and Life Sciences Research and Thesis - 1cr.

Elective Courses (11-20 credits)

Type
Completion Requirement

Elective Courses

This is a list of courses historically taken by students in the program and is not a comprehensive list of courses available to graduate students. If a graduate student is interested in taking a course in the Doctor of Veterinary Medicine program, please contact the graduate program coordinator in the Veterinary Clinical and Life Sciences Department for more information. A graduate student should consult with their major professor and supervisory committee to identify appropriate courses directly related to their master's degree. All coursework must be approved by the student's supervisory committee via their program of study.

Complete ANY of the following Courses:

- VCLS6130 - Biomedical Sciences: Cell Culture - 3cr.
- VCLS6200 - Research Animal Anatomy and Physiology - 3cr.
- VCLS6210 - Principles of Pharmacology and Toxicology - 3cr.
- VCLS6220 - Mechanisms of Disease - 3cr.
- VCLS6230 - Biomedical Sciences: Molecular Techniques - 3cr.

- VCLS6900 - Special Topics in Biomedical Sciences - 1cr.
- VCLS7101 - Cell Biology and Metabolism - 3cr.
- VCLS7132 - General Pathology - 3cr.
- VCLS7142 - Agents of Infection and Immunity - 3cr.
- VCLS7162 - Fundamentals of Pharmacology - 1cr.
- VCLS7602 - Leadership Principles for Biomedical Scientists and Veterinarians - 1cr.
- ADVS6630 - Endocrinology - 3cr.
- ADVS6650 - Science Communication - 3cr.
- BENG6890 - Tissue Engineering - 3cr.
- BIOL5240 - Virology - 3cr.
- BIOL6020 - Cellular and Molecular Neuroscience - 3cr.
- BIOL6600 - Comparative Animal Physiology - 3cr.
- BIOL7110 - Cognitive Neuroscience - 3cr.
- BIOL7140 - Methods in Neuroscience - 3cr.
- CHEM5700 - General Biochemistry I - 3cr.
- CHEM6720 - Principles of Enzymology I - 1cr.
- PSC6150 - Bioinformatics and Big Data Mining - 3cr.
- STAT6200 - Analysis of Designed Experiments - 3cr.
- STAT6500 - Biostatistics Methods - 3cr.

Program Learning Outcomes

Program Learning Outcomes

https://www.usu.edu/oda/assessment/

Biomedical Sciences Graduate Program Goals 5-14-25 (approved)

1. **Discipline-specific conceptual knowledge:** Demonstrate a broad-based and cross-disciplinary understanding of foundational and emerging knowledge within their field, along with detailed expertise in a specific research area. Critically assess knowledge gaps, conflicts, limitations, and challenges within their research area to develop and refine testable hypotheses.
2. **Research skills:** Demonstrate expertise in designing, conducting and critically interpreting hypothesis-driven research using appropriate established and advanced methodologies and techniques relevant to their field. Further, demonstrate expertise in troubleshooting, and technical execution to contribute original knowledge to their field, while adhering to research ethics and safety standards.
3. **Ethics and Integrity:** Apply, model, and uphold ethics, and integrity in all aspects of research practice, professional conduct, and mentorship, including data management, publication, peer review, authorship, and the ethical treatment of human and animal subjects. Identify, evaluate, and address ethical challenges in research and academic environments.
4. **Communication skills:** Effectively communicate complex scientific concepts, research findings, and their implications through oral, written (including publications and grant proposals), and visual formats. Tailor communication for a range of audiences, including the scientific community, interdisciplinary collaborators, and the public. Demonstrate strong listening skills and engage in constructive, critical scientific dialogue.
5. **Professionalism:** Demonstrate professionalism by adhering to accepted standards within the workplace and relevant professional contexts. Manage conflicts of interest, uphold ethical principles, and contribute to the advancement of the field through public service, peer review, and interdisciplinary collaborations. Engage respectfully with peers, mentors, and collaborators, and foster a positive and supportive professional environment through leadership and mentorship.
6. **Leadership, management, and collaboration:** Demonstrate leadership, management, and collaboration skills by leading research projects, setting expectations and goals, managing project resources, and facilitating effective teamwork. Demonstrate competencies in conflict resolution, mentoring, giving and receiving constructive feedback, and building resilient teams. Pursue leadership opportunities within institutional, regional, and national professional communities to contribute to the advancement of their field.
7. **Professional development:** Demonstrate awareness of varied career pathways and actively engage in strategic, ongoing professional development. Maintain a commitment to continuous learning and skill acquisition aligned with long-term professional goals. Identify and reflect on personal strengths, values, and areas for growth. Build and maintain a broad professional network and pursue opportunities that enhance career readiness. Articulate a professional identity and career plan informed by an understanding of career options, employer expectations, and personal aspirations.
8. **Personal development:** Exhibit emotional resilience and self-awareness in balancing career aspirations with personal well-being. Effectively manage time, stress, and work-life balance while seeking support when needed. Demonstrate positive thinking styles, confidence, and perseverance in achieving long-time goals. Engage with the community to enhance personal and professional growth.

Biomedical Sciences - PhD

Program Overview

College	Department	Program Level
College of Veterinary Medicine	Veterinary Clinical & Life Sciences	Graduate

About this Degree

Program Contact:

Chris Davies, PhD, DVM
Associate Dean for Research; College of Veterinary Medicine
Associate Professor, Graduate Program Director; Department of Veterinary Clinical and Life Sciences
chris.davies@usu.edu; 435-797-1900

Rebekah Pratt
Graduate Program Coordinator; Department of Veterinary Clinical and Life Sciences
rebekah.pratt@usu.edu; 435-797-1762

Program Description

The Department of Veterinary Clinical and Life Sciences offers a graduate program that confers the Doctor of Philosophy degree in Biomedical Sciences. Students will primarily engage in research which deals with the understanding of animal diseases, and the improvement of animal and human health.

Guided by mentors, students in the program work on basic, translational, and clinical research projects that include laboratory, clinical and field studies, and learn skills that prepare them for careers as biomedical scientists. Graduates in Biomedical Sciences have a wide variety of employment options in industry, government and academia.

NOTE: Students who are seeking a **Doctor of Veterinary Medicine-DVM** should see the Doctor of Veterinary Medicine - DVM program catalog page for more information.

Admission Requirements for this Program

Prerequisites Required for Admission:

Prior to applying for a PhD in the Biomedical Sciences Program, a student **must** identify a graduate faculty member within the Department of Veterinary Clinical and Life Sciences willing to serve as their major professor. However, identifying a mentor **does not** guarantee acceptance into the Biomedical Sciences Program.

Prospective graduate students should send faculty members they are interested in working with an email including:

- A cover letter detailing your research interests and why your career goals align with their work.
- A current CV/Resume
- Unofficial university transcripts (Official transcripts from all credit-granting institutions indicating a bachelor's, master's or health professional doctorate degree that is or will be completed before matriculating from an accredited U.S. college or university or a similarly recognized international university will be required later.)

Department of Veterinary Clinical and Life Sciences Admissions Policies

Prerequisite Courses Required or their equivalents (No grades of C- or lower)

1. **Earn a minimum grade of C in the following:**
    - BIOL1610 BIOLOGY I
    - BIOL1620 BIOLOGY II (BLS)
    - CHEM1210 PRIN OF CHEMISTRY I
    - CHEM1215 CHEMICAL PRINCIPLES LAB I
    - CHEM1220 PRIN OF CHEMISTRY II (BPS)
    - CHEM1225 CHEMICAL PRINCIPLES LAB II
    - MATH1050 COLLEGE ALGEBRA (QL)
    - STAT2000 STATISTICAL METHODS (QI)
2. Overall GPA 3.0
    - Calculated with primary consideration on the last 60 semester credits of the most recent degree program.
3. Three letters of recommendation
4. Statement of personal and career goals
5. International students – proof of English proficiency (TOEFL or IELTS)
    - Admissions Policies | Grad School | USU See School of Graduate Studies website for required scores and requirements based on country.
6. Students must also meet all School of Graduate Studies requirements for admission. View the School of Graduate Studies Catalog and the School of Graduate Studies webpage to learn more about their requirements and how to apply.

*Applications are taken on a rolling basis. However, to be considered for a departmental teaching assistantship, your completed application must be received by the School of Graduate Studies by **March 1** for the following fall semester.*

Please note: Graduate student stipends are dependent on the continued availability of funding.

Program Requirements

Total Credits Required In Program Coursework	Total Credits Required To Earn This Credential
70	70

Simple Requisites

Program Requirements

Department of Veterinary Clinical and Life Sciences PhD Program Policies

- **Degree Verification:** A bachelor's degree from an accredited U.S. college or university or a similarly recognized international university is required for admission to and completion of a graduate program. An official transcript must be sent directly to the School of Graduate Studies.
- **Overall Graduate GPA at least 3.0 and no grades of C- or lower:** Graduate students are required to maintain at least a 3.0 GPA for degree-program courses. Grades of C- or lower will not be accepted for a graduate degree.
- **Course Number Acceptability:** Credits in the following areas are not acceptable: foreign languages, continuing graduate advisement, individual home study, military science, and courses numbered below 6000. No more than 12 credits of 5000-level courses will be accepted as part of the program of study.
- **Matriculation Start Semester:** A doctoral degree must be completed within 8 years of entering the degree program. Additional time may be requested by the student's committee and submitted to the Vice Provost of Graduate Studies for review.
- **Course Validity:** Coursework over 8 years old at the time of degree completion may not be used for a graduate degree unless it is revalidated.

- **Residency:** At least 30 semester credits must be from Utah State University.
    1. Non-residents of Utah who are eligible to apply for Utah residency must apply for Utah residency upon completion of their first year of the program in order to qualify for in-state tuition. All forms must be submitted prior to the beginning of the semester (August 1 for Fall Semester and December 1 for Spring Semester). Failure to apply for residency will result in the student being financially responsible for paying the difference between in-state and out-of-state tuition (more than $6,000 per semester).
- **Dissertation Defense:** The following are required to fully complete your dissertation:
    1. Submission of a dissertation proposal
    2. Completion of a comprehensive qualifying examination
    3. A formal dissertation defense
    4. Submission of the dissertation to the library. The dissertation must meet the School of Graduate Studies and VCLS Department requirements.
- **Doctoral Forms:** All graduate students must submit the following School of Graduate Studies forms and fulfill requirements for their chosen plan:

1. Supervisory Committee (due by the end of the student's **third semester**).
2. Program of Study (due before the end of the student's **third semester**).
3. Dissertation/Project Approval.
    - A proposal and formal dissertation defense are required. The dissertation must meet the School of Graduate Studies and VCLS Department requirements.
4. Application for Candidacy (due at least 3 months before the final defense).
    - Required Completion Tasks before submitting Application for Candidacy:
    - Completion of all or most courses.
    - Successful comprehensive examinations.
    - Approval of a proposal for dissertation research
5. Submitting Application for Candidacy (*Submission of the candidacy form is a significant point in the student's program because the committee and department head thereby attest the student is ready to conduct independent dissertation research. However, successful program completion is not guaranteed.)*
    - Submit an Application for Candidacy to the School of Graduate Studies.
    - Submission must occur at least 3 months before the final defense.
    - Candidacy form must be approved by the following people:
        - All committee members
        - The department head
        - The School of Graduate Studies
        - The Office of Research
6. Appointment for Examination (Defense).
    - The defense must be scheduled and advertised at least **2 weeks** prior to the date of the defense. See graduate program coordinator for assistance.
7. After the Defense Forms:
    - Record of Examination (submitted by GPC)
    - Authorship and Copyright
    - Format and Style
    - Title Page
8. School of Graduate Studies and library review and approval.
    - After approval from the School of Graduate Studies (via email), the student will submit their final dissertation to the graduate program coordinator to submit for review.
    - Once approved, the dissertation will either be uploaded to DigitalCommons or physically submitted to the library if the student wishes to embargo their work (acceptance will be notified via email).
9. Graduation Registration

PhD-Plan A Dissertation Course Requirements with a BS Degree

Type
Completion Requirement

Required Credits – Plan A Dissertation with a BS Degree

See the following:

- Minimum Total Credits: 70
- Minimum Course Credits: 30-52
- Minimum Research Credits: 18-40 (maximum of 40 research credits applied to Program of Study)

Required Courses with BS (8-10 credits)

Type
Completion Requirement

Required Courses

VCLS6100 BIOMED LIFE SCI SEMINAR SERIES is offered each fall semester. VCLS6800 BIOMED LIFE SCI GRADUATE SEM is offered each spring semester. Enrollment is expected every semester. Exceptions must be approved by the major professor and the course director.

Complete ALL of the following Courses:

- VCLS6100 - Biomedical and Life Sciences Seminar Series - 1cr.
- VCLS6800 - Biomedical and Life Sciences Graduate Seminar - 1cr.

Dissertation Research Credits with BS (18-40 credits)

Type
Completion Requirement

Dissertation Research Credits

The semesters during which a student registers for dissertation credit should correspond as closely as possible to the semesters in which the dissertation work is done, and faculty supervision is provided. A student must register for at least 3 dissertation credits the semester of their final defense.

Complete ALL of the following Courses:

- VCLS7970 - Veterinary Clinical and Life Sciences Dissertation Research - 1cr.

Elective Courses with BS (20-44 credits)

Type
Completion Requirement

Elective Courses

This is a list of courses historically taken by students in the program and is not a comprehensive list of courses available to graduate students. If a graduate student is interested in taking a course in the Doctor of Veterinary Medicine program, please contact the graduate program coordinator in the Veterinary Clinical and Life Sciences Department for more information. A graduate student should consult with their major professor and supervisory committee to identify appropriate courses directly related to their doctoral degree. All coursework must be approved by the student's supervisory committee via their program of study.

Complete ANY of the following Courses:

- VCLS6130 - Biomedical Sciences: Cell Culture - 3cr.
- VCLS6200 - Research Animal Anatomy and Physiology - 3cr.
- VCLS6210 - Principles of Pharmacology and Toxicology - 3cr.
- VCLS6220 - Mechanisms of Disease - 3cr.
- VCLS6230 - Biomedical Sciences: Molecular Techniques - 3cr.
- VCLS6900 - Special Topics in Biomedical Sciences - 1cr.
- VCLS7101 - Cell Biology and Metabolism - 3cr.
- VCLS7132 - General Pathology - 3cr.
- VCLS7142 - Agents of Infection and Immunity - 3cr.
- VCLS7162 - Fundamentals of Pharmacology - 1cr.
- VCLS7602 - Leadership Principles for Biomedical Scientists and Veterinarians - 1cr.
- VCLS7680 - Seminar in Veterinary Pathology and Histopathology - 3cr.
- ADVS6630 - Endocrinology - 3cr.
- ADVS6650 - Science Communication - 3cr.
- BENG6890 - Tissue Engineering - 3cr.
- BIOL6020 - Cellular and Molecular Neuroscience - 3cr.
- BIOL6600 - Comparative Animal Physiology - 3cr.
- BIOL7110 - Cognitive Neuroscience - 3cr.
- BIOL7140 - Methods in Neuroscience - 3cr.
- CHEM5700 - General Biochemistry I - 3cr.
- CHEM6720 - Principles of Enzymology I - 1cr.
- PSC6150 - Bioinformatics and Big Data Mining - 3cr.
- STAT6200 - Analysis of Designed Experiments - 3cr.
- STAT6500 - Biostatistics Methods - 3cr.

PhD-Plan A Dissertation Course Requirements with an MS/DVM/Other Health Professional Doctorate Degree

Type
Completion Requirement

Required Credits – Plan A Dissertation with an MS/DVM/Other Health Professional Doctorate Degree

See the following:

- Minimum Total Credits: 42
- Minimum Course Credits: 15-30
- Minimum Research Credits: 12-27 (maximum of 27 research credits applied to Program of Study)

Required Courses with MS/DVM (6-8 credits)

Type
Completion Requirement

Required Courses

VCLS6100 BIOMED LIFE SCI SEMINAR SERIES is offered each fall semester. VCLS6800 BIOMED LIFE SCI GRADUATE SEM is offered each spring semester. Enrollment is expected every semester. Exceptions must be approved by the major professor and the course director.

Complete ALL of the following Courses:

- VCLS6100 - Biomedical and Life Sciences Seminar Series - 1cr.
- VCLS6800 - Biomedical and Life Sciences Graduate Seminar - 1cr.

Dissertation Research Credits with MS/DVM (12-27 credits)

Type
Completion Requirement

Dissertation Research Credits

The semesters during which a student registers for dissertation credit should correspond as closely as possible to the semesters in which the dissertation work is done, and faculty supervision is provided. A student must register for at least 3 dissertation credits the semester of their final defense.

Complete ALL of the following Courses:

- VCLS7970 - Veterinary Clinical and Life Sciences Dissertation Research - 1cr.

Elective Courses with MS/DVM (7-24 credits)

Type
Completion Requirement

Elective Courses

This is a list of courses historically taken by students in the program and is not a comprehensive list of courses available to graduate students. If a graduate student is interested in taking a course in the Doctor of Veterinary Medicine program, please contact the graduate program coordinator in the Veterinary Clinical and Life Sciences Department for more information. A graduate student should consult with their major professor and supervisory committee to identify appropriate courses directly related to their doctoral degree. All coursework must be approved by the student's supervisory committee via their program of study.

Complete ANY of the following Courses:

- VCLS6130 - Biomedical Sciences: Cell Culture - 3cr.
- VCLS6200 - Research Animal Anatomy and Physiology - 3cr.
- VCLS6210 - Principles of Pharmacology and Toxicology - 3cr.
- VCLS6220 - Mechanisms of Disease - 3cr.
- VCLS6230 - Biomedical Sciences: Molecular Techniques - 3cr.
- VCLS6900 - Special Topics in Biomedical Sciences - 1cr.
- VCLS7101 - Cell Biology and Metabolism - 3cr.
- VCLS7132 - General Pathology - 3cr.
- VCLS7142 - Agents of Infection and Immunity - 3cr.
- VCLS7162 - Fundamentals of Pharmacology - 1cr.

- VCLS7602 - Leadership Principles for Biomedical Scientists and Veterinarians - 1cr.
- ADVS6630 - Endocrinology - 3cr.
- ADVS6650 - Science Communication - 3cr.
- BENG6890 - Tissue Engineering - 3cr.
- BIOL5240 - Virology - 3cr.
- BIOL6020 - Cellular and Molecular Neuroscience - 3cr.
- BIOL6600 - Comparative Animal Physiology - 3cr.
- BIOL7110 - Cognitive Neuroscience - 3cr.
- BIOL7140 - Methods in Neuroscience - 3cr.
- CHEM5700 - General Biochemistry I - 3cr.
- CHEM6720 - Principles of Enzymology I - 1cr.
- PSC6150 - Bioinformatics and Big Data Mining - 3cr.
- STAT6200 - Analysis of Designed Experiments - 3cr.
- STAT6500 - Biostatistics Methods - 3cr.

Program Learning Outcomes

Program Learning Outcomes

https://www.usu.edu/oda/assessment/

Biomedical Sciences Graduate Program Goals 5-14-25 (approved)

1. **Discipline-specific conceptual knowledge:** Demonstrate a broad-based and cross-disciplinary understanding of foundational and emerging knowledge within their field, along with detailed expertise in a specific research area. Critically assess knowledge gaps, conflicts, limitations, and challenges within their research area to develop and refine testable hypotheses.
2. **Research skills:** Demonstrate expertise in designing, conducting and critically interpreting hypothesis-driven research using appropriate established and advanced methodologies and techniques relevant to their field. Further, demonstrate expertise in troubleshooting, and technical execution to contribute original knowledge to their field, while adhering to research ethics and safety standards.
3. **Ethics and Integrity:** Apply, model, and uphold ethics, and integrity in all aspects of research practice, professional conduct, and mentorship, including data management, publication, peer review, authorship, and the ethical treatment of human and animal subjects. Identify, evaluate, and address ethical challenges in research and academic environments.
4. **Communication skills:** Effectively communicate complex scientific concepts, research findings, and their implications through oral, written (including publications and grant proposals), and visual formats. Tailor communication for a range of audiences, including the scientific community, interdisciplinary collaborators, and the public. Demonstrate strong listening skills and engage in constructive, critical scientific dialogue.
5. **Professionalism:** Demonstrate professionalism by adhering to accepted standards within the workplace and relevant professional contexts. Manage conflicts of interest, uphold ethical principles, and contribute to the advancement of the field through public service, peer review, and interdisciplinary collaborations. Engage respectfully with peers, mentors, and collaborators, and foster a positive and supportive professional environment through leadership and mentorship.
6. **Leadership, management, and collaboration:** Demonstrate leadership, management, and collaboration skills by leading research projects, setting expectations and goals, managing project resources, and facilitating effective teamwork. Demonstrate competencies in conflict resolution, mentoring, giving and receiving constructive feedback, and building resilient teams. Pursue leadership opportunities within institutional, regional, and national professional communities to contribute to the advancement of their field.
7. **Professional development:** Demonstrate awareness of varied career pathways and actively engage in strategic, ongoing professional development. Maintain a commitment to continuous learning and skill acquisition aligned with long-term professional goals. Identify and reflect on personal strengths, values, and areas for growth. Build and maintain a broad professional network and pursue opportunities that enhance career readiness. Articulate a professional identity and career plan informed by an understanding of career options, employer expectations, and personal aspirations.
8. **Personal development:** Exhibit emotional resilience and self-awareness in balancing career aspirations with personal well-being. Effectively manage time, stress, and work-life balance while seeking support when needed. Demonstrate positive thinking styles, confidence, and perseverance in achieving long-time goals. Engage with the community to enhance personal and professional growth.

Brain and Learning - Certificate

Program Overview

College
College of Education & Human Services

Department
Kinesiology and Health Science

Program Level
Undergraduate

About this Degree

Other Departments:
Instructional Technology and Learning Sciences
Psychology

This certificate will help students understand brain-based learning principles. Knowledge of these principles and their use will improve performance in any setting. Students will study how humans learn, the optimal contexts for learning, and how learning can be measured.

Program Requirements

Total Credits Required In Program Coursework
16

Total Credits Required To Earn This Credential
16

Simple Requisites

Program Requirements

2.0 GPA in coursework taken to fulfill certificate requirements.

Brain and Learning - Certificate

Type
Completion Requirement

Required Courses (9 credits)

Complete ALL of the following Courses:

- ITLS3130 - How People Learn - 3cr.
- KIN3200 - Motor Control and Learning (CI) - 3cr.
- PSY1010 - General Psychology (BSS) - 3cr.

Required Courses (4 credits)

Fulfill ANY of the following requirements:

Required Courses

Complete ALL of the following Courses:

- PSY1400 - Analysis of Behavior: Basic Principles - 3cr.
- PSY1410 - Analysis of Behavior: Basic Principles Lab - 1cr.

OR

Required Courses

Complete ALL of the following Courses:

- PSY4420 - Cognitive Psychology (DSS) - 4cr.

Elective Course (3 credits

Complete at least 1 of the following courses:

- ITLS3350 - Introduction to Computational Thinking - 3cr.
- ITLS4160 - Measuring Learning and Performance - 3cr.
- PSY3460 - Neuroscience I - 3cr.

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Undergraduate Academic or Technical Certificates)

Biological Science: Composite Teaching - BA, BS

Program Overview

College
College of Arts & Sciences

Department
Biology

Program Level
Undergraduate

About this Degree

Biology educators teach how living things work, how they interact with one another, and how they evolve. The field develops constantly, and it is important for biological science teachers to stay current. The department helps students do this by incorporating recent research results into the classroom, providing research opportunities, and inviting them to participate in research seminars and presentations.

Students will receive a **BS** by completing all required courses in their major. To receive a **BA**, students must also gain proficiency in one or more foreign languages. See Undergraduate Academic Credential Requirements for language requirements. A bachelor's degree in the Biological Science- Composite Teaching major includes: University Studies and coursework, as required by the College of Science; the Composite Teaching major; and the Secondary Teacher Education Program (STEP). Students majoring in the Biological Science-Composite Teaching major will complete courses which provide an in-depth understanding of biological principles.

The Biological Science-Composite Teaching program is fully accredited by the Utah State Office of Education.

Students desiring licensure to teach more than biology should consider completing a teaching minor in an area such as chemistry. For further information, students should contact their academic advisor.

- For more information, see the Department of Biology website.
- Admitted and current students must meet with advisor.
- For further information, students should contact Mary McFadden by email to mary.mcfadden@usu.edu.
- Log on to Degree Works to check student-specific program progress.
- The highest math requirement for this degree is MATH1210 CALCULUS I (QL) and either STAT2000 STATISTICAL METHODS (QI) or STAT3000 STATISTICS FOR SCIENTISTS (QI).

Admission Requirements for this Program

- New freshmen admitted to USU in good standing qualify for admission to this major. A cumulative 3.0 GPA is required for admission to the Secondary Teacher Education Program. Students should contact the School of Teacher Education and Leadership (TEAL) for information on additional STEP admission criteria.
- Transfer students from other institutions or other USU majors need a cumulative 3.0 GPA to be admitted into the major. They also need 30 credits of coursework to be admitted to the STEP. Students should contact academic advisor or the School of Teacher Education and Leadership (TEAL) for information on additional admission criteria.

Program Requirements

Total Credits Required In Program Coursework
83-84

Total Credits Required To Earn This Credential
120

Simple Requisites

Program Requirements

Students must complete all University Studies (General Education Requirements and University Studies Requirements) Requirements. Required coursework in mathematics, chemistry and physics will meet the Integrated Studies requirement:

- SCED3210 ED/MULTICULTR FOUND (DSS)(CI) and SCED5200 LANG/LIT/LRNG CONTENT AREA(CI) will fulfill the Communications Intensive (CI) requirement.
- STAT2000 STATISTICAL METHODS (QI) or STAT3000 STATISTICS FOR SCIENTISTS (QI) will fulfill the Quantitative Intensive (QI) requirement.
- SCED3210 ED/MULTICULTR FOUND (DSS)(CI) will fulfill the Depth Social Sciences (DSS) requirement.
- The required biology coursework will fulfill the Breadth Life Sciences (BLS) Breadth Life Sciences (BLS) requirement.
- The required chemistry coursework will fulfill the Breadth Physical Sciences (BPS) requirement.

Additional Requirements

- Students must maintain a 2.25 GPA in all Department of Biology (BIOL or PUBH prefix) courses. A grade of C or better is required in all BIOL prefix and STEP program courses.
- The pass/fail option is not acceptable for any course required for the degree, except where a course is only graded pass/fail.

Biological Science: Composite Teaching - BA, BS

Type
Completion Requirement

Required Biology Core Courses (27-29) credits

Fulfill ALL of the following requirements:

Required Courses Section 1

Complete ALL of the following Courses:

- BIOL1610 - Biology I - 3cr.
- BIOL1615 - Biology I Laboratory - 1cr.
- BIOL1620 - Biology II (BLS) - 3cr.
- BIOL1625 - Biology II Laboratory - 1cr.
- BIOL2220 - General Ecology - 3cr.
- BIOL3020 - Evolutionary Biology - 3cr.
- BIOL3060 - Principles of Genetics (QI) - 3cr.
- BIOL3090 - Molecular, Cellular, and Developmental Biology - 3cr.
- BIOL2320 - Human Anatomy - 4cr.
  OR BIOL2420 - Human Physiology - 4cr.

AND

Required Courses Section 2

Complete at least 1 of the following courses:

- BIOL3300 - General Microbiology - 3cr.
  AND BIOL3305 - General Microbiology Laboratory - 2cr.
- BIOL5210 - Cell Biology - 3cr.

Required Science Core Courses (18-19 credits)

Fulfill ALL of the following requirements:

Chemistry Content Knowledge

Complete ALL of the following Courses:

- CHEM1210 - Principles of Chemistry I - 4cr.
- CHEM1220 - Principles of Chemistry II (BPS) - 4cr.

AND

Physics Content Knowledge

Complete ALL of the following Courses:

- PHYS2110 - General Physics—Life Sciences I - 4cr.
  OR PHYS2210 - Physics for Scientists and Engineers I (QI/BPS) - 4cr.

AND

Earth Science Content Knowledge

Complete at least 1 of the following courses:

- GEO1010 - Introduction to Geology (BPS) - 3cr.
- GEO1110 - Physical Geology (BPS) - 3cr.
- GEO1360 - Planet Earth (BPS) - 3cr.
- PHYS1040 - Introductory Astronomy (BPS) - 3cr.
- PSC2000 - The Atmosphere and Weather (BPS) - 3cr.

AND

Mathematics and Statistics Content Knowledge

Complete ALL of the following Courses:

- MATH1210 - Calculus I (QL) - 4cr.
- STAT2000 - Statistical Methods (QI) - 4cr.
  OR STAT3000 - Statistics for Scientists (QI) - 3cr.

Secondary Teacher Education Program (STEP)

Type

Completion Requirement

STEP Required Courses (38 credits)

To begin the admission process to the STEP, students should see their advisor at least two semesters before they begin Level I coursework. STEP admission deadlines are March 1 for fall and October 1 for spring. For more information about secondary education requirements, visit the Secondary Education website.

For advising, please contact the Biological Science Composite Teaching Advisor or an Education and Leadership (TEAL) Secondary Education Advisor: advising.usu.edu

Complete ALL of the following Courses:

- ITLS2500 - Technology Enabled Instruction - 3cr.
- SCED3210 - Educational and Multicultural Foundations (DSS/CI) - 3cr.
- SCED3300 - Clinical Experience I - 1cr.
- SCED4300 - Clinical Experience II - 1cr.
- SCED5100 - Motivation and Classroom Management - 3cr.
- SCED5200 - Language, Literacy, and Learning in the Content Areas (CI) - 3cr.
- SCED5210 - Learning Theory, Curriculum, and Assessment - 3cr.
- SCED5820 - Science Education Teaching and Dispositions Knowledge - 3cr.
- SCED5821 - Three-Dimensional Science and Engineering Pedagogical Knowledge - 3cr.
- SPED4000 - Education of Students with Disabilities - 3cr.
- SCED5500 - Student Teaching Seminar - 2cr.
- SCED5630 - Student Teaching in Secondary Schools - 10cr.

NOTE: ITLS2500 TECHNOLOGY ENABLED INSTRUCTION may be taken prior to STEP Admission.

Additional Teaching Content Areas

See the following information:
Each additional composite teaching area will earn a level 1 licensure endorsement in that content area except computer science, which will earn a Computer Science teaching minor and certificates in Intro to Computer Science, Programming and Software Development and Web Development.

Biology ONLY (No additional credits required)

Chemistry Content Area

Complete ALL of the following Courses:

- CHEM1215 - Chemical Principles Laboratory I - 1cr.
- CHEM2300 - Principles of Organic Chemistry - 3cr.

Physics Content Area

Complete ALL of the following Courses:

- MATH1210 - Calculus I (QL) - 4cr.
- PHYS2215 - Physics for Scientists and Engineers Lab I - 1cr.
- PHYS2220 - Physics for Scientists and Engineers II (BPS/QI) - 4cr.
- PHYS2710 - Introductory Modern Physics - 3cr.

Earth Science Content Area

Complete ALL of the following Courses:

- GEO2200 - The Earth Through Time - 3cr.
- ENVS4020 - Foundations of Environmental Thought (DHA/CI) - 3cr.
- PHYS1040 - Introductory Astronomy (BPS) - 3cr.
- PSC2000 - The Atmosphere and Weather (BPS) - 3cr.
- WILD2200 - Ecology of Our Changing World (BLS) - 3cr.
  OR BIOL2220 - General Ecology - 3cr.

Computer Science Content Area

Complete ALL of the following Courses:

- CS1400 - Introduction to Computer Science--CS 1 - 4cr.
- CS1410 - Introduction to Computer Science--CS 2 (QI) - 3cr.
- CS2410 - Introduction to Event Driven Programming and GUI's - 3cr.
- CS2420 - Algorithms and Data Structures--CS 3 (QI) - 3cr.
- CS2610 - Developing Dynamic, Database-Driven Web Applications - 3cr.
- CS4350 - Computer Science Teaching Methods - 3cr.

Open Electives

Complete the following as needed:
Total elective credit is determined by General Education courses taken, degree type selected, additional credits earned, and any additional math or other prerequisite courses needed. Please consult your Academic Advisor for details.

Additional Comments:

Licensure Notification

This program typically leads to licensure and was designed to meet licensing qualifications in the state of Utah. If students wish to work in another state within the United States, they should review the qualifications for that state and the Education Licensure Compliance Table provided by School of Teacher Education and Leadership.

For more information, please contact the School of Teacher Education and Leadership at https://cehs.usu.edu/teal/

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Bachelor's Degree)

Suggested Degree Maps

Degree Map Name
Suggested Degree Map - Biological Science: Composite Teaching BA, BS
Total Degree Map Credits
105 - 109
Degree Map Effective Catalog Year
2027 -

Degree Map Narrative

- Following is a sample four-year plan. Please note that student-specific plans may differ.
- Meet with an academic advisor to create a specific plan that best fits your academic needs.
- The student is ultimately responsible for knowing and completing all degree requirements.
- Make sure you meet the registration requirements for each class by clicking the course link and checking any prerequisites or corequisites.
- Consultation with an advisor may result in an altered plan customized for an individual student.
- Check your Degree Works for requirements and completion.

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	15	0

Requirement Select

- *Students who complete the coursework for a Chemistry Teaching Minor will not need to complete the Physiology course with Lab requirement (4-5 credits) but are encouraged to do so to broaden their knowledge. See Advisor for details. **MATH 1210, STAT 2000 or STAT 3000; or a prerequisite for these courses (e.g., MATH 1050, MATH 1060, etc.) Contact advisor for details. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- A minimum grade of C or better is required for BIOL1610 and BIOL1615. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	C
Area	Major
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- BIOL1610 - Biology I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	C
Area	Major
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- BIOL1615 - Biology I Laboratory

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	C
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- CHEM1210 - Principles of Chemistry I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- University Studies or MATH Prerequisite Courses** (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	7
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	14 - 15	0

Requirement Select
- **MATH 1210, STAT 2000 or STAT 3000; or a prerequisite for these courses (e.g., MATH 1050, MATH 1060, etc.) Contact advisor for details. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- A minimum grade of C or better is required in BIOL1620 and BIOL1625. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	Major
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- BIOL1620 - Biology II (BLS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	C
Area	Major
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- BIOL1625 - Biology II Laboratory

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	C
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- CHEM1220 - Principles of Chemistry II (BPS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- University Studies or MATH Prerequisite Courses** (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	6 - 7
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	10	0

Requirement Select
- MATH1210 - Calculus I (QL)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- SCED3210 - Educational and Multicultural Foundations (DSS/CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- University Studies (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	15 - 17	0

Requirement Select
- Apply to STEP Program this semester. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- A grade of C or better is required in ITLS2500 (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	C
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- ITLS2500 - Technology Enabled Instruction

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	C
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- BIOL2320 - Human Anatomy
  OR
- BIOL2420 - Human Physiology

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- STAT2000 - Statistical Methods (QI)
  OR
- STAT3000 - Statistics for Scientists (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 4
Progress Credits	-
Contact Hours	3 - 4
Clinical	-
Criticality	No

Requirement Select
- University Studies course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2 - 3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Earth Science Content Knowledge (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Fall	11	0

Requirement Select
- BIOL3300 - General Microbiology

OR
- BIOL5210 - Cell Biology

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- PHYS2110 - General Physics—Life Sciences I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- A grade of C or better is required in SCED3300 and SCED5820. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- SCED3300 - Clinical Experience I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	C
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- SCED5820 - Science Education Teaching and Dispositions Knowledge

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	C
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Spring	13	0

Requirement Select
- A grade of C or better is required in BIOL3090, SCED5100, SCED4300, and SCED5821. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- BIOL3090 - Molecular, Cellular, and Developmental Biology

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	C
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- BIOL3060 - Principles of Genetics (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- SCED5100 - Motivation and Classroom Management

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- SCED4300 - Clinical Experience II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- SCED5821 - Three-Dimensional Science and Engineering Pedagogical Knowledge

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Fall	15 - 16	0

Requirement Select

- Apply for student teaching (October 1 deadline.) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- A grade of C or better is required for BIOL3020, SCED5200, SCED5210, and SPED4000. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- BIOL3020 - Evolutionary Biology

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	C
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- SCED5200 - Language, Literacy, and Learning in the Content Areas (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	C
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- SCED5210 - Learning Theory, Curriculum, and Assessment

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	C
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- SPED4000 - Education of Students with Disabilities

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	C
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- University Studies course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Spring	12	0

Requirement Select
- A grade of C or better is required for SCED5500 and SCED5630. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- SCED5500 - Student Teaching Seminar

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	C
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select
- SCED5630 - Student Teaching in Secondary Schools

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	C
Area	-
Actual Credits	10
Progress Credits	-
Contact Hours	10
Clinical	-
Criticality	No

Total General Education Credits	Total Major Credits
0	6
Total Minor Credits	**Total Elective Credits**
0	0

Program Learning Outcomes

Program Learning Outcomes

https://artsci.usu.edu/biology/assessment/undergraduate/biology-major

Business Education - BS

Program Overview

College
College of Agriculture & Natural Resources

Department
Applied Sciences, Technology and Education

Program Level
Undergraduate

About this Degree

Business Education combines the fundamentals of business with skill in teaching those principles to Junior High and High School students.

- For more information about Business Education, see the website.
- Admitted and current students must meet with an advisor.
- Log on to Degree Works to check student-specific program progress.
- The highest math requirement for this degree is MATH1050 COLLEGE ALGEBRA (QL)

Admission Requirements for this Program

- New freshmen: Admitted to USU in Good Standing
- Transfer students from other institutions or other programs at USU: 3.0 GPA

Program Requirements

Total Credits Required In Program Coursework
82

Total Credits Required To Earn This Credential
120

Simple Requisites

Program Requirements

It is **very important** for each student to meet with the advisor to build a successful plan based on individual needs. The advisor for this program is Caisa Shoop, who can be contacted by email at caisa.shoop@usu.edu or telephone at 435-797-4275.

In order to obtain a secondary teaching license for grades 6-12, students must complete the 35-credit Secondary Teacher Education Program (STEP), which includes one semester of student teaching in a public school. This program is administered by USU's School of Teacher Education and Leadership (TEAL) within the Emma Eccles Jones College of Education and Human Services. Student must apply to the School of TEAL the semester before taking STEP courses. This is usually the fall of their junior year. Students learn subject content through the Department of Applied Sciences, Technology, and Education and spend the last year or two studying education techniques through the STEP program. Students must earn a C or better in all major required courses and have a minimum of a 3.0 major GPA and a 2.0 overall GPA in order to graduate.

Business Education - BS (7-12 Teaching License) Course Requirements

Type
Completion Requirement

Required Courses (82-83 credits)

Complete ALL of the following Courses:

- ACCT2010 - Financial Accounting Principles - 3cr.
- BCIS1040 - Introduction to Programming - 3cr.
  OR CS1400 - Introduction to Computer Science--CS 1 - 4cr.
  OR BCIS1550 - Introduction to Python - 3cr.
- BCIS1300 - Website Design - 3cr.
- BUSN1405 - Word Processing - 2cr.
- BUSN1410 - Spreadsheet (Excel) - 2cr.
- BCIS2441 - Photoshop - 3cr.
- BUSN1021 - Personal Finance - 3cr.
  OR FCSE1350 - Financial Literacy (BSS) - 3cr.
- BUSN1091 - Business Presentations - 2cr.
- BUSN2050 - Business Law - 3cr.
- BUSN2200 - Professional Communications - 3cr.
  OR BUS3200 - Professional Communication with AI (CI) - 3cr.
- BUSN2201 - Digital Marketing Concepts - 3cr.
  OR BUSN2620 - Digital Marketing - 3cr.
- BUSN2320 - Small Business Management - CTE - 3cr.
  OR ECON3050 - Foundations of Business: Capitalism, Markets, and Innovation - 3cr.
- BSED2510 - Orientation to Business Education - 2cr.
- BSED3150 - Methods for Business Education - 3cr.
- BSED3300 - Clinical Experience I in Business Education - 1cr.
- BSED4150 - Methods of Business, Finance, and Marketing Education - 3cr.
- BSED4300 - Clinical Experience II Business Education - 1cr.
- BSED5500 - Business Education Secondary Curriculum Seminar - 2cr.
- BSED5630 - Business Education Student Teaching - 10cr.
- ECON2010 - Introduction to Microeconomics (BSS) - 3cr.
- ECON2020 - Introduction to Macroeconomics (BAI) - 3cr.
- MSLE3500 - Fundamentals of Marketing - 3cr.
- ITLS2500 - Technology Enabled Instruction - 3cr.
- SCED3210 - Educational and Multicultural Foundations (DSS/CI) - 3cr.
- SCED5100 - Motivation and Classroom Management - 3cr.
- SCED5200 - Language, Literacy, and Learning in the Content Areas (CI) - 3cr.
- SCED5210 - Learning Theory, Curriculum, and Assessment - 3cr.
  OR BSED4210 - Cognition and Evaluation of Student Learning in Career and Technical Education - 3cr.
- SPED4000 - Education of Students with Disabilities - 3cr.

Open Electives

Complete the following as needed:
Total elective credit is determined by General Education courses taken, degree type selected, additional credits earned, and any additional math or other prerequisite courses needed. Please consult your Academic Advisor for details.

Additional Comments:

Licensure Notification

This program typically leads to licensure and was designed to meet licensing qualifications in the state of Utah. If students wish to work in another state within the United States, they should review the qualifications for that state and the Education Licensure Compliance Table provided by School of Teacher Education and Leadership.

For more information, please contact the School of Teacher Education and Leadership at https://cehs.usu.edu/teal/

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Bachelor's Degree)

Suggested Degree Maps

Degree Map Name
Suggested Degree Map - Business Education, BS (7-12 Teaching License)
Total Degree Map Credits
112 - 128
Degree Map Effective Catalog Year
2027 -

Degree Map Narrative

- Following is a sample four-year plan. Please note that student-specific plans may differ.
- Meet with an academic advisor to create a specific plan that best fits your academic needs.
- The student is ultimately responsible for knowing and completing all degree requirements.
- Make sure you meet the registration requirements for each class by clicking the course link and checking any prerequisites or corequisites.
- Consultation with an advisor may result in an altered plan customized for an individual student.
- Check your Degree Works for requirements and completion.

Must have 3.0 GPA and grades of C or better in major required courses to apply to STEP program

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	14 - 15	0

Requirement Select
- BSED2510 - Orientation to Business Education

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select
- ENGL1010 - Writing as Inquiry (CL1)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Breadth Humanities (BHU) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Breadth Creative Arts (BCA) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Math course (3-4 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	14 - 16	0

Requirement Select
- BUSN1091 - Business Presentations

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select

- BUSN2050 - Business Law

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- ECON2020 - Introduction to Macroeconomics (BAI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Breadth Life Sciences (BLS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Quantitative Literacy (QL) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	C-
Area	-
Actual Credits	3 - 4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- A minimum grade of C- is required in the QL course for admission to the STEP program (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	13	0

Requirement Select

- ACCT2010 - Financial Accounting Principles

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- BCIS1300 - Website Design

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- BUSN1405 - Word Processing

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select

- BUSN2200 - Professional Communications

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- BUSN1410 - Spreadsheet (Excel)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	15 - 20	0

Requirement Select

- BUSN2201 - Digital Marketing Concepts

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- BUSN1021 - Personal Finance

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Breadth Physical Sciences (BPS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	0 - 4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Breadth Social Sciences (BSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- ECON2010 - Introduction to Microeconomics (BSS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- ENGL2010 - Research and Argument Across Perspectives (CL2)

  OR
- ENGL2020 - Professional Communication (CL2)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Fall	12 - 19	0

Requirement Select
- BCIS2441 - Photoshop

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- ECON3050 - Foundations of Business: Capitalism, Markets, and Innovation

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- ITLS2500 - Technology Enabled Instruction

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Depth Humanities and Creative Arts (DHA) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1 - 3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Quantitative Intensive (QI) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2 - 7
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Spring	16 - 17	0

Requirement Select
- CS1400 - Introduction to Computer Science--CS 1

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- SPED4000 - Education of Students with Disabilities

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- BSED3150 - Methods for Business Education

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- BSED3300 - Clinical Experience I in Business Education

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- SCED5200 - Language, Literacy, and Learning in the Content Areas (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Depth Life and Physical Sciences (DSC) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2 - 3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Fall	16	0

Requirement Select

- MSLE3500 - Fundamentals of Marketing

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- BSED4150 - Methods of Business, Finance, and Marketing Education

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- BSED4300 - Clinical Experience II Business Education

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- SCED5210 - Learning Theory, Curriculum, and Assessment
  OR
- BSED4210 - Cognition and Evaluation of Student Learning in Career and Technical Education

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- SCED5100 - Motivation and Classroom Management

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- SCED3210 - Educational and Multicultural Foundations (DSS/CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Spring	12	0

Requirement Select

- BSED5500 - Business Education Secondary Curriculum Seminar

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select

- BSED5630 - Business Education Student Teaching

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	10
Progress Credits	-
Contact Hours	10
Clinical	-
Criticality	No

Total General Education Credits	Total Major Credits
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Program Learning Outcomes

Program Learning Outcomes

https://qanr.usu.edu/aste/assessment/

Business - Minor

Program Overview

College	Department	Program Level
Jon M. Huntsman School of Business	Management	Undergraduate

About this Degree

The minor in Business is designed for non-Huntsman School majors. It provides students with the foundational knowledge and problem-solving skills of core business and management disciplines that can complement other programs of study. Advising for the minor is through the Huntsman School's FJ Management Center for Student Success in EBB 309. Students are responsible for completing prerequisite courses where applicable.

Program Requirements

Total Credits Required In Program Coursework	Total Credits Required To Earn This Credential
18-19	18-19

Simple Requisites

Program Requirements

A minimum GPA of 2.50 is required in minor courses. An overall GPA of 2.50 is required for the minor to be awarded at graduation. Courses for the minor *may not* be taken on a pass/fail basis.

Section 1

Type
Completion Requirement

Business Minor Required Courses (16 credits)

Complete ALL of the following Courses:

- ACCT2010 - Financial Accounting Principles - 3cr.
- DATA1100 - Excel for Business Analysis - 1cr.
- FIN3200 - Corporate Finance (QI) - 3cr.
- MGT3250 - Managing Human Capital - 3cr.
- MGT3700 - Operations Management - 3cr.
- MSLE3500 - Fundamentals of Marketing - 3cr.

Elective Course (2-3 credits)

Complete ANY of the following Courses:

- ACCT2020 - Managerial Accounting Principles - 3cr.
- DATA2100 - Data and Information in Business - 3cr.
- ECON2010 - Introduction to Microeconomics (BSS) - 3cr.
- MGT3100 - Organizational Behavior - 2cr.
- MGT3350 - Legal and Ethical Environment of Business - 3cr.
- MSLE3110 - Managing Organizations and People (DSS) - 3cr.
- MSLE3510 - New Venture Creation - 3cr.

Program Learning Outcomes

Program Learning Outcomes

https://huntsman.usu.edu/assessment/assessment-plan

Business - AB

Program Overview

College
College of Agriculture & Natural Resources

Department
Technology, Design & Technical Ed

Program Level
Undergraduate

About this Degree

The Associate of Business (AB) degree provides a strong foundation in general business principles, equipping students with essential skills in bookkeeping, business communication, small business management, data analysis, marketing strategies, customer engagement, professionalism, and sales. In addition to general education requirements, the program offers flexible learning options, ensuring accessibility throughout the State of Utah. Graduates will be prepared for employment in small businesses and entry-level management roles.

This degree is designed to stack with aligned technical business certificates from Utah's Technical Colleges, including programs offered at USU Blanding, USU Eastern, and USU Moab, allowing students to build on their existing credentials.

The AB degree also serves as a pathway to multiple bachelor's degree programs. Students planning to continue their education should complete the degree while incorporating specific business courses tailored to their intended bachelor's program. Early consultation with academic advisors is strongly recommended to ensure completion of the appropriate prerequisites.

Program Requirements

Total Credits Required To Earn This Credential

60

Simple Requisites

Program Requirements

Business - AB Course Requirements

Type
Completion Requirement

Economic Principles (3 credits)

Earn at least 3 credits from the following:

- APEC1600 - Natural Resources and American Economic Institutions (BAI) - 3cr.
- ECON2020 - Introduction to Macroeconomics (BAI) - 3cr.

Accounting/Bookkeeping (6 credits)

Earn at least 6 credits from the following:

- ACCT2010 - Financial Accounting Principles - 3cr.
- ACCT2020 - Managerial Accounting Principles - 3cr.
- APEC2120 - Small Firm Accounting Basics - 3cr.
- BUSN1111 - Accounting Principles - 3cr.
- BUSN2010 - Financial Accounting - 4cr.
- BUSN2020 - Managerial Accounting - 4cr.
- BUSN2800 - Computerized Accounting - 3cr.
- TEBP1000 - Basic Financial Principles - 3cr.
- TEBP1300 - Accounting I - 2cr.
- TEBP1350 - Computerized Accounting - 3cr.
- TEBP2300 - Accounting II - 2cr.
- TEBP2320 - Accounting III - 2cr.

Data/Spreadsheets (2 credits)

Earn at least 2 credits from the following:

- BUSN1410 - Spreadsheet (Excel) - 2cr.
- DATA1100 - Excel for Business Analysis - 1cr.
- DATA2100 - Data and Information in Business - 3cr.
- TEBP1140 - Spreadsheets - 2cr.

Management (6 credits)

Earn at least 6 credits from the following:

- APEC2010 - Introduction to Microeconomics (BSS) - 3cr.
- APEC2310 - Small Firm Management - 3cr.
- BUSN1010 - Business Principles (BSS) - 3cr.
- BUSN1021 - Personal Finance - 3cr.
- BUSN1310 - Introduction to Business Management - 2cr.
- BUSN2320 - Small Business Management - CTE - 3cr.
- BUSN2710 - Entrepreneurial Mindset - 3cr.
- BUSN2720 - Introduction to Project Management - 3cr.
- ECON2020 - Introduction to Macroeconomics (BAI) - 3cr.
- FCSE1021 - Personal Finance - 3cr.
- FCSE1350 - Financial Literacy (BSS) - 3cr.
- TEBP1650 - Management Principles - 2cr.
- TEBP1840 - Business Productivity - 3cr.
- TEBP2000 - Introduction to Entrepreneurship - 3cr.

Marketing (3 credits)

Earn at least 3 credits from the following:

- APEC2830 - Agribusiness Sales and Marketing - 3cr.
- BCIS1340 - Digital Video Production - 3cr.
- BUSN1091 - Business Presentations - 2cr.
- BUSN2201 - Digital Marketing Concepts - 3cr.
- BUSN2620 - Digital Marketing - 3cr.
- MSLE3200 - Adobe Graphic Design - 3cr.
- TEBP1150 - Presentations - 2cr.
- TEBP1700 - Marketing I - 3cr.
- TEIT1340 - Digital Video Production - 3cr.

Leadership and Professionalism (6 credits)

Earn at least 6 credits from the following:

- BUSN2390 - Organizational Behavior - 3cr.
- BUSN2590 - Business Ethics and Social Responsibility - 2cr.
- BUSN2200 - Professional Communications - 3cr.
  OR ENGL2020 - Professional Communication (CL2) - 3cr.
- MSLE2500 - Business for Good: Making an Impact through Social Entrepreneurship - 2cr.
- MSLE2750 - Enhancing Happiness in Your Life and Career - 3cr.
- TEBP1200 - Professionalism - 3cr.
- TEBP1500 - Business English - 1cr.
- TEBP1550 - Business Communications - 3cr.

Directed Business Electives (3 credits)

Select any additional 3 credits from the lists above or select 3 credits from the courses listed below:

Earn at least 3 credits from the following:

- BCIS1300 - Website Design - 3cr.
- BCIS2500 - Web Business - 3cr.
- BUSN1405 - Word Processing - 2cr.
- BUSN2020 - Managerial Accounting - 4cr.
- TEBP1000 - Basic Financial Principles - 3cr.
- TEBP1130 - Word Processing - 2cr.

Open Electives

Complete the following as needed:

Total elective credit is determined by General Education courses taken, degree type selected, additional credits earned, and any additional math or other prerequisite courses needed. Please consult your Academic Advisor for details.

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Associate Degrees)

Suggested Degree Maps

Degree Map Name
Suggested Degree Map - Business AB
Total Degree Map Credits
48 - 61
Degree Map Effective Catalog Year
2027 -

Degree Map Narrative

- Following is a sample four-year plan. Please note that student-specific plans may differ.
- Meet with an academic advisor to create a specific plan that best fits your academic needs.
- The student is ultimately responsible for knowing and completing all degree requirements.
- Make sure you meet the registration requirements for each class by clicking the course link and checking any prerequisites or corequisites.
- Consultation with an advisor may result in an altered plan customized for an individual student.
- Check your Degree Works for requirements and completion.

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	14 - 16	0

Requirement Select
- ENGL1010 - Writing as Inquiry (CL1)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- APEC1600 - Natural Resources and American Economic Institutions (BAI)
  OR
- ECON2020 - Introduction to Macroeconomics (BAI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- APEC2010 - Introduction to Microeconomics (BSS)
  OR
- ECON2010 - Introduction to Microeconomics (BSS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Data/Spreadsheets Course (2-3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2 - 3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Quantitative Literacy (QL) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Recommendation is to take the required QL for intended bachelor's program (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	9 - 13	0

Requirement Select

- ENGL2010 - Research and Argument Across Perspectives (CL2)
  OR
- ENGL2020 - Professional Communication (CL2)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- BUSN1010 - Business Principles (BSS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Breadth Physical Sciences (BPS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	0 - 4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Breadth Creative Arts (BCA) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	12 - 17	0

Requirement Select

- Breadth Life Sciences (BLS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Breadth Humanities (BHU) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Breadth Physical Sciences (BPS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	0 - 4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Marketing Core course (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Accounting/Bookkeeping Core course (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Leadership and Professionalism course (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	13 - 15	0

Requirement Select

- Accounting/Bookkeeping Core course (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Directed Business Elective course (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Management Core course (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Elective courses (4-6 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4 - 6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	Total Major Credits
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Program Learning Outcomes

Program Learning Outcomes

https://www.usu.edu/oda/assessment/

Business - Technical Certificate

Program Overview

College
College of Agriculture & Natural Resources

Department
Technology, Design & Technical Ed

Program Level
Undergraduate

About this Degree

The Business Technical Certificate offers foundational training that will prepare students to excel in a career in any business setting. The program fosters a strong work ethic and independent learning, where students can cultivate knowledge, practice technical skills, and develop professional work habits. Students will have the opportunity to earn industry certifications that verify technical skills and enhance credibility.

Program Requirements

Total Credits Required In Program Coursework
30

Total Credits Required To Earn This Credential
30

Simple Requisites

Program Requirements

Business - Technical Certificate Course Requirements

Type
Completion Requirement

Foundational Courses - 19 Credits

Complete ALL of the following Courses:

- TEBP1000 - Basic Financial Principles - 3cr.
- TEBP1100 - Digital Literacy - 2cr.
- TEBP1130 - Word Processing - 2cr.
- TEBP1140 - Spreadsheets - 2cr.
- TEBP1200 - Professionalism - 3cr.
- TEBP1500 - Business English - 1cr.
- TEBP1550 - Business Communications - 3cr.
- TEBP1840 - Business Productivity - 3cr.

Supplemental Courses (11 credits)

Earn at least 11 credits from the following:

- TEBP1150 - Presentations - 2cr.
- TEBP1300 - Accounting I - 2cr.
- TEBP1350 - Computerized Accounting - 3cr.
- TEBP1650 - Management Principles - 2cr.
- TEBP1700 - Marketing I - 3cr.
- TEBP2000 - Introduction to Entrepreneurship - 3cr.
- TEBP2999 - Business Externship - 1cr.
- TEBP2300 - Accounting II - 2cr.
- TEIT2500 - Web Business - 3cr.

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Undergraduate Academic or Technical Certificates)

Program Learning Outcomes

Program Learning Outcomes

- Demonstrate computer proficiency by using business software to produce complex documents with speed, efficiency, and accuracy.
- Recognize principles of leadership and management by applying them in relevant business contexts.
- Use basic financial and accounting principles to complete general accounting functions.
- Develop written, verbal, and digital communication skills by preparing clear, concise, and correct messages for a business environment.
- Practice professional skills that are vital for career development and success in the workplace.

Civil and Environmental Engineering - ME

Program Overview

College
College of Engineering

Department
Civil & Environmental Engineering

Program Level
Graduate

About this Degree

The ME degree emphasizes professional practice and coursework. Master of Engineering candidates in Civil and Environmental Engineering can specialize in a variety of emphasis areas.

Graduate students in the Department of Civil and Environmental Engineering seeking the degrees of ME, MS, or PhD are able to select an emphasis that corresponds to the program in which they are studying. These include Environmental Engineering, Fluid Mechanics and Hydraulic Engineering, Geotechnical Engineering, Transportation Engineering, Structural Engineering and Mechanics, Water Resource Engineering and Hydrology. Additionally, the Department of Civil and Environmental Engineering offers an MS or PhD degree with specialization of Climate and Adaptation Science.

Program Requirements

Total Credits Required In Program Coursework
32

Total Credits Required To Earn This Credential
32

Simple Requisites

Program Requirements

- A minimum of 30 credits of technical and scientific coursework is required as well as two semesters of seminar credit for a total of 32 credits.
- Approval of academic forms required for master's students by the School of Graduate Studies
- List of specific forms required:
  - Supervisory Committee
  - Program of Study

School of Graduate Studies Requirements

- A bachelor's degree from an accredited U. S. college or university or a similarly recognized international university is required for admission to and completion of a graduate program.
- Graduate students are required to maintain at least a 3. 0 GPA for degree-program courses. Grades of C- or lower will not be accepted for a graduate degree.
- The Program of Study for a master's degree must include at least 18-semester credits at the level of 6000 or above.
- A master's degree must be completed within six years of entering the degree program. Additional time may be requested by the student's committee and submitted to the Vice Provost of Graduate Studies for review.
- Coursework over eight years old at the time of degree completion may not be used for a graduate degree unless it is revalidated.

Section 1

Type
Completion Requirement

Course Requirements (30 credits)

30 credits of CEE-prefix courses between the levels of 5000 to 6999 approved by a committee on a Program of Study.

Required Seminar Credits (2 credits)

Complete ALL of the following Courses:

- CEE6800 - CEE Seminar - 1cr.

Two semesters of this 1 credit course are required for program completion

Program Learning Outcomes

Program Learning Outcomes

https://engineering.usu.edu/

Civil and Environmental Engineering - MS

Program Overview

College
College of Engineering

Department
Civil & Environmental Engineering

Program Level
Graduate

About this Degree

The Masters of Science (MS) degree emphasizes research, coursework and the preparation of a significant publication. For the Master of Science program, each student plans an individualized course of study with their advisor and thesis committee and can specialize in a variety of emphasis areas.

Graduate students in the Department of Civil and Environmental Engineering seeking the degrees of ME, MS, or PhD are able to select an emphasis that corresponds to the program in which they are studying. These include Environmental Engineering, Fluid Mechanics and Hydraulic Engineering, Geotechnical Engineering, Transportation Engineering, Structural Engineering and Mechanics, Water Resource Engineering and Hydrology. Additionally, the Department of Civil and Environmental Engineering offers an MS or PhD degree with specialization of Climate and Adaptation Science.

Program Requirements

Total Credits Required In Program Coursework
32-36

Total Credits Required To Earn This Credential
32-36

Simple Requisites

Program Requirements

Three program plans are available for the Civil and Environmental Engineering MS degree.

The **Plan A** Thesis requires 32 credits (minimum):

- A minimum of 24 credits of technical and scientific coursework is required, a minimum of 6 credits of Thesis Research thesis research, as well as two semesters of seminar credit for a total of 32 credits.
- Approval of academic forms required for master's students by the School of Graduate Studies
- List of specific forms required:
    - Supervisory Committee
    - Program of Study
    - Thesis/Project Approval
    - Appointment for Examination
    - Record of Examination
    - SGS and library review and approval
- The Plan A option for a master's degree requires the preparation of a thesis as well as the successful defense and submission of the thesis to the library.

The **Plan B** Report requires 32 credits (minimum):

- A minimum of 27 credits of technical and scientific coursework is required, a minimum of 3 credits of thesis research, as well as two semesters of seminar credit for a total of 32 credits.
- Approval of academic forms required for master's students by the School of Graduate Studies
- List of specific forms required:
    - Supervisory Committee
    - Program of Study
    - Appointment for Examination
    - Record of Examination
    - Committee review and library approval
- A Plan B option requires the production and defense of a report, and successful submission of the report to the library.

The **Plan C** Coursework Only requires 38 credits (minimum):

- A minimum of 36 credits of technical and scientific coursework is required as well as two semesters of seminar credit for a total of 38 credits.
- Approval of academic forms required for master's students by the School of Graduate Studies
- List of specific forms required:
- Supervisory Committee
- Program of Study

School of Graduate Studies Requirements

- A bachelor's degree from an accredited U. S. college or university or a similarly recognized international university is required for admission to and completion of a graduate program.
- Graduate students are required to maintain at least a 3. 0 GPA for degree-program courses. Grades of C- or lower will not be accepted for a graduate degree.
- The Program of Study for a master's degree must include at least 18 semester credits at the level of 6000 or above.
- A master's degree must be completed within six years of entering the degree program. Additional time may be requested by the student's committee and submitted to the Vice Provost of Graduate Studies for review.
- Coursework over eight years old at the time of degree completion may not be used for a graduate degree unless it is revalidated.

Section 1

Type
Completion Requirement

Course Requirements (30 credits)

30 credits of CEE-prefix courses between the levels of 5000 to 6999 approved by a committee on a Program of Study.

Thesis Research Credits (3-6 credits)

Complete ALL of the following Courses:

- CEE6970 - Thesis Research - 1cr.

Minimum 3 credits of CEE6970 THESIS RESEARCH for a Plan B Report and a minimum 6 credits of CEE6970 THESIS RESEARCH or a Plan A Thesis are required for program completion.

Required Seminar Credits (2 credits)

Complete ALL of the following Courses:

- CEE6800 - CEE Seminar - 1cr.

Two semesters of this 1 credit course are required for program completion.

Program Learning Outcomes

Program Learning Outcomes
https://engineering.usu.edu/

Civil and Environmental Engineering - PhD

Program Overview

College
College of Engineering

Department
Civil & Environmental Engineering

Program Level
Graduate

About this Degree
The Civil and Environmental Engineering PhD degree prepares students for professional engineering careers. The PhD degree represents high scholarly achievement demonstrated by independent research and competence in an area of specialization approved by the student's supervisory committee. For the PhD program, each student plans an individualized course of study with the assistance of their supervisory committee. The degree requires the successful completion of a comprehensive examination, as well as a proposed written dissertation, and final oral defense. Doctoral candidates in Civil and Environmental Engineering can specialize in a variety of emphasis areas.

Graduate students in the Department of Civil and Environmental Engineering seeking the degrees of ME, MS, or PhD are able to select an emphasis that corresponds to the program in which they are studying. These include Environmental Engineering, Fluid Mechanics and Hydraulic Engineering, Geotechnical Engineering, Transportation Engineering, Structural Engineering and Mechanics, Water Resource Engineering and Hydrology. Additionally, the Department of Civil and Environmental Engineering offers an MS or PhD degree with specialization of Climate and Adaptation Science.

Program Requirements

Total Credits Required In Program Coursework
42

Total Credits Required To Earn This Credential
42

Simple Requisites

Program Requirements

- 12-22 credits of technical and scientific coursework is required, a minimum of 18 credits of dissertation research, as well as two semesters of seminar credit for a total of 42 credits.
- Approval of academic forms required for doctoral students by the School of Graduate Studies
- List of specific forms required:
  - Supervisory Committee
  - Program of Study
  - Application for Candidacy
  - Appointment for Examination
  - Record of Examination
  - SGS and library review and approval
- The PhD degree requires students to pass a comprehensive exam, the preparation of a dissertation as well as the successful defense and submission of the dissertation to the library.

School of Graduate Studies Requirements

- A bachelor's degree from an accredited U.S. college or university or a similarly recognized international university is required for admission to and completion of a graduate program.

- Graduate students are required to maintain at least a 3.0 GPA for degree-program courses. Grades of C- or lower will not be accepted for a graduate degree.
- The Program of Study for a doctoral degree must include at least 18 semester credits at the level of 6000 or above.
- A doctorate must be completed within eight years of entering the degree program. Additional time may be requested by the student's committee and submitted to the Vice Provost of Graduate Studies for review.
- Coursework over eight years old at the time of degree completion may not be used for a graduate degree unless it is revalidated.

Section 1

Type
Completion Requirement

Course Requirements (40 credits)

40 credits of CEE-prefix courses between the levels of 5000 to 7999 approved by a committee on a Program of Study

Dissertation Research Credits (18-30 credits)

Complete ALL of the following Courses:

- CEE7970 - Dissertation Research - 1cr.

Minimum of 18 credits of CEE7970 DISSERTATION RESEARCH are required for program completion.

Required Seminar Credits (2 credits)

Complete ALL of the following Courses:

- CEE6800 - CEE Seminar - 1cr.

Two semesters of this 1 credit course are required for program completion.

Program Learning Outcomes

Program Learning Outcomes
https://engineering.usu.edu/

Career and Technical Education Teaching Academy - ICP

Program Overview

College
College of Agriculture & Natural Resources

Department
Applied Sciences, Technology and Education

Program Level
Undergraduate

About this Degree

The Career and Technical Education Teaching Academy - Institutional Certificate of Proficiency (CTE Teaching Academy) serves to enhance the pipeline of qualified teachers and augment the knowledge and skills of current educators in specialized areas relevant to Career and Technical Education (CTE).

The CTE Teaching Academy is a 15-credit certificate program designed to enhance inservice secondary and post secondary teachers pedagogical techniques necessary for teaching CTE subjects, focusing on competency-based education methods. This program can be pursued independently or integrated into larger academic pathways such as an Associate of Applied Science (AAS) in General Technology or a Bachelor of Science (BS) in Technology Systems.

Please see the CTE Teaching Academy website for course delivery and pathway options.

This program is intended for the following individuals:

- Professional (inservice) secondary level teachers seeking to meet licensure/endorsement requirements or to advance within their career (e.g., change lanes); or
- Post-secondary teachers seeking additional teacher training.

Not intended for undergraduate teaching majors.

Program Requirements

Total Credits Required In Program Coursework
15

Total Credits Required To Earn This Credential
15

Simple Requisites

Program Requirements

Section 1

Type
Completion Requirement

Required Courses (15 credits)

Complete ALL of the following Courses:

- ASTE5150 - Methods of Teaching Career and Technical Education - 3cr.
- ASTE5151 - Course and Curriculum Development in Career and Technical Education - 3cr.
- ASTE5152 - Evaluation and Assessment in Career and Technical Education - 3cr.
- ASTE5153 - Digital Tools for Teaching and Learning in Career and Technical Education - 3cr.
- ASTE5154 - Classroom and Laboratory Management in Career and Technical Education - 3cr.

Program Learning Outcomes

Program Learning Outcomes
https://caas.usu.edu/aste/assessment/

Career and Technical Education - PhD

Program Overview

College
College of Agriculture & Natural Resources

Department
Applied Sciences, Technology and Education

Program Level
Graduate

About this Degree
The Ph.D. program prepares candidates for academic careers in formal and nonformal settings that demand research expertise and an understanding of the theoretical foundations. Accepted applicants will work collaboratively with faculty and other students to increase their research, program development, and teaching abilities.

The Career and Technical Education (CTE) Ph.D. program is a four-year online or campus-based program. On-campus students are provided with opportunities to teach undergraduate courses and engage in place-based research. Students who engage in the program online have flexibility as they continue with their careers while earning their degree. All Ph.D. students are required to meet face-to-face on the Logan campus for a one week seminar for three consecutive summers. The summer meeting provides an opportunity for students to complete additional professional competency requirements. Most students in the program take two-three classes (6-9 credits) per semester. Students need to complete the required courses (52 credits) along with committee approved electives (8 credits). Committees may allow for changes to the required courses if students have completed similar coursework in their masters program or have experience commensurate with course objectives. Required courses are noted below. Additional program expectations and coursework requirements can be found on the department webpage.

Admission Requirements for this Program
The required documentation for the application package and admissions requirements are noted on the ASTE Graduate Admission and Application webpage, https://qanr.usu.edu/aste/graduate/graduate-program-admission.

Program Requirements

Total Credits Required In Program Coursework
60-81

Total Credits Required To Earn This Credential
60-81

Simple Requisites

Program Requirements

School of Graduate Studies General Graduation Guidelines:

Degree Verification

A bachelor's degree from an accredited U. S. college or university or a similarly recognized international university is required for admission to and completion of a graduate program.

Overall Graduate GPA

Graduate students are required to maintain at least a 3. 0 GPA for degree-program courses. Grades of C- or lower will not be accepted for a graduate degree.

Course Number Acceptability

If the student has a master's degree, a maximum of 18 credits at the level of 6000 may be used on an approved program of study in a doctoral program.

If the student does not have a master's degree, the Program of Study must include at least 30 credits at the level of 6000 or above.

A maximum of 12 credits at the 5000 level may be used on an approved program of study.

Matriculation Start Semester

A **doctorate degree** must be completed **within eight years** of entering the degree program.

- Additional time may be requested by the student's committee and submitted to the Vice Provost of Graduate Studies for review.

Coursework Validity

Coursework more than eight years old at the time of degree completion may not be used for a graduate degree unless it is revalidated.

- If permitted by the departmental or interdepartmental degree program policy, a supervisory committee may develop and submit a revalidation plan to the Vice Provost of Graduate Studies for approval.
- The plan and determination must be verified in writing and include the Vice Provost of Graduate Studies and the student's major professor or other person(s) responsible for the revalidation.
- Work experience cannot be substituted for out-of-date coursework or used for revalidation, except where that work experience can be documented to have involved the use of current knowledge and application of material currently covered in the coursework.
- Graduate credits from another institution exceeding the eight-year limit at the time of degree completion may be transferred to a Utah State University graduate degree only if the student's supervisory committee provides a justification acceptable to the Vice Provost of Graduate Studies.
    - The revalidation procedures described above apply.

Program Requirements

To complete the doctorate degree in career and technical education, **a minimum of 60 total credits (12 credits of Dissertation) is required for students with a master's degree**, or **a minimum of 81 total credits (18 credits of Dissertation) is required for students without a master's degree**. Additional requirements include:

1. Completing the required coursework and electives as approved by the student's supervisory committee.
2. Passing a written and oral comprehensive qualifying examination after completing 36 credits in the program. This exam must be satisfactorily completed before the student advances to candidacy. Advancement to candidacy also requires an approved dissertation proposal.
3. Complete and satisfactorily defending a doctoral research study directed and judged by a supervisory committee of faculty.
4. Complete the CTE PhD Professional Residency Requirements found in the ASTE CTE PhD Program Guide.

Additional Requirements

- Supervisory Committee Approval by the end of the second semester
- Program of Study submitted by the end of the third semester
- Prior to taking the comprehensive exam, students without a master's degree will need to have submitted at least two publications for peer review
- After completing 36 credits in the program, take and pass comprehensive qualifying examination outlined in the ASTE CTE PhD Program Guide
- Receive supervisory committee approval for dissertation research proposal
- Obtain regulatory approvals to conduct your proposed research including completing the Utah State University Responsible Conduct of Research course that is offered on the CITI website
- Application for Candidacy form which must be submitted **at least three months prior to the student's final defense.**
- Appointment for examination form submitted 10 days before defense and during defense semester students must be registered for at least 3 credit hours of dissertation
- Record of Examination Form
- Title Page Form
- Thesis/Dissertation format and Style and Electronic Publication Form
- Authorship and Copyright form
- Graduation application

CTE PhD Required Courses

Type
Completion Requirement

CTE PhD Required Course

52 credits for students who have earned a master's degree, 58 Credits for students who have not earned a master's degree

Earn at least 52 credits from the following:

- ASTE6090 - Curriculum Design - 3cr.
- ASTE6360 - History, Philosophy, and Policy Development in Career and Technical Education - 3cr.
- ASTE6750 - Research Methods and Design - 3cr.
- ASTE6800 - Analysis of Social Research Data - 3cr.
- ASTE6960 - Graduate Seminar - 1cr.
- ASTE7100 - Research and Academic Writing - 3cr.
- ASTE7170 - Program Planning and Evaluation Program Theory and Evaluation - 3cr.
- ASTE7200 - Qualitative Methods - 3cr.
- ASTE7310 - Theories of Teaching and Learning - 3cr.
- ASTE7370 - Grant Writing and Management - 3cr.
- ASTE7400 - Occupational Analysis and Curriculum Development - 3cr.
- ASTE7500 - Diffusion of Innovations - 3cr.
- ASTE7800 - Advanced Data Analysis - 3cr.
- ASTE7810 - Research Seminar - 1cr.
- ASTE7970 - Dissertation Research - 1cr.

- ***1 credit each summer, total 3 credits in ASTE6960 GRADUATE SEMINAR***
- ***minimum 12 Dissertation credits (ASTE7970 DISSERTATION RESEARCH) for students with a master's degree, or minimum 18 Dissertation credits for students without a master's degree***

Electives

Type
Completion Requirement

Electives

8-credits for students who have earned a master's degree, 23 Credits for students who have not earned a master's degree

Complete ANY of the following Courses:

- ASTE6160 - Foundations of Adult Education - 3cr.
- ASTE6180 - Administration and Leadership - 3cr.
- ASTE6220 - Volunteer Programs and Partnerships - 3cr.
- ASTE6300 - Advanced Teaching Strategies - 3cr.
- ASTE6315 - Career and Technical Student Organization Development - 3cr.
- ASTE6460 - Integrating Career and Tech Educ Curriculum with Science, Technology, Engineering, and Mathematics - 3cr.
- ASTE6470 - Digital Tools for Learning - 3cr.
- ASTE6920 - Communication Tools for Extension - 3cr.
- ASTE6950 - Graduate Internship - 1cr.
- ASTE7600 - The Professoriate - 2cr.
- ASTE7900 - Independent Study - 1cr.

Program Learning Outcomes

Program Learning Outcomes

https://caas.usu.edu/aste/assessment/

Computer Engineering - MS

Program Overview

College
College of Engineering

Department
Electrical & Computer Engineering

Program Level
Graduate

About this Degree

The MS degree requires substantial thesis or project work in a specific area and prepares students for advanced study or advanced work in that area. The MS degree has two options. Under Plan A, the student completes a thesis. Under Plan B, the student prepares an engineering project report.

Program Requirements

Total Credits Required In Program Coursework
30

Total Credits Required To Earn This Credential
30

Simple Requisites

Program Requirements

School of Graduate Studies Requirements

- A bachelor's degree from an accredited U.S. college or university or a similarly recognized international university is required for admission to and completion of a graduate program.
- Graduate students are required to maintain at least a 3.0 GPA for degree-program courses. Grades of C- or lower will not be accepted for a graduate degree.
- The Program of Study for master's degree must include at least 18-semester credits at the level of 6000 or above.
- A master's degree must be completed within six years of entering the program. Additional time may be requested by the student's committee and submitted to the Vice Provost of Graduate Studies for review.
- Coursework over eight years old at the time of degree completion may not be used for a graduate degree unless it is revalidated.

Master of Science (Computer Engineering)

Two program plans are available for the Computer Engineering MS degree.

The ***Plan A*** Thesis requires 30 credits (minimum). The degree is based on coursework and research and requires a formal thesis. It is designed to prepare graduates for entering a PhD program or performing research in industry or government labs.

- A minimum of 24 credits of technical and scientific coursework and at least 6 credits of ECE6970 THESIS RESEARCH, MS
- At least 12 credits (excluding ECE6970 THESIS RESEARCH, MS) in Electrical or Computer Engineering.
- No more than 6 credits of ECE6970 THESIS RESEARCH, MS can be applied to the Plan A degree.
- At least 2 sequences in Electrical or Computer Engineering or Computer Science. One of the sequences MUST be in core Computer Engineering courses. The ending course MUST be a 6000- or 7000-level course.
- No more than 12 credits of ECE 5000-level or CS 5000-level, non-ECE/CS courses may be applied towards the Plan A degree.
- Responsible Conduct of Research (RCR) Training

- Must submit School of Graduate Studies forms
    - Supervisory Committee
    - Program of Study
    - Thesis/Project Approval
    - Appointment for Exam
    - Record of Examination
    - SGS and library review approval
- The Plan A option requires the submission of a written proposal.
- The Plan A option requires the preparation of a thesis as well as the successful defense and submission of the thesis to the library.

The ***Plan B*** Report requires 30 credits (minimum). The degree is based on coursework and engineering design and requires a formal design project report. It is designed to prepare graduates for employment requiring advanced design in industry.

- A minimum of 24 credits of technical and scientific coursework and at least 3 credits of ECE6950 DESIGN PROJECT and 3 credits of ECE6970 THESIS RESEARCH, MS
- At least 12 credits (excluding ECE6950 DESIGN PROJECT and ECE6970 THESIS RESEARCH, MS) in Electrical or Computer Engineering.
- No more than 3 credits of ECE6950 DESIGN PROJECT and 3 credits of ECE6970 THESIS RESEARCH, MS and be applied to the Plan B degree.
- At least 2 sequences in Electrical or Computer Engineering or Computer Science. One of the sequences MUST be in core Computer Engineering courses. The ending course MUST be a 6000- or 7000-level course.
- No more than 12 credits of ECE 5000-level or CS 5000-level, non-ECE/CS courses may be applied towards the Plan B degree.
- Responsible Conduct of Research (RCR) Training
- Must submit School of Graduate Studies forms
    - Supervisory Committee
    - Program of Study
    - Thesis/Project Approval
    - Appointment for Exam
    - Record of Examination
    - Committee review and library approval
- The Plan B option requires the submission of a written proposal.
- The Plan B option requires the preparation of a report as well as the successful defense and submission of the report to the library.

Required Courses

Type
Completion Requirement

Plan A required courses

Complete ALL of the following Courses:

- ECE6970 - Thesis Research, MS - 1cr.

Plan B required courses

Complete ALL of the following Courses:

- ECE6950 - Design Project - 3cr.
- ECE6970 - Thesis Research, MS - 1cr.

Program Learning Outcomes

Program Learning Outcomes

https://engineering.usu.edu/

Construction Technology and Management - Technical Certificate

Program Overview

College
College of Agriculture & Natural Resources

Department
Technology, Design & Technical Ed

Program Level
Undergraduate

About this Degree

Federal Gainful Employment Information

The Construction Technology program provides a comprehensive opportunity for students to gain knowledge and skills to gain entry into the construction industry. Students are exposed to advanced skills such as building site layout, concrete, framing, interior finishes and exterior finishes. Students also gain knowledge of construction materials, blueprint reading, and estimating. Students who complete the certificate and obtain related employment have the option to continue training as apprentices in their chosen craft and receive state, national, and industry certifications.

Program Requirements

Total Credits Required In Program Coursework
30

Total Credits Required To Earn This Credential
30

Simple Requisites

Program Requirements

Construction Technology and Management Course Requirements

Type
Completion Requirement

Required Courses

Complete ALL of the following Courses:

- BCCM1010 - Building Construction Safety - 1cr.
- BCCM1150 - Basic Print Reading - 2cr.
- BCCM2010 - Framing I - 2cr.
- BCCM2030 - Framing II - 2cr.
- BCCM2080 - Concrete I - 2cr.
- BCCM2090 - Concrete II - 2cr.
- BCCM2100 - Interior Finish I - 2cr.
- BCCM2110 - Interior Finish II - 2cr.
- BCCM2170 - Exterior Finish I - 2cr.
- BCCM2180 - Exterior Finish II - 2cr.
- BCCM2240 - Construction Estimating - 3cr.
- BCCM2270 - Building Codes and Inspections - 2cr.
- BUSN1050 - Business Mathematics - 3cr.
  OR ELET1110 - Technical Mathematics - 3cr.
  OR MATH1020 - Trade Mathematics - 3cr.
- BUSN2320 - Small Business Management - CTE - 3cr.
- BUSN2200 - Professional Communications - 3cr.

Optional Facilities and Maintenance Focus

Complete ALL of the following Courses:

- BCCM2340 - Heating, Ventilating, and Air Conditioning Maintenance (HVAC) I - 2cr.
- BCCM2350 - Electrical Maintenance I - 2cr.
- HETR1640 - Hydraulic Excavator Operation - 2cr.
- BCCM2320 - Plumbing Maintenance I - 2cr.

Elective Options

These courses are designed to enhance the student's learning and give hands-on training to develop essential skills.

Complete ANY of the following Courses:

- BCCM2015 - Masonry I - 2cr.
- BCCM2120 - Building Site Layout - 2cr.
- BCCM2130 - Finish Lab - 2cr.
- BCCM2500 - Specialty Construction Lab - 2cr.
- BCCM2988 - Special Problems - 1cr.
- HETR1670 - Fork Lift Operation - 2cr.
- HETR2988 - Special Problems - 1cr.

BCCM2988 SPECIAL PROBLEMS with subjects Articulated Boom/Scissor Lift Operation

HETR2988 SPECIAL PROBLEMS with subjects Skid Steer/Compact Loader Operations

Suggested Degree Maps

Degree Map Name
Suggested Degree Map - Construction Technology and Management - Technical Certificate
Total Degree Map Credits
28 - 29
Degree Map Effective Catalog Year
0000 -

Degree Map Narrative

Program can be started both spring or fall semester. See suggested pathway to completion.

BCCM1010 BUILDING CONSTRUCTION/SAFETY is to be taken the first semester of the program, whether it be spring or fall.

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	16 - 17	0

Requirement Select

- BCCM1010 - Building Construction Safety

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- BCCM2010 - Framing I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select

- BCCM2030 - Framing II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select

- BCCM2080 - Concrete I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select

- BCCM2090 - Concrete II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select

- BCCM1150 - Basic Print Reading

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select

- BCCM2240 - Construction Estimating

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- BCCM2320 - Plumbing Maintenance I

OR

- BCCM2200 - Construction Management

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2 - 3
Progress Credits	-
Contact Hours	2 - 3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	12	0

Requirement Select

- BCCM1010 - Building Construction Safety

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- BCCM2100 - Interior Finish I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select

- BCCM2110 - Interior Finish II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select

- BCCM2170 - Exterior Finish I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select

- BCCM2180 - Exterior Finish II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select

- BUSN1050 - Business Mathematics
  OR
- ELET1110 - Technical Mathematics
  OR
- MATH1020 - Trade Mathematics

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Program Learning Outcomes

Program Learning Outcomes

https://caas.usu.edu/tdte/assessment/

Commercial Driver's License (CDL) - Class A - Technical Certificate

Program Overview

College
College of Agriculture & Natural Resources

Department
Technology, Design & Technical Ed

Program Level
Undergraduate

About this Degree
The Commercial Driver's License - Class A (CDL) program prepares students with the skills and knowledge they need to join the professional driving industry. This course fulfills Entry Level Driver Training requirements for CDL training in accordance with Part 380 of the Federal Motor Carriers Safety Regulations.

Admission Requirements for this Program
Open Entry Program

Program Requirements

Total Credits Required In Program Coursework
16

Total Credits Required To Earn This Credential
16

Simple Requisites

Program Requirements

Commercial Driver's License (CDL) - Class A Course Requirements

Type
Completion Requirement

Required Core

Complete ALL of the following Courses:

- TECD1100 - Commercial Driver's License Class A - 6cr.

Supplemental Courses

Earn at least 10 credits from the following:

- TECD1110 - Advanced Trailering Techniques - 2cr.
- TECD1120 - Dump and Trailering - 2cr.
- TECD1130 - Maintenance - 2cr.
- TECD1200 - Advanced Driving Techniques - 1cr.
- TECD1210 - Hazmat for CDL - 1cr.
- TECD1220 - School Bus/Passenger Bus Endorsement - 2cr.
- TECD1230 - Industry Safety Certifications - 2cr.
- TECD1240 - Air Brake Adjustment Certification - 1cr.

Minimum University Requirements

Minimum University Requirements
Minimum University Requirements (Undergraduate Academic or Technical Certificates)

Program Learning Outcomes

Program Learning Outcomes

- Demonstrate basic truck operating procedures.
- Demonstrate safe operating procedures.
- Learn and practice advanced operating procedures.
- Practice vehicle inspections (pre/post-trip).
- Review non-driving activities.

Chemistry - Minor

Program Overview

College	Department	Program Level
College of Arts & Sciences	Chemistry & Biochemistry	Undergraduate

Program Requirements

Total Credits Required To Earn This Credential

20

Simple Requisites

Program Requirements

In addition to CHEM1210 PRIN OF CHEMISTRY I, CHEM1215 CHEMICAL PRINCIPLES LAB I, CHEM1220 PRIN OF CHEMISTRY II (BPS), and CHEM1225 CHEMICAL PRINCIPLES LAB II, 10 additional credits in Chemistry prefix courses at the 2000 level or higher, as approved by department, are required (either CHEM2300 PRIN OF ORGANIC CHEMISTRY or CHEM2310 ORGANIC CHEMISTRY I may be included). (**Note:** Biochemistry Majors *cannot* declare a Chemistry Minor.)

No CHEM prefix course may be applied toward a minor in chemistry with an earned grade of less than C-. No CHEM prefix course may be repeated more than one time to improve the grade to a C- or better.

Section 1

Type
Completion Requirement

Required Courses (10 credits)

Earn a minimum grade of C- in the following:

- CHEM1210 - Principles of Chemistry I - 4cr.
- CHEM1215 - Chemical Principles Laboratory I - 1cr.
- CHEM1220 - Principles of Chemistry II (BPS) - 4cr.
- CHEM1225 - Chemical Principles Laboratory II - 1cr.

Section 2

Type
Completion Requirement

Select 10 credits from the following (as approved by department):

Earn at least 10 credits from the following:

- CHEM2300 - Principles of Organic Chemistry - 3cr.
  OR CHEM2310 - Organic Chemistry I - 4cr.
- CHEM2315 - Organic Chemistry Laboratory I - 1cr.
- CHEM2320 - Organic Chemistry II - 4cr.
- CHEM2325 - Organic Chemistry Laboratory II - 1cr.
- CHEM3000 - Quantitative Analysis (QI) - 3cr.
- CHEM3005 - Quantitative Analysis Laboratory - 1cr.
- CHEM3060 - Physical Chemistry I (QI) - 3cr.
- CHEM3070 - Physical Chemistry II (QI) - 3cr.
- CHEM3070 - Physical Chemistry II (QI) - 3cr.
- CHEM3510 - Intermediate Inorganic Chemistry - 2cr.
- CHEM3520 - Inorganic Chemistry Laboratory - 1cr.
- CHEM3650 - Environmental Chemistry (DSC) - 3cr.
- CHEM3700 - Introductory Biochemistry - 3cr.
- CHEM3710 - Introductory Biochemistry Laboratory - 1cr.
- CHEM5700 - General Biochemistry I - 3cr.
- CHEM5720 - General Biochemistry Laboratory II (CI) - 2cr.

NOTE:

1. CHEM5700 GENERAL BIOCHEMISTRY I cannot be taken as an elective course if CHEM3700 INTRO BIOCHEMISTRY option is taken

Program Learning Outcomes

Program Learning Outcomes

https://www.usu.edu/science/assessment/

Chemistry - BA

Program Overview

College	Department	Program Level
College of Arts & Sciences	Chemistry & Biochemistry	Undergraduate

About this Degree

Chemistry is the scientific study of matter, its properties, and interactions with other matter and with energy. It is a science applicable to a wide range of career goals, including medicine, law, physical and social sciences, engineering, and public health and policy. At USU, chemistry majors have the opportunity to conduct undergraduate research from the beginning of their studies, first as laboratory assistants and eventually moving on to their own research projects. Unique to USU, many undergraduates in the department are able to publish research papers. This gives USU students a competitive advantage should they apply for graduate programs.

Students can choose not to have an emphasis if they obtain a bachelor of arts. To receive a **BA**, students must also gain proficiency in one or more foreign languages. See Undergraduate Academic Credential Requirements for language requirements. This is an appropriate choice for students who wish to combine strong interest and preparation in chemistry with graduate study in law or business.

- For more information about Chemistry and Biochemistry, see the Department of Chemistry and Biochemistry.
- Admitted and current students must meet with the Department of Chemistry & Biochemistry Advisor.
- Log on to Degree Works to check student-specific program progress.
- The highest math requirement for this degree is MATH2250 LINEAR ALG/DIFF EQUATIONS (QI) or STAT3000 STATISTICS FOR SCIENTISTS (QI).

Admission Requirements for this Program

- New freshmen must be admitted to USU in Good Standing.
- Transfer students from other institutions or other programs at USU must have a 2.2 GPA.

Program Requirements

Total Credits Required In Program Coursework	Total Credits Required To Earn This Credential
68	123

Simple Requisites

Program Requirements

REQUIREMENTS TO REMAIN IN THIS PROGRAM:

- **CHEM prefix course grades must be C- or better.**
- **Only one repeat is allowed to earn a C- or better to stay in this major.**
- **No CHEM prefix course may be taken on a pass/fail basis, except those courses which are only taught pass/fail.**
- All candidates for graduation with a Chemistry degree must complete a department exit survey prior to approval of graduation application and completion of the program.

Additional Information

The following major coursework will fulfill some General Education or University Studies requirements:

- CHEM1220 PRIN OF CHEMISTRY II (BPS) will fulfill the Breadth Physical Sciences (BPS) requirement.
- MATH1210 CALCULUS I (QL) will fulfill the Quantitative Literacy (QL) requirement.
- PHYS2210 PHYS SCI AND ENGR I (QI)(BPS) will fulfill the Quantitative Intensive (QI) requirement.

Chemistry - BA

Type

Completion Requirement

Chemistry Major Requirements (68 credits)

Complete ALL of the following Courses:

- CHEM1210 - Principles of Chemistry I - 4cr.
- CHEM1215 - Chemical Principles Laboratory I - 1cr.
- CHEM1220 - Principles of Chemistry II (BPS) - 4cr.
- CHEM1225 - Chemical Principles Laboratory II - 1cr.
- CHEM1990 - Introduction to the Chemistry and Biochemistry Professions - 1cr.
- CHEM2310 - Organic Chemistry I - 4cr.
- CHEM2315 - Organic Chemistry Laboratory I - 1cr.
- CHEM2320 - Organic Chemistry II - 4cr.
- CHEM2325 - Organic Chemistry Laboratory II - 1cr.
- CHEM3000 - Quantitative Analysis (QI) - 3cr.
- CHEM3005 - Quantitative Analysis Laboratory - 1cr.
- CHEM3060 - Physical Chemistry I (QI) - 3cr.
- CHEM3070 - Physical Chemistry II (QI) - 3cr.
- CHEM3090 - Physical Chemistry Laboratory (CI) - 2cr.
- CHEM3510 - Intermediate Inorganic Chemistry - 2cr.
- CHEM3520 - Inorganic Chemistry Laboratory - 1cr.
- CHEM3700 - Introductory Biochemistry - 3cr.
  OR CHEM5700 - General Biochemistry I - 3cr.
- CHEM4990 - Undergraduate Seminar (CI) - 2cr.
- CHEM5520 - Advanced Inorganic Chemistry - 2cr.
  OR CHEM5640 - Instrumental Analysis - 3cr.
- MATH1210 - Calculus I (QL) - 4cr.
- MATH1220 - Calculus II (QL) - 4cr.
- MATH2210 - Multivariable Calculus (QI) - 3cr.
- MATH2250 - Linear Algebra and Differential Equations (QI) - 4cr.
  OR STAT3000 - Statistics for Scientists (QI) - 3cr.
- PHYS2210 - Physics for Scientists and Engineers I (QI/BPS) - 4cr.
- PHYS2215 - Physics for Scientists and Engineers Lab I - 1cr.
- PHYS2220 - Physics for Scientists and Engineers II (BPS/QI) - 4cr.
- PHYS2225 - Physics for Scientists and Engineers Lab II - 1cr.

Bachelor of Arts Course Requirements

Students desiring a Bachelor of Arts (BA) degree must complete the language proficiency requirements in one of the following ways:

Complete the following:

- Demonstration of proficiency in *one* foreign language by successful completion of one course at the 2020-level or higher (or its equivalent) **OR**

- Demonstration of proficiency in American Sign Language by successful completion of American Sign Language IV (ASL4920 AMERICAN SIGN LANGUAGE IV) and Socio-Cultural Aspects of Deafness (ASL4780 DEAF CULTURE), and by passing an exit interview **OR**
- Demonstration of proficiency in *two* foreign languages by successful completion of the 1020 course level in one language ***and*** the 2010 course level in the second language (or its equivalent) **OR**
- Completion of an upper-division (3000-level or higher) foreign language grammar or literature course requiring the 2020 course level (or its equivalent) as a prerequisite. Conversation courses *cannot* be considered for satisfying this requirement.

Open Electives

Complete the following as needed:
Total elective credit is determined by General Education courses taken, degree type selected, additional credits earned, and any additional math or other prerequisite courses needed. Please consult your Academic Advisor for details.

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Bachelor's Degree)

Suggested Degree Maps

Degree Map Name
Suggested Degree Map - Chemistry BA
Total Degree Map Credits
122 - 128
Degree Map Effective Catalog Year
2026 -

Degree Map Narrative

- Following is a sample four-year plan. Please note that student-specific plans may differ.
- Meet with an academic advisor to create a specific plan that best fits your academic needs.
- The student is ultimately responsible for knowing and completing all degree requirements.
- Make sure you meet the registration requirements for each class by clicking the course link and checking any prerequisites or corequisites.
- Consultation with an advisor may result in an altered plan customized for an individual student.
- Check your Degree Works for requirements and completion.

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	15 - 16	0

Requirement Select
- Grade of C- or better in CHEM 1210 and CHEM 1215. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- CHEM1210 - Principles of Chemistry I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- CHEM1215 - Chemical Principles Laboratory I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- MATH1210 - Calculus I (QL)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- CHEM1990 - Introduction to the Chemistry and Biochemistry Professions

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- University Studies or Foreign Language courses (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	5 - 6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	15	0

Requirement Select

- Grade of C- or better in CHEM 1220 and CHEM 1225. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- CHEM1220 - Principles of Chemistry II (BPS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	C-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- CHEM1225 - Chemical Principles Laboratory II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	C-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- MATH1220 - Calculus II (QL)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- University Studies or Foreign Language courses (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	17	0

Requirement Select

- CHEM2310 - Organic Chemistry I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	C-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- CHEM2315 - Organic Chemistry Laboratory I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	C-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- CHEM3000 - Quantitative Analysis (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	C-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- CHEM3005 - Quantitative Analysis Laboratory

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	C-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- PHYS2210 - Physics for Scientists and Engineers I (QI/BPS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- PHYS2215 - Physics for Scientists and Engineers Lab I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- MATH2210 - Multivariable Calculus (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	15 - 16	0

Requirement Select
- CHEM2320 - Organic Chemistry II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	C-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- CHEM2325 - Organic Chemistry Laboratory II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	C-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- CHEM3510 - Intermediate Inorganic Chemistry

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	C-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select
- CHEM3520 - Inorganic Chemistry Laboratory

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	C-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- PHYS2220 - Physics for Scientists and Engineers II (BPS/QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- PHYS2225 - Physics for Scientists and Engineers Lab II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- University Studies courses (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2 - 3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Fall	15 - 17	0

Requirement Select
- CHEM3060 - Physical Chemistry I (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	C-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- CHEM3700 - Introductory Biochemistry
  OR
- CHEM5700 - General Biochemistry I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	C-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- MATH2250 - Linear Algebra and Differential Equations (QI)
  OR
- STAT3000 - Statistics for Scientists (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 4
Progress Credits	-
Contact Hours	3 - 4
Clinical	-
Criticality	No

Requirement Select

- University Studies or Foreign Language courses (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	6 - 7
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Grade of C- or better in all CHEM courses. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Spring	15 - 17	0

Requirement Select

- CHEM3070 - Physical Chemistry II (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	C-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- CHEM3090 - Physical Chemistry Laboratory (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	C-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select

- CHEM5520 - Advanced Inorganic Chemistry
  OR
- CHEM5640 - Instrumental Analysis

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	C-
Area	-
Actual Credits	2 - 3
Progress Credits	-
Contact Hours	2 - 3
Clinical	-
Criticality	No

Requirement Select

- CHEM5650 - Instrumental Analysis Laboratory

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	C-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select

- University Studies or Foreign Language courses (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	6 - 7
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Grade of C- or better in all CHEM courses. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Fall	15	0

Requirement Select

- CHEM4990 - Undergraduate Seminar (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select

- University Studies or Foreign Language courses (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	13
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Grade of C- or better in all CHEM courses. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Spring	15	0

Requirement Select

- University Studies or Foreign Language courses (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	15
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Program Learning Outcomes

Program Learning Outcomes

https://artsci.usu.edu/chem-biochem/assessment/undergraduate/assessment-plan

Chemistry: Biochemistry Emphasis - BS

Program Overview

College	Department	Program Level
College of Arts & Sciences	Chemistry & Biochemistry	Undergraduate

About this Degree

Chemistry is the scientific study of matter, its properties, and interactions with other matter and with energy. It is a science applicable to a wide range of career goals, including medicine, law, physical and social sciences, engineering, and public health and policy.

At USU, chemistry majors have the opportunity to conduct undergraduate research from the beginning of their studies, first as laboratory assistants and eventually moving on to their own research projects. Unique to USU, many undergraduates in the department are able to publish research papers. This gives USU students a competitive advantage should they apply for graduate programs.

Biochemistry (BS): Biochemistry is the study of chemical processes in living organisms and the structure and function of cellular components. Students study carbohydrates, lipids, proteins, nucleic acids, and other biomolecules. This emphasis meets requirements for certification by the American Chemical Society, which can result in higher-paying careers for graduates than those without ACS certification.

American Chemical Society Certified BS Degree

- For more information about Chemistry and Biochemistry, see the Department of Chemistry and Biochemistry.
- Admitted and current students must meet with the Department of Chemistry & Biochemistry advisor.
- Log on to Degree Works to check student-specific program progress.
- The highest math requirement for this degree is MATH2250 LINEAR ALG/DIFF EQUATIONS (QI) or STAT3000 STATISTICS FOR SCIENTISTS (QI).

Admission Requirements for this Program

- New freshmen must be admitted to USU in Good Standing.
- Transfer students from other institutions or other programs at USU must have a 2.2 GPA.

Program Requirements

Total Credits Required In Program Coursework	Total Credits Required To Earn This Credential
80-81	120

Simple Requisites

Program Requirements

REQUIREMENTS TO REMAIN IN THS PROGRAM:

- No CHEM prefix course may be applied toward graduation with a major in Biochemistry with an earned grade of less than C-.
- No CHEM prefix course may be repeated more than one time to improve the grade to a C- or better.
- No CHEM prefix course may be taken on a pass/fail basis, except those courses which are only taught pass/fail.
- All candidates for graduation with a Chemistry degree must complete a department exit survey prior to approval of graduation application and completion of the program.

Additional Information

The following major coursework will fulfill some General Education or University Studies requirements:

- CHEM1220 PRIN OF CHEMISTRY II (BPS) will fulfill the Breadth Physical Sciences (BPS) requirement.
- MATH1210 CALCULUS I (QL) will fulfill the Quantitative Literacy (QL) requirement.
- PHYS2210 PHYS SCI AND ENGR I (QI)(BPS) will fulfill the Quantitative Intensive (QI) requirement.
- CHEM4990 UNDERGRADUATE SEMINAR (CI) and CHEM3090 PHYSICAL CHEMISTRY LAB (CI) will fulfill the Communications Intensive (CI) requirement.

Chemistry - Biochemistry Emphasis - BS

Type

Completion Requirement

Chemistry: Biochemistry Emphasis Requirements (80-81 credits)

Complete ALL of the following Courses:

- BIOL1610 - Biology I - 3cr.
- BIOL1615 - Biology I Laboratory - 1cr.
- CHEM1210 - Principles of Chemistry I - 4cr.
- CHEM1215 - Chemical Principles Laboratory I - 1cr.
- CHEM1220 - Principles of Chemistry II (BPS) - 4cr.
- CHEM1225 - Chemical Principles Laboratory II - 1cr.
- CHEM1990 - Introduction to the Chemistry and Biochemistry Professions - 1cr.
- CHEM2310 - Organic Chemistry I - 4cr.
- CHEM2315 - Organic Chemistry Laboratory I - 1cr.
- CHEM2320 - Organic Chemistry II - 4cr.
- CHEM2325 - Organic Chemistry Laboratory II - 1cr.
- CHEM3000 - Quantitative Analysis (QI) - 3cr.
- CHEM3005 - Quantitative Analysis Laboratory - 1cr.
- CHEM3060 - Physical Chemistry I (QI) - 3cr.
- CHEM3070 - Physical Chemistry II (QI) - 3cr.
- CHEM3090 - Physical Chemistry Laboratory (CI) - 2cr.
- CHEM3510 - Intermediate Inorganic Chemistry - 2cr.
- CHEM3520 - Inorganic Chemistry Laboratory - 1cr.
- CHEM4990 - Undergraduate Seminar (CI) - 2cr.
- CHEM5640 - Instrumental Analysis - 3cr.
- CHEM5650 - Instrumental Analysis Laboratory - 2cr.
- CHEM5700 - General Biochemistry I - 3cr.
- CHEM5710 - General Biochemistry II - 3cr.
- CHEM5715 - General Biochemistry Laboratory I - 1cr.
- CHEM5720 - General Biochemistry Laboratory II (CI) - 2cr.
- MATH1210 - Calculus I (QL) - 4cr.
- MATH1220 - Calculus II (QL) - 4cr.
- MATH2210 - Multivariable Calculus (QI) - 3cr.
- MATH2250 - Linear Algebra and Differential Equations (QI) - 4cr.
  OR STAT3000 - Statistics for Scientists (QI) - 3cr.
- PHYS2210 - Physics for Scientists and Engineers I (QI/BPS) - 4cr.
- PHYS2215 - Physics for Scientists and Engineers Lab I - 1cr.
- PHYS2220 - Physics for Scientists and Engineers II (BPS/QI) - 4cr.
- PHYS2225 - Physics for Scientists and Engineers Lab II - 1cr.

Pre-Approved Advanced Biology Electives (4 credits)

Earn at least 4 credits from the following:

- BIOL3060 - Principles of Genetics (QI) - 3cr.

- BIOL3065 - Genetics Laboratory (CI) - 2cr.
- BIOL3300 - General Microbiology - 3cr.
  AND BIOL3305 - General Microbiology Laboratory - 2cr.
- BIOL4000 - Human Dissection - 1cr.
- BIOL4400 - Plant Physiology (QI) - 4cr.
- BIOL4450 - Neurobiology - 3cr.
- BIOL4600 - Advanced Human Physiology - 5cr.
- BIOL5150 - Immunology - 3cr.
- BIOL5210 - Cell Biology - 3cr.
- BIOL5230 - Developmental Biology - 3cr.
- BIOL5400 - Environmental Toxicology - 3cr.
- BIOL5600 - Comparative Animal Physiology - 3cr.
- BIOL5240 - Virology - 3cr.
- BIOL4770 - Introduction to Dynamic Biological Systems - 3cr.
- BIOL3020 - Evolutionary Biology - 3cr.
- BIOL3050 - Organismal Biology with Physiology - 3cr.
- BIOL3070 - Computational Approaches to Biology - 3cr.
- BIOL4040 - Fundamentals of Epidemiology - 3cr.
- BIOL5630 - Endocrinology (CI) - 3cr.
- BIOL5625 - Neurophysiology Laboratory - 2cr.
- CHEM4800 - Research Problems (CI) - 1cr.
- CHEM6720 - Principles of Enzymology I - 1cr.
- CHEM6740 - Cellular Communication by Small Molecules and Proteins - 1cr.
- CHEM6750 - Principles of Structural Biology - 1cr.
- CHEM6760 - Principles of Bioenergetics - 1cr.
- CHEM6770 - Biochemical Methods - 1cr.
- CHEM6780 - Biochemical Basis of Gene Expression: Nucleic Acid Protein Interactions - 1cr.
- CHEM7770 - Special Topics in Biochemistry (Topic) - 1cr.

Open Electives

Complete the following as needed:
Total elective credit is determined by General Education courses taken, degree type selected, additional credits earned, and any additional math or other prerequisite courses needed. Please consult your Academic Advisor for details.

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Bachelor's Degree)

Suggested Degree Maps

Degree Map Name
Suggested Degree Map - Chemistry: Biochemistry Emphasis BS
Total Degree Map Credits
121 - 128
Degree Map Effective Catalog Year
2027 -

Degree Map Narrative

- Following is a sample four-year plan. Please note that student-specific plans may differ.
- Meet with an academic advisor to create a specific plan that best fits your academic needs.
- The student is ultimately responsible for knowing and completing all degree requirements.
- Make sure you meet the registration requirements for each class by clicking the course link and checking any prerequisites or corequisites.
- Consultation with an advisor may result in an altered plan customized for an individual student.
- Check your Degree Works for requirements and completion.

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	15 - 16	0

Requirement Select
- Grade of C- or better in CHEM1210 and CHEM1215. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- CHEM1210 - Principles of Chemistry I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	C-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- CHEM1215 - Chemical Principles Laboratory I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	C-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- CHEM1990 - Introduction to the Chemistry and Biochemistry Professions

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- MATH1210 - Calculus I (QL)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- University Studies courses (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	5 - 6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	15 - 16	0

Requirement Select

- Grade of C- or better in CHEM1220 and CHEM1225. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- CHEM1220 - Principles of Chemistry II (BPS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	C-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- CHEM1225 - Chemical Principles Laboratory II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	C-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- MATH1220 - Calculus II (QL)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- University Studies courses (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	6 - 7
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	17	0

Requirement Select
- CHEM2310 - Organic Chemistry I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	C-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- CHEM2315 - Organic Chemistry Laboratory I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	C-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- CHEM3000 - Quantitative Analysis (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	C-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- CHEM3005 - Quantitative Analysis Laboratory

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	C-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- MATH2210 - Multivariable Calculus (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- PHYS2210 - Physics for Scientists and Engineers I (QI/BPS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- PHYS2215 - Physics for Scientists and Engineers Lab I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- Grade of C- or better in all CHEM courses. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	15 - 16	0

Requirement Select
- CHEM2320 - Organic Chemistry II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	C-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- CHEM2325 - Organic Chemistry Laboratory II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	C-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- CHEM3510 - Intermediate Inorganic Chemistry

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	C-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select
- CHEM3520 - Inorganic Chemistry Laboratory

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	C-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- PHYS2220 - Physics for Scientists and Engineers II (BPS/QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- PHYS2225 - Physics for Scientists and Engineers Lab II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- University Studies courses (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2 - 3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Grade of C- or better in all CHEM courses. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Fall	14 - 17	0

Requirement Select

- Grade of C- or better in CHEM3060. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- CHEM3060 - Physical Chemistry I (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- BIOL1610 - Biology I
- **AND** BIOL1615 - Biology I Laboratory

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- MATH2250 - Linear Algebra and Differential Equations (QI)
  OR
- STAT3000 - Statistics for Scientists (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 4
Progress Credits	-
Contact Hours	3 - 4
Clinical	-
Criticality	No

Requirement Select

- University Studies courses (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4 - 6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Spring	15 - 16	0

Requirement Select

- CHEM3070 - Physical Chemistry II (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	C-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- CHEM3090 - Physical Chemistry Laboratory (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	C-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select

- CHEM5640 - Instrumental Analysis

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	C-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- CHEM5650 - Instrumental Analysis Laboratory

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	C-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select
- University Studies courses (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	5 - 6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Grade of C- or better in all CHEM courses. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Fall	16	0

Requirement Select
- CHEM5700 - General Biochemistry I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	C-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- CHEM5715 - General Biochemistry Laboratory I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	C-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- CHEM4990 - Undergraduate Seminar (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	C-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select
- Pre-Approved Advanced Biology Electives (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- University Studies courses (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Grade of C- or better in all CHEM courses. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Spring	14	0

Requirement Select

- CHEM5710 - General Biochemistry II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	C-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- CHEM5720 - General Biochemistry Laboratory II (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	C-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select

- University Studies courses (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	C-
Area	-
Actual Credits	9
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Grade of C- or better in all CHEM courses. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	Total Major Credits
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Program Learning Outcomes

Program Learning Outcomes

https://artsci.usu.edu/chem-biochem/assessment/undergraduate/assessment-plan

Chemistry - BS

Program Overview

College	Department	Program Level
College of Arts & Sciences	Chemistry & Biochemistry	Undergraduate

About this Degree

Chemistry is the scientific study of matter, its properties, and interactions with other matter and with energy. It is a science applicable to a wide range of career goals, including medicine, law, physical and social sciences, engineering, and public health and policy. At USU, chemistry majors have the opportunity to conduct undergraduate research from the beginning of their studies, first as laboratory assistants and eventually moving on to their own research projects. Unique to USU, many undergraduates in the department are able to publish research papers. This gives USU students a competitive advantage should they apply for graduate programs.

- For more information about Chemistry and Biochemistry, see the Department of Chemistry and Biochemistry.
- Admitted and current students must meet with the Department of Chemistry & Biochemistry Advisor.
- Log on to Degree Works to check student-specific program progress.

Admission Requirements for this Program

- New freshmen must be admitted to USU in Good Standing.
- Transfer students from other institutions or other programs at USU must have a 2.2 GPA.

Program Requirements

Total Credits Required In Program Coursework	Total Credits Required To Earn This Credential
70-71	122

Simple Requisites

Program Requirements

THE CHEMISTRY BS REQUIRES AN EMPHASIS IN ONE OF THE FOLLOWING AREAS. Please see the pages for these programs for more information on complete degree requirements:

- Chemistry: Professional Chemistry Emphasis - BS (ACS Certified)
- Chemistry: Environmental Chemistry Emphasis - BS (ACS Certified)
- Chemistry: Biochemistry Emphasis - BS (ACS Certified)
- Chemistry: Life Science Emphasis - BS

REQUIREMENTS TO REMAIN IN THE PROGRAM

- Grade of C- or higher is required for all CHEM prefix courses.
- No CHEM prefix course may be taken on a pass/fail basis, except those courses which are only taught pass/fail.
- No CHEM prefix course may be repeated more than one time to improve the grade to a C- or better.
- All candidates for graduation with a Chemistry degree must complete a department exit survey prior to approval of graduation application and completion of the program.

Additional Information

The following major coursework will fulfill some General Education or University Studies requirements:

- CHEM1220 PRIN OF CHEMISTRY II (BPS) will fulfill the Breadth Physical Sciences (BPS) requirement.
- MATH1210 CALCULUS I (QL) will fulfill the Quantitative Literacy (QL) requirement.
- PHYS2210 PHYS SCI AND ENGR I (QI)(BPS) will fulfill the Quantitative Intensive (QI) requirement.

Chemistry - BS

Type
Completion Requirement

Chemistry Major Requirements (70-71 credits)

Complete ALL of the following Courses:

- CHEM1210 - Principles of Chemistry I - 4cr.
- CHEM1215 - Chemical Principles Laboratory I - 1cr.
- CHEM1220 - Principles of Chemistry II (BPS) - 4cr.
- CHEM1225 - Chemical Principles Laboratory II - 1cr.
- CHEM1990 - Introduction to the Chemistry and Biochemistry Professions - 1cr.
- CHEM2310 - Organic Chemistry I - 4cr.
- CHEM2315 - Organic Chemistry Laboratory I - 1cr.
- CHEM2320 - Organic Chemistry II - 4cr.
- CHEM2325 - Organic Chemistry Laboratory II - 1cr.
- CHEM3000 - Quantitative Analysis (QI) - 3cr.
- CHEM3005 - Quantitative Analysis Laboratory - 1cr.
- CHEM3060 - Physical Chemistry I (QI) - 3cr.
- CHEM3070 - Physical Chemistry II (QI) - 3cr.
- CHEM3090 - Physical Chemistry Laboratory (CI) - 2cr.
- CHEM3510 - Intermediate Inorganic Chemistry - 2cr.
- CHEM3520 - Inorganic Chemistry Laboratory - 1cr.
- CHEM3700 - Introductory Biochemistry - 3cr.
  OR CHEM5700 - General Biochemistry I - 3cr.
- CHEM4990 - Undergraduate Seminar (CI) - 2cr.
- CHEM5640 - Instrumental Analysis - 3cr.
- CHEM5650 - Instrumental Analysis Laboratory - 2cr.
- MATH1210 - Calculus I (QL) - 4cr.
- MATH1220 - Calculus II (QL) - 4cr.
- MATH2210 - Multivariable Calculus (QI) - 3cr.
- MATH2250 - Linear Algebra and Differential Equations (QI) - 4cr.
  OR STAT3000 - Statistics for Scientists (QI) - 3cr.
- PHYS2210 - Physics for Scientists and Engineers I (QI/BPS) - 4cr.
- PHYS2215 - Physics for Scientists and Engineers Lab I - 1cr.
- PHYS2220 - Physics for Scientists and Engineers II (BPS/QI) - 4cr.
- PHYS2225 - Physics for Scientists and Engineers Lab II - 1cr.

Open Electives

Complete the following as needed:
Total elective credit is determined by General Education courses taken, degree type selected, additional credits earned, and any additional math or other prerequisite courses needed. Please consult your Academic Advisor for details.

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Bachelor's Degree)

Suggested Degree Maps

Degree Map Name
Suggested Degree Map - Chemistry BS
Total Degree Map Credits
123 - 126
Degree Map Effective Catalog Year
2026 -

Degree Map Narrative

- Following is a sample four-year plan. Please note that student-specific plans may differ.
- Meet with an academic advisor to create a specific plan that best fits your academic needs.
- The student is ultimately responsible for knowing and completing all degree requirements.
- Make sure you meet the registration requirements for each class by clicking the course link and checking any prerequisites or corequisites.
- Consultation with an advisor may result in an altered plan customized for an individual student.
- Check your Degree Works for requirements and completion.

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	15 - 16	0

Requirement Select
- Grade of C- or better in CHEM1210 and CHEM1215. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- CHEM1210 - Principles of Chemistry I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	C-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- CHEM1215 - Chemical Principles Laboratory I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	C-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- MATH1210 - Calculus I (QL)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- CHEM1990 - Introduction to the Chemistry and Biochemistry Professions

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- University Studies courses (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	5 - 6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	15	0

Requirement Select

- Grade of C- or better in CHEM1220 and CHEM1225. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- CHEM1220 - Principles of Chemistry II (BPS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	C-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- CHEM1225 - Chemical Principles Laboratory II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	C-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- MATH1220 - Calculus II (QL)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- University Studies courses (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	17	0

Requirement Select

- Grade of C- or better in all CHEM courses. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- CHEM2310 - Organic Chemistry I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	C-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- CHEM2315 - Organic Chemistry Laboratory I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	C-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- CHEM3000 - Quantitative Analysis (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	C-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- CHEM3005 - Quantitative Analysis Laboratory

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	C-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- MATH2210 - Multivariable Calculus (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- PHYS2210 - Physics for Scientists and Engineers I (QI/BPS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- PHYS2215 - Physics for Scientists and Engineers Lab I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	15 - 16	0

Requirement Select
- CHEM2320 - Organic Chemistry II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	C-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- CHEM2325 - Organic Chemistry Laboratory II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	C-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- CHEM3510 - Intermediate Inorganic Chemistry

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	C-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select

- CHEM3520 - Inorganic Chemistry Laboratory

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	C-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- PHYS2220 - Physics for Scientists and Engineers II (BPS/QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- PHYS2225 - Physics for Scientists and Engineers Lab II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- University Studies courses (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2 - 3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Grade of C- or better in all CHEM courses (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Fall	15 - 16	0

Requirement Select

- CHEM3060 - Physical Chemistry I (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	C-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- CHEM3700 - Introductory Biochemistry
  OR
- CHEM5700 - General Biochemistry I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	C-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- MATH2250 - Linear Algebra and Differential Equations (QI)
  OR
- STAT3000 - Statistics for Scientists (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 4
Progress Credits	-
Contact Hours	3 - 4
Clinical	-
Criticality	No

Requirement Select

- University Studies courses (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Grade of C- or better in all CHEM courses (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Spring	16	0

Requirement Select

- CHEM3070 - Physical Chemistry II (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	C-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- CHEM3090 - Physical Chemistry Laboratory (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	C-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select

- CHEM5640 - Instrumental Analysis

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	C-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- CHEM5650 - Instrumental Analysis Laboratory

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	C-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select

- University Studies courses or electives for specific degree (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Grade of C- or better in all CHEM courses (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Fall	15	0

Requirement Select

- CHEM4990 - Undergraduate Seminar (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select

- Chemistry Emphasis Requirements or University Studies courses (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	13
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Spring	15	0

Requirement Select

- Chemistry Emphasis Requirements or University Studies courses (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	15
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Program Learning Outcomes

Program Learning Outcomes

https://artsci.usu.edu/chem-biochem/assessment/undergraduate/assessment-plan

Chemistry: Environmental Chemistry Emphasis - BS

Program Overview

College	Department	Program Level
College of Arts & Sciences	Chemistry & Biochemistry	Undergraduate

About this Degree

Chemistry is the scientific study of matter, its properties, and interactions with other matter and with energy. It is a science applicable to a wide range of career goals, including medicine, law, physical and social sciences, engineering, and public health and policy.

At USU, chemistry majors have the opportunity to conduct undergraduate research from the beginning of their studies, first as laboratory assistants and eventually moving on to their own research projects. Unique to USU, many undergraduates in the department are able to publish research papers. This gives USU students a competitive advantage should they apply for graduate programs.

Environmental Chemistry (BS): This is the study of chemical alterations in the environment. Principal areas include studying soil contamination, water pollution, and air pollution. This emphasis meets requirements for certification by the American Chemical Society, which can result in higher-paying careers for graduates than those without ACS certification.

American Chemical Society Certified BS Degree

- For more information about Chemistry and Biochemistry, see the Department of Chemistry and Biochemistry.
- Admitted and current students must meet with the Department of Chemistry & Biochemistry advisor.
- Log on to Degree Works to check student-specific program progress.
- The highest math requirement for this degree is MATH2250 LINEAR ALG/DIFF EQUATIONS (QI) or STAT3000 STATISTICS FOR SCIENTISTS (QI).

Admission Requirements for this Program

- New freshmen must be admitted to USU in Good Standing.
- Transfer students from other institutions or other programs at USU must have a 2.2 GPA.

Program Requirements

Total Credits Required In Program Coursework	Total Credits Required To Earn This Credential
83-86	121

Simple Requisites

Program Requirements

REQUIREMENTS TO REMAIN IN THS PROGRAM:

- No CHEM prefix course may be applied toward graduation with a major in Chemistry: Environmental Chemistry with an earned grade of less than C-.
- No CHEM prefix course may be repeated more than one time to improve the grade to a C- or better.
- No CHEM prefix course may be taken on a pass/fail basis, except those courses which are only taught pass/fail.

- All candidates for graduation with a Chemistry degree must complete a department exit survey prior to approval of graduation application and completion of the program.

Additional Information

The following major coursework will fulfill some General Education or University Studies requirements:

- CHEM1220 PRIN OF CHEMISTRY II (BPS) will fulfill the Breadth Physical Sciences (BPS) requirement.
- MATH1210 CALCULUS I (QL) will fulfill the Quantitative Literacy (QL) requirement.
- PHYS2210 PHYS SCI AND ENGR I (QI)(BPS) will fulfill the Quantitative Intensive (QI) requirement.
- CHEM4990 UNDERGRADUATE SEMINAR (CI) and CHEM3090 PHYSICAL CHEMISTRY LAB (CI) will fulfill the Communications Intensive (CI) requirement.

Chemistry: Environmental Chemistry Emphasis - BS

Type
Completion Requirement

Chemistry Major Requirements (75-76 credits)

Complete ALL of the following Courses:

- CHEM1210 - Principles of Chemistry I - 4cr.
- CHEM1215 - Chemical Principles Laboratory I - 1cr.
- CHEM1220 - Principles of Chemistry II (BPS) - 4cr.
- CHEM1225 - Chemical Principles Laboratory II - 1cr.
- CHEM1990 - Introduction to the Chemistry and Biochemistry Professions - 1cr.
- CHEM2310 - Organic Chemistry I - 4cr.
- CHEM2315 - Organic Chemistry Laboratory I - 1cr.
- CHEM2320 - Organic Chemistry II - 4cr.
- CHEM2325 - Organic Chemistry Laboratory II - 1cr.
- CHEM3000 - Quantitative Analysis (QI) - 3cr.
- CHEM3005 - Quantitative Analysis Laboratory - 1cr.
- CHEM3060 - Physical Chemistry I (QI) - 3cr.
- CHEM3070 - Physical Chemistry II (QI) - 3cr.
- CHEM3090 - Physical Chemistry Laboratory (CI) - 2cr.
- CHEM3510 - Intermediate Inorganic Chemistry - 2cr.
- CHEM3520 - Inorganic Chemistry Laboratory - 1cr.
- CHEM3700 - Introductory Biochemistry - 3cr.
  OR CHEM5700 - General Biochemistry I - 3cr.
- CHEM4990 - Undergraduate Seminar (CI) - 2cr.
- CHEM5640 - Instrumental Analysis - 3cr.
- CHEM5650 - Instrumental Analysis Laboratory - 2cr.
- CHEM5670 - Intermediate Environmental Chemistry - 3cr.
- CHEM5680 - Environmental Chemistry Laboratory - 2cr.
- MATH1210 - Calculus I (QL) - 4cr.
- MATH1220 - Calculus II (QL) - 4cr.
- MATH2210 - Multivariable Calculus (QI) - 3cr.
- MATH2250 - Linear Algebra and Differential Equations (QI) - 4cr.
  OR STAT3000 - Statistics for Scientists (QI) - 3cr.
- PHYS2210 - Physics for Scientists and Engineers I (QI/BPS) - 4cr.
- PHYS2215 - Physics for Scientists and Engineers Lab I - 1cr.
- PHYS2220 - Physics for Scientists and Engineers II (BPS/QI) - 4cr.
- PHYS2225 - Physics for Scientists and Engineers Lab II - 1cr.

Introductory Environmental Electives (6-7 credits)

Select 6-7 credits from the following courses.

Complete ANY of the following Courses:

- CEE3610 - Environmental Management - 3cr.
- CEE3640 - Drinking Water Engineering - 3cr.
- GEO1110 - Physical Geology (BPS) - 3cr.
- PSC3000 - Fundamentals of Soil Science - 4cr.
- WATS1200 - The Natural World and Our Place Within It (BLS) - 3cr.
- BIOL2220 - General Ecology - 3cr.
  OR WATS2220 - General Ecology - 3cr.

Advanced Environmental Electives (3 credits)

Earn at least 3 credits from the following:

- BIOL5400 - Environmental Toxicology - 3cr.
- CEE5620 - Aquatic Chemistry - 3cr.
- CEE5730 - Environmental Chemistry of Organic Contaminants - 3cr.
  OR PUBH5730 - Environmental Chemistry of Organic Contaminants - 3cr.
- CEE5600 - Environmental Chemistry of Inorganic Contaminants - 2cr.
- CEE5610 - Environmental Quality Analysis - 3cr.
- CEE5750 - Air Quality Measurements - 2cr.
- CEE6850 - Atmospheric and Air Pollution Chemistry - 3cr.
- GEO5600 - Geochemistry - 4cr.
- PSC5050 - Principles of Environmental Soil Chemistry - 3cr.
- WATS5110 - Environmental Biogeochemistry - 3cr.
- WATS5500 - Limnology: Ecology of Inland Waters - 3cr.
- WATS5530 - Water Quality and Pollution - 3cr.

Open Electives

Complete the following as needed:
Total elective credit is determined by General Education courses taken, degree type selected, additional credits earned, and any additional math or other prerequisite courses needed. Please consult your Academic Advisor for details.

Minimum University Requirements

Minimum University Requirements
Minimum University Requirements (Bachelor's Degree)

Suggested Degree Maps

Degree Map Name
Suggested Degree Map - Chemistry: Environmental Chemistry Emphasis BS
Total Degree Map Credits
121 - 128
Degree Map Effective Catalog Year
2027 -

Degree Map Narrative

- Following is a sample four-year plan. Please note that student-specific plans may differ.
- Meet with an academic advisor to create a specific plan that best fits your academic needs.
- The student is ultimately responsible for knowing and completing all degree requirements.

- Make sure you meet the registration requirements for each class by clicking the course link and checking any prerequisites or corequisites.
- Consultation with an advisor may result in an altered plan customized for an individual student.
- Check your Degree Works for requirements and completion.

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	15 - 16	0

Requirement Select
- Grade of C- or better in CHEM 1210 and CHEM 1215. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- CHEM1210 - Principles of Chemistry I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	C-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- CHEM1215 - Chemical Principles Laboratory I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	C-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- CHEM1990 - Introduction to the Chemistry and Biochemistry Professions

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- MATH1210 - Calculus I (QL)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- University Studies courses (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	5 - 6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	15	0

Requirement Select
- Grade of C- or better in CHEM 1220 and CHEM 1225. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- CHEM1220 - Principles of Chemistry II (BPS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	C-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- CHEM1225 - Chemical Principles Laboratory II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	C-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- MATH1220 - Calculus II (QL)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- University Studies courses (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	17	0

Requirement Select
- Grade of C- or better in all CHEM courses. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- CHEM2310 - Organic Chemistry I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	C-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- CHEM2315 - Organic Chemistry Laboratory I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	C-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- CHEM3000 - Quantitative Analysis (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	C-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- CHEM3005 - Quantitative Analysis Laboratory

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	C-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- MATH2210 - Multivariable Calculus (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- PHYS2210 - Physics for Scientists and Engineers I (QI/BPS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- PHYS2215 - Physics for Scientists and Engineers Lab I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	15 - 16	0

Requirement Select
- Grade of C- or better in all CHEM courses. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- CHEM2320 - Organic Chemistry II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	C-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- CHEM2325 - Organic Chemistry Laboratory II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	C-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- CHEM3510 - Intermediate Inorganic Chemistry

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	C-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select

- CHEM3520 - Inorganic Chemistry Laboratory

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	C-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- PHYS2220 - Physics for Scientists and Engineers II (BPS/QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- PHYS2225 - Physics for Scientists and Engineers Lab II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- University Studies courses (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2 - 3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Fall	14 - 17	0

Requirement Select

- Grade of C- or better in all CHEM courses. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- CHEM3060 - Physical Chemistry I (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	C-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- CHEM3700 - Introductory Biochemistry
  OR
- CHEM5700 - General Biochemistry I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	C-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- MATH2250 - Linear Algebra and Differential Equations (QI)
  OR
- STAT3000 - Statistics for Scientists (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 4
Progress Credits	-
Contact Hours	3 - 4
Clinical	-
Criticality	No

Requirement Select
- Introductory Environmental Electives (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- University Studies course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2 - 3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Spring	15 - 17	0

Requirement Select
- Grade of C- or better in all CHEM courses. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- CHEM3070 - Physical Chemistry II (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	C-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- CHEM3090 - Physical Chemistry Laboratory (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	C-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select
- CHEM5640 - Instrumental Analysis

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	C-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- CHEM5650 - Instrumental Analysis Laboratory

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	C-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select
- Introductory Environmental Electives (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- University Studies course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2 - 3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Fall	15	0

Requirement Select
- CHEM4990 - Undergraduate Seminar (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select
- Advanced Environmental Electives (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- University Studies courses (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	10
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Spring	15	0

Requirement Select
- CHEM5670 - Intermediate Environmental Chemistry

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- CHEM5680 - Environmental Chemistry Laboratory

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select
- University Studies courses (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	10
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	Total Major Credits
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Program Learning Outcomes

Program Learning Outcomes

https://artsci.usu.edu/chem-biochem/assessment/undergraduate/assessment-plan

Chemistry: Life Science Emphasis - BS

Program Overview

College	Department	Program Level
College of Arts & Sciences	Chemistry & Biochemistry	Undergraduate

About this Degree

Chemistry is the scientific study of matter, its properties, and interactions with other matter and with energy. It is a science applicable to a wide range of career goals, including medicine, law, physical and social sciences, engineering, and public health and policy.

At USU, chemistry majors have the opportunity to conduct undergraduate research from the beginning of their studies, first as laboratory assistants and eventually moving on to their own research projects. Unique to USU, many undergraduates in the department are able to publish research papers. This gives USU students a competitive advantage should they apply for graduate programs.

Life Science (BS): The life science emphasis is popular for students wishing to go on to medical or dental graduate programs. A major in chemistry gives these students a strong base for understanding the nature of chemical reactions in the body and the behavior of the drugs they will prescribe.

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- For more information about Chemistry and Biochemistry, see the Department of Chemistry and Biochemistry.
- Admitted and current students must meet with the Department of Chemistry & Biochemistry advisor.
- Log on to Degree Works to check student-specific program progress.
- The highest math requirement for this degree is MATH2250 LINEAR ALG/DIFF EQUATIONS (QI) or STAT3000 STATISTICS FOR SCIENTISTS (QI).

Admission Requirements for this Program

- New freshmen must be admitted to USU in Good Standing.
- Transfer students from other institutions or other programs at USU must have a 2.2 GPA.

Program Requirements

Total Credits Required In Program Coursework	Total Credits Required To Earn This Credential
82-84	120

Simple Requisites

Program Requirements

REQUIREMENTS TO REMAIN IN THS PROGRAM:

- Grade of C- or better is required for all CHEM prefix courses.
- No CHEM prefix course may be repeated more than one time to improve the grade to a C- or better.
- No CHEM prefix course may be taken on a pass/fail basis, except those courses which are only taught pass/fail.
- All candidates for graduation with a Chemistry degree must complete a department exit survey prior to approval of graduation application and completion of the program.

Additional Information

The following major coursework will fulfill some General Education or University Studies requirements:

- CHEM1220 PRIN OF CHEMISTRY II (BPS) will fulfill the Breadth Physical Sciences (BPS) requirement.
- MATH1210 CALCULUS I (QL) will fulfill the Quantitative Literacy (QL) requirement.
- PHYS2210 PHYS SCI AND ENGR I (QI)(BPS) will fulfill the Quantitative Intensive (QI) requirement.
- CHEM4990 UNDERGRADUATE SEMINAR (CI) and CHEM3090 PHYSICAL CHEMISTRY LAB (CI) will fulfill the Communications Intensive (CI) requirement.

Chemistry: Life Science Emphasis - BS

Type
Completion Requirement

Chemistry: Life Science Emphasis Requirements (82-84 credits)

Fulfill ALL of the following requirements:

Required Courses

Complete ALL of the following Courses:

- CHEM1210 - Principles of Chemistry I - 4cr.
- CHEM1215 - Chemical Principles Laboratory I - 1cr.
- CHEM1220 - Principles of Chemistry II (BPS) - 4cr.
- CHEM1225 - Chemical Principles Laboratory II - 1cr.
- CHEM1990 - Introduction to the Chemistry and Biochemistry Professions - 1cr.
- CHEM2310 - Organic Chemistry I - 4cr.
- CHEM2315 - Organic Chemistry Laboratory I - 1cr.
- CHEM2320 - Organic Chemistry II - 4cr.
- CHEM2325 - Organic Chemistry Laboratory II - 1cr.
- CHEM3000 - Quantitative Analysis (QI) - 3cr.
- CHEM3005 - Quantitative Analysis Laboratory - 1cr.
- CHEM3060 - Physical Chemistry I (QI) - 3cr.
- CHEM3070 - Physical Chemistry II (QI) - 3cr.
- CHEM3090 - Physical Chemistry Laboratory (CI) - 2cr.
- CHEM3510 - Intermediate Inorganic Chemistry - 2cr.
- CHEM3520 - Inorganic Chemistry Laboratory - 1cr.
- CHEM4990 - Undergraduate Seminar (CI) - 2cr.
- CHEM5700 - General Biochemistry I - 3cr.
- CHEM5710 - General Biochemistry II - 3cr.
- CHEM5715 - General Biochemistry Laboratory I - 1cr.
- CHEM5720 - General Biochemistry Laboratory II (CI) - 2cr.
- BIOL1610 - Biology I - 3cr.
- BIOL1615 - Biology I Laboratory - 1cr.
- BIOL3060 - Principles of Genetics (QI) - 3cr.
  OR BIOL3300 - General Microbiology - 3cr.
- MATH1210 - Calculus I (QL) - 4cr.
- MATH1220 - Calculus II (QL) - 4cr.
- MATH2210 - Multivariable Calculus (QI) - 3cr.
- MATH2250 - Linear Algebra and Differential Equations (QI) - 4cr.
  OR STAT3000 - Statistics for Scientists (QI) - 3cr.
- PHYS2210 - Physics for Scientists and Engineers I (QI/BPS) - 4cr.
- PHYS2215 - Physics for Scientists and Engineers Lab I - 1cr.
- PHYS2220 - Physics for Scientists and Engineers II (BPS/QI) - 4cr.
- PHYS2225 - Physics for Scientists and Engineers Lab II - 1cr.

AND

Biology Options

Fulfill ANY of the following requirements:

Option A

Complete ALL of the following Courses:

- BIOL1620 - Biology II (BLS) - 3cr.
- BIOL1625 - Biology II Laboratory - 1cr.

OR

Option B

Complete ALL of the following Courses:

- BIOL2420 - Human Physiology - 4cr.

Open Electives

Complete the following as needed:
Total elective credit is determined by General Education courses taken, degree type selected, additional credits earned, and any additional math or other prerequisite courses needed. Please consult your Academic Advisor for details.

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Bachelor's Degree)

Suggested Degree Maps

Degree Map Name
Suggested Degree Map - Chemistry: Life Science Emphasis BS
Total Degree Map Credits
122 - 126
Degree Map Effective Catalog Year
2026 -

Degree Map Narrative

- Following is a sample four-year plan. Please note that student-specific plans may differ.
- Meet with an academic advisor to create a specific plan that best fits your academic needs.
- The student is ultimately responsible for knowing and completing all degree requirements.
- Make sure you meet the registration requirements for each class by clicking the course link and checking any prerequisites or corequisites.
- Consultation with an advisor may result in an altered plan customized for an individual student.
- Check your Degree Works for requirements and completion.

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	15 - 16	0

Requirement Select

- Grade of C- or better in CHEM 1210 and CHEM 1215. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- CHEM1210 - Principles of Chemistry I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	C-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- CHEM1215 - Chemical Principles Laboratory I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	C-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- CHEM1990 - Introduction to the Chemistry and Biochemistry Professions

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	C-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- MATH1210 - Calculus I (QL)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- University Studies courses (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	5 - 6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	15	0

Requirement Select
- Grade of C- or better in CHEM 1220 and CHEM 1225. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- CHEM1220 - Principles of Chemistry II (BPS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	C-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- CHEM1225 - Chemical Principles Laboratory II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	C-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- MATH1220 - Calculus II (QL)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- University Studies courses (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	17	0

Requirement Select
- Grade of C- or better in all CHEM courses. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- CHEM2310 - Organic Chemistry I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	C-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- CHEM2315 - Organic Chemistry Laboratory I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	C-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- CHEM3000 - Quantitative Analysis (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	C-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- CHEM3005 - Quantitative Analysis Laboratory

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	C-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- MATH2210 - Multivariable Calculus (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- PHYS2210 - Physics for Scientists and Engineers I (QI/BPS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- PHYS2215 - Physics for Scientists and Engineers Lab I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	15 - 16	0

Requirement Select
- Grade of C- or better in all CHEM courses. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- CHEM2320 - Organic Chemistry II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	C-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- CHEM2325 - Organic Chemistry Laboratory II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	C-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- CHEM3510 - Intermediate Inorganic Chemistry

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	C-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select
- CHEM3520 - Inorganic Chemistry Laboratory

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	C-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- PHYS2220 - Physics for Scientists and Engineers II (BPS/QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- PHYS2225 - Physics for Scientists and Engineers Lab II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- University Studies courses (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2 - 3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Fall	15 - 17	0

Requirement Select
- Grade of C- or better in CHEM 3060. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- BIOL1610 - Biology I
- **AND** BIOL1615 - Biology I Laboratory

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- CHEM3060 - Physical Chemistry I (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	C-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- MATH2250 - Linear Algebra and Differential Equations (QI)
  OR
- STAT3000 - Statistics for Scientists (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 4
Progress Credits	-
Contact Hours	3 - 4
Clinical	-
Criticality	No

Requirement Select

- University Studies courses (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	5 - 6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Spring	15	0

Requirement Select

- BIOL1620 - Biology II (BLS)
- **AND** BIOL1625 - Biology II Laboratory
  OR
- BIOL2420 - Human Physiology

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- CHEM3070 - Physical Chemistry II (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	C-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- CHEM3090 - Physical Chemistry Laboratory (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	C-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select

- University Studies courses (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Fall	16	0

Requirement Select
- Grade of C- or better in all CHEM courses. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- CHEM4990 - Undergraduate Seminar (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	C-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select
- CHEM5700 - General Biochemistry I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	C-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- CHEM5715 - General Biochemistry Laboratory I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	C-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- BIOL3060 - Principles of Genetics (QI)
  OR
- BIOL3300 - General Microbiology

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- University Studies courses (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Spring	14	0

Requirement Select
- Grade of C- or better in all CHEM courses. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- CHEM5710 - General Biochemistry II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	C-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- CHEM5720 - General Biochemistry Laboratory II (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	C-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select

- University Studies courses (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	9
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Program Learning Outcomes

Program Learning Outcomes

https://artsci.usu.edu/chem-biochem/assessment/undergraduate/assessment-plan

Chemistry - MS

Program Overview

College	Department	Program Level
College of Arts & Sciences	Chemistry & Biochemistry	Graduate

About this Degree

The Master of Science (MS) in Chemistry at Utah State University provides advanced study and research training in the fundamental and applied principles of chemistry. The program is designed for students seeking to deepen their scientific expertise, strengthen their research skills, and prepare for doctoral study or professional careers in industry, government, and education.

Students complete rigorous graduate coursework across core areas of chemistry, including analytical, inorganic, organic, and physical chemistry, with opportunities for specialization in areas aligned with faculty research strengths. Emphasis is placed on scientific rigor, quantitative analysis, experimental design, and effective written and oral communication.

Under close faculty mentorship, students engage in laboratory research using modern instrumentation and methodologies. Through thesis research or other approved scholarly work, students demonstrate the ability to conduct independent investigation, interpret complex data, and contribute meaningfully to the chemical sciences.

Graduates are well prepared for PhD programs, research and development positions in chemical and materials industries, environmental and regulatory laboratories, and other technical roles requiring advanced training in chemistry.

Qualified undergraduate chemistry majors at Utah State University may apply in their third year for admission to the BS-MS program. Students should consult with the chairperson of the Graduate Recruiting and Admissions Committee to be certain of their eligibility for this program. All requirements for the BS degree must be completed within two semesters of admission. The MS degree cannot include coursework counted toward the BS degree.

Admissions Requirements for this Degree

Applicants to the MS in Chemistry program must hold a bachelor's degree in chemistry or a closely related discipline from an accredited institution. Applicants are expected to have completed foundational coursework in analytical, inorganic, organic, and physical chemistry. Admissions requirements and procedures can be found at: https://artsci.usu.edu/chem-biochem/students/graduate/graduate-application.

Additional information about the MS and BS-MS in Chemistry programs may be obtained by contacting the Department of Chemistry and Biochemistry or by visiting https://artsci.usu.edu/chem-biochem/.

Program Requirements

Total Credits Required In Program Coursework	Total Credits Required To Earn This Credential
30	30

Simple Requisites

Program Requirements

Requirements for an MS degree in Chemistry

- **Degree Verification**: A bachelor's degree from an accredited U.S. college or university or a similarly recognized international university is required for admission to and completion of a graduate degree.

- **GPA and Minimum Grades**: Graduate students are required to maintain at least a 3.0 GPA for degree-program courses. More than one C grade or grades of C- or lower will not be accepted for a chemistry graduate degree.
- **Coursework Validity:** Coursework over eight years old at the time of degree completion may not be used for a graduate degree unless it is revalidated.
- **Matriculation Start Semester:** An MS degree must be completed within six years of entering the degree program. Additional time may be requested by the student's committee and submitted to the Vice Provost of Graduate Studies for review.
- **Course Number Acceptability:** The Program of Study for an MS degree must include at least 18 semester credits at the level of 6000 or above.
    1. The program of study for a master's degree cannot include more than 12 semester credits of courses at the 5000 level. Credits in the following areas are not acceptable in a degree program: foreign languages (unless included in an approved Program of Study), continuing graduate advisement, individual home study, military science, and courses numbered below 5000.
- **Research Credits:** The Plan A option for an MS degree requires the preparation and defense of a thesis. Students are required to complete a minimum of 6 semester credits of thesis research with a maximum of 15 thesis credits applied toward a Program of Study.
    1. A Plan B option requires the production and defense of a paper/project. A minimum of two credits of thesis research (6970) are required, but no more than three thesis research credits can be included in an approved Program of Study.
- **School of Graduate Studies Forms:** Approval of all academic forms required for MS students by the School of Graduate Studies including the Supervisory Committee Approval form, Program of Study, Thesis Proposal Approval, Appointment for Exam, Authorship & Copyright, Format & Style, Title Page, and Graduation Application.

Chemistry Course Requirements

The Program of Study is approved by the student's supervisory committee. The MS degree requires 30 credit hours including a minimum of 15 credits of coursework. Of the 15 coursework credits, six must be graduate-level courses from outside the student's chosen area of specialization. All chemistry students are required to register for CHEM 7800 annually. CHEM 7800 credits are counted toward the 15 credits of coursework requirement.

Each division (analytical, inorganic, organic, and physical) has established a list of core courses for students specializing in that area.

Chemistry - MS

Type
Completion Requirement

Analytical Chemistry

Complete ALL of the following Courses:

- CHEM6020 - Molecular Spectroscopy - 3cr.
- CHEM7640 - Special Topics in Analytical Chemistry (Topic) - 1cr.

NOTE:
CHEM7640 ST: ANALYTICAL CHEMISTRY - 3 credits of are required in the following subjects areas:

- ST: Analytical Special Topics: Chromatography (1 credit)
- ST: Analytical Special Topics: Mass Spectrometry (1 credit)
- ST: Analytical Special Topics: Practical GC/MS (1 credit)

Inorganic Chemistry

Complete ALL of the following Courses:

- CHEM6500 - Reactivity and Mechanisms in Inorganic Chemistry - 3cr.
- CHEM6510 - Chemical Applications of Group Theory - 1cr.
- CHEM7310 - Molecular Structure/Spectroscopy of Organic Compounds - 3cr.

Organic Chemistry

Complete ALL of the following Courses:

- CHEM6300 - Advanced Modern Organic Chemistry - 3cr.
- CHEM7310 - Molecular Structure/Spectroscopy of Organic Compounds - 3cr.
- CHEM7300 - Reactions and Synthesis in Modern Organic Chemistry - 3cr.

Physical Chemistry

Complete ALL of the following Courses:

- CHEM6010 - Quantum Chemistry - 3cr.
- CHEM6020 - Molecular Spectroscopy - 3cr.

Elective Credit

Complete the following as directed:
In addition to the core and CHEM7800 SEMINAR courses, electives are taken to fulfill the 15 credits of coursework requirement as directed by the student's committee. Elective credits may be selected from courses with any prefix at the level of 5000 or above with supervisory committee approval.

Additional Program Requirements

Complete the following:
• Pass competency examinations to demonstrate a satisfactory undergraduate level of knowledge in relevant areas
• Complete Responsible Conduct of Research training
• Attend the Graduate Student Proposal Writing Seminar

Program Learning Outcomes

Program Learning Outcomes
https://artsci.usu.edu/chem-biochem/assessment/graduate/graduate-program-assessment-plan

Chemistry - PhD

Program Overview

College	Department	Program Level
College of Arts & Sciences	Chemistry & Biochemistry	Graduate

About this Degree

The PhD in Chemistry at Utah State University is a rigorous, research-intensive program designed to prepare scientists for leadership in academia, national laboratories, and industry. Grounded in a history of academic excellence and research achievement, the program provides advanced training in the fundamental and applied aspects of chemistry while fostering independence, integrity, and professional excellence.

Doctoral students engage in original research under the mentorship of accomplished faculty across major areas of chemistry, including analytical, inorganic, organic, and physical chemistry. The curriculum emphasizes advanced coursework, critical analysis of scientific literature, and the development of technical and methodological expertise. Students gain proficiency in experimental design, data interpretation, and scientific communication, preparing them to contribute meaningfully to the advancement of chemical knowledge.

In addition to research, students develop teaching and mentoring skills through instructional opportunities that reinforce a strong foundation in chemical principles. Professional development experiences – such as presenting at scientific conferences, publishing in peer-reviewed journals, and collaborating across disciplines – further prepare graduates for competitive careers.

Graduates of the PhD program are well prepared for faculty positions, postdoctoral research appointments, and leadership roles in government and private-sector laboratories. The program maintains high academic standards while providing individualized guidance to ensure each student develops the depth of expertise and professional maturity expected of a doctoral-level chemist.

Admissions Requirements for this Degree

Applicants to the PhD in Chemistry program must hold a bachelor's or master's degree in chemistry or a closely related discipline from an accredited institution. Applicants are expected to have completed foundational coursework in analytical, inorganic, organic, and physical chemistry. Admissions requirements and procedures can be found at https://artsci.usu.edu/chem-biochem/students/graduate/graduate-application.

Additional information about the PhD in Chemistry may be obtained by contacting the Department of Chemistry and Biochemistry or by visiting https://artsci.usu.edu/chem-biochem/.

Program Requirements

Total Credits Required In Program Coursework	Total Credits Required To Earn This Credential
30-60	30-60

Simple Requisites

Program Requirements

Requirements for a PhD degree in Chemistry

- **Degree Verification**: A bachelor's degree or master's degree from an accredited U.S. college or university or a similarly recognized international university is required for admission to and completion of a PhD degree.
- **GPA and Minimum Grades**: Graduate students are required to maintain at least a 3.0 GPA for degree-program courses. More than one C grade or grades of C- or lower will not be accepted for a chemistry graduate degree.
- **Coursework Validity:** Coursework over eight years old at the time of degree completion may not be used for a graduate degree unless it is revalidated.
- **Matriculation Start Semester:** A PhD degree must be completed within eight years of entering the degree program. Additional time may be requested by the student's committee and submitted to the Vice Provost of Graduate Studies for review.
- **Course Number Acceptability:** The Program of Study for a PhD degree must include at least 18 semester credits at the level of 6000 or above.

  Credits in the following areas are not acceptable in a degree program: foreign languages (unless included in an approved Program of Study), continuing graduate advisement, individual home study, military science, and courses numbered below 5000. A maximum of 12 credits of 5000-level coursework are permitted.
- **Research Credits:** A minimum of 12 dissertation research credits is required if the student has an MS degree, and a minimum of 18 is required if the student has a bachelor's degree.
- **School of Graduate Studies Forms:** Approval of all academic forms required for PhD students by the School of Graduate Studies including the Supervisory Committee Approval form, Program of Study, Application for Candidacy, Appointment for Exam, Authorship & Copyright, Format & Style, Title Page, and Graduation Application.

Chemistry Course Requirements

The Program of Study is approved by the student's supervisory committee. A total of 30 credits is required for students entering with an MS degree, 60 credits is required for students entering with a bachelor's degree. The PhD degree requires a minimum of 10 credits of coursework. Of the 10 coursework credits, six must be graduate-level courses from outside the student's chosen area of specialization. All chemistry students are required to register for CHEM 7800 annually. CHEM 7800 credits are not included in the 10 credits of coursework total.

Each division (analytical, inorganic, organic, and physical) has established a list of core courses for students specializing in that area.

In addition to the core courses, electives are taken to fulfill the 10 credits of coursework requirement as directed by the student's committee. Elective credits may be selected from courses with any prefix at the level of 5000 or above with supervisory committee approval.

Chemistry - PhD

Type
Completion Requirement

Analytical Courses

Complete ALL of the following Courses:

- CHEM6020 - Molecular Spectroscopy - 3cr.
- CHEM7640 - Special Topics in Analytical Chemistry (Topic) - 1cr.

NOTE:

3 credits of CHEM7640 ST: ANALYTICAL CHEMISTRY is required covering the following topics:

- ST: Analytical Special Topics: Chromatography (1 credit)
- ST: Analytical Special Topics: Mass Spectrometry (1 credit)
- ST: Analytical Special Topics: Practical GC/MS (1 credit)

Inorganic Courses

Complete ALL of the following Courses:

- CHEM6500 - Reactivity and Mechanisms in Inorganic Chemistry - 3cr.
- CHEM6510 - Chemical Applications of Group Theory - 1cr.
- CHEM7310 - Molecular Structure/Spectroscopy of Organic Compounds - 3cr.

Organic Courses

Complete ALL of the following Courses:

- CHEM6300 - Advanced Modern Organic Chemistry - 3cr.
- CHEM7300 - Reactions and Synthesis in Modern Organic Chemistry - 3cr.
- CHEM7310 - Molecular Structure/Spectroscopy of Organic Compounds - 3cr.

Physical Chemistry Courses

Complete ALL of the following Courses:

- CHEM6010 - Quantum Chemistry - 3cr.
- CHEM6020 - Molecular Spectroscopy - 3cr.

Additional Program Requirements

Type
Completion Requirement

Requirements

Complete the following:
● Pass competency examinations to demonstrate a satisfactory undergraduate level of knowledge in relevant areas
● Complete Responsible Conduct of Research training
● Attend the Graduate Student Proposal Writing Seminar

Program Learning Outcomes

Program Learning Outcomes

https://artsci.usu.edu/chem-biochem/assessment/graduate/graduate-program-assessment-plan

Chemistry: Professional Chemistry Emphasis - BS

Program Overview

College	Department	Program Level
College of Arts & Sciences	Chemistry & Biochemistry	Undergraduate

About this Degree

Chemistry is the scientific study of matter, its properties, and interactions with other matter and with energy. It is a science applicable to a wide range of career goals, including medicine, law, physical and social sciences, engineering, and public health and policy.

At USU, chemistry majors have the opportunity to conduct undergraduate research from the beginning of their studies, first as laboratory assistants and eventually moving on to their own research projects. Unique to USU, many undergraduates in the department are able to publish research papers. This gives USU students a competitive advantage should they apply for graduate programs.

Professional Chemistry (BS): This emphasis is for students who wish to be chemists with careers in test laboratories, such as government laboratories and hospital laboratories. Students graduating with this emphasis will also find jobs in research development, quality control, and manufacturing. This emphasis meets requirements for certification by the American Chemical Society, which can result in higher-paying careers for graduates than those without ACS certification.

American Chemical Society Certified BS Degree

- For more information about Chemistry and Biochemistry, see the Department of Chemistry and Biochemistry.
- Admitted and current students must meet with the Department of Chemistry & Biochemistry advisor.
- Log on to Degree Works to check student-specific program progress.
- The highest math requirement for this degree is MATH2250 LINEAR ALG/DIFF EQUATIONS (QI) or STAT3000 STATISTICS FOR SCIENTISTS (QI).

Admission Requirements for this Program

- New freshmen must be admitted to USU in Good Standing.
- Transfer students from other institutions or other programs at USU must have a 2.2 GPA.

Program Requirements

Total Credits Required In Program Coursework	Total Credits Required To Earn This Credential
80	123

Simple Requisites

Program Requirements

REQUIREMENTS TO REMAIN IN THS PROGRAM:

- No CHEM prefix course may be applied toward graduation with a major in Chemistry:Professional Chemistry Emphasis with an earned grade of less than C-.
- No CHEM prefix course may be repeated more than one time to improve the grade to a C- or better.
- No CHEM prefix course may be taken on a pass/fail basis, except those courses which are only taught pass/fail.

- All candidates for graduation with a Chemistry degree must complete a department exit survey prior to approval of graduation application and completion of the program.

Additional Information

The following major coursework will fulfill some General Education or University Studies requirements:

- CHEM1220 PRIN OF CHEMISTRY II (BPS) will fulfill the Breadth Physical Sciences (BPS) requirement.
- MATH1210 CALCULUS I (QL) will fulfill the Quantitative Literacy (QL) requirement.
- PHYS2210 PHYS SCI AND ENGR I (QI)(BPS) will fulfill the Quantitative Intensive (QI) requirement.
- CHEM4990 UNDERGRADUATE SEMINAR (CI) and CHEM3090 PHYSICAL CHEMISTRY LAB (CI) will fulfill the Communications Intensive (CI) requirement.

Chemistry: Professional Chemistry Emphasis - BS

Type

Completion Requirement

Chemistry Major Requirements (56 credits)

Complete ALL of the following Courses:

- CHEM1210 - Principles of Chemistry I - 4cr.
- CHEM1215 - Chemical Principles Laboratory I - 1cr.
- CHEM1220 - Principles of Chemistry II (BPS) - 4cr.
- CHEM1225 - Chemical Principles Laboratory II - 1cr.
- CHEM2310 - Organic Chemistry I - 4cr.
- CHEM2315 - Organic Chemistry Laboratory I - 1cr.
- CHEM2320 - Organic Chemistry II - 4cr.
- CHEM2325 - Organic Chemistry Laboratory II - 1cr.
- CHEM3000 - Quantitative Analysis (QI) - 3cr.
- CHEM3005 - Quantitative Analysis Laboratory - 1cr.
- CHEM3060 - Physical Chemistry I (QI) - 3cr.
- CHEM3070 - Physical Chemistry II (QI) - 3cr.
- CHEM3090 - Physical Chemistry Laboratory (CI) - 2cr.
- CHEM3510 - Intermediate Inorganic Chemistry - 2cr.
- CHEM3520 - Inorganic Chemistry Laboratory - 1cr.
- MATH1210 - Calculus I (QL) - 4cr.
- MATH1220 - Calculus II (QL) - 4cr.
- MATH2210 - Multivariable Calculus (QI) - 3cr.
- PHYS2210 - Physics for Scientists and Engineers I (QI/BPS) - 4cr.
- PHYS2215 - Physics for Scientists and Engineers Lab I - 1cr.
- PHYS2220 - Physics for Scientists and Engineers II (BPS/QI) - 4cr.
- PHYS2225 - Physics for Scientists and Engineers Lab II - 1cr.

Professional Emphasis Requirements (18-19 credits)

Complete ALL of the following Courses:

- CHEM1990 - Introduction to the Chemistry and Biochemistry Professions - 1cr.
- CHEM3700 - Introductory Biochemistry - 3cr.
  OR CHEM5700 - General Biochemistry I - 3cr.
- CHEM4990 - Undergraduate Seminar (CI) - 2cr.
- CHEM5520 - Advanced Inorganic Chemistry - 2cr.
- CHEM5530 - Advanced Synthesis Laboratory - 2cr.
- CHEM5640 - Instrumental Analysis - 3cr.
- CHEM5650 - Instrumental Analysis Laboratory - 2cr.
- MATH2250 - Linear Algebra and Differential Equations (QI) - 4cr.

OR STAT3000 - Statistics for Scientists (QI) - 3cr.

Pre-Approved Advanced Chemistry Electives (6 credits)

Earn at least 6 credits from the following:

- CHEM4800 - Research Problems (CI) - 1cr.
- CHEM5070 - Biophysical Chemistry - 3cr.
- CHEM5100 - Computational Chemistry - 3cr.
- CHEM5670 - Intermediate Environmental Chemistry - 3cr.
- CHEM5680 - Environmental Chemistry Laboratory - 2cr.
- CHEM5710 - General Biochemistry II - 3cr.
- CHEM5720 - General Biochemistry Laboratory II (CI) - 2cr.
- CHEM6010 - Quantum Chemistry - 3cr.
- CHEM6020 - Molecular Spectroscopy - 3cr.
- CHEM6300 - Advanced Modern Organic Chemistry - 3cr.
- CHEM6500 - Reactivity and Mechanisms in Inorganic Chemistry - 3cr.
- CHEM6510 - Chemical Applications of Group Theory - 1cr.
- CHEM6600 - Modern Chemical Analysis - 3cr.
- CHEM6730 - Principles of Enzymology II - 2cr.
- CHEM6740 - Cellular Communication by Small Molecules and Proteins - 1cr.
- CHEM6750 - Principles of Structural Biology - 1cr.
- CHEM6760 - Principles of Bioenergetics - 1cr.

Open Electives

Complete the following as needed:

Total elective credit is determined by General Education courses taken, degree type selected, additional credits earned, and any additional math or other prerequisite courses needed. Please consult your Academic Advisor for details.

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Bachelor's Degree)

Suggested Degree Maps

Degree Map Name

Suggested Degree Map - Chemistry: Professional Chemistry Emphasis BS

Total Degree Map Credits

120 - 124

Degree Map Effective Catalog Year

2026 -

Degree Map Narrative

- Following is a sample four-year plan. Please note that student-specific plans may differ.
- Meet with an academic advisor to create a specific plan that best fits your academic needs.
- The student is ultimately responsible for knowing and completing all degree requirements.
- Make sure you meet the registration requirements for each class by clicking the course link and checking any prerequisites or corequisites.
- Consultation with an advisor may result in an altered plan customized for an individual student.
- Check your Degree Works for requirements and completion.

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	16 - 17	0

Requirement Select
- Grade of C- or better in CHEM 1210 and CHEM 1215. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- CHEM1210 - Principles of Chemistry I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	C-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- CHEM1215 - Chemical Principles Laboratory I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	C-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- CHEM1990 - Introduction to the Chemistry and Biochemistry Professions

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	C-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- MATH1210 - Calculus I (QL)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- University Studies courses (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	6 - 7
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	15 - 16	0

Requirement Select
- Grade of C- or better in CHEM 1220 and CHEM 1225. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- CHEM1220 - Principles of Chemistry II (BPS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	C-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- CHEM1225 - Chemical Principles Laboratory II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	C-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- MATH1220 - Calculus II (QL)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- University Studies courses (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	6 - 7
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	17	0

Requirement Select

- Grade of C- or better in all CHEM courses. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- CHEM2310 - Organic Chemistry I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	C-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- CHEM2315 - Organic Chemistry Laboratory I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	C-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- CHEM3000 - Quantitative Analysis (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	C-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- CHEM3005 - Quantitative Analysis Laboratory

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	C-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- MATH2210 - Multivariable Calculus (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- PHYS2210 - Physics for Scientists and Engineers I (QI/BPS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- PHYS2215 - Physics for Scientists and Engineers Lab I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	13	0

Requirement Select
- Grade of C- or better in all CHEM courses. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- CHEM2320 - Organic Chemistry II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	C-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- CHEM2325 - Organic Chemistry Laboratory II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	C-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- CHEM3510 - Intermediate Inorganic Chemistry

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	C-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select
- CHEM3520 - Inorganic Chemistry Laboratory

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	C-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- PHYS2220 - Physics for Scientists and Engineers II (BPS/QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- PHYS2225 - Physics for Scientists and Engineers Lab II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Fall	13 - 15	0

Requirement Select

- Grade of C- or better in all CHEM courses. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- CHEM3060 - Physical Chemistry I (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	C-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- CHEM3700 - Introductory Biochemistry
  OR
- CHEM5700 - General Biochemistry I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	C-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- MATH2250 - Linear Algebra and Differential Equations (QI)
  OR
- STAT3000 - Statistics for Scientists (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 4
Progress Credits	-
Contact Hours	3 - 4
Clinical	-
Criticality	No

Requirement Select

- University Studies courses (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4 - 5
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Spring	16	0

Requirement Select

- Grade of C- or better in all CHEM courses. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- CHEM3070 - Physical Chemistry II (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	C-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- CHEM3090 - Physical Chemistry Laboratory (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	C-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select
- CHEM5640 - Instrumental Analysis

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	C-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- CHEM5650 - Instrumental Analysis Laboratory

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	C-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select
- University Studies courses or electives for specific degree (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Fall	15	0

Requirement Select
- CHEM4990 - Undergraduate Seminar (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select
- CHEM5520 - Advanced Inorganic Chemistry

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select
- Pre-approved Advanced Chemistry Elective (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- University Studies courses (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	8
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Spring	15	0

Requirement Select

- CHEM5530 - Advanced Synthesis Laboratory

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select

- Pre-approved Advanced Chemistry Elective (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- University Studies courses (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	10
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Program Learning Outcomes

Program Learning Outcomes

https://artsci.usu.edu/chem-biochem/assessment/undergraduate/assessment-plan

Chinese - Minor

Program Overview

College
College of Arts & Sciences

Department
World Languages and Cultures

Program Level
Undergraduate

About this Degree

Students in the Chinese minor develop language skills, communication skills, analytical skills, and cultural competence skills.

Admission Requirements for this Program

- Minimum Grade Point Average: 2.0 GPA

Program Requirements

Total Credits Required In Program Coursework
16

Total Credits Required To Earn This Credential
16

Simple Requisites

Program Requirements

- Total credits: 16
- Minimum Grade Requirement: All courses taken for the minor require a minimum grade of C- or better. Courses taken for the minor may not be taken on a pass/fail basis.
- Students requesting to apply study abroad credits (CHIN1800 CHINESE I STUDY ABROAD, CHIN2800 CHINESE II STUDY ABROAD, CHIN3800 CHINESE III STUDY ABROAD, CHIN4800 CHINESE IV STUDY ABROAD) toward the minor or major emphasis must obtain approval from the Department of World Languages and Cultures prior to participating.

Section 1

Type
Completion Requirement

Required Courses (4-7 credits)

Complete ALL of the following Courses:

- CHIN2050 - Chinese Conversation - 3cr.
  OR CHIN3000 - Chinese Conversation - 3cr.
- CHIN3010 - Chinese Third Year I - 4cr.

NOTES:

1. CHIN2050 CHINESE CONVERSATION:

• CHIN 2050 is a transition course for students without extensive experience in a Mandarin-speaking environment; it must be taken after CHIN2010 CHINESE SECOND YR I and before CHIN3010 CHINESE THIRD YR I. CHIN 2050 is a prerequisite for CHIN 3010 and all other 3000- or 4000-level Chinese electives.
• Students with at least one year of immersive Mandarin experience (e.g., returned missionaries or study abroad participants) may waive CHIN2050 CHINESE CONVERSATION or CHIN3000 CHIN CONVERSATION. Students may take the Department of World Languages and Cultures Language Placement and Proficiency exam at USU to possibly waive, or "test out of," some prerequisites, depending on test scores.
• Cantonese speakers are still required to take CHIN2050 CHINESE CONVERSATION.

Additional Comments:
Bridge program participants should consult a World Languages & Cultures Advisor.

Section 2

Type
Completion Requirement

Elective Courses (12 credits)

Only one credit of CHIN4920 CHINESE LANG TUTOR may count toward the Chinese Minor. Select 12 credits from the following courses:

Earn at least 12 credits from the following:

- CHIN3020 - Chinese Third Year II - 4cr.
- CHIN3060 - Chinese Grammar and Composition - 3cr.
- CHIN3080 - Chinese Outreach Practicum - 1cr.
- CHIN3090 - Introduction to Modern Chinese Literature and Film - 3cr.
- CHIN3100 - Readings in Contemporary Chinese Culture (DHA) - 3cr.
- CHIN3116 - Exploring China - Past, Present and You - 3cr.
- CHIN3117 - Chinese Legacies - Tradition and Modernity - 3cr.
- CHIN3118 - Chinese Popular Culture - 3cr.
- CHIN3510 - Chinese Business Presentations - 3cr.
- CHIN3520 - Chinese Business Strategies - 3cr.
- CHIN3540 - Translating into and from Chinese (CI) - 3cr.
- CHIN3600 - Contemporary Children's Literature in Chinese - 3cr.
- CHIN3800 - Chinese III Study Abroad - 1cr.
- CHIN3880 - Individual Readings in Chinese - 1cr.
- CHIN4010 - Chinese Multimedia - 3cr.
- CHIN4030 - Love and Death in Chinese Film - 3cr.
- CHIN4090 - Readings in Masterworks of Classical Chinese Fiction - 3cr.
- CHIN4100 - Teaching Chinese as a Foreign Language - 3cr.
- CHIN4210 - Chinese/Sinophone Theatre and Performance - 3cr.
- CHIN4800 - Chinese IV Study Abroad - 1cr.
- CHIN4920 - Chinese Language Tutoring - 1cr.
- LANG3550 - Culture of East Asia (DHA) - 3cr.
- LANG3570 - Narrative Ethics in Asian Literature and Film (DHA) - 3cr.
  OR LANG3650 - Women and Gender in East Asian Culture - 3cr.
- CAI5520 - Chinese Security Affairs - 3cr.
- HIST3481 - China's Cultural Revolution - 3cr.
  OR HIST3480 - History of China - 3cr.
  OR HIST3482 - Ancient China to 1800 (DHA) - 3cr.

NOTES:

CHIN3080 CHINESE OUTREACH, CHIN3800 CHINESE III STUDY ABROAD, CHIN3880 INDIVIDUAL READINGS, CHIN4800 CHINESE IV STUDY ABROAD, or CHIN4920 require instructor permission and are repeatable for credit, up to a maximum of 3 credits counting toward the minor per course. No more than 6 credits total of 3080, 3800, 3880, 4880, and 4920 combined may count toward the minor.

Section 3

Type
Completion Requirement

Bridge Program

Requirements
Bridge Pathway

- **Credits in Residence:** At least half (50 percent) of the credits earned for this minor must be earned at USU. Bridge courses will count toward elective credits and credits in residence at USU.
- **Bridge Courses:** CHIN3116 EXPLORING CHINA, CHIN3117 CHINESE LEGACIES, and CHIN3118 CHINESE POPULAR CULTURE should be transferred to the Registrar's Office, if taken through another university other than USU.

Upon completion, student should have **5 classes (16 credits)** of upper-division Chinese coursework to complete the minor, any high school Bridge classes included.

Additional Comments:

Related Program:

- Chinese Teaching - Minor: 21 credits + 29 STEP credits

Program Learning Outcomes

Program Learning Outcomes
https://chass.usu.edu/languages/assessments

Chinese Teaching - Minor

Program Overview

College
College of Arts & Sciences

Department
World Languages and Cultures

Program Level
Undergraduate

Program Requirements

Total Credits Required To Earn This Credential
49

Simple Requisites

Program Requirements

- Total Credits: 49 (20 credits + 29 STEP credits)
- Grade Point Average to Declare Chinese Teaching Minor: 2.5 Overall GPA
- Grade Point Average to Graduate with Chinese Teaching Minor: 2.5 GPA within minor coursework
- USU Credit Requirement: At least half (50 percent) of the credits earned for this degree must be completed in upper-division USU courses having prefixes of CHIN or LING. All other credits (including transfer and study abroad credits) must be approved by the program's academic advisor in order to be counted toward the minor. Students who have completed Bridge Program Language courses should contact their advisor as these courses may count toward elective credits and credits toward minor requirements.The bridge students who scored a 3 or 4 on the AP Exam must complete CHIN3000 CHIN CONVERSATION before enrolling in CHIN3010 CHINESE THIRD YR I and other upper-division Chinese courses.
- Students desiring to apply study abroad credits (CHIN1800 CHINESE I STUDY ABROAD, CHIN2800 CHINESE II STUDY ABROAD, CHIN3800 CHINESE III STUDY ABROAD, CHIN4800 CHINESE IV STUDY ABROAD) toward these degrees must obtain approval from the World Languages and Cultures office prior to participating.
- Minimum Grade Requirement: All courses for the minor require a minimum grade of C or better. Courses for the minor may not be taken on a pass/fail basis with the exception of SCED3300 CLINICAL EXPERIENCE I and SCED5630 STUDENT TEACHING SEC SCHOOL.

Section 1

Type
Completion Requirement

Chinese and Linguistics Courses (15 credits)

IMPORTANT NOTES:

- CHIN2050 CHINESE CONVERSATION is a required transition course for students without extensive experience in a Mandarin-speaking environment. It must be taken after CHIN2010 CHINESE SECOND YR I and before CHIN3010 CHINESE THIRD YR I.
- Students with at least one year of immersive Mandarin experience (e.g., returned missionaries) may waive CHIN2050 CHINESE CONVERSATION or CHIN3000 CHIN CONVERSATION. Please work with your academic advisor.
- Cantonese speakers are still required to take CHIN2050 CHINESE CONVERSATION.

Important Notes for Bridge Language Students:

- Bridge students with an AP score of 3 or 4 must complete CHIN3000 CHIN CONVERSATION before enrolling in CHIN3010 CHINESE THIRD YR I or any other upper-division Chinese courses.
- Not following this sequence may delay progress in the major.

Complete ALL of the following Courses:

- CHIN2050 - Chinese Conversation - 3cr.
  OR CHIN3000 - Chinese Conversation - 3cr.
- CHIN3010 - Chinese Third Year I - 4cr.
- CHIN4100 - Teaching Chinese as a Foreign Language - 3cr.
- CHIN4920 - Chinese Language Tutoring - 1cr.
- SCED3300 - Clinical Experience I - 1cr.

NOTES:

1. CHIN4100 TEACHING CHINESE is required for both the licensure and non-licensure route.
2. Only 1 credit in CHIN4920 CHINESE LANG TUTOR may count towards the Chinese Minor-Teaching Emphasis.
3. SCED3300 CLINICAL EXPERIENCE I is only required for STEP and Licensure and a student must be admitted to the STEP program to enroll.

Section 2

Type
Completion Requirement

Elective Courses (3 credits)

Earn at least 3 credits from the following:

- CHIN3020 - Chinese Third Year II - 4cr.
- CHIN3060 - Chinese Grammar and Composition - 3cr.
- CHIN3080 - Chinese Outreach Practicum - 1cr.
- CHIN3090 - Introduction to Modern Chinese Literature and Film - 3cr.
- CHIN3100 - Readings in Contemporary Chinese Culture (DHA) - 3cr.
- CHIN3116 - Exploring China - Past, Present and You - 3cr.
- CHIN3117 - Chinese Legacies - Tradition and Modernity - 3cr.
- CHIN3118 - Chinese Popular Culture - 3cr.
- CHIN3510 - Chinese Business Presentations - 3cr.
- CHIN3520 - Chinese Business Strategies - 3cr.
- CHIN3540 - Translating into and from Chinese (CI) - 3cr.
- CHIN3600 - Contemporary Children's Literature in Chinese - 3cr.
- CHIN3800 - Chinese III Study Abroad - 1cr.
- CHIN3880 - Individual Readings in Chinese - 1cr.
- CHIN4010 - Chinese Multimedia - 3cr.
- CHIN4090 - Readings in Masterworks of Classical Chinese Fiction - 3cr.
- CHIN4210 - Chinese/Sinophone Theatre and Performance - 3cr.
- CHIN4800 - Chinese IV Study Abroad - 1cr.
- CHIN4030 - Love and Death in Chinese Film - 3cr.
- LANG3570 - Narrative Ethics in Asian Literature and Film (DHA) - 3cr.
- LANG3650 - Women and Gender in East Asian Culture - 3cr.
- LANG3990 - Special Topics - 1cr.

NOTES:

1. Only one credit of CHIN4920 CHINESE LANG TUTOR may count toward the Chinese Minor or Chinese Minor - Teaching Emphasis.
2. CHIN3800 CHINESE III STUDY ABROAD, and CHIN4800 CHINESE IV STUDY ABROAD - Students desiring to apply study abroad credits toward these degrees must obtain approval from the World Languages and Cultures office prior to participating. Both courses are repeatable for credit.
3. CHIN3080 CHINESE OUTREACH is repeatable for credit up to a maximum of 3 credits.
4. While CHIN3880 INDIVIDUAL READINGS may be repeated for additional credit, only 1 credit may count toward requirements for the Chinese major or minor.

Section 3

Type
Completion Requirement

Teaching Emphasis with Secondary School Licensure (29 credits)

The following requirements only specify courses offered by the Department of World Languages and Cultures. To be licensed to teach in the Utah public secondary school system, students with a teaching emphasis must also complete additional courses (approximately 29 credits) required by the Secondary Education Program. Courses may be subject to change, and students should contact the Secondary Education Advising Office for a current course list of STEP requirements.

- Students should note that *only one credit* of CHIN4920 CHINESE LANG TUTOR may count towards the Chinese Minor - Teaching Emphasis. In addition, courses taken for the Chinese minor programs may not be taken on a pass/fail basis.
- Praxis requirement: Passing the ETS Praxis II 5665 Chinese - scoring 145 or higher.
- Oral Proficiency Interview (OPI) requirement: A score of Advanced-Low or higher is required for the Oral Proficiency Interview for Chinese as a World Language.
- **For a teaching major or minor there is a minimum "C" grade requirement in all STEP and minor content required courses.**

Earn a minimum grade of C in the following:

- LING5400 - Teaching Modern Languages - 3cr.
- SCED3210 - Educational and Multicultural Foundations (DSS/CI) - 3cr.
- SCED3300 - Clinical Experience I - 1cr.
- SCED5100 - Motivation and Classroom Management - 3cr.

- SCED5200 - Language, Literacy, and Learning in the Content Areas (CI) - 3cr.
- SCED5210 - Learning Theory, Curriculum, and Assessment - 3cr.
- SCED5630 - Student Teaching in Secondary Schools - 10cr.
- SPED4000 - Education of Students with Disabilities - 3cr.

NOTES:

1. LING5400 TEACHING MODERN LANGUAGES and SCED3300 CLINICAL EXPERIENCE I must be taken during the same semester, and should be the last courses taken for the minor. These courses should be taken the fall semester before student teaching. LING5400 TEACHING MODERN LANGUAGES is listed in both the STEP and minor requirements for seeking the Chinese Teaching Minor/ non-licensure so the non-licensure minors understand the complete of minor requirements. See additional non-licensure information at bottom of page.

Section 4

Type
Completion Requirement

Chinese Teaching Emphasis Minor without Secondary School Licensure (20 credits)

Requirements without Licensure
(20 credits)

It is possible to have a teaching emphasis within a minor in Chinese without receiving secondary school teaching licensure. However, unless the student is an elementary education major, he or she would not be able to teach in Utah public schools (nor at many private ones). Graduating without licensure may allow employment at community colleges and universities.

In order to complete a Chinese Minor - Teaching Emphasis *without* Secondary School Licensure, students must fulfill all of the requirements listed under Section I (Chinese and Linguistics Courses) of the Chinese Minor - Teaching Emphasis *with* Secondary School Licensure (21 credits), except for SCED3300 CLINICAL EXPERIENCE I, for a total of 20 credits (SCED3300 CLINICAL EXPERIENCE I) for the teaching minor is no longer required if doing non-licensure Chinese Teaching minor program).

Additional Comments:

Related Programs

- Chinese - Minor: 16 credits
- Chinese Teaching - Minor: without Licensure: 20 credits
- Chinese - BA: 33 credits

Licensure Notification

This program typically leads to licensure and was designed to meet licensing qualifications in the state of Utah. If students wish to work in another state within the United States, they should review the qualifications for that state and the Education Licensure Compliance Table provided by School of Teacher Education and Leadership.

For more information, please contact the School of Teacher Education and Leadership at https://cehs.usu.edu/teal/

Program Learning Outcomes

Program Learning Outcomes

https://chass.usu.edu/languages/assessments

Chemistry Teaching - Minor

Program Overview

College	Department	Program Level
College of Arts & Sciences	Chemistry & Biochemistry	Undergraduate

About this Degree

This minor prepares students for a Level 1 Chemistry Teaching Endorsement in the state of Utah. For endorsement in the state of Utah, students must also complete the courses for the Science 6-8 Core. If you are interested in receiving a Level 2 Chemistry Endorsement, please schedule an appointment with the Chemistry & Biochemistry department advisor for additional requirements. For more information on the requirements for teaching minor licensure, see the State of Utah Board of Education Endorsement requirements at: https://www.schools.utah.gov/licensing/endorsements?mid=5266&tid=1.

Program Requirements

Total Credits Required To Earn This Credential

25-27
Jan 1, 1900

Simple Requisites

Program Requirements

- In addition to required courses, 3-4 additional credits in Chemistry prefix courses, as approved by the department, are required.
- No CHEM prefix course may be applied toward a teaching minor in chemistry with an earned grade of less than C.
- No CHEM prefix course may be repeated more than one time to improve the grade to a C or better.
- 3.0 overall GPA is required for the Chemistry Teaching Minor.
- Enrollment in the Secondary Teacher Education Program with a teaching major is required to receive this minor.
- This minor requires 25-27 credits to complete.

Section 1

Type
Completion Requirement

Required Courses (14-15 credit)

Complete ALL of the following Courses:

- CHEM1210 - Principles of Chemistry I - 4cr.
- CHEM1215 - Chemical Principles Laboratory I - 1cr.
- CHEM1220 - Principles of Chemistry II (BPS) - 4cr.
- CHEM1225 - Chemical Principles Laboratory II - 1cr.
- CHEM2300 - Principles of Organic Chemistry - 3cr.
  OR CHEM2310 - Organic Chemistry I - 4cr.
- CHEM2315 - Organic Chemistry Laboratory I - 1cr.

Section 2

Type
Completion Requirement

Required Elective (3-4 credits)

Complete at least 1 of the following courses:

- CHEM2320 - Organic Chemistry II - 4cr.
- CHEM3000 - Quantitative Analysis (QI) - 3cr.
- CHEM3060 - Physical Chemistry I (QI) - 3cr.
- CHEM3510 - Intermediate Inorganic Chemistry - 2cr.
  AND CHEM3520 - Inorganic Chemistry Laboratory - 1cr.
- CHEM3650 - Environmental Chemistry (DSC) - 3cr.
  OR CHEM3700 - Introductory Biochemistry - 3cr.

NOTE:

1. CHEM2320 ORGANIC CHEMISTRY II - If CHEM CHEM2310 ORGANIC CHEMISTRY I has been previously selected.

Section 3

Type
Completion Requirement

Chemistry Teaching Minor STEP Courses (8 credits)

Required to complete both Science Clinicals and Methods courses:

Complete ALL of the following Courses:

- SCED3300 - Clinical Experience I - 1cr.
- SCED4300 - Clinical Experience II - 1cr.
- SCED5821 - Three-Dimensional Science and Engineering Pedagogical Knowledge - 3cr.
- SCED5820 - Science Education Teaching and Dispositions Knowledge - 3cr.

Additional Comments:

Licensure Notification

This program typically leads to licensure and was designed to meet licensing qualifications in the state of Utah. If students wish to work in another state within the United States, they should review the qualifications for that state and the Education Licensure Compliance Table provided by School of Teacher Education and Leadership.

For more information, please contact the School of Teacher Education and Leadership at https://cehs.usu.edu/teal/.

Program Learning Outcomes

Program Learning Outcomes

https://www.usu.edu/science/assessment/

Chemistry Teaching - BS

Program Overview

College	Department	Program Level
College of Arts & Sciences	Chemistry & Biochemistry	Undergraduate

About this Degree

Chemistry is the scientific study of matter, its properties, and interactions with other matter and with energy. At USU, chemistry majors have the opportunity to conduct undergraduate research from the beginning of their studies, first as laboratory assistants and eventually moving on to their own research projects.

Chemistry teachers educate students in middle school or high school levels on the basic chemical properties of elements and the chemical reactions that take place when different types of elements are combined and how to properly write scientific equations.

The department has two options for students interested in careers as high school or middle school chemistry teachers. The chemistry teaching option is appropriate for students who wish to teach chemistry, but who do not seek the depth of study required for American Chemical Society certification. The chemical education emphasis within the chemistry major requires a few additional math, statistics, and chemistry courses, which allows students to become ACS certified.

Education Component

In order to obtain a secondary teaching license for grades 6-12, students must complete the 38-credit Secondary Teacher Education Program (STEP), which includes one semester of student teaching in a public school. This program is administered by USU's School of Teacher Education and Leadership (TEAL) within the Emma Eccles Jones College of Education and Human Services. Student must apply to the School of TEAL the semester before taking STEP courses. This is usually the fall of their junior year. Students learn subject content through the Chemistry and Biochemistry Department, and spend the last year or two studying education techniques through the STEP program.

Students in the chemistry teaching program are required to select an approved teaching minor in order to expand their career options.

- For more information about Chemistry and Biochemistry, see the Department of Chemistry and Biochemistry.
- Admitted and current students must meet with the Department of Chemistry & Biochemistry advisor.
- Log on to Degree Works to check student-specific program progress.
- The highest math requirement for this degree is MATH2210 MULTIVARIABLE CALCULUS (QI).

Admission Requirements for this Program

- New freshmen admitted to USU in good standing qualify for admission to this major. A 3.0 GPA and 60 credits of coursework are required for admission to the Secondary Teacher Education Program (STEP).
- Transfer students from other institutions or other USU majors need a 3.0 GPA, ACT scores of 21 composite and 20 verbal/English and 19 mathematics/quantitative to be admitted to the major. They also need 60 credits of coursework to be admitted to the STEP.
- Students should contact the School of Teacher Education and Leadership (TEAL) for information on additional admission criteria. For application requirements visit teal.usu.edu.

Program Requirements

Total Credits Required In Program Coursework	Total Credits Required To Earn This Credential
67 + 38 STEP	122

Simple Requisites

Program Requirements

REQUIREMENTS TO REMAIN IN THS PROGRAM:

- Requires a 3.00 GPA. 3.0 overall GPA is required for Admission into STEP program and for graduation.
- **Grade of C or higher is required for all courses taken to fulfill major requirements and STEP courses for Chemistry Teaching.**
- CHEM prefix course grades must be C or better. No CHEM prefix course may be repeated more than one time to improve the grade to a C or better.
- No CHEM prefix course may be taken on a pass/fail basis, except those courses which are only taught pass/fail.
- All candidates for graduation with a Chemistry degree must complete a department exit survey prior to approval of graduation application and completion of the program.

Teaching Certification and Graduation Requirement:

- Students must complete a USBE-approved lab safety training course as a graduation requirement and provide record of completion to their advisor as a requirement for licensure recommendation.
- The USBE has approved the Flynn Scientific Online Lab Safety Course which can be completed at https://labsafety.flinnsci.com/UnAuthHome/Index.
- This is for the chemical education emphasis only. In order to obtain a secondary teaching license for grades 6-12, students must complete the 38-credit Secondary Teacher Education Program (STEP), which includes one semester of student teaching in a public school. This program is administered by USU's School of Teacher Education and Leadership (TEAL) within the Emma Eccles Jones College of Education and Human Services. Students must apply to the School of TEAL the semester before taking STEP courses. This is usually the fall of their junior year. Students learn subject content through the Chemistry and Biochemistry Department and spend the last year or two studying education techniques through the STEP program.
- Students with a chemical education emphasis are required to select an approved teaching minor in order to expand their career options.

Additional Information

The following major coursework will fulfill some General Education or University Studies requirements:

- CHEM1220 PRIN OF CHEMISTRY II (BPS) will fulfill the Breadth Physical Sciences (BPS) requirement.
- MATH1210 CALCULUS I (QL) will fulfill the Quantitative Literacy (QL) requirement.

- BIOL1010 BIOL AND THE CITIZEN (BLS) will fulfill the Breadth Life Sciences (BLS) requirement.
    - NOTE: BIOL1610 BIOLOGY I is not a BLS, so if selected to fulfill major requirements, another BLS course option will need to be completed to fulfill the BLS requirement.
- CHEM3090 PHYSICAL CHEMISTRY LAB (CI) and CHEM4990 UNDERGRADUATE SEMINAR (CI) will fulfill the Communications Intensive (CI) requirement.
- SCED3210 ED/MULTICULTR FOUND (DSS)(CI) will fulfill the Depth Social Science (DSS) requirement.

Chemistry Teaching - BS

Type
Completion Requirement

Chemistry Teaching Major Requirements (67 credits)

Complete ALL of the following Courses:

- BIOL1010 - Biology and the Citizen (BLS) - 3cr.
  OR BIOL1610 - Biology I - 3cr.
- GEO1010 - Introduction to Geology (BPS) - 3cr.
  OR GEO1110 - Physical Geology (BPS) - 3cr.
  OR GEO1360 - Planet Earth (BPS) - 3cr.
  OR PHYS1040 - Introductory Astronomy (BPS) - 3cr.
  OR PSC2000 - The Atmosphere and Weather (BPS) - 3cr.
- CHEM1210 - Principles of Chemistry I - 4cr.
- CHEM1215 - Chemical Principles Laboratory I - 1cr.
- CHEM1220 - Principles of Chemistry II (BPS) - 4cr.
- CHEM1225 - Chemical Principles Laboratory II - 1cr.
- CHEM2310 - Organic Chemistry I - 4cr.
- CHEM2315 - Organic Chemistry Laboratory I - 1cr.
- CHEM2320 - Organic Chemistry II - 4cr.
- CHEM2325 - Organic Chemistry Laboratory II - 1cr.
- CHEM3000 - Quantitative Analysis (QI) - 3cr.
- CHEM3005 - Quantitative Analysis Laboratory - 1cr.
- CHEM3060 - Physical Chemistry I (QI) - 3cr.
- CHEM3070 - Physical Chemistry II (QI) - 3cr.
- CHEM3090 - Physical Chemistry Laboratory (CI) - 2cr.
- CHEM3510 - Intermediate Inorganic Chemistry - 2cr.
- CHEM3520 - Inorganic Chemistry Laboratory - 1cr.
- CHEM3700 - Introductory Biochemistry - 3cr.
  OR CHEM5700 - General Biochemistry I - 3cr.
- CHEM4990 - Undergraduate Seminar (CI) - 2cr.
- MATH1210 - Calculus I (QL) - 4cr.
- MATH1220 - Calculus II (QL) - 4cr.
- MATH2210 - Multivariable Calculus (QI) - 3cr.
- PHYS2210 - Physics for Scientists and Engineers I (QI/BPS) - 4cr.
- PHYS2215 - Physics for Scientists and Engineers Lab I - 1cr.
- PHYS2220 - Physics for Scientists and Engineers II (BPS/QI) - 4cr.
- PHYS2225 - Physics for Scientists and Engineers Lab II - 1cr.

Required Courses for the Secondary Teacher Education Program (STEP) (38 credits)

To begin the admission process to the STEP program, students should see their Chemistry advisor at least two semesters before they begin coursework and also meet with a Secondary Education (TEAL) advisor. STEP admission deadlines are March 1 for fall semester and October 1 for spring semester. STEP courses require a grade of C or better. For more information about secondary education teaching requirements, go to teal.usu.edu/undergrad/sced/index-SCED.

Complete ALL of the following Courses:

- ITLS2500 - Technology Enabled Instruction - 3cr.
- SCED3210 - Educational and Multicultural Foundations (DSS/CI) - 3cr.
- SCED3300 - Clinical Experience I - 1cr.
- SCED4300 - Clinical Experience II - 1cr.
- SCED5100 - Motivation and Classroom Management - 3cr.
- SCED5200 - Language, Literacy, and Learning in the Content Areas (CI) - 3cr.
- SCED5210 - Learning Theory, Curriculum, and Assessment - 3cr.
- SCED5500 - Student Teaching Seminar - 2cr.
- SCED5630 - Student Teaching in Secondary Schools - 10cr.
- SCED5820 - Science Education Teaching and Dispositions Knowledge - 3cr.
- SCED5821 - Three-Dimensional Science and Engineering Pedagogical Knowledge - 3cr.
- SPED4000 - Education of Students with Disabilities - 3cr.

Open Electives

Complete the following as needed:
Total elective credit is determined by General Education courses taken, degree type selected, additional credits earned, and any additional math or other prerequisite courses needed. Please consult your Academic Advisor for details.

Additional Comments:

Licensure Notification

This program typically leads to licensure and was designed to meet licensing qualifications in the state of Utah. If students wish to work in another state within the United States, they should review the qualifications for that state and the Education Licensure Compliance Table provided by School of Teacher Education and Leadership.

For more information, please contact the School of Teacher Education and Leadership at https://cehs.usu.edu/teal/

Minimum University Requirements

Minimum University Requirements
Minimum University Requirements (Bachelor's Degree)

Suggested Degree Maps

Degree Map Name
Suggested Degree Map - Chemistry Teaching BS
Total Degree Map Credits
125
Degree Map Effective Catalog Year
2027 -

Degree Map Narrative

- Following is a sample four-year plan. Please note that student-specific plans may differ.
- Meet with an academic advisor to create a specific plan that best fits your academic needs.
- The student is ultimately responsible for knowing and completing all degree requirements.

- Make sure you meet the registration requirements for each class by clicking the course link and checking any prerequisites or corequisites.
- Consultation with an advisor may result in an altered plan customized for an individual student.
- Check your Degree Works for requirements and completion.

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	15	0

Requirement Select
- CHEM1210 - Principles of Chemistry I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- CHEM1215 - Chemical Principles Laboratory I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- MATH1210 - Calculus I (QL)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- Breadth Social Sciences (BSS) Course
  OR
- Breadth Humanities (BHU) Course
  OR
- Breadth American Institutions (BAI) Course
  OR
- Breadth Creative Arts (BCA) Course
  OR
- BIOL1010 - Biology and the Citizen (BLS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- ENGL1010 - Writing as Inquiry (CL1)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	15	0

Requirement Select
- CHEM1220 - Principles of Chemistry II (BPS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- CHEM1225 - Chemical Principles Laboratory II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- MATH1220 - Calculus II (QL)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- ENGL2010 - Research and Argument Across Perspectives (CL2)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Breadth Social Sciences (BSS) Course
  OR
- Breadth Humanities (BHU) Course
  OR
- Breadth American Institutions (BAI) Course
  OR
- Breadth Creative Arts (BCA) Course
  OR
- BIOL1010 - Biology and the Citizen (BLS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	17	0

Requirement Select
- CHEM2310 - Organic Chemistry I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- CHEM2315 - Organic Chemistry Laboratory I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- CHEM3000 - Quantitative Analysis (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- CHEM3005 - Quantitative Analysis Laboratory

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- MATH2210 - Multivariable Calculus (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- PHYS2210 - Physics for Scientists and Engineers I (QI/BPS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- PHYS2215 - Physics for Scientists and Engineers Lab I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	16	0

Requirement Select
- CHEM2320 - Organic Chemistry II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- CHEM2325 - Organic Chemistry Laboratory II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- CHEM3510 - Intermediate Inorganic Chemistry

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select
- CHEM3520 - Inorganic Chemistry Laboratory

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- PHYS2220 - Physics for Scientists and Engineers II (BPS/QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- PHYS2225 - Physics for Scientists and Engineers Lab II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- Breadth Social Sciences (BSS) Course
  OR
- Breadth Humanities (BHU) Course
  OR
- Breadth American Institutions (BAI) Course
  OR
- Breadth Creative Arts (BCA) Course
  OR
- BIOL1010 - Biology and the Citizen (BLS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Fall	19	0

Requirement Select

- CHEM3060 - Physical Chemistry I (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- CHEM3700 - Introductory Biochemistry
  OR
- CHEM5700 - General Biochemistry I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- SCED3300 - Clinical Experience I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- SCED5820 - Science Education Teaching and Dispositions Knowledge

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- SPED4000 - Education of Students with Disabilities

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Breadth Social Sciences (BSS) Course
  OR
- Breadth Humanities (BHU) Course
  OR
- Breadth American Institutions (BAI) Course
  OR
- Breadth Creative Arts (BCA) Course
  OR
- BIOL1010 - Biology and the Citizen (BLS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- GEO1010 - Introduction to Geology (BPS)
  OR
- GEO1110 - Physical Geology (BPS)
  OR
- GEO1360 - Planet Earth (BPS)
  OR
- PSC2000 - The Atmosphere and Weather (BPS)
  OR
- PHYS1040 - Introductory Astronomy (BPS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Spring	15	0

Requirement Select

- CHEM3070 - Physical Chemistry II (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- CHEM3090 - Physical Chemistry Laboratory (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select

- ITLS2500 - Technology Enabled Instruction

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- SCED3210 - Educational and Multicultural Foundations (DSS/CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- SCED5821 - Three-Dimensional Science and Engineering Pedagogical Knowledge

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- SCED4300 - Clinical Experience II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Fall	16	0

Requirement Select

- CHEM4990 - Undergraduate Seminar (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select

- SCED5200 - Language, Literacy, and Learning in the Content Areas (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- SCED5210 - Learning Theory, Curriculum, and Assessment

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- SCED5100 - Motivation and Classroom Management

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Breadth Social Sciences (BSS) Course
  OR
- Breadth Humanities (BHU) Course
  OR
- Breadth American Institutions (BAI) Course
  OR
- Breadth Creative Arts (BCA) Course
  OR
- BIOL1010 - Biology and the Citizen (BLS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Depth Humanities and Creative Arts (DHA) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Spring	12	0

Requirement Select

- SCED5500 - Student Teaching Seminar

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select

- SCED5630 - Student Teaching in Secondary Schools

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	10
Progress Credits	-
Contact Hours	10
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Program Learning Outcomes

Program Learning Outcomes

https://artsci.usu.edu/chem-biochem/assessment/undergraduate/assessment-plan

Civil Engineering - BS

Program Overview

College
College of Engineering

Department
Civil & Environmental Engineering

Program Level
Undergraduate

About this Degree

Civil engineers plan, design, construct, and maintain public works, such as roads, bridges, and harbors. While they focus on building, they also look at the environmental impact of the structure and the structure's stability in the case of environmental hazards, such as earthquakes and hurricanes.

- For more information about Civil Engineering, see the Civil and Environmental Engineering department.
- Admitted and current students must meet with an advisor.
- Log on to Degree Works to check student-specific program progress.
- The Civil Engineering BS Program is accredited by the Engineering Accreditation Commission of ABET, https://www.abet.org, under the commission's General Criteria and the Program Criteria for Civil Engineering and Similarly Named Programs.
- The highest math requirement for this degree is MATH2250 LINEAR ALG/DIFF EQUATIONS (QI)

Admission Requirements for this Program

New Freshman and Transfer Students (from other institutions or other USU programs)

- Admitted to USU in Good Standing

New Freshman:

- 2.8 High School GPA or higher
- 20 ACT or 1030 SAT or higher

Admission Requirements for the Pre-Professional Program:

- Completion of Engineering Foundations courses (listed below)
- MATH1210 CALCULUS I (QL), MATH 1220, CHEM 1210, CHEM 1215, PHYS 2210, PHYS 2215, ENGR 1010, ENGR 1400 completed with a C- or higher
- 2.8 or higher GPA in Engineering Foundations courses

Program Requirements

Total Credits Required In Program Coursework
102-103

Total Credits Required To Earn This Credential
120

Simple Requisites

Program Requirements

Civil Engineering- BS Course Requirements

Type
Completion Requirement

Engineering Foundations Courses (25 credits)

- A Cumulative USU GPA of 2.8 or higher is required in Engineering Foundations courses.

- Engineering Foundations courses: Math 1210, Math 1220, ENGR 1010, ENGR 1400, PHYS 2210, PHYS 2215, CHEM 1210, CHEM 1215 require a grade of C- or higher.
- The P/D+, D, F grading option may not be used in required courses completed as part of Engineering Foundations program. (The P/D+, D, F grading option is approved for University Studies Courses.)

Complete ALL of the following Courses:

- CHEM1210 - Principles of Chemistry I - 4cr.
- CHEM1215 - Chemical Principles Laboratory I - 1cr.
- ENGR1010 - Engineering Exploration - 3cr.
- ENGR1400 - Computer Programming for Engineers - 4cr.
- MATH1210 - Calculus I (QL) - 4cr.
- MATH1220 - Calculus II (QL) - 4cr.
- PHYS2210 - Physics for Scientists and Engineers I (QI/BPS) - 4cr.
- PHYS2215 - Physics for Scientists and Engineers Lab I - 1cr.

Pre- Professional Program Courses (27 credits)

- An institution GPA of 2.5 or higher is required in the pre-professional courses.
- The P/D+, D, F grading option may not be used in required courses completed as part of Engineering Foundations or a pre-professional program. (The P/D+, D, F grading option is approved for University Studies Courses.)
- All courses require a grade of C- or better.

Complete ALL of the following Courses:

- CEE2240 - Engineering Surveying - 3cr.
- CEE2270 - Computer Engineering Drafting - 2cr.
- ENGR2010 - Engineering Mechanics Statics - 3cr.
- ENGR2030 - Engineering Mechanics Dynamics - 3cr.
- ENGR2140 - Mechanics of Materials - 3cr.
- GEO1110 - Physical Geology (BPS) - 3cr.
  OR CHEM1220 - Principles of Chemistry II (BPS) - 4cr.
- MATH2210 - Multivariable Calculus (QI) - 3cr.
  OR STAT3000 - Statistics for Scientists (QI) - 3cr.
- MATH2250 - Linear Algebra and Differential Equations (QI) - 4cr.
- ENGL2010 - Research and Argument Across Perspectives (CL2) - 3cr.
  OR ENGL2020 - Professional Communication (CL2) - 3cr.

***ENGL2010 RSRCH&ARGUMENT PRSPCTVES (CL2) or ENGL2020 PROFESSNL COMMUNICATION (CL2) will fulfill the major requirement. Whichever course is taken becomes required for the pre-professional program.**

Civil Engineering Professional Program Coursework (21 credits)

For Civil Engineering majors in the professional program the following academic regulations apply, in addition to University regulations:

1. A GPA of 2.0 or higher must be maintained in all upper-division engineering/math/science courses required for, or used as technical electives in, this major. Courses which were part of the pre-professional program requirements and University Studies courses are not included in this GPA calculation.
2. For Civil Engineering, not more than 10 hours of D or D+ credit may be applied toward meeting graduation requirements in engineering/math/science classes.
3. College of Engineering courses may be repeated only once. Audits count as a time taking a class unless prior written approval is obtained from the department head. A maximum of three required or elective courses completed as part of a professional program can be repeated in order to meet graduation requirements. (Courses completed as part of a pre-professional program are not included in this total of three repeats.)
4. The P/D+, D, F grading option may not be used in required or elective courses completed as part of a professional program. (The P/D+, D, F grading option is approved for University Studies Courses.)
5. The academic regulations listed above (1-4) apply to required coursework and any elective engineering/math/science course which could be used to satisfy graduation requirements for the chosen degree.

Complete ALL of the following Courses:

- CEE2450 - Computer Programming and Numerical Methods for Civil and Environmental Engineers - 3cr.
- CEE3160 - Civil Engineering Materials - 2cr.
- CEE3165 - Civil Engineering Materials Laboratory - 1cr.
- CEE3500 - Civil and Environmental Engineering Fluid Mechanics - 3cr.
- CEE3610 - Environmental Management - 3cr.
- CEE3880 - Civil and Environmental Design I - 2cr.
- CEE4870 - Civil and Environmental Design II (CI) - 2cr.
- CEE4880 - Civil and Environmental Design III (CI) - 2cr.
- ENGR3080 - Creativity and Communication in Design (CI) - 3cr.

Civil Focus Areas (12 credits)

A GPA of 2.0 or higher must be maintained in all upper-division engineering/math/science courses required for, or used as technical electives in, this major.

Complete ALL of the following Courses:

- CEE3020 - Structural Analysis - 3cr.
- CEE3210 - Introduction to Transportation Engineering - 3cr.
- CEE3430 - Engineering Hydrology - 3cr.
- CEE3300 - Engineering Soil Mechanics - cr.

Technical Elective Courses (20 credits required)

A GPA of 2.0 or higher must be maintained in all upper-division engineering/math/science courses required for, or used as technical electives in, this major.

Students must take 20 credits (not previously taken to fulfill other degree requirements) from the following list:

Earn at least 20 credits from the following:

- CEE3080 - Design of Reinforced Concrete Structures - 3cr.
- CEE3330 - Ancient and Modern Civil Engineering in Italy and France - 3cr.
- CEE3510 - Civil and Environmental Engineering Hydraulics - 3cr.
- CEE3640 - Drinking Water Engineering - 3cr.
- CEE3650 - Wastewater Engineering - 3cr.
- CEE3670 - Transport Phenomena in Bio-Environmental Systems - 3cr.
- CEE3780 - Solid and Hazardous Waste Management - 3cr.
- CEE5003 - Remote Sensing of Land Surfaces - 3cr.
- CEE5005 - Design and Evaluation of Gravity Irrigation Systems - 3cr.

- CEE5006 - Agricultural Water Management - 3cr.
- CEE5008 - Management of Irrigation Systems - 3cr.
- CEE5010 - Matrix Analysis/Finite Element - 3cr.
- CEE5015 - Structural Design Loads - 3cr.
- CEE5050 - Design of Wood and Masonry Structures - 3cr.
- CEE5060 - Mechanics of Composite Materials - 3cr.
- CEE5070 - Structural Steel Design - 3cr.
- CEE5190 - Geographic Information Systems for Civil Engineers - 3cr.
- CEE5220 - Traffic Operations and Management - 3cr.
- CEE5230 - Geometric Design of Highways - 3cr.
- CEE5240 - Transportation Planning - 3cr.
- CEE5255 - Transportation Safety - 3cr.
- CEE5350 - Foundation Analysis and Design - 3cr.
- CEE5380 - Earthquake Engineering - 3cr. (Inactive)
- CEE5410 - Engineering Systems Analysis - 3cr.
- CEE5430 - Groundwater Engineering - 3cr.
- CEE5470 - Sedimentation Engineering - 3cr.
- CEE5490 - Integrated River Basin/Watershed Planning and Management - 3cr.
- CEE5500 - Open Channel Hydraulics - 3cr.
- CEE5540 - Hydraulic Structures Design - 3cr.
- CEE5550 - Hydraulics of Closed Conduits - 3cr.
- CEE5655 - Green Stormwater Infrastructure - 3cr.
- CEE5750 - Air Quality Measurements - 2cr.
- CEE5830 - Management and Utilization of Biological Solids and Wastewater - 3cr.
- CEE5860 - Air Quality Management - 3cr.
- CEE5880 - Remediation Engineering - 3cr.
- CEE5930 - Independent Study - 1cr.

Registration for CEE5930 INDEPENDENT STUDY must be approved on a case-specific basis

Open Electives

Complete the following as needed:
Total elective credit is determined by General Education courses taken, degree type selected, additional credits earned, and any additional math or other prerequisite courses needed. Please consult your Academic Advisor for details.

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Bachelor's Degree)

Suggested Degree Maps

Degree Map Name
Suggested Degree Map - Civil Engineering BS
Total Degree Map Credits
123 - 126
Degree Map Effective Catalog Year
2027 -

Degree Map Narrative

- Following is a sample four-year plan. Please note that student-specific plans may differ.
- Meet with an academic advisor to create a specific plan that best fits your academic needs.
- The student is ultimately responsible for knowing and completing all degree requirements.
- Make sure you meet the registration requirements for each class by clicking the course link and checking any prerequisites or corequisites.
- Consultation with an advisor may result in an altered plan customized for an individual student.
- Check your Degree Works for requirements and completion.

*Please note: ENGL1010 WRITING AS INQUIRY (CL1) is required by USU but is not included in the degree map because most engineering students satisfy this requirement through an ACT English score, an SAT Critical Reading score, Advanced Placement (AP) Examinations or College-Level Examination Program (CLEP).

Passing the Fundamentals of Engineering Exam is part of the degree requirements. It is highly recommended students take the exam before the fall semester of their senior year.

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	15	0

Requirement Select
- CHEM1210 - Principles of Chemistry I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	Major
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- CHEM1215 - Chemical Principles Laboratory I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	Major
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- MATH1210 - Calculus I (QL)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	Major
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- Breadth American Institutions (BAI) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	General Education
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- ENGR1010 - Engineering Exploration

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	Major
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	16	0

Requirement Select
- MATH1220 - Calculus II (QL)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	Major
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- PHYS2210 - Physics for Scientists and Engineers I (QI/BPS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	Major
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- PHYS2215 - Physics for Scientists and Engineers Lab I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	Major
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- ENGR1400 - Computer Programming for Engineers

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	Major
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- ENGL2010 - Research and Argument Across Perspectives (CL2)

  OR
- ENGL2020 - Professional Communication (CL2)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	General Education
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	15 - 16	0

Requirement Select
- MATH2210 - Multivariable Calculus (QI)

  OR
- STAT3000 - Statistics for Scientists (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	Major
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- ENGR2010 - Engineering Mechanics Statics

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	Major
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Breadth Life Sciences (BLS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	General Education
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- GEO1110 - Physical Geology (BPS)

  OR
- CHEM1220 - Principles of Chemistry II (BPS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	Major
Actual Credits	3 - 4
Progress Credits	-
Contact Hours	3 - 4
Clinical	-
Criticality	No

Requirement Select

- CEE2240 - Engineering Surveying

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	Major
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	15	0

Requirement Select

- ENGR2030 - Engineering Mechanics Dynamics

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	Major
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- ENGR2140 - Mechanics of Materials

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	Major
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- MATH2250 - Linear Algebra and Differential Equations (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	Major
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- CEE2270 - Computer Engineering Drafting

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	Major
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select
- Breadth Humanities (BHU) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	General Education
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Fall	15	0

Requirement Select
- CEE3160 - Civil Engineering Materials

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	Major
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select
- CEE3165 - Civil Engineering Materials Laboratory

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	Major
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- CEE3500 - Civil and Environmental Engineering Fluid Mechanics

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	Major
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- CEE3610 - Environmental Management

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	Major
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- ENGR3080 - Creativity and Communication in Design (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	Major
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- CEE2450 - Computer Programming and Numerical Methods for Civil and Environmental Engineers

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	Major
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Spring	14	0

Requirement Select
- CEE3880 - Civil and Environmental Design I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	Major
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select
- CEE3020 - Structural Analysis

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	Major
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- CEE3210 - Introduction to Transportation Engineering

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	Major
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- CEE3430 - Engineering Hydrology

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	Major
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- CEE3300 - Engineering Soil Mechanics

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	Major
Actual Credits	3
Progress Credits	-
Contact Hours	0 - 3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Fall	16 - 17	0

Requirement Select
- CEE4870 - Civil and Environmental Design II (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	Major
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select
- Civil Engineering Technical Elective (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	Major
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Civil Engineering Technical Elective (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	Major
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Civil Engineering Technical Elective (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	Major
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Civil Engineering Technical Elective (2 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	Major
Actual Credits	2
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Breadth Social Sciences (BSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	General Education
Actual Credits	3 - 4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Spring	17 - 18	0

Requirement Select

- CEE4880 - Civil and Environmental Design III (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	Major
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select

- Civil Engineering Technical Elective (3 Credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	Major
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Civil Engineering Technical Elective (3 Credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	Major
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Civil Engineering Technical Elective (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	Major
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Depth Humanities and Creative Arts (DHA) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	General Education
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Depth Social Sciences (DSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	Total Major Credits
18 - 19	102 - 103
Total Minor Credits	**Total Elective Credits**
0	0

Program Learning Outcomes

Program Learning Outcomes
https://www.usu.edu/oda/assessment/

Criminal Justice - Minor

Program Overview

College
College of Arts & Sciences

Department
School of Social Sciences

Program Level
Undergraduate

About this Degree
The degree requires students have a substantial understanding of the criminal justice system in general. It reflects the realities and concerns of society and draws from a wide variety of academic disciplines such as political science, psychology, history and sociology.

Program Requirements

Total Credits Required In Program Coursework
15

Total Credits Required To Earn This Credential
15

Simple Requisites

Program Requirements

Students must have a GPA of 2.5 or higher USU and Overall to declare for this Minor.

Students must have a GPA of 2.5 or higher in Criminal Justice courses and an overall GPA of 2.0 or higher and overall USU GPA of 2.0 in order to graduate.

Criminal Justice courses over 10 years old do not count toward the minor requirement. 50% of classes need to be taken at USU. Classes taken P/F and earning a "P" grade cannot be counted toward the major without special permission. You must earn a grade of "C" or better in CJ1010 INTRO TO CRIMINAL JUSTICE(BSS), and a "C-" or better in all other courses to be counted toward the degree.

Secion 1

Type
Completion Requirement

Required Courses (9 credits)

Complete ALL of the following Courses:

- CJ1010 - Introduction to Criminal Justice (BSS) - 3cr.
- CJ1300 - Introduction to Corrections - 3cr.
  OR CJ1330 - Criminal Law - 3cr.
  OR CJ1390 - Introduction to Policing - 3cr.
- SOC3420 - Criminology - 3cr.

Required Course (3 credits)

Complete at least 1 of the following courses:

- CJ1030 - Introduction to Firearms Handling/Safety - 3cr.
- CJ1060 - POST Certification: Special Function Officer (SFO) - 8cr.
- CJ1070 - POST Certification: Basic Corrections Officer (BCO) - 5cr.
- CJ1080 - POST Certification: Law Enforcement Officer (LEO) - 12cr.
- CJ1300 - Introduction to Corrections - 3cr.
- CJ1330 - Criminal Law - 3cr.
- CJ1340 - Criminal Investigations - 3cr.
- CJ1350 - Introduction to Forensic Science - 3cr.
- CJ1355 - Crime Scene Processing - 3cr.
- CJ1390 - Introduction to Policing - 3cr.

- CJ2110 - Managing Security: Threats, Risk, and Leadership - 3cr.
- CJ2330 - Juvenile Justice - 3cr.
- CJ2350 - Laws of Evidence - 3cr.
- CJ2360 - Juvenile Law and Procedures - 3cr.
- CJ2370 - Child Abuse and Neglect - 3cr.
- CJ3110 - School Resource Officer: Safety and Crime Prevention in an Educational Setting - 3cr.
- CJ3150 - Moot Court - 3cr.
- CJ3320 - Criminal Procedure - 3cr.
- CJ3370 - Gender-Based Violence - 3cr.
- CJ3400 - Tribal Criminal Justice Systems - 3cr.
- CJ4200 - Criminal Justice Ethics - 3cr.
- CJ4310 - Corrections Law & Inmate Rights - 3cr.
- CJ4350 - Courtroom Communication (CI) - 3cr.
- CJ4440 - The Origins of the United States Criminal Justice System (DSS) - 3cr.
- CJ4450 - Foundations of Leadership - 3cr.
- CJ4460 - Advanced Leadership Skills - 3cr.
- CJ4470 - Specialized Leadership Project - 3cr.
- CJ4480 - Executive Leadership - 3cr.
- CJ4770 - Criminal Justice Field Education and Experience - 3cr.

Required Course (3 credits)

Complete at least 1 of the following courses:

- SOC3410 - Juvenile Delinquency - 3cr.
- SOC3430 - Social Deviance (DSS) - 3cr.
- SOC3520 - Sociology of Mental Illness - 3cr.
- SOC4410 - Race and Crime (CI) - 3cr.
- SOC4420 - Law and Society (CI) - 3cr.

Program Learning Outcomes

Program Learning Outcomes

https://chass.usu.edu/criminal-justice/assessments

Criminal Justice - BA, BS

Program Overview

College	Department	Program Level
College of Arts & Sciences	School of Social Sciences	Undergraduate

About this Degree

Criminal justice is the structure of laws involving the three components of the system: law enforcement, courts, and corrections. It involves the procedures created to maintain social order, control crime, and direct justice to those who violate these laws. It encompasses a wide range of activities that relate to detection, apprehension, prosecution, and punishment of law violators. These systems can vary from location to location and can even differ within one state. However, the overall goal is to balance the interest of justice, public safety and the rights of the accused.

Students will gain the knowledge and skills needed to pursue a career in criminal justice and related fields, such as law enforcement, probation and parole, corrections, paralegal, pre-law, juvenile probation/detention, court clerk, forensics (CSI), or private investigator.

- For more information about Criminal Justice, see the Criminal Justice Program website.
- Admitted and current students must meet with an academic advisor.
- Log on to Degree Works to check student-specific program progress.
- The highest math requirement for this degree is STAT1040 INTRO TO STATISTICS (QL) or MATH1030 QUANTITATIVE REASONING (QL) or STAT1080 FOUNDATIONS OF DATA SCI (QL) or STAT1045 INTRO STAT WITH ALGEBRA (QL) to fulfill the General Education Requirements Quantitative Literacy (QL) requirement.

Admission Requirements for this Program

- New Freshmen must have a minimum GPA for Admission: 2.50-Overall; 2.50-USU
- Additional Matriculation Requirement for new freshmen: Complete CJ1010 INTRO TO CRIMINAL JUSTICE(BSS), with a minimum grade of C or better and at least one other CJ-prefix class with a grade of C- or better
- Transfer students from other institutions or other programs at USU must have a 2.50 GPA.

Program Requirements

Total Credits Required In Program Coursework	Total Credits Required To Earn This Credential
74-77	120

Simple Requisites

Program Requirements

Major Requirements (74-77 credits)

- Minimum GPA for Graduation: 2.50-major requirements; 2.0-USU; 2.0-Overall GPA.
- Minimum Grade Accepted: C in CJ1010 INTRO TO CRIMINAL JUSTICE(BSS); C- in major courses.
- Classes taken P/F and earning a "P" grade cannot be counted toward the major without special permission.

Criminal Justice majors must meet the requirements listed below.

Bachelor of Science Degree

Students desiring a Bachelor of Science (BS) degree must complete all requirements listed in the sample four-year plan.

Bachelor of Arts Degree

In addition to completion of the requirements for a bachelor's degree, a Bachelor of Arts (BA) degree signifies proficiency in one or more foreign languages. Please see Minimum University Requirements (Bachelor's Degree) for more information about the language requirements.

More Information:

- New Freshmen must have a minimum GPA for Graduation: 2.5, major; 2.0, USU; 2.0, Overall.
- Minimum Grade Accepted for New Freshmen: C in CJ1010 INTRO TO CRIMINAL JUSTICE(BSS); C- in major courses.

A minor outside the program is encouraged but not required.

Criminal Justice - BA, BS

Type

Completion Requirement

Complete the general requirements of the University

Majors are expected to take one of the following courses with a minimum grade of C- or equivalent to fulfill the Quantitative Literacy (QL) General Education Requirements.

Complete at least 1 of the following courses:

- MATH1030 - Quantitative Reasoning (QL) - 3cr.
  OR MATH1050 - College Algebra (QL) - 4cr.
  OR MATH1060 - Trigonometry - 2cr.
- STAT1040 - Introduction to Statistics (QL) - 3cr.
  OR STAT1045 - Introduction to Statistics with Elements with Algebra (QL) - 5cr.
  OR STAT1080 - Foundations of Data Science (QL) - 3cr.
- STAT2000 - Statistical Methods (QI) - 4cr.
  OR STAT2300 - Business Statistics (QL) - 4cr.

Criminal Justice Coursework (36 credits)

Complete a minimum of 36 credits in Criminal Justice coursework. At least fifty percent of the criminal justice coursework must be completed in the USU Criminal Justice program. Criminal Justice majors must maintain a minimum GPA of 2.5 in Criminal Justice courses and earn a grade of C or better in CJ1010 INTRO TO CRIMINAL JUSTICE(BSS) and a C- or better in all other courses to be counted toward the major. Criminal Justice courses over 10 years old do not count toward the major requirement.

Fulfill ALL of the following requirements:

Required Courses (27 credits)

Complete ALL of the following Courses:

- ANTH3200 - Perspectives on Race (DSS/CI) - 3cr.
  OR SOC4410 - Race and Crime (CI) - 3cr.
- CJ1010 - Introduction to Criminal Justice (BSS) - 3cr.
- CJ1300 - Introduction to Corrections - 3cr.
- CJ1330 - Criminal Law - 3cr.
- CJ1390 - Introduction to Policing - 3cr.
- CJ4200 - Criminal Justice Ethics - 3cr.
- SOC3110 - Methods of Social Research (CI) - 3cr.
- SOC3120 - Social Statistics I (QI) - 3cr.
- SOC3420 - Criminology - 3cr.

AND

Criminal Justice Elective courses (9 credits)

Earn at least 9 credits from the following:

- ANTH1010 - Cultural Anthropology (BSS) - 3cr.
- ANTH1090 - Introduction to Interfaith Leadership (BHU) - 3cr.
- CJ1030 - Introduction to Firearms Handling/Safety - 3cr.
- CJ1060 - POST Certification: Special Function Officer (SFO) - 8cr.
- CJ1070 - POST Certification: Basic Corrections Officer (BCO) - 5cr.
- CJ1080 - POST Certification: Law Enforcement Officer (LEO) - 12cr.
- CJ1340 - Criminal Investigations - 3cr.
- CJ1350 - Introduction to Forensic Science - 3cr.
- CJ2110 - Managing Security: Threats, Risk, and Leadership - 3cr.
- CJ2330 - Juvenile Justice - 3cr.
- CJ2350 - Laws of Evidence - 3cr.
- CJ2360 - Juvenile Law and Procedures - 3cr.
- CJ2370 - Child Abuse and Neglect - 3cr.
- CJ3110 - School Resource Officer: Safety and Crime Prevention in an Educational Setting - 3cr.
- CJ3150 - Moot Court - 3cr.
- CJ3320 - Criminal Procedure - 3cr.
- CJ3370 - Gender-Based Violence - 3cr.
  OR SOC3370 - Gender-Based Violence - 3cr.
- CJ3400 - Tribal Criminal Justice Systems - 3cr.
- CJ3440 - Victimology - 3cr.
- CJ4310 - Corrections Law & Inmate Rights - 3cr.
- CJ4350 - Courtroom Communication (CI) - 3cr.
- CJ4440 - The Origins of the United States Criminal Justice System (DSS) - 3cr.
- CJ4770 - Criminal Justice Field Education and Experience - 3cr.
- CJ4900 - CJ Capstone Experience - 1cr.
- SOC1010 - Introductory Sociology (BSS) - 3cr.
- SOC1020 - Social Problems (BSS) - 3cr.
- SOC2630 - Sociology of Race and Ethnicity (BSS) - 3cr.
- SOC2650 - Globalization and International Development (BSS) - 3cr.
- SOC3010 - Social Inequality (DSS) - 3cr.
- SOC3400 - Tribal Criminal Justice Systems - 3cr.
- SOC3410 - Juvenile Delinquency - 3cr.
- SOC3430 - Social Deviance (DSS) - 3cr.
- SOC3520 - Sociology of Mental Illness - 3cr.
- SOC4420 - Law and Society (CI) - 3cr.
- WILD4550 - Wildlife Law Enforcement - 3cr.

Open Electives

Complete the following;
Total elective credit is determined by General Education courses taken, degree type selected, additional credits earned, and any additional math or other prerequisite courses needed. Please consult your Academic Advisor for details.

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Bachelor's Degree)

Suggested Degree Maps

Degree Map Name
Suggested Degree Map - Criminal Justice BS
Total Degree Map Credits
120 - 121
Degree Map Effective Catalog Year
2027 -

Degree Map Narrative

- Following is a sample four-year plan. Please note that student-specific plans may differ.
- Meet with an academic advisor to create a specific plan that best fits your academic needs.
- The student is ultimately responsible for knowing and completing all degree requirements.
- Make sure you meet the registration requirements for each class by clicking the course link and checking any prerequisites or corequisites.
- Consultation with an advisor may result in an altered plan customized for an individual student.
- Check your Degree Works for requirements and completion.

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	15 - 16	0

Requirement Select
- CJ1010 - Introduction to Criminal Justice (BSS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Communications Literacy (CL1) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Breadth Creative Arts (BCA) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Breadth Humanities (BHU) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	15	0

Requirement Select
- CJ1300 - Introduction to Corrections

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Breadth Life Sciences (BLS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Breadth Physical Sciences (BPS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Quantitative Literacy (QL) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elecctive Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	15	0

Requirement Select
- CJ1390 - Introduction to Policing

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Communications Literacy (CL2) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Breadth American Institutions (BAI) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	15	0

Requirement Select
- CJ1330 - Criminal Law

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Breadth American Institutions (BAI) Course
  OR
- Breadth Creative Arts (BCA) Course
  OR
- Breadth Humanities (BHU) Course
  OR
- Breadth Life Sciences (BLS) Course
  OR
- Breadth Physical Sciences (BPS) Course
  OR
- Breadth Social Sciences (BSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Depth Humanities and Creative Arts (DHA) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Fall	15	0

Requirement Select
- SOC3110 - Methods of Social Research (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- SOC3420 - Criminology

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- CJ Elective course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- General Elective course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- General Elective course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Spring	15	0

Requirement Select

- SOC3120 - Social Statistics I (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- ANTH3200 - Perspectives on Race (DSS/CI)

  OR
- SOC4410 - Race and Crime (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Depth Life and Physical Sciences (DSC) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- CJ Elective course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- CJ Elective course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Fall	15	0

Requirement Select

- CJ4200 - Criminal Justice Ethics

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- General Elective course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- General Elective course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- General Elective course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- General Elective course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Spring	15	0

Requirement Select

- CJ 4770 is recommended but not required. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- CJ4770 - Criminal Justice Field Education and Experience

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- CJ Elective course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- General Elective course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- General Elective course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- General Elective course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Program Learning Outcomes

Program Learning Outcomes

https://www.usu.edu/oda/assessment/

Climate Change and Energy - Minor

Program Overview

College
College of Agriculture & Natural Resources

Department
Plants, Soils and Climate

Program Level
Undergraduate

Program Requirements

Total Credits Required In Program Coursework
15

Total Credits Required To Earn This Credential
15

Simple Requisites

Program Requirements

To graduate with the Climate Change and Energy minor, a minimum GPA of 2.5 is required in minor coursework.

Section 1

Type
Completion Requirement

The following three courses are required:

Complete ALL of the following Courses:

- GEO1360 - Planet Earth (BPS) - 3cr.
- GEO3150 - Energy in the Twenty-first Century (DSC/QI) - 3cr. **OR** PHYS3150 - Energy in the Twenty-first Century (DSC/QI) - 3cr.
- PSC4820 - Challenges in Climate Change and Energy - 3cr.

Section 2

Type
Completion Requirement

In addition to completing these required courses, students must select one course from each of the following two categories:

Fulfill ALL of the following requirements:

Climate Science

Complete at least 1 of the following courses:

- PSC5760 - Climate and Climate Change (DSC)(QI) - 3cr.
- PSC5680 - Paleoclimatology - 3cr.
- WATS5680 - Paleoclimatology - 3cr.

AND

Socioeconomic

Complete at least 1 of the following courses:

- APEC3012 - Introduction to Natural Resource Economics (DSS) - 3cr.
- ENVS5550 - Sustainability: Concepts and Measurement - 3cr.

Program Learning Outcomes

Program Learning Outcomes

https://caas.usu.edu/psc/assessment

Classics: Emphasis in Civilization - Minor

Program Overview

College	Department	Program Level
College of Arts & Sciences	History, Cultures & Ideas	Undergraduate

About this Degree

Coordination: Frances B. Titchener, Department of History
Location: Main 323
Phone: (435) 797-1290
FAX: (435) 797-3899
E-mail: mark.damen@usu.edu, susan.o.shapiro@usu.edu, frances.titchener@usu.edu
Website: history.usu.edu/classics

An academic minor is available in the field of Classical Studies with four areas of emphasis: **Classical Civilization**, **Latin Language**, **Greek Language**, and **Latin Teaching**. From the ancient civilizations of the Mediterranean area are derived our government, literature, sciences, and laws. The classical world is the backdrop of the modern world. In association with various majors, all the Classics minors are designed to enhance intellectual abilities and practical skills.

Program Requirements

Total Credits Required To Earn This Credential

19

Simple Requisites

Program Requirements

A minimum grade of C+ is required for all courses counting toward the Classics minor. A minimum GPA of 2.5 is required in minor coursework. Minor courses may *not* be taken for a pass/fail grade.

Section 1

Type
Completion Requirement

Required Courses (6 credits)

Earn a minimum grade of C+ in the following:

- HIST3130 - Greek History (DHA/CI) - 3cr.
- HIST3150 - Roman History (CI) - 3cr.

Section 2

Type
Completion Requirement

Electives (13 credits)

Earn at least 13 credits from the following:

- ANTH1030 - World Archaeology (BSS) - 3cr.
- ARTH3610 - Classical Art History: Greece and Rome (CI) - 3cr.
- GRK1010 - Beginning Ancient Greek I - 5cr.
- GRK1020 - Beginning Ancient Greek II - 5cr.
- HIST1120 - Building English Vocabulary: The Latin and Greek Element in English - 3cr.
- HIST3110 - Ancient Near East (DHA/CI) - 3cr.
- HIST3160 - Classical Drama and Society - 3cr.
- HIST3170 - Descent and Return: Ancient Views of Hades and the Afterlife - 3cr.
- HIST3210 - Classical Mythology - 3cr.
- HIST4350 - Greek Intellectual History - 3cr.
- LATN1010 - Beginning Latin I - 5cr.
- LATN1020 - Beginning Latin II - 5cr.
- PHIL3010 - Survey of Ancient and Medieval Philosophy (CI) - 3cr.
- POLS4310 - History of Political Thought I (CI) - 3cr.

Additional Comments:

NOTE:

Requirement Changes: Graduation requirements shown on this sheet are subject to change. Students should check with their assigned advisor concerning possible changes.

Materials for Persons with Disabilities: This requirement sheet is available in digital format, recordings, or large print upon request to the USU Disability Resource Center.

Program Learning Outcomes

Program Learning Outcomes

https://chass.usu.edu/history/assessments-resources/history-and-history-teaching/assessment-plan

Climate Change Solutions - Certificate

Program Overview

College
College of Agriculture & Natural Resources

Department
Environment & Society

Program Level
Undergraduate

About this Degree

The Climate Change Solutions Certificate prepares undergraduate students from across the University to contribute to addressing climate change. The certificate curriculum focuses on developing knowledge and skills for climate change mitigation, adaptation and resilience. It is designed to be easily completed alongside a variety of majors. Students pursuing this certificate will learn about climate change impacts, climate and environmental justice, communicating about climate change, strategies for mitigating greenhouse gas emissions, and adaptation and resilience responses and planning. Students also will learn about climate policy and the role of governments, businesses, civil society, and individuals in addressing climate change at local to global scales.

The certificate uses the concept of solutions in line with usage by the Intergovernmental Panel on Climate Change. Climate change solutions refers to responses to climate change that emphasize effectiveness, feasibility, and just means to reduce climate risk and increase resilience (IPCC). This certificate is designed to prepare students to engage in a wide-range of response actions to help transition organizations and businesses, communities, and societies to reduce risk and enhance resilience. Certificate recipients are prepared to help lead climate change solutions from within a full range of other careers. They are prepared to work for the private for-profit sector, government agencies, NGOs, and international organizations.

Students can combine coursework with hands-on research and projects related to climate change mitigation and adaptation. This could involve fieldwork, data analysis, and modeling, as well as engagement with stakeholders and communities affected by climate change. Students are encouraged to review opportunities through USU's Climate Adaptation Intern Program (https://qanr.usu.edu/research/caip/).

Admission Requirements for this Program

Students should make an appointment with an academic advisor in the S. J. and Jessie E. Quinney College of Agriculture and Natural Resources to add this certificate: https://qanr.usu.edu/advising/.

Program Requirements

Total Credits Required In Program Coursework
16

Total Credits Required To Earn This Credential
16

Simple Requisites

Program Requirements

To receive the certificate, a student must complete the following set of requirements:

- Register for and successfully complete at least 16 credits.
- Grades below C- will not be accepted, and the grade point average for all courses with ENVS, GEOG, WATS, and WILD prefixes must be 2.5 or higher.
- Abide by the Code of Policies and Procedures for Students at Utah State University.

Climate Change Solutions Certificate Requirements

Type
Completion Requirement

A. Knowledge Foundations (6 credits)

Take the following two courses for foundational knowledge for socio-environmental systems thinking.

Complete ALL of the following Courses:

- ENVS2340 - Environment, Natural Resources, and Society (BSS) - 3cr.
- ENVS5750 - Global Change Ecology - 3cr.

B. Climate Change Solutions Theory-Application (6 credits)

Select two courses from this list. Other courses may be accepted with program review and approval.

Complete at least 2 of the following courses:

- ENVS4000 - Human Dimensions of Natural Resource Management (DSS) - 3cr.
- ENVS4030 - Building Community Environmental Resilience - 3cr.
- ENVS4200 - Sustainability Metrics - 3cr.
- ENVS5020 - Human Dimensions of Fire Management - 3cr.
- GEOG5400 - Natural Hazards and Society - 3cr.
- SOC3300 - Sociology of Climate Change - 3cr.

C. Affiliated Knowledge and Communication (3 credits)

Select one course from this list. Other courses may be accepted with program review and approval.

Complete at least 2 of the following courses:

- CCA3070 - Unveiling the Anthropocene (DSC/QI) - 3cr.
- CMST4260 - Environmental Communication - 3cr.
- ENVS3010 - Natural Resource and Environmental Policy - 3cr.
- ENVS4700 - Communicating Sustainability (CI) - 3cr.
- ENVS5350 - Ecological Economics - 3cr.
- GEOG3100 - Human-Environment Geography (CI) - 3cr.
- PSC2700 - Climate Change Impacts (BPS) - 3cr.
- PSC5760 - Climate and Climate Change (DSC)(QI) - 3cr.
- SOC3310 - Environmental Justice - 3cr.

D. Analytical Skills (1-3 credits)

Select one course from this list or as approved. Other courses may be accepted with program review and approval.

Complete at least 1 of the following courses:

- ENVS3320 - Archaeology of Climate Change (DSS) - 3cr.
- ENVS3500 - Environmental Data Science (QI) - 3cr.
- ENVS5100 - Introduction to Modeling Human-Environment Systems - 3cr.
- GEO3150 - Energy in the Twenty-first Century (DSC/QI) - 3cr.
- GEO3800 - Applied Geoscience Techniques - 3cr.
- PSC5123 - Climate Data Analysis - 3cr.
- GEOG2800 - Introduction to Geographic Information Sciences - 4cr.
  OR WILD2800 - Introduction to Geographic Information Sciences - 4cr.
- ENVS4250 - Advanced Internship/Co-op - 1cr.
- GEOG4920 - GIS Internship - 1cr.
- WATS4100 - Climate Adaptation Intern Program - 3cr.
- WILD4250 - Advanced Internship/Co-op - 1cr.
- ENVS4970 - Undergraduate Research - 1cr.
- WILD4970 - Undergraduate Research - 1cr.

Undergraduate Research and Internship courses above must be have a climate mitigation and/or adaptation focus.

Program Learning Outcomes

Program Learning Outcomes

https://qcnr.usu.edu/envs/about/assessment

Classics: Emphasis in Greek Language - Minor

Program Overview

College
College of Arts & Sciences

Department
History, Cultures & Ideas

Program Level
Undergraduate

About this Degree

Coordination: Mark Damen, Department of History
Location: Main 323
Phone: (435) 797-1290
E-mail: mark.damen@usu.edu, susan.o.shapiro@usu.edu
Website: https://artsci.usu.edu/history-cultures-ideas/classics/

An academic minor is available in the field of Classical Studies with four areas of emphasis: **Classical Civilization**, **Latin Language**, **Greek Language**, and **Latin Teaching**. From the ancient civilizations of the Mediterranean area are derived our government, literature, sciences, and laws. The classical world is the backdrop of the modern world. In association with various majors, all the Classics minors are designed to enhance intellectual abilities and practical skills.

Program Requirements

Total Credits Required In Program Coursework
13

Total Credits Required To Earn This Credential
13

Simple Requisites

Program Requirements

13 credits

Section 1

Type
Completion Requirement

Required Course (3 credits)

Complete ALL of the following Courses:

- HIST3130 - Greek History (DHA/CI) - 3cr.

Section 2

Type
Completion Requirement

Elective Courses (3 credits)

Complete at least 1 of the following courses:

- ARTH3610 - Classical Art History: Greece and Rome (CI) - 3cr.
- HIST1120 - Building English Vocabulary: The Latin and Greek Element in English - 3cr.
- CLAS3160 - Classical Drama and Society - 3cr.
- CLAS3170 - Descent and Return: Ancient Views of Hades and the Afterlife - 3cr.
- CLAS3210 - Classical Mythology - 3cr.
- HIST4350 - Greek Intellectual History - 3cr.
- PHIL3010 - Survey of Ancient and Medieval Philosophy (CI) - 3cr.

Section 3

Type
Completion Requirement

Classical Greek Language Courses (7 credits)

Earn at least 7 credits
• Complete 7 credits of upper-division (3000 and 4000 level) courses in classical Greek language.

Additional Comments:

NOTE:

Requirement Changes
Graduation requirements shown on this sheet are subject to change. Students should check with their assigned advisor concerning possible changes.

Materials for Persons with Disabilities
This requirement sheet is available in digital format, recordings, or large print upon request to the USU Disability Resource Center.

Program Learning Outcomes

Program Learning Outcomes
https://chass.usu.edu/history/assessments-resources/history-and-history-teaching/learning-objectives

Classics: Emphasis in Latin Language - Minor

Program Overview

College
College of Arts & Sciences

Department
History, Cultures & Ideas

Program Level
Undergraduate

About this Degree

Coordination: Frances B. Titchener, Department of History
Location: Main 323
Phone: (435) 797-1290
FAX: (435) 797-3899
E-mail: mark.damen@usu.edu, susan.o.shapiro@usu.edu, frances.titchener@usu.edu
Website: history.usu.edu/classics

An academic minor is available in the field of Classical Studies with four areas of emphasis: **Classical Civilization**, **Latin Language**, **Greek Language**, and **Latin Teaching**. From the ancient civilizations of the Mediterranean area are derived our government, literature, sciences, and laws. The classical world is the backdrop of the modern world. In association with various majors, all the Classics minors are designed to enhance intellectual abilities and practical skills.

Program Requirements

Total Credits Required To Earn This Credential
13

Simple Requisites

Program Requirements

13

Section 1

Type
Completion Requirement

Required Courses (3 credits)

Complete ALL of the following Courses:

- HIST3150 - Roman History (CI) - 3cr.

Section 2

Type
Completion Requirement

Elective Courses (3 credits)

Complete at least 1 of the following courses:

- ARTH3610 - Classical Art History: Greece and Rome (CI) - 3cr.
- HIST1120 - Building English Vocabulary: The Latin and Greek Element in English - 3cr.
- CLAS3160 - Classical Drama and Society - 3cr.
- CLAS3170 - Descent and Return: Ancient Views of Hades and the Afterlife - 3cr.
- CLAS3210 - Classical Mythology - 3cr.

Section 3

Type
Completion Requirement

Latin Language Courses (7 credits)

Complete 7 credits of upper-division (3000 and 4000 level) courses in Latin language.

Additional Comments:

NOTE:

Requirement Changes
Graduation requirements shown on this sheet are subject to change. Students should check with their assigned advisor concerning possible changes.

Materials for Persons with Disabilities
This requirement sheet is available in digital format, recordings, or large print upon request to the USU Disability Resource Center.

Program Learning Outcomes

Program Learning Outcomes

https://chass.usu.edu/history/assessments-resources/history-and-history-teaching/learning-objectives

Classics: Emphasis in Latin Teaching - Minor

Program Overview

College	Department	Program Level
College of Arts & Sciences	History, Cultures & Ideas	Undergraduate

About this Degree

Coordination: Frances B. Titchener, Department of History
Location: Main 323
Phone: (435) 797-1290
FAX: (435) 797-3899
E-mail: mark.damen@usu.edu, susan.o.shapiro@usu.edu, frances.titchener@usu.edu
Website: history.usu.edu/classics

An academic minor is available in the field of Classical Studies with four areas of emphasis: **Classical Civilization**, **Latin Language**, **Greek Language**, and **Latin Teaching**. From the ancient civilizations of the Mediterranean area are derived our government, literature, sciences, and laws. The classical world is the backdrop of the modern world. In association with various majors, all the Classics minors are designed to enhance intellectual abilities and practical skills.

Program Requirements

Total Credits Required To Earn This Credential

21 credits + 35 credits in STEP

Simple Requisites

Program Requirements

21 credits + 35 credits in STEP

Section 1

Type
Completion Requirement

Required Coures (18 credits)

Complete ALL of the following Courses:

- HIST3150 - Roman History (CI) - 3cr.
- LATN3100 - Intermediate Latin Prose - 3cr.
- LATN3130 - Intermediate Latin Poetry - 3cr.
- LATN4100 - Advanced Latin Readings - 3cr.
- LATN4860 - Latin Pedagogy - 3cr.

Section 2

Type
Completion Requirement

Upper-division Latin Courses (3 credits)

The remaining 3 credits must be taken in upper-division Latin.

Complete ANY of the following Courses:

- LATN4100 - Advanced Latin Readings - 3cr.
  OR LATN4930 - Directed Readings in Latin Poetry and Prose Authors - 1cr.

NOTE:

1. Students may fulfill this requirement *either* by taking LATN 4100 a second time (provided a different author is studied) *or* by taking 3 credits of LATN 4930. (Directed Readings in Latin Poetry and Prose Authors.)

Additional Comments:

Section 3

Type
Completion Requirement

Secondary Teacher Education Program (STEP) (35 credits)

Complete the following for STEP:
In order to receive teaching certification in Latin, students must also pass the PRAXIS exam, as well as successfully complete the STEP as part of their major. For further information about the STEP program, contact the School of Teacher Education and Leadership (TEAL) or see the booklet *Guide to the Undergraduate Program in Secondary Education at USU*, available at the USU Campus Store.

Additional Comments:
NOTE:

Requirement Changes
Graduation requirements shown on this sheet are subject to change. Students should check with their assigned advisor concerning possible changes.

Materials for Persons with Disabilities
This requirement sheet is available in digital format, recordings, or large print upon request to the USU Disability Resource Center.

Program Learning Outcomes

Program Learning Outcomes
https://chass.usu.edu/history/assessments-resources/history-and-history-teaching/learning-objectives

Medical Assistant - Technical Certificate

Program Overview

College
College of Agriculture & Natural Resources

Department
Technology, Design & Technical Ed

Program Level
Undergraduate

About this Degree
Medical assistants are multi-skilled, allied health care professionals responsible for various clinical and/or administrative duties and are an essential part of a healthcare team. This program is designed to prepare students for entry-level positions that will allow them to learn and move into higher-level job opportunities by working with physicians and providers in office settings. Students in this program learn cognitive (knowledge), psychomotor (skills), and affective (behavior) learning domains by focusing on administrative and back office clinical skills. Upon successful completion of all required courses, students participate in an externship in a medical office. Graduates of the program are eligible to take a national certification exam.

National Certification and Examination
After successful completion of the required coursework, students may sit for the Registered Medical Assistant (RMA) through American Medical Technologists (AMT)

Examination applications and practice exams are available at:

http://www.americanmedtech.org/default.aspx

Admission Requirements for this Program
Additional Application Process Required - See below, speak with advisor for details

1. Meet programmatic admission requirements
2. Maintain a 2.67 GPA throughout program

Personal Documentation Requirements:

- Pass background check and drug screen
- Provide documentation of Immunizations

  Physical Demands:

  - Stand or sit for 10 hours per day
  - Push and pull 50 pounds
  - Lift and support 25 pounds
  - Move within confined spaces
  - Manipulate suture as fine as human with/without glasses or contacts.
  - Effective verbal communication in English without visual clues
  - Hear normal speaking level sounds
  - Hear in situations when not able to see lips (when masks are used)
  - Communicate verbally with others

Program Requirements

Total Credits Required In Program Coursework
37

Total Credits Required To Earn This Credential
37

Simple Requisites

Program Requirements

Medical Assistant Course Requirements

Type
Completion Requirement

The following courses are required prior to admittance into the Medical Assistant Program:

Complete ALL of the following Courses:

- ENGL1010 - Writing as Inquiry (CL1) - 3cr.
- HEAL2020 - Emergency First Response - 3cr.
- TENA1100 - Nursing Assistant - 3cr.

Health Professions Math Prerequisite Options

Students must complete one of the following courses:

Complete ALL of the following Courses:

- MATH1050 - College Algebra (QL) - 4cr.
- STAT1040 - Introduction to Statistics (QL) - 3cr.
- STAT1045 - Introduction to Statistics with Elements with Algebra (QL) - 5cr.

The following courses are required for the Certificate of Completion in Medical Assistant:

Fulfill ALL of the following requirements:

Semester 1

Complete ALL of the following Courses:

- HEAL1008 - Medical Terminology - 2cr.
- HEAL1030 - Medical Assistant: Administrative Competencies - 4cr.
- HEAL1035 - Medical Assistant: Administrative Competencies Lab - 3cr.
- HEAL1500 - Anatomy and Physiology (BLS) - 4cr.
- HEAL1700 - Medical Assistant Externship I - 1cr.
- TEPH1010 - Phlebotomy I - 2cr.
- TEPH1020 - Phlebotomy II - 1cr.

AND

Semester Two

Complete at least 1 of the following courses:

- HEAL1600 - Medical Assistant: Clinical Competencies - 6cr.
- HEAL1701 - Medical Assistant Externship II - 3cr.
- HEAL1900 - Diseases of the Human Body - 3cr.
- TEPT1320 - Pharmacology - 3cr.

AND

Medical Assistant Clinical Competencies Lab

The Medical Assistant Clinical Competencies Lab course was embedded in the Medical Assistant Clinical Competencies Course which was 6 credits total. We are separating the course into the didactic portion (MA Clinical Competencies-4 credits) and the lab portion (MA Clinical Competencies Lab-3 credits) which adds one more credit to the lab which is needed to teach the required skills per national standards

Program Learning Outcomes

Program Learning Outcomes

- Demonstrate competent patient care of a medical assistant in ambulatory healthcare facilities.
- Exhibit basic skills of a medical assistant including obtaining vital signs, phlebotomy, pharmacology, EKG, and assisting providers with specialty examinations.
- Perform accurate medical documentation, patient education instruction, communication, and apply critical thinking skills in both simulated and clinical settings.
- Describe the areas of general, clinical, and administrative medical assisting.
- Demonstrate competencies and skills in preparation for taking a medical assistant national certification examination.

Clinical Rehabilitation Counseling - Post-Master's Certificate

Program Overview

College
College of Education & Human Services

Department
Special Education & Rehab Counseling

Program Level
Graduate

About this Degree

Program Contact:

Trent Landon, Ph.D, trent.landon@usu.edu, 435-797-3269

Michael Gerald, Ph.D, michael.gerald@usu.edu, 435-797-3478

Kris Wengreen, Graduate Program Coordinator (GPC), kris.wengreen@usu.edu, 435-797-3246

Program Description:

This certificate provides coursework necessary for individuals with an existing counseling degree to meet licensure requirements for the State of Utah as a Clinical Mental Health Counselor. (CMHC).

Admission Requirements for this Program

Students pursuing this certificate must already have a master's, specialist, or doctoral degree in a qualifying field of study.

Additional information about the Clinical Rehabilitation Counseling Certificate program may be obtained by contacting the Department of Special Education and Rehabilitation Counseling, or by visiting the program website at https://cehs.usu.edu/sperc/rehab-counseling/certificates/

Program Requirements

Total Credits Required In Program Coursework
22-28

Total Credits Required To Earn This Credential
22-28

Simple Requisites

Program Requirements

Required credits range from 22 to 28, depending on existing coursework.

Clinical Rehabilitation Counseling - Post-Master's Certificate

Type
Completion Requirement

Required Courses (22 credits)

Complete ALL of the following Courses:

- REH6130 - Counseling Skill Development - 3cr.
- REH6200 - Theories of Counseling - 3cr.
- REH6210 - Mental Health Assessment - 3cr.
- REH6320 - The Diagnostic and Statistical Manual (DSM 5) of Mental Health Disorders - 3cr.
- REH6350 - Treatment Approaches for Addiction Disorders - 3cr.
- REH6240 - Ethical Decision-Making in Counseling - 3cr.
- REH6700 - Internship in Counseling I - 2cr.
- REH6710 - Internship in Counseling II - 2cr.

Elective Credit (6 credits)

Earn at least 6 credits from the following:

- REH6250 - Group Counseling - 3cr.
- REH6260 - Human Growth and Development - 3cr.

Program Learning Outcomes

Program Learning Outcomes

https://cehs.usu.edu/about/assessment

Climate Science - BS

Program Overview

College
College of Agriculture & Natural Resources

Department
Plants, Soils and Climate

Program Level
Undergraduate

About this Degree

Students learn the natural laws that determine the climate through the study of meteorology, climatology, environmental physics, and oceanography. The Climate Science Degree helps students gain a complete understanding of climate including how atmosphere, water, land surface, and ecosystems affect each other. Students also investigate the behavior of weather and climate and the obstacles of climate prediction.

- For more information about Climate Science, see the department website.
- Admitted and current students must meet with an advisor.
- Log on to Degree Works to check student-specific program progress.
- The highest math requirement for this degree is MATH2250 LINEAR ALG/DIFF EQUATIONS (QI)

Admission Requirements for this Program

- New freshmen: Admitted to USU in Good Standing
- Transfer students from other institutions or other programs at USU: 2.75 GPA

Program Requirements

Total Credits Required In Program Coursework
88

Total Credits Required To Earn This Credential
120

Simple Requisites

Program Requirements

Coursework for this major requires a GPA of 2.5 or higher

Climate Science - BS Course Requirements

Type
Completion Requirement

Required Courses (78-79 credits)

Complete ALL of the following Courses:

- CS1400 - Introduction to Computer Science--CS 1 - 4cr.
- GEO1110 - Physical Geology (BPS) - 3cr.
- GEO1115 - Physical Geology Laboratory - 1cr.
- MATH1210 - Calculus I (QL) - 4cr.
- MATH1220 - Calculus II (QL) - 4cr.
- MATH2210 - Multivariable Calculus (QI) - 3cr.
- MATH2250 - Linear Algebra and Differential Equations (QI) - 4cr.
- PHYS2210 - Physics for Scientists and Engineers I (QI/BPS) - 4cr.
- PSC2000 - The Atmosphere and Weather (BPS) - 3cr.
- PSC2710 - General Meteorology - 3cr.
- PSC4740 - Climate Practicum - 4cr.
- PSC4900 - Special Problems - 1cr.
- PSC5123 - Climate Data Analysis - 3cr.
- PSC5410 - Hydroclimate - 3cr.
- PSC5500 - Environmental Physics of Land Ecosystems & Climate - 3cr.
- PSC5760 - Climate and Climate Change (DSC)(QI) - 3cr.
- PSC5880 - Earth System Science - 3cr.
- PSC5830 - Atmospheric Instrumentation and Operation - 3cr.
  OR PSC5000 - Environmental Instrumentation - 2cr.
- PSC5840 - Atmospheric Dynamics - 3cr.
- PSC5850 - Physical Climatology - 3cr.
- PSC5860 - Atmospheric Thermodynamics - 3cr.
- PSC5875 - Synoptic Meteorology - 4cr.
- STAT2000 - Statistical Methods (QI) - 4cr.
  OR STAT3000 - Statistics for Scientists (QI) - 3cr.
- WATS3000 - Oceanography (DSC) - 3cr.
- WILD2200 - Ecology of Our Changing World (BLS) - 3cr.

Students will need to register for PSC 4900 - Special Problems: Climate Recitation

Communications Literacy

Complete at least 1 course in the following course sets:

- Communications Literacy (CL1) Course
- Communications Literacy (CL2) Course

Elective Courses (7 credits)

Earn at least 7 credits from the following:

- APEC5560 - Natural Resource and Environmental Economics - 3cr.
- CEE3430 - Engineering Hydrology - 3cr.
- CEE3610 - Environmental Management - 3cr.
- CS3430 - Scientific Computing (DSC/QI) - 3cr.
- ECON3550 - Law and Economics - 3cr.
- ENVS3600 - Living with Wildlife (DSC) - 3cr.
- ENVS5550 - Sustainability: Concepts and Measurement - 3cr.
- GEO2200 - The Earth Through Time - 3cr.
- GEO3300 - Geology of the World's Oceans (DSC) - 3cr.
- POLS4820 - Natural Resources and Environmental Policy: Political Economy of Environmental Quality (DSS) - 3cr.
- PSC2040 - Aviation Meteorology (BPS) - 3cr.
- PSC2700 - Climate Change Impacts (BPS) - 3cr.
- PSC3000 - Fundamentals of Soil Science - 4cr.
- PSC3600 - An Introduction to Plant Breeding and Heredity - 3cr.
- PSC3800 - Fundamentals of Organic Agriculture - 3cr.
- PSC4280 - Field and Food Cropping Systems - 3cr.
- PSC4320 - Forage Production and Pasture Management - 3cr.
- PSC5003 - Remote Sensing of Land Surfaces - 3cr.
- PSC5130 - Soil Genesis, Morphology, and Classification - 4cr.
- PSC5670 - Environmental Soil Physics - 4cr.
- PSC5680 - Paleoclimatology - 3cr.
  OR GEO5680 - Paleoclimatology - 3cr.
- WATS5490 - Small Watershed Hydrology (QI) - 4cr.
- WATS5530 - Water Quality and Pollution - 3cr.
- WILD4000 - Principles of Rangeland Management - 3cr.

Open Electives

Complete the following as needed:
Total elective credit is determined by General Education courses taken, degree type selected, additional credits earned, and any additional math or other prerequisite courses needed. Please consult your Academic Advisor for details.

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Bachelor's Degree)

Suggested Degree Maps

Degree Map Name
Suggested Degree Map - Climate Science BS
Total Degree Map Credits
113 - 116
Degree Map Effective Catalog Year
2027 -

Degree Map Narrative

- Following is a sample four-year plan. Please note that student-specific plans may differ.
- Meet with an academic advisor to create a specific plan that best fits your academic needs.
- The student is ultimately responsible for knowing and completing all degree requirements.
- Make sure you meet the registration requirements for each class by clicking the course link and checking any prerequisites or corequisites.
- Consultation with an advisor may result in an altered plan customized for an individual student.
- Check your Degree Works for requirements and completion.

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	17 - 18	0

Requirement Select
- GEO1110 - Physical Geology (BPS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- GEO1115 - Physical Geology Laboratory

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- MATH1210 - Calculus I (QL)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- SOC1010 - Introductory Sociology (BSS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- POLS1100 - United States Government and Politics (BAI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Communications Literacy (CL1) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- SOC1010 is recommended to fulfill the BSS requirement; POLS1100 is recommended to fulfill the BAI requirement (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	14	0

Requirement Select

- MATH1220 - Calculus II (QL)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- Communications Literacy (CL2) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- PSC2000 - The Atmosphere and Weather (BPS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- PSC4900 - Special Problems

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1 - 4
Clinical	-
Criticality	No

Requirement Select

- Students need to register for the Climate Recitation section of PSC 4900 (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Breadth Humanities (BHU) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	16 - 17	0

Requirement Select

- PHYS2210 - Physics for Scientists and Engineers I (QI/BPS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- MATH2210 - Multivariable Calculus (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Breadth Creative Arts (BCA) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- PSC2710 - General Meteorology

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- STAT2000 - Statistical Methods (QI)

OR

- STAT3000 - Statistics for Scientists (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 4
Progress Credits	-
Contact Hours	3 - 4
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	14	0

Requirement Select

- MATH2250 - Linear Algebra and Differential Equations (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- WILD2200 - Ecology of Our Changing World (BLS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- WATS3000 - Oceanography (DSC)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- CS1400 - Introduction to Computer Science--CS 1

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Fall	14 - 15	1 - 6

Requirement Select

- PSC5123 - Climate Data Analysis

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- PSC5840 - Atmospheric Dynamics

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- PSC5830 - Atmospheric Instrumentation and Operation

OR

- PSC5000 - Environmental Instrumentation

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2 - 3
Progress Credits	-
Contact Hours	2 - 3
Clinical	-
Criticality	No

Requirement Select

- Depth Social Sciences (DSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	1 - 6
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Communications Intensive (CI) Courses

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Spring	12	0

Requirement Select

- PSC5760 - Climate and Climate Change (DSC)(QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- PSC5875 - Synoptic Meteorology

Course Requirement Group	
Course Requirement Group (Free Text)	Course is taught every other spring odd semesters
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- PSC5880 - Earth System Science

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- PSC5410 - Hydroclimate

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- PSC 5875 is offered odd spring semesters (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Fall	12	0

Requirement Select

- PSC5850 - Physical Climatology

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Depth Life and Physical Sciences (DSC) Course

OR

- Communications Intensive (CI) Courses

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- PSC Elective course (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Spring	14	0

Requirement Select

- PSC4740 - Climate Practicum

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- PSC5860 - Atmospheric Thermodynamics

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- PSC5500 - Environmental Physics of Land Ecosystems & Climate

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- PSC elective (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Elective (1 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits
0

Total Major Credits
0

Total Minor Credits
0

Total Elective Credits
0

Program Learning Outcomes

Program Learning Outcomes

https://www.usu.edu/oda/assessment/

Conflict Management and Facilitation - Certificate

Program Overview

College
College of Arts & Sciences

Department
Communication & Media

Program Level
Undergraduate

About this Degree

This certificate is an opportunity for students who are interested in understanding the roots and impact of interpersonal conflict and developing skills to manage and facilitate conflict resolution. These skills are relevant in personal relationships as well as in nearly all professional settings. The program is designed with an interdisciplinary approach to serve students from a variety of majors and colleges throughout the university.

This certificate is available at all USU campus locations, either in-person or online.

Program Requirements

Total Credits Required In Program Coursework
18

Total Credits Required To Earn This Credential
18

Simple Requisites

Program Requirements

Courses may not be taken on a pass/fail basis except for those courses which are only taught pass/fail.

Conflict Management and Facilitation - Certificate

Type
Completion Requirement

Required Courses (9 credits)

Complete ALL of the following Courses:

- CMST2110 - Interpersonal Communication (BHU) - 3cr.
- CMST3600 - Communication and Conflict - 3cr.
- CMST5600 - Advanced Communication and Conflict - 3cr.

Electives (9 credits)

9 credits of elective courses must be selected from the provided options. Courses are sorted by topical group, but may be chosen from multiple areas.

Fulfill ANY of the following requirements:

Negotiation and Persuasion

Complete ANY of the following Courses:

- CMST3400 - Persuasion - 3cr.
- CMST5400 - Advanced Persuasion - 3cr.
- MGT4600 - Negotiations - 2cr.
- POLS4410 - International Negotiations - 3cr.

OR

Societal Conflict

Complete ANY of the following Courses:

- CMST3160 - Gender Communication - 3cr.
- CMST4260 - Environmental Communication - 3cr.
- CMST4700 - Health Communication (CI) - 3cr.

- HIST3340 - Holocaust History and Memory (DHA) - 3cr.
- HIST4540 - Gender, Violence, and Non-violence - 3cr.
- HIST4720 - The Civil Rights Movement (DHA/CI) - 3cr.
- PHIL1120 - Social Ethics (BHU) - 3cr.
- PHIL3530 - Environmental Ethics (DHA) - 3cr.
- PHIL3820 - Theories of Sex and Gender (DHA) - 3cr.
- POLS4220 - Ethnic Conflict and Cooperation (CI/DSS) - 3cr.
- PSY3510 - Social Psychology (DSS) - 3cr.
- PSY3700 - Mental Health Advocacy and Awareness - 3cr.
- PSY4230 - Psychology of Gender (DSS) - 3cr.
- SOC2630 - Sociology of Race and Ethnicity (BSS) - 3cr.
- SOC3010 - Social Inequality (DSS) - 3cr.
- SOC3340 - Activism, Protest, and Social Movements (DSS) - 3cr.
- SOC4350 - People, Power, and the Political - 3cr.
- SOC4640 - Managing Community Conflict (CI) - 3cr.
- SW1010 - Introduction to Social Welfare (BSS) - 3cr.
- SW2100 - Human Behavior in the Social Environment - 3cr.
- SW2400 - Social Work with Diverse Populations - 3cr.

OR

Intercultural/Global

Complete ANY of the following Courses:

- CMST3270 - Culture and Public Discourse (DHA) - 3cr.
- CMST3330 - Intercultural Communication (DSS) - 3cr.
- CMST4270 - Communication, Culture, and Power - 3cr.
- HDFS3210 - Families and Cultural Diversity (CI) - 3cr.
- LING3100 - Language in Social Context - 3cr.
- POLS3100 - Global Issues: Non-Democratic Politics - 3cr.
- PSY4240 - Multicultural Psychology (DSS) - 3cr.
- SPAN3061 - Fundamentals of Translation and Interpretation - 3cr.
- SPAN3081 - Healthcare Translation - 3cr.
- SPAN3082 - Legal and Business Translation - 3cr.

OR

Interfaith Bridgebuilding

Complete ANY of the following Courses:

- ANTH1090 - Introduction to Interfaith Leadership (BHU) - 3cr.
- RELS1090 - Introduction to Interfaith Leadership (BHU) - 3cr.
- ANTH3165 - Bridging Religious Difference in Theory and Practice: an Introduction to Interfaith Leadership - 3cr.
- ANTH5195 - Interfaith Leadership Practicum Experience - 3cr.
- RELS3165 - Bridging Religious Difference in Theory and Practice: an Introduction to Interfaith Leadership - 3cr.
- RELS5195 - Interfaith Leadership Practicum Experience - 3cr.

OR

Peace Building

Complete ANY of the following Courses:

- CMST4200 - Language, Thought, and Action (CI/DSS) - 3cr.
- HIST4825 - Historical Roots of the War on Terror (DHA) - 3cr.
- PHIL2400 - Ethics (BHU) - 3cr.
- PI2010 - Introduction to Peace Building and Transformative Conflict (BHU) - 3cr.
- PI4910 - Special Studies in Heravi Peace Institute - 1cr.
- PI4940 - Peacebuilding Internship - 1cr.
- RELS1070 - Religion, Violence, and Peace (BHU) - 3cr.

OR

Relational/Organizational

Complete ANY of the following Courses:

- CMST2810 - Communicating Emotions - 3cr.
- CMST3120 - Communication in Family Contexts - 3cr.
- CMST3250 - Organizational Communication (CI) - 3cr.
- CMST3280 - Organizations and Social Change - 3cr.
- CMST3610 - Communication Studies Teaching Practicum - Conflict - 1cr.
- CMST5000 - Studies in Communication Studies - 1cr.
- CMST5110 - Advanced Interpersonal Communication - 3cr.
- CMST5500 - Communication and Leadership - 3cr.
- CHSS4250 - Advanced Internship/Co-op - 1cr.
- HDFS2400 - Couple and Family Relationships (BSS) - 3cr.
- HDFS3700 - Mental Health Advocacy and Awareness - 3cr.
- HDFS4220 - Family Crises and Interventions - 3cr.
- HEP3400 - Stress Management - 3cr.
- MGT3100 - Organizational Behavior - 2cr.
- MGT3250 - Managing Human Capital - 3cr.
- PSY3120 - Abuse, Neglect, and the Psychological Dimensions of Intimate Violence (DSS) - 3cr.
- SW3360 - Adolescents: Theories, Problems, and Issues - 3cr.
- SW4925 - Resilience and Human Flourishing - 3cr.
- PI3110 - Transformative Mediation - 3cr.
- RELS3110 - Transformative Mediation - 3cr.
- SW3850 - Spirituality and Social Work - 3cr.
- SW5580 - Grief and Loss in Social Work Practice - 3cr.

NOTE:

1. CMST5000 STUDIES IN CMST - May count by approval only.
2. CHSS4250 ADV INTERNSHIP/COOP - May count by approval only.

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Undergraduate Academic or Technical Certificates)

Program Learning Outcomes

Program Learning Outcomes

https://cehs.usu.edu/about/assessment

Composite Materials and Structures - Post-Bachelor's Certificate

Program Overview

College
College of Engineering

Department
Mechanical & Aerospace Engineering

Program Level
Graduate

About this Degree

This certificate program supports our local and state-wide industry partners who make and use composite materials by providing an additional path for working professionals and students to gain increased understanding and skills in this vital area. This certification program also provides a stepping stone for recipients to enter our Composite Materials and Structures - MS program with four of the 11 courses completed.

Program Requirements

Total Credits Required In Program Coursework
12

Total Credits Required To Earn This Credential
12

Simple Requisites

Program Requirements

Course Requirements

Type
Completion Requirement

Core Courses

Complete ALL of the following Courses:

- MAE5050 - Material Science of Composites - 3cr.
- MAE5060 - Mechanics of Composite Materials I - 3cr.

Elective Credit

Complete at least 2 of the following courses:

- MAE6050 - Manufacturing of Composite Materials and Structures - 3cr.
- MAE6055 - Testing of Composite Materials - 3cr.
- MAE6070 - Mechanics of Composite Materials II - 3cr.

Program Learning Outcomes

Program Learning Outcomes

https://engineering.usu.edu/

Composite Materials and Structures - MS

Program Overview

College
College of Engineering

Department
Mechanical & Aerospace Engineering

Program Level
Graduate

About this Degree

The Department of Mechanical and Aerospace Engineering provides each graduate with a foundation of knowledge and experience upon which to build successful careers in mechanical engineering, aerospace engineering, composite materials and structures, or space systems engineering.

Composite Materials and Structures MS is directed at providing students and industry professionals the opportunity to become familiar with how composite materials are used in several areas of engineering research and design across multiple industries. Graduates will develop the ability to better understand the applicability of these materials in improving and advancing product design. Surveys of the materials, processes and design methods associated with composite materials will be given as well as the scientific principles involved. In-depth understanding of the critical manufacturing processes, the testing of constituent and composite materials, and the structural analyses of these complex systems will be taught.

Admission Requirements for this Program

- Official transcript indicating a bachelor's degree in an accredited U.S. college or universty or a similarly recognized international university in mechanical or aerospace engineering, or a closely related engineering discipline
- GPA of 3.3
- GRE scores are used by some faculty in choosing students and in funding decisions and are therefore strongly encouraged
- 3 letters of recommendation
- International students-proof of English proficiency (TOEFL or IELTS)

Program Requirements

Total Credits Required In Program Coursework
30-33

Total Credits Required To Earn This Credential
30-33

Simple Requisites

Program Requirements

- Must maintain a minimum 3.0 GPA
- A cumulative GPA of 3.0 is required for graduation
- Grades of C- or lower are not permitted on the program of study
- All graduate students must submit School of Graduate Studies forms and requirements for their chosen plan
- A master's degree must be completed within six years of entering the degree program. Additional time may be requested by the student's committee and submitted to the Vice Provost of Graduate Studies for review
- Coursework over eight years old at the time of degree completion may not be used for a graduate degree unless it is revalidated

The Plan A Thesis requires 30 credits (minimum):

- 15 credits of Composite core courses

- 9 credits of approved MAE technical electives
- Minimum of 6 credits of thesis research
- A maximum of 15 thesis credits applied toward a Program of Study
- No more than 12 credits of approved 5000-level courses
- Credits in the following areas are not acceptable: foreign languages, continuing graduate advisement, individual home study, military science, thesis research, and courses numbered below 3000
- A thesis proposal and formal thesis defense are required. The thesis must meet School of Graduate Studies and MAE Department requirements
- Successful defense and submission of the thesis to the library
- In-person attendance at 6 MAE Research Seminar Series presentations before graduating
- Approval of academic forms required for master's students by the School of Graduate Studies
    - Supervisory Committee
    - Program of Study
    - Thesis Proposal Approval
    - Appointment for Examination
    - Record of Examination
    - SGS and library review and approval

The Plan B Report requires 30 credits (minimum):

- 15 credits of Composite core courses
- 12 credits of approved MAE technical electives
- 3 credits of project research
- No more than 12 credits of approved 5000-level courses
- Credits in the following areas are not acceptable: foreign languages, continuing graduate advisement, individual home study, military science, thesis research, and courses numbered below 3000
- A thesis project proposal and formal report defense are required. The report must meet School of Graduate Studies and MAE Department requirements
- Successful defense and submission of the project to the library
- In-person attendance at 6 MAE Research Seminar Series presentations before graduating
- Approval of academic forms required for master's students by the School of Graduate Studies
    - Supervisory Committee
    - Program of Study
    - Thesis Project Approval
    - Appointment for Examination
    - Record of Examination
    - Library review and approval

The Plan C Coursework Only requires 33 credits (minimum):

- 15 credits of Composite core courses
- 18 credits of approved MAE technical electives
- No more than 12 credits of approved 5000-level courses
- Credits in the following areas are not acceptable: foreign languages, continuing graduate advisement, individual home study, military science, thesis research, and courses numbered below 3000
- Approval of academic forms required for master's students by the School of Graduate Studies
    - Program of Study

Section 1

Type
Completion Requirement

Required Core Courses:

Complete ALL of the following Courses:

- MAE5050 - Material Science of Composites - 3cr.
- MAE5060 - Mechanics of Composite Materials I - 3cr.
  OR CEE5060 - Mechanics of Composite Materials - 3cr.
- MAE6050 - Manufacturing of Composite Materials and Structures - 3cr.
- MAE6070 - Mechanics of Composite Materials II - 3cr.
  OR CEE6070 - Mechanics of Composite Materials II - 3cr.
- MAE6055 - Testing of Composite Materials - 3cr.

Section 2

Type
Completion Requirement

Approved courses:

Earn at least 18 credits from the following:

- MAE5020 - Finite Element Methods in Solid Mechanics I - 3cr.
- MAE5045 - Adhesion Sciences - 3cr.
- MAE5310 - Control Systems - 4cr.
- MAE5350 - Kinematics - 3cr.
- MAE5370 - Optimization for Engineers - 3cr.
- MAE5550 - Introduction to Aircraft Structures - 3cr.
- MAE5700 - Introduction to Microfabrication - 3cr.
- MAE5930 - Special Problems - 1cr.
- MAE6010 - Finite Element Methods in Solid Mechanics II - 3cr.
- MAE6030 - Metal Additive Manufacturing - 3cr.
- MAE6040 - Continuum Mechanics and Elasticity - 3cr.
- MAE6090 - Theory of Plates and Shells - 3cr.
  OR CEE6090 - Theory of Plates and Shells - 3cr.
- MAE6320 - Linear Multivariable Control - 3cr.
- MAE6420 - Mechanical Engineering Experiments - 3cr.
- MAE6460 - Conduction and Radiation Heat Transfer - 3cr.
- MAE6670 - Fracture Mechanics - 3cr.
- MAE6930 - Special Problems - 1cr.
- MATH5410 - Methods of Applied Mathematics - 3cr.
- MATH5710 - Introduction to Probability - 3cr.
- MATH6420 - PDE I - 3cr.
- MATH6610 - Introduction to Numerical Analysis - 3cr.

Program Learning Outcomes

Program Learning Outcomes
https://engineering.usu.edu/

Computer Engineering - BS

Program Overview

College
College of Engineering

Department
Electrical & Computer Engineering

Program Level
Undergraduate

About this Degree

Computer engineering involves programming software and hardware, building on knowledge of electronics and circuits. A computer engineer designs and builds computers, such as PCs, workstations, and supercomputers, as well as computer-based systems like those found in cars, planes, appliances, electronics, phones, and communication networks.

Computer engineering is different from computer science in that computer science is more concerned with the theoretical understanding of computation and programming. It is also different from electrical engineering in that computer engineering prepares students for more complicated computer engineering positions, while electrical engineering is a broader field. However, both fields include computer programming to a significant degree, and a good electrical foundation is required.

- For more information about Computer Engineering, see the Electrical and Computer Engineering department website.
- The Computer Engineering BS degree program is accredited by the Engineering Accreditation Commission of ABET (http://www.abet.org),under the commission's General Criteria and the Program Criteria for Computer Engineering and Similarly Named Programs.
- Admitted and current students must meet with an advisor.
- Log on to Degree Works to check student-specific program progress.
- The highest math requirement for this degree is MATH5710 INTRO TO PROBABILITY or STAT3000 STATISTICS FOR SCIENTISTS (QI)

Admission Requirements for this Program

New Freshman and Transfer Students (from other institutions or other USU programs)

- Admitted to USU in Good Standing

New Freshman:

- 2.8 High School GPA or higher
- 20 ACT or 1030 SAT or higher

Admission Requirements for the Pre-Professional Program

- Completion of Engineering Foundations courses (listed below)
- MATH1210 CALCULUS I (QL), MATH 1220, CHEM 1210, CHEM 1215, PHYS 2210, PHYS 2215, ENGR 1010, ENGR 1400 completed with a C- or higher
- 2.8 or higher GPA in Engineering Foundations courses

Program Requirements

Total Credits Required In Program Coursework
102

Total Credits Required To Earn This Credential
120

Simple Requisites

Program Requirements

Computer Engineering - BS Course Requirements

Type
Completion Requirement

Engineering Foundations Courses (25 credits)

- A Cumulative USU GPA of 2.8 or higher is required in Engineering Foundations courses.
- Engineering Foundations courses: Math 1210, Math 1220, ENGR 1010, ENGR 1400, PHYS 2210, PHYS 2215, CHEM 1210, CHEM 1215 require a grade of C- or higher.
- The P/D+, D, F grading option may not be used in required courses completed as part of Engineering Foundations program. (The P/D+, D, F grading option is approved for University Studies Courses.)

Complete ALL of the following Courses:

- ENGR1010 - Engineering Exploration - 3cr.
- ENGR1400 - Computer Programming for Engineers - 4cr.
- CHEM1210 - Principles of Chemistry I - 4cr.
- CHEM1215 - Chemical Principles Laboratory I - 1cr.
- MATH1210 - Calculus I (QL) - 4cr.
- MATH1220 - Calculus II (QL) - 4cr.
- PHYS2210 - Physics for Scientists and Engineers I (QI/BPS) - 4cr.
- PHYS2215 - Physics for Scientists and Engineers Lab I - 1cr.

Required for Admission to the Professional Program (23 credits)

- A Cumulative USU GPA of 2.8 or higher is required in pre-professional courses, NOT including ENGL2010 RSRCH&ARGUMENT PRSPCTVES (CL2) or ENGL2020 PROFESSNL COMMUNICATION (CL2)
- All courses require a grade of C- or higher.
- The P/D+, D, F grading option may not be used in required courses completed as part of Engineering Foundations or a pre-professional program. (The P/D+, D, F grading option is approved for University Studies Courses.)

Complete ALL of the following Courses:

- ECE2250 - Electrical Circuits I - 3cr.
- ECE2290 - Electrical Circuits II - 4cr.
- ECE2700 - Digital Circuits - 4cr.
- ECE1410 - Computer Programming for Electrical and Computer Engineers II - 3cr.
- ECE2420 - Algorithms and Data Structures - 3cr.
- MATH2270 - Linear Algebra (QI) - 3cr.
- MATH2280 - Ordinary Differential Equations (QI) - 3cr.
- ENGL2010 - Research and Argument Across Perspectives (CL2) - 3cr.
  OR ENGL2020 - Professional Communication (CL2) - 3cr.

Computer Engineering Required Courses (35 credits)

For Computer Engineering majors in the professional program the following academic regulations apply, in addition to university regulations:

1. A GPA of 2.0 or higher must be maintained in all upper-division engineering/math/science courses required for, or used as technical electives in, this major. Courses which were part of the pre-professional program requirements and University Studies courses are not included in this GPA calculation.

2. For Computer Engineering, not more than 10 hours of D or D+ credit may be applied toward meeting graduation requirements in engineering/math/science classes.
3. College of Engineering courses may be repeated only once. Audits count as a time taking a class unless prior written approval is obtained from the department head. A maximum of three required or elective courses completed as part of a professional program can be repeated in order to meet graduation requirements. (Courses completed as part of a pre-professional program are not included in this total of three repeats.)
4. The P/D+, D, F grading option may not be used in required or elective courses completed as part of a professional program. (The P/D+, D, F grading option is approved for University Studies Courses.)

Complete ALL of the following Courses:

- ECE3610 - Continuous and Discrete-Time Systems and Signals - 4cr.
- ECE3410 - Microelectronics I - 4cr.
- ECE3700 - Digital System Design - 3cr.
- ECE3710 - Microcontroller Hardware and Software - 4cr.
- ECE3810 - Engineering Professionalism - 1cr.
- ECE4810 - Engineering Design and Communications 1 - 1cr.
- ECE4840 - Engineering Design II (CI) - 2cr.
- ECE4850 - Engineering Communications II (CI) - 1cr.
- ECE5600 - Introduction to Computer Networks - 3cr.
- ECE5720 - Computer Systems Programming and Architecture - 3cr.
- ENGR3080 - Creativity and Communication in Design (CI) - 3cr.
- MATH3310 - Discrete Mathematics - 3cr.
- STAT3000 - Statistics for Scientists (QI) - 3cr.
  OR MATH5710 - Introduction to Probability - 3cr.

Core Computer Engineering Electives (select 9 credits)

A GPA of 2.0 or higher must be maintained in all upper-division engineering/math/science courses required for, or used as technical electives in, this major.

The following subject areas represent subject areas in computer engineering. They are grouped for easy reference. Students are not required to complete all of the core computer engineering electives in a subject area and may select from different subject areas.

Fulfill ANY of the following requirements:

Subject Area 1: System Design-General Purpose and Embedded Systems

Complete ANY of the following Courses:

- ECE5640 - Real-Time Processors - 4cr.
- ECE5750 - Computer Architecture - 3cr.
- ECE5760 - Hardware Security - 3cr.
- ECE5780 - Embedded Real-Time Systems - 4cr.
- ECE5790 - Principles of Cyber-Physical Systems - 3cr.

OR

Subject Area 2: Digital VLSI

Complete ANY of the following Courses:

- ECE5460 - VLSI Design Automation - 3cr.
- ECE5470 - VLSI Design - 3cr.
- ECE5480 - VLSI Testing and Security - 3cr.

OR

Subject Area 3: Analog and Mixed-Signal VLSI

Complete ANY of the following Courses:

- ECE5420 - Microelectronics II - 3cr.

OR

Subject Area 4: Reconfigurable Computing

Complete ANY of the following Courses:

- ECE5730 - Reconfigurable Computing - 3cr.

OR

Subject Area 5: Trustworthy Computer Systems Engineering

Complete ANY of the following Courses:

- ECE5795 - Reasoning About Computing Systems: Foundations - 3cr.

ECE 5930- ST:Reasoning about Computer Systems: Applications

High-Level Technical Electives (select 10 credits)

A GPA of 2.0 or higher must be maintained in all upper-division engineering/math/science courses required for, or used as technical electives in, this major.

One of the High-Level Technical Electives must have an ECE prefix.

Earn at least 10 credits from the following:

- CS4700 - Programming Languages - 3cr.
- CS5000 - Theory of Computability - 3cr.
- CS5050 - Advanced Algorithms - 3cr.
- CS5110 - MultiAgent Systems - 4cr.
- CS5300 - Compiler Construction - 4cr.
- CS5400 - Computer Graphics I - 4cr.
- CS5410 - Game Development - 4cr.
- CS5600 - Intelligent Systems - 4cr.
- CS5680 - Computer Vision: Foundations and Applications - 3cr.
- CS5800 - Introduction to Database Systems - 3cr.
- ECE3640 - Discrete - Time Systems and Signals - 3cr.
- ECE3870 - Electromagnetics I - 4cr.
- ECE4250 - Internship/Co-op - 1cr.
- ECE5110 - Fundamentals of Electric Power Systems - 3cr.
- ECE5120 - Introduction to Power Electronics - 3cr.
- ECE5150 - Power Electronics for Electric Drive Vehicles - 3cr.
- ECE5160 - Electric Vehicle Design Laboratory - 4cr.
- ECE5210 - Introduction to Photonics and Devices - 3cr.
- ECE5230 - Spacecraft Systems Engineering - 3cr.
- ECE5235 - Space System Design - 3cr.
- ECE5250 - Photonics Laboratory - 3cr.
- ECE5310 - Control Systems - 4cr.
- ECE5320 - Mechatronics - 4cr.
- ECE5330 - Small Unmanned Aircraft Systems - 3cr.
- ECE5340 - Introduction to Planning and Control for Mobile Robots - 3cr.
- ECE5345 - Introduction to the Robot Operating System (ROS) - 1cr.
- ECE5420 - Microelectronics II - 3cr.
- ECE5460 - VLSI Design Automation - 3cr.
- ECE5470 - VLSI Design - 3cr.
- ECE5480 - VLSI Testing and Security - 3cr.

- ECE5510 - Reinforcement Learning - 3cr.
- ECE5520 - Robot Reasoning - 3cr.
- ECE5540 - AI Architecture: Deployment, Systems, and Real-World Const - 3cr.
- ECE5610 - Wireless Communication Networks - 3cr.
- ECE5630 - Digital Signal and Image Processing - 3cr.
- ECE5640 - Real-Time Processors - 4cr.
- ECE5660 - Communication Systems 1 - 3cr.
- ECE5700 - Introduction to Microfabrication - 3cr.
- ECE5710 - Advanced Microfabrication - 3cr.
- ECE5730 - Reconfigurable Computing - 3cr.
- ECE5750 - Computer Architecture - 3cr.
- ECE5780 - Embedded Real-Time Systems - 4cr.
- ECE5790 - Principles of Cyber-Physical Systems - 3cr.
- ECE5800 - Electromagnetics II - 3cr.
- ECE5810 - Microwave Circuits I - 3cr.
- ECE5850 - Antennas I - 3cr.
- ECE5930 - Special Topics in Electrical and Computer Engineering - 1cr.
- ENGR2010 - Engineering Mechanics Statics - 3cr.
- ENGR2030 - Engineering Mechanics Dynamics - 3cr.
- ENGR2140 - Mechanics of Materials - 3cr.
- MAE2160 - Material Science - 3cr.
- MAE2300 - Thermodynamics I - 3cr.
- MATH4610 - Fundamentals of Numerical Analysis - 3cr.
- MATH5210 - Introduction to Analysis I - 3cr.
- MATH5220 - Introduction to Analysis II - 3cr.
- MATH5270 - Complex Variables - 3cr.
- MATH5310 - Introduction to Modern Algebra - 3cr.
- MATH5340 - Theory of Linear Algebra - 3cr.
- MATH5410 - Methods of Applied Mathematics - 3cr.
- MATH5420 - Partial Differential Equations - 3cr.
- MATH5460 - Nonlinear Dynamics - 3cr.
- MATH5510 - Introduction to Topology - 3cr.
- MATH5610 - Introduction to Numerical Analysis - 3cr.
- MATH5620 - Numerical Algorithms for Approximate Solutions of DE - 3cr.
- MATH5720 - Introduction to Mathematical Statistics - 3cr.
- MATH5760 - Applied Stochastic Processes - 3cr.
- PHYS5700 - Introduction to Microfabrication - 3cr.
- PHYS5710 - Advanced Microfabrication - 3cr.

- Students cannot receive credit for both PHYS5700 INTRO TO MICROFABRICATION and ECE5700 INTRO TO MICROFABRICATION.

Open Electives

Complete the following as needed:
Total elective credit is determined by General Education courses taken, degree type selected, additional credits earned, and any additional math or other prerequisite courses needed. Please consult your Academic Advisor for details.

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Bachelor's Degree)

Suggested Degree Maps

Degree Map Name
Suggested Degree Map - Computer Engineering BS

Total Degree Map Credits
121 - 123
Degree Map Effective Catalog Year
2027 -

Degree Map Narrative

- Following is a sample four-year plan. Please note that student-specific plans may differ.
- Meet with an academic advisor to create a specific plan that best fits your academic needs.
- The student is ultimately responsible for knowing and completing all degree requirements.
- Make sure you meet the registration requirements for each class by clicking the course link and checking any prerequisites or co-requisites.
- Consultation with an advisor may result in an altered plan customized for an individual student.
- Check your Degree Works for requirements and completion.

*Please note: ENGL1010 WRITING AS INQUIRY (CL1) is required by USU but is not included in the degree map because most engineering students satisfy this requirement through an ACT English score, an SAT Critical Reading score , Advanced Placement (AP) Examinations or College-Level Examination Program (CLEP).

Years 1 and 2 are intended to encompass the Pre-Professional program. Years 3 and 4 are intended to encompass the Professional Program.

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	15	0

Requirement Select
- MATH1210 - Calculus I (QL)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	Major
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- CHEM1210 - Principles of Chemistry I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	Major
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- CHEM1215 - Chemical Principles Laboratory I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	Major
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- ENGR1010 - Engineering Exploration

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	Major
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Breadth American Institutions (BAI) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	General Education
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	16	0

Requirement Select
- MATH1220 - Calculus II (QL)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	Major
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- PHYS2210 - Physics for Scientists and Engineers I (QI/BPS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	Major
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- PHYS2215 - Physics for Scientists and Engineers Lab I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	Major
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- ENGR1400 - Computer Programming for Engineers

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	Major
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- ENGL2010 - Research and Argument Across Perspectives (CL2)

  OR
- ENGL2020 - Professional Communication (CL2)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	General Education
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	12	0

Requirement Select
- ECE2250 - Electrical Circuits I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	Major
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Breadth Humanities (BHU) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	General Education
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- MATH2270 - Linear Algebra (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	Major
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- ECE1410 - Computer Programming for Electrical and Computer Engineers II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	Major
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	17	0

Requirement Select
- ECE2290 - Electrical Circuits II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	Major
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- MATH2280 - Ordinary Differential Equations (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	Major
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- MATH3310 - Discrete Mathematics

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	Major
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- ECE2700 - Digital Circuits

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	Major
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- ECE2420 - Algorithms and Data Structures

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	Major
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Fall	17	0

Requirement Select

- ECE3610 - Continuous and Discrete-Time Systems and Signals

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	Major
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- ECE3710 - Microcontroller Hardware and Software

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	Major
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- ECE5720 - Computer Systems Programming and Architecture

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	Major
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- STAT3000 - Statistics for Scientists (QI)

OR

- MATH5710 - Introduction to Probability

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	Major
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- ENGR3080 - Creativity and Communication in Design (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	Major
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Spring	14	0

Requirement Select

- ECE3410 - Microelectronics I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	Major
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- ECE3810 - Engineering Professionalism

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	Major
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- Computer Engineering High-Level Technical Electives (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	Major
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- ECE3700 - Digital System Design

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	Major
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Breadth Life Sciences (BLS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	General Education
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Fall	17 - 19	0

Requirement Select
- ECE5600 - Introduction to Computer Networks

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	Major
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Computer Engineering High-Level Technical Electives (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	Major
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Core Computer Engineering Electives (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	Major
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Core Computer Engineering Electives (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	Major
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- ECE4810 - Engineering Design and Communications 1

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	Major
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- Depth Social Sciences (DSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	General Education
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Depth Humanities and Creative Arts (DHA) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1 - 3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Spring	13	0

Requirement Select
- ECE4840 - Engineering Design II (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	Major
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select
- ECE4850 - Engineering Communications II (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	Major
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- Core Computer Engineering Electives (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	Major
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Computer Engineering High-Level Technical Electives (4 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	Major
Actual Credits	4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Breadth Social Sciences (BSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	General Education
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	Total Major Credits
18	102
Total Minor Credits	**Total Elective Credits**
0	0

Program Learning Outcomes

Program Learning Outcomes

https://www.usu.edu/oda/assessment/

Communication Sciences - MS

Program Overview

College
College of Education & Human Services

Department
Speech and Hearing Sciences

Program Level
Graduate

About this Degree

The master's degree in Communication Sciences is a non-clinical degree in the Department of Speech and Hearing Sciences, Emma Eccles Jones College of Education and Human Services. This 30-credit program prepares students to enter the Disability Disciplines PhD program strand in speech-language pathology or the Interdisciplinary PhD Program in Neuroscience at Utah State University. Students from this program could also be eligible to apply to other doctoral programs in other behavioral science, health, or education related fields.

Program Requirements

Total Credits Required In Program Coursework
30

Total Credits Required To Earn This Credential
30

Simple Requisites

Program Requirements

School of Graduate Studies Requirements:

• Degree Verification: A bachelor's degree from an accredited U.S. college or university or a similarly recognized international university is required for admission to and completion of a graduate program. An official transcript must be sent directly to the School of Graduate Studies.
• Overall Graduate GPA at least 3.0 and no grades of C- or lower: Graduate students are required to maintain at least a 3.0 GPA for degree-program courses. Grades of C- or lower will not be accepted for a graduate degree.
• Course Number Acceptability: The program of study for a master's degree cannot include more than 12 semester credits of courses at the 5000 level. Credits in the following areas are not acceptable in a degree program: foreign languages (unless included in an approved Program of Study), continuing graduate advisement, individual home study, military science, and courses numbered below 5000.
• Matriculation Start Semester: A master's degree must be completed within six years of entering the degree program. Additional time may be requested by the student's advisor and submitted to the Vice Provost of Graduate Studies for review.
• Coursework Validity: Coursework over eight years old at the time of degree completion may not be used for a graduate degree unless it is revalidated by the Vice Provost of Graduate Studies.
• Master's forms: Approval of the Program of Study is required by the School of Graduate Studies.

Program Requirements:

Students must complete a minimum of 30 semester credit hours, comprised of 15 credits of required coursework, 6 credits of thesis (Plan A), and a minimum of 9 credits of electives in areas related to communication sciences and disorders. Each student, with mentor and committee, will devise an individualized program of study from the elective courses. Students may go beyond the 9 minimum with electives selected based on individual interests. A 3.0 GPA or higher, successful completion of appropriate coursework, and a successful thesis is required for graduation.

Section 1

Type
Completion Requirement

Required Courses

Complete ALL of the following Courses:

- EDUC6040 - Applied Research Methods - 3cr.
  OR SHS6230 - Introduction to Research in Communicative Disorders - 3cr.
- EDUC6570 - Introduction to Educational and Psychological Research - 3cr.
- EDUC6600 - Statistical Foundations - 3cr.
- PSY6120 - Behavioral Neuroscience - 3cr.
- SHS5240 - Neural Bases of Cognition and Communication - 3cr.
- SHS6970 - Thesis - 1cr.

Elective Courses Minimum of 9 credits (See Advisor)

Complete ANY of the following Courses:

- SHS7430 - Electrophysiology - 3cr.
- SHS6020 - Language Assessment and Intervention for School-Age Children and Adolescents - 3cr.
- SHS6030 - Disorders of Fluency-Stuttering - 3cr.
- SHS6900 - Independent Study - 1cr.
- SHS7460 - Aural Rehabilitation Across the Lifespan - 3cr.
- SHS7820 - Clinical Research in Audiology - 1cr.
- SHS7490 - Medical Aspects of Audiology - 3cr.
- SHS7530 - Balance Evaluation and Management - 3cr.
- SHS7310 - Psychoacoustics - 2cr.
- SHS7340 - Pediatric Audiology - 2cr.
- SHS7380 - Advanced Audiology - 3cr.
- SHS6130 - Motor Speech Disorders - 3cr.
- SHS6140 - Dysphagia - 1cr.
- SHS6220 - Severe Communication Impairments - 1cr.
- SHS6905 - Special Topics in Communicative Disorders - 1cr.
- SHS6250 - Birth to Five Language Intervention - 3cr.
- SHS7320 - Amplification I - 3cr.

NOTE:

1. SHS6905 SPECIAL TOPICS IN COMD - ST: Topics: Voice and Resonance Disorders

Program Learning Outcomes

Program Learning Outcomes

https://cehs.usu.edu/shs/assessment/university/audiology-graduate-program/learning-objectives

Communication Studies - Minor

Program Overview

College
College of Arts & Sciences

Department
Communication & Media

Program Level
Undergraduate

About this Degree

About this Minor

The Communication Studies minor at USU is designed to help students develop a broad range of communication skills and an understanding of how communication affects individuals, organizations, and societies.

This minor is designed to:

- Increase your communicative competence in both public and private settings.
- Help you understand, explain, and transform communication messages in a variety of settings.
- Improve your ability to carefully explore and think through communication-related challenges and come up with effective solutions.

To declare a communication minor, students need to contact the department's academic advisor.

Students receive a minor by completing twelve Communication Studies (CMST) credits. Please make sure to consult regularly with your departmental advisor to confirm what courses will be available and to work out your plan of study.

Admitted and current students are encouraged to meet with the academic advisor for the program.

Once declared, log on to Degree Works to check student-specific program progress.

Admission Requirements for this Program

Admission Requirements for this Program

- Students must contact the academic advisor for admission to the major.
- New freshmen must be admitted to USU in Good Standing.
- Transfer students from other institutions or other programs at USU must have a 2.5 GPA.

Program Requirements

Total Credits Required In Program Coursework
12

Total Credits Required To Earn This Credential
12

Simple Requisites

Program Requirements

- Total Credits: 12
- Requirements to Declare Communication Studies Minor: 2.5 Overall GPA and one CMST course.
- Grade Point Average to Graduate with Communication Studies Minor: 2.5 GPA within minor coursework
- Credits in Residence: At least half (50 percent) of the credits earned for this minor must be completed through USU and be approved by the department head.
- Minimum Grade Requirement: All courses taken for the minor require a minimum grade of C- or better. Courses for the minor may not be taken on a pass/fail basis.

Section 1

Type
Completion Requirement

Introductory Courses (3 credits)

Choose one required introductory course from the following list:

Complete at least 1 of the following courses:

- CMST1020 - Public Speaking (BHU) - 3cr.
- CMST1330 - Introduction to Global Communication (BSS) - 3cr.
- CMST2110 - Interpersonal Communication (BHU) - 3cr.
- CMST2120 - Group Collaboration and Decision Making - 3cr.

Section 2

Type
Completion Requirement

Elective Courses (9 credits)

Choose three elective courses. At least six credits must be from upper division courses.

Complete at least 3 of the following courses:

- CMST1020 - Public Speaking (BHU) - 3cr.
- CMST1330 - Introduction to Global Communication (BSS) - 3cr.
- CMST2110 - Interpersonal Communication (BHU) - 3cr.
- CMST2120 - Group Collaboration and Decision Making - 3cr.
- CMST2270 - Argumentation and Debate - 3cr.
- CMST3020 - Persuasive Public Communication - 3cr.
- CMST3050 - Technical and Professional Communication (DSS) - 3cr. (Inactive)
- CMST3120 - Communication in Family Contexts - 3cr.
- CMST3160 - Gender Communication - 3cr.
- CMST3250 - Organizational Communication (CI) - 3cr.
- CMST3270 - Culture and Public Discourse (DHA) - 3cr.
- CMST3280 - Organizations and Social Change - 3cr.
- CMST3330 - Intercultural Communication (DSS) - 3cr.
- CMST3400 - Persuasion - 3cr.
- CMST3510 - Development and Philanthropy - 3cr.
- CMST3600 - Communication and Conflict - 3cr.
- CMST3730 - Culture and Global Intervention (DHA) - 3cr.
- CMST4200 - Language, Thought, and Action (CI/DSS) - 3cr.
- CMST4270 - Communication, Culture, and Power - 3cr.
- CMST4330 - Advanced Perspectives in Global Communication (CI) - 3cr.
- CMST4700 - Health Communication (CI) - 3cr.
- CMST4750 - Strategic Health Messaging - 3cr.
- CMST4760 - Current Issues in Communication and Mental Health - 3cr.
- CMST4800 - Qualitative Research in Communications Studies - 3cr.
- CMST4810 - Quantitative Communication Studies Research Methods (QI) - 3cr.
- CMST4820 - Communication Criticism (CI) - 3cr.
- CMST5000 - Studies in Communication Studies - 1cr.
- CMST5100 - Theories of Communication (CI) - 3cr.
- CMST5110 - Advanced Interpersonal Communication - 3cr.
- CMST4260 - Environmental Communication - 3cr.

- CMST5300 - Visual Rhetoric - 3cr.
- CMST5400 - Advanced Persuasion - 3cr.
- CMST5500 - Communication and Leadership - 3cr.
- CMST5600 - Advanced Communication and Conflict - 3cr.

Program Learning Outcomes

Program Learning Outcomes

https://artsci.usu.edu/communication-media/assessments

Communication Studies - BA, BS

Program Overview

College	Department	Program Level
College of Arts & Sciences	Communication & Media	Undergraduate

About this Degree

The Communication Studies program at Utah State University is designed to help students develop a broad range of communication skills and an understanding of how communication affects individuals, organizations, and societies.

This major is designed to :

- Increase your communicative competence in both public and private settings.
- Help you understand, explain, and transform communication messages in a variety of settings.
- Improve your ability to carefully explore and think through communication related challenges and come up with effective solutions.

The Communication Studies major at Utah State University offers several focus areas so students can tailor their coursework to specific personal and career goals. These areas include:

- Health, Environmental, and Science Communication
- Relational Communication and Conflict Transformation
- Communicating Across Cultures
- Organizational Communication and Collaborative Leadership
- Social Influence and Advocacy

To declare a communication studies major or minor, students need to contact the department academic advisor.

Students receive a BS by completing all required courses in the major. To receive a BA, students must also gain proficiency in one or more foreign languages up to the 2020 or 2030 level.

- For more information about Communication Studies, please see the **Communication and Media** website.
- Please make sure to consult regularly with your departmental advisor to confirm what courses will be available and to work out your plan of study.
- Admitted and current students must meet with an academic advisor.
- A minor, certificate, or additional major must also be completed to complete all requirements for this major.
- Log on to Degree Worksto check student-specific program progress.
- The highest math requirement for this degree is Quantitative Literacy (QL) of the student's choice.

Admission Requirements for this Program

- Students must contact the academic advisor for admission to the major.
- New freshmen must be admitted to USU in good standing.
- Transfer students from other institutions or other programs at USU must have a 2.5 GPA.
- Minimum Grade Point Average to declare the Major in Communication Studies: 2.0 GPA

Program Requirements

Total Credits Required In Program Coursework
39

Total Credits Required To Earn This Credential
120

Simple Requisites

Program Requirements

- **Total Credits:** 39
- **Minimum Grade Point Average to graduate with a Communication Studies Major**: 2.5 GPA within major coursework
- **Credits in Residence:** At least half (50 percent) of the credits earned for the Communication Studies major must be earned at USU and approved by the department head. As many as 19 credits completed at other colleges or universities may be used to partially satisfy these requirements. For more information, students should contact their advisor.
- **Minimum Grade Requirement:** All courses taken for the major require a minimum grade of **C-** or better. Courses for the major *may not* be taken on a pass/fail basis.

Bachelor of Science Degree

Students desiring a Bachelor of Science (BS) degree must complete all requirements listed in the core requirements below.

Bachelor of Arts Degree

For the language requirements for a Communication Studies – BA degree, please see Minimum University Requirements (Bachelor's Degree), or academic advisor.

Communication Studies - BA, BS

Type

Completion Requirement

A. Required Classes (12 credits)

CMST5800 CMST SENIOR CAPSTONE (CI) should be taken at the end of the program.

Complete ALL of the following Courses:

- CMST1020 - Public Speaking (BHU) - 3cr.
- CMST2110 - Interpersonal Communication (BHU) - 3cr.
- CMST2900 - Degree and Career Planning in Communication - 1cr.
- CMST5100 - Theories of Communication (CI) - 3cr.
- CMST5800 - Communication Studies Senior Capstone (CI) - 2cr.

B. Research Skills Courses (3 credits)

Complete at least 1 of the following courses:

- CMST4800 - Qualitative Research in Communications Studies - 3cr.
- CMST4810 - Quantitative Communication Studies Research Methods (QI) - 3cr.
- CMST4820 - Communication Criticism (CI) - 3cr.

C. Focus Areas (21 credits)

Complete at least three classes (9 credits) from one of the following five areas, and one class each (3 credits) from the other four focus areas.

Fulfill ANY of the following requirements:

Health, Environmental, and Science Communication

Complete ANY of the following Courses:

- CMST2120 - Group Collaboration and Decision Making - 3cr.
- CMST3020 - Persuasive Public Communication - 3cr.
- CMST3280 - Organizations and Social Change - 3cr.
- CMST3400 - Persuasion - 3cr.
- CMST3730 - Culture and Global Intervention (DHA) - 3cr.
- CMST4260 - Environmental Communication - 3cr.
- CMST4700 - Health Communication (CI) - 3cr.
- CMST4750 - Strategic Health Messaging - 3cr.
- CMST4760 - Current Issues in Communication and Mental Health - 3cr.
- CMST5300 - Visual Rhetoric - 3cr.

OR

Relational Communication and Conflict Transformation

Complete ANY of the following Courses:

- CMST2810 - Communicating Emotions - 3cr.
- CMST3120 - Communication in Family Contexts - 3cr.
- CMST3160 - Gender Communication - 3cr.
- CMST3330 - Intercultural Communication (DSS) - 3cr.
- CMST3600 - Communication and Conflict - 3cr.
- CMST4200 - Language, Thought, and Action (CI/DSS) - 3cr.
- CMST5110 - Advanced Interpersonal Communication - 3cr.
- CMST5500 - Communication and Leadership - 3cr.
- CMST5600 - Advanced Communication and Conflict - 3cr.

OR

Communicating Across Cultures

Complete ANY of the following Courses:

- CMST1330 - Introduction to Global Communication (BSS) - 3cr.
- CMST3160 - Gender Communication - 3cr.
- CMST3270 - Culture and Public Discourse (DHA) - 3cr.
- CMST3330 - Intercultural Communication (DSS) - 3cr.
- CMST3730 - Culture and Global Intervention (DHA) - 3cr.
- CMST4270 - Communication, Culture, and Power - 3cr.
- CMST4330 - Advanced Perspectives in Global Communication (CI) - 3cr.

OR

Organizational Communication and Collaborative Leadership

Complete ANY of the following Courses:

- CMST2120 - Group Collaboration and Decision Making - 3cr.
- CMST3020 - Persuasive Public Communication - 3cr.
- CMST3250 - Organizational Communication (CI) - 3cr.
- CMST3280 - Organizations and Social Change - 3cr.
- CMST3330 - Intercultural Communication (DSS) - 3cr.
- CMST3400 - Persuasion - 3cr.
- CMST3600 - Communication and Conflict - 3cr.
- CMST5300 - Visual Rhetoric - 3cr.
- CMST5500 - Communication and Leadership - 3cr.

OR

Social Influence and Advocacy

Complete ANY of the following Courses:

- CMST2270 - Argumentation and Debate - 3cr.
- CMST3020 - Persuasive Public Communication - 3cr.
- CMST3400 - Persuasion - 3cr.
- CMST3730 - Culture and Global Intervention (DHA) - 3cr.
- CMST4200 - Language, Thought, and Action (CI/DSS) - 3cr.
- CMST4260 - Environmental Communication - 3cr.
- CMST4750 - Strategic Health Messaging - 3cr.
- CMST5300 - Visual Rhetoric - 3cr.
- CMST5400 - Advanced Persuasion - 3cr.

D. Electives (3 credits)

Electives can be any CMST course not previously taken for section B or C, as well as internships (CMST4250 ADV INTERNSHIP/COOP/CHSS4250 ADV INTERNSHIP/COOP) or independent study classes under CMST5000 STUDIES IN CMST.

Complete ANY of the following Courses:

- CMST1330 - Introduction to Global Communication (BSS) - 3cr.
- CMST2120 - Group Collaboration and Decision Making - 3cr.
- CMST2250 - Introductory Internship/Co-op - 1cr.
- CMST2270 - Argumentation and Debate - 3cr.
- CMST2810 - Communicating Emotions - 3cr.
- CMST3010 - Communication Studies Teaching Practicum: Public Speaking - 1cr.
- CMST3020 - Persuasive Public Communication - 3cr.
- CMST3120 - Communication in Family Contexts - 3cr.
- CMST3160 - Gender Communication - 3cr.
- CMST3250 - Organizational Communication (CI) - 3cr.
- CMST3270 - Culture and Public Discourse (DHA) - 3cr.
- CMST3280 - Organizations and Social Change - 3cr.
- CMST3330 - Intercultural Communication (DSS) - 3cr.
- CMST3400 - Persuasion - 3cr.
- CMST3600 - Communication and Conflict - 3cr.
- CMST3610 - Communication Studies Teaching Practicum - Conflict - 1cr.
- CMST3730 - Culture and Global Intervention (DHA) - 3cr.
- CMST4200 - Language, Thought, and Action (CI/DSS) - 3cr.
- CMST4250 - Advanced Internship/Co-op - 1cr.
- CMST4260 - Environmental Communication - 3cr.
- CMST4270 - Communication, Culture, and Power - 3cr.
- CMST4330 - Advanced Perspectives in Global Communication (CI) - 3cr.
- CMST4700 - Health Communication (CI) - 3cr.
- CMST4750 - Strategic Health Messaging - 3cr.
- CMST4760 - Current Issues in Communication and Mental Health - 3cr.
- CMST4800 - Qualitative Research in Communications Studies - 3cr.
- CMST4810 - Quantitative Communication Studies Research Methods (QI) - 3cr.
- CMST4820 - Communication Criticism (CI) - 3cr.
- CMST5110 - Advanced Interpersonal Communication - 3cr.
- CMST5300 - Visual Rhetoric - 3cr.
- CMST5400 - Advanced Persuasion - 3cr.
- CMST5500 - Communication and Leadership - 3cr.
- CMST5600 - Advanced Communication and Conflict - 3cr.

Open Electives

Complete the following as needed:

Total elective credit is determined by General Education courses taken, degree type selected, additional credits earned, and any additional math or other prerequisite courses needed. Please consult your Academic Advisor for details.

Additional Comments:

Related Programs

- Organizational Communication - Minor: 12 credits
- Communication Studies - Minor: 12 credit

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Bachelor's Degree)

Suggested Degree Maps

Degree Map Name
Suggested Degree Map - Communication Studies BA, BS
Total Degree Map Credits
117
Degree Map Effective Catalog Year
2027 -

Degree Map Narrative

- Following is a sample four-year plan. Please note that student-specific plans may differ.
- Meet with an academic advisor to create a specific plan that best fits your academic needs.
- The student is ultimately responsible for knowing and completing all degree requirements.
- Make sure you meet the registration requirements for each class by clicking the course link and checking any prerequisites or corequisites.
- Consultation with an advisor may result in an altered plan customized for an individual student.
- Check your Degree Works for requirements and completion.

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	12	0

Requirement Select

- Communications Literacy (CL1) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Breadth Requirement (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Breadth Requirement (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Breadth Requirement (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	15	0

Requirement Select
- CMST1020 - Public Speaking (BHU)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Quantitative Literacy (QL) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Breadth Requirement (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	15	0

Requirement Select
- CMST2110 - Interpersonal Communication (BHU)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Communications Literacy (CL2) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Required Minor Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	16	0

Requirement Select
- Required Area: Diversity Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Required Area: Diversity Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- CMST3330 - Intercultural Communication (DSS)

OR
- Depth Social Sciences (DSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Required Minor Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- CMST2900 - Degree and Career Planning in Communication

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Fall	15	0

Requirement Select
- Required Area: Discovery Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Depth Life and Physical Sciences (DSC) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Com Theme: Connect/Collaborate Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Required Minor Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Spring	15	0

Requirement Select
- Com Theme: Connect/Collaborate Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Com Theme: Challenge/Change Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Quantitative Intensive (QI) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Required Minor Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Fall	15	0

Requirement Select
- Com Theme: Challenge/Change Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective/Emphasis Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective/Emphasis Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Required Minor Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Upper-Division Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Spring	14	0

Requirement Select
- CMST5800 - Communication Studies Senior Capstone (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select
- Elective/Emphasis Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Required Minor Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Upper-Division Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Upper-Division Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	Total Major Credits
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Program Learning Outcomes

Program Learning Outcomes

https://artsci.usu.edu/communication-media/communication-studies/assessments/all

Communication Studies - MA

Program Overview

College	Department	Program Level
College of Arts & Sciences	Communication & Media	Graduate

About this Degree

Program Contact:
Dr. Tim Curran, Director of Graduate Studies tim.curran@usu.edu

Program Description:

The Master's degree in Communication Studies is a face-to-face program focused on understanding communication in various contexts including (but not limited to) interpersonal relationships, health settings, the political sphere, intercultural settings, and social movements. Students will receive training in quantitative, qualitative, and rhetorical research methods. In addition to gaining a broad understanding of communication, graduates will develop expertise in an area (or multiple areas) of their choosing via course papers and a final thesis, professional project, or comprehensive exam. Our Master's program prepares graduates for the workforce or Ph.D. programs.

This degree will:

- Provide students with a broad understanding of communication as well as opportunities to specialize.
- Prepare students for careers that highly value communication knowledge and skills.
- Offer excellent opportunities for both research and teaching.

Information for applying:
In addition to the application requirements listed on the School of Graduate Studies page, the following are required:

- Resume
- Scholarly writing sample
- Statement of Purpose (1000-word limit)
    - Why are you interested in a Master's degree in Communication Studies? What topic areas are you interested in? Why are you interested in these topics? Which faculty do you think you might be interested in working with and why?
- Minimum GPA of 3.2

The application deadline is February 15th.

Program Requirements

Total Credits Required In Program Coursework	Total Credits Required To Earn This Credential
33	33

Simple Requisites

Program Requirements

- **Degree Verification:** A bachelor's degree from an accredited U.S. college or university or a similarly recognized international university is required for admission to and completion of a graduate program. An official transcript must be sent directly to the School of Graduate Studies.
- **Overall Graduate GPA at least 3.0 and no grades of C- or lower:** Graduate students are required to maintain at least a 3.0 GPA for degree-program courses. Grades of C- or lower will not be accepted for a graduate degree.
- **Course Number Acceptability:** All courses for a program of study for a master's degree in Communication Studies must be 6000 level or above.
- **Matriculation Start Semester:** A master's degree must be completed within six years of entering the degree program. Additional time may be requested by the student's advisor and submitted to the Vice Provost of Graduate Studies for review.
- **Coursework Validity:** Coursework over eight years old at the time of degree completion may not be used for a graduate degree unless it is revalidated.
- **Master's forms:** Please visit the following link to view required academic forms by the School of Graduate Studies by degree type: https://gradschool.usu.edu/academics/

This is a 33 credit program. 3 courses are required (CMST6050 SEMINAR ON TEACHING COMM, CMST6100 SOCIAL SCIENCE METHOD RESEARCH, and CMST6150 RHETORICAL CRITICISM RESEARCH). The remaining 24 credits are taken between additional coursework and a final project (Plan A, Plan B, and Plan C). See variations among Plan A, Plan B, and Plan C credit requirements below.

Plan A - Description and Requirements

What is a Plan A?

- A Plan A project is a full research project. It is original research where students either analyze original data and write a full social scientific report OR complete a full rhetorical analysis.
- 18 additional credits of coursework
- 6 credits of Thesis Research (CMST6970 THESIS RESEARCH)

Plan B - Description and Requirements

What is a Plan B?

- A Plan B project is an applied project based on academic research. Students write full literature reviews and create an applied project based on the literature.
- 21 additional credits of coursework
- 3 credits of Directed Study (CMST6920 DIRECTED STUDY)

Plan C - Description and Requirements

What is a Plan C?

- A Plan C project is a comprehensive exam wherein a group of faculty will write overarching essay questions about the field (based on the student's completed coursework). Students will pass based on their ability to demonstrate mastery over the topics covered in the questions asked.
- 24 credits of additional coursework
- Successfully complete a comprehensive exam

Section 1

Type
Completion Requirement

Core Courses (9 credits)

Complete ALL of the following Courses:

- CMST6050 - Seminar on Teaching Communication - 3cr.
- CMST6100 - Communication Studies Research: Social Science Methods - 3cr.
- CMST6150 - Communication Studies Research: Rhetorical Criticism - 3cr.

Plan A Students

Plan A Students are required to take 6 credits.

Complete ALL of the following Courses:

- CMST6970 - Thesis Research - 1cr.

Plan B Students

Complete ALL of the following Courses:

- CMST6920 - Directed Study - 3cr.

Plan C Students

Exam
Plan C students must successfully complete a comprehensive exam.

Additional Comments:

Students may take up to one graduate-level courses from other programs with the pre-approval of their committee chair.

Additional Program Requirements

● Students are expected to attend an orientation prior to each fall semester while enrolled in the program.
● Students are expected to attend a professional development seminar each spring semester while enrolled in the program.

Section 2

Type

Completion Requirement

Additional Courses

To fulfill credit requirement, the number of courses completed depends on your plan choice - A, B, or C.

Complete ANY of the following Courses:

- CMST6200 - Seminar on Personal Relationships - 3cr.
- CMST6250 - Graduate Independent Study - 1cr.
- CMST6300 - Seminar on Culture and Difference - 3cr.
- CMST6400 - Seminar in Social Influence - 3cr.
- CMST6500 - Seminar in Organizational Communication - 3cr.
- CMST6650 - Health Communication - 3cr.
- CMST6700 - Rhetorical Strategies in Social Movements - 3cr.
- CMST6800 - Transnational and International Political Discourse - 3cr.
- CMST6900 - Seminar in Communication Theory - 3cr.
- CMST6999 - Special Topics - 3cr.

Additional Comments:

Program Learning Outcomes

Program Learning Outcomes

https://artsci.usu.edu/assessments/

Communication Studies - MS

Program Overview

College	Department	Program Level
College of Arts & Sciences	Communication & Media	Graduate

About this Degree

The Master's degree in Communication Studies is a face-to-face program focused on understanding communication in various contexts including (but not limited to) interpersonal relationships, health settings, the political sphere, intercultural settings, and social movements. Students will receive training in quantitative, qualitative, and rhetorical research methods. In addition to gaining a broad understanding of communication, graduates will develop expertise in an area (or multiple areas) of their choosing via course papers and a final thesis, professional project, or comprehensive exam. Our Master's program prepares graduates for the workforce or Ph.D. programs.

Program Requirements

Total Credits Required In Program Coursework	Total Credits Required To Earn This Credential
33	33

Simple Requisites

Program Requirements

In addition to the application requirements listed on the School of Graduate Studies page, the following are required:

- Resume
- Scholarly writing sample
- Statement of Purpose (1000-word limit)
  - Why are you interested in a Master's degree in Communication Studies? What topic areas are you interested in? Why are you interested in these topics? Which faculty do you think you might be interested in working with and why?
- Minimum GPA of 3.2

The application deadline is February 15th.

This degree will:

- Provide students with a broad understanding of communication as well as opportunities to specialize.
- Prepare students for careers that highly value communication knowledge and skills.
- Offer excellent opportunities for both research and teaching.

Section 1

Type

Completion Requirement

Required Courses (27 credits)

Earn at least 27 credits

Core Courses (9 credits)

Complete ALL of the following Courses:

- CMST6050 - Seminar on Teaching Communication - 3cr.

- CMST6100 - Communication Studies Research: Social Science Methods - 3cr.
- CMST6150 - Communication Studies Research: Rhetorical Criticism - 3cr.

Plan A Students

Plan A Students are required to take 6 credits.

Complete ALL of the following Courses:

- CMST6970 - Thesis Research - 1cr.

Plan B Students

Complete ALL of the following Courses:

- CMST6920 - Directed Study - 3cr.

Plan C Students

Exam
Plan C students must successfully complete a comprehensive exam.

Additional Comments:

Students may take up to two graduate-level courses from other programs with the pre-approval of their committee chair.

Additional Program Requirements

● Students must attend orientation prior to each fall semester while enrolled in the program.
● Students must attend a professional development seminar each spring semester while enrolled in the program.

Section 2

Type

Completion Requirement

Additional Courses (to fulfill credit requirement)

Complete ANY of the following Courses:

- CMST6200 - Seminar on Personal Relationships - 3cr.
- CMST6250 - Graduate Independent Study - 1cr.
- CMST6300 - Seminar on Culture and Difference - 3cr.
- CMST6400 - Seminar in Social Influence - 3cr.
- CMST6500 - Seminar in Organizational Communication - 3cr.
- CMST6650 - Health Communication - 3cr.
- CMST6700 - Rhetorical Strategies in Social Movements - 3cr.
- CMST6800 - Transnational and International Political Discourse - 3cr.
- CMST6900 - Seminar in Communication Theory - 3cr.
- CMST6999 - Special Topics - 3cr.

Program Learning Outcomes

Program Learning Outcomes

https://chass.usu.edu/assessments/

Consulting - Minor (NOT CURRENTLY OFFERED)

Program Overview

College

Jon M. Huntsman School of Business

Department

Marketing and Strategy

Program Level

Undergraduate

About this Degree

The consulting minor prepares students to manage people, processes and strategies in all types of organizations and to consult with organizational leaders and members on these issues. These skills are needed by students in business, engineering, agriculture, sciences and any technical discipline to get a job in consulting and excel in any job. Students will learn how to manage consulting projects, how to make recommendations based on data analytical analysis, how to implement change and implement a consulting process in working with executives.

Program Requirements

Total Credits Required To Earn This Credential

11

Simple Requisites

Program Requirements

Application is required for the Consulting minor. Application can be found here: Consulting Minor Application Form.

The Consulting Minor requires five classes for a total of 11 semester credit hours. Admission into the minor is required to enroll in MSLE 4895.

Consulting Minor Track Options:

Track 1: General Consulting for Business and Industry

Track 2: Small Business/Micro-enterprise Consulting

A GPA of B- or above is required for minor coursework.

Courses may not be taken on a pass/fail basis

Section 1

Type

Completion Requirement

Core Curriculum

These courses are required for both tracks

Complete ALL of the following Courses:

- MGT3600 - Project Management - 2cr.
- MSLE3880 - Leading Change: Influence and Strategic Agreements - 2cr. (Inactive)
- MSLE4532 - Data-Driven Decision Making (DELETED FALL 2025) - 2cr.

Section 2

Type

Completion Requirement

Consulting Minor Track Options

Fulfill ANY of the following requirements:

Track 1: General Consulting for Business and Industry (5 credits)

Complete ALL of the following Courses:

- MSLE4895 - Consulting Skills - 3cr.
- MSLE4250 - Marketing-Strategy-Leadership-Entrepreneurship Internship - 2cr.

OR

Track 2: Small Business/Micro-enterprise Consulting Curriculum (5 credits)

Complete ALL of the following Courses:

- MSLE3590 - Small Business Consulting - 2cr.
- MSLE3510 - New Venture Creation - 3cr.
  OR MSLE3530 - New Venture Marketing - 3cr.
  OR MSLE3540 - New Venture Finance - 3cr.
  OR MSLE3580 - New Venture Execution - 3cr.

Program Learning Outcomes

Program Learning Outcomes

https://huntsman.usu.edu/assessment/assessment-plan

Coaching - Certificate (NOT CURRENTLY OFFERED)

Program Overview

College
College of Education & Human Services

Department
Kinesiology and Health Science

Program Level
Undergraduate

About this Degree

The Certificate in Coaching at Utah State University is a comprehensive program designed to provide aspiring coaches with a robust foundation in various aspects of coaching and sports management. This 17-credit certificate program is structured to offer both theoretical knowledge and practical skills essential for successful coaching careers.

The curriculum is carefully curated to cover key areas in coaching, including first aid, fitness training, sports regulations, athletic injury management, motor learning, administration and management in physical education, and motivation strategies. The program combines classroom learning with hands-on experiences, ensuring that students are well-prepared to meet the diverse challenges of coaching roles in educational institutions, sports centers, or private sports organizations.

Program Requirements

Total Credits Required In Program Coursework
17

Total Credits Required To Earn This Credential
17

Simple Requisites

Program Requirements

The Certificate is available to all majors.

- Cumulative Number of Required Credits: **17**
- Cumulative Minimum GPA for Graduation: **2.0 GPA**
- Courses may not be taken on a pass/fail basis except for those courses which are only taught pass/fail

Coaching - Certificate

Type
Completion Requirement

Required Core Courses (17 credits)

Complete ALL of the following Courses:

- HEP2000 - First Aid and Emergency Care - 2cr.
- KIN2050 - Sport Rules and Regulations of the Utah High School Athletic Association - 1cr.
- KIN3000 - Principles of Health and Fitness - 3cr.
- KIN3100 - Athletic Injuries - 3cr.
- KIN3200 - Motor Control and Learning (CI) - 3cr.
- KIN4350 - Administration and Classroom Management of Physical Education - 2cr.
- KIN4500 - Motivational Strategies for Physical Education and Coaching - 3cr.

Minimum University Requirements

Minimum University Requirements
Minimum University Requirements (Undergraduate Academic or Technical Certificates)

Program Learning Outcomes

Program Learning Outcomes
https://cehs.usu.edu/khs/assessment

Courtroom Assistance - Certificate

Program Overview

College
College of Arts & Sciences

Department
School of Social Sciences

Program Level
Undergraduate

About this Degree
The Courtroom Assistance Certificate will be housed and administered by USU's School of Social Sciences in the College of Arts and Sciences. While only three courses are required for certificate completion, students will be welcome and invited to take additional courses of elective.

Program Requirements

Total Credits Required In Program Coursework
9

Total Credits Required To Earn This Credential
9

Simple Requisites

Program Requirements

Certificate completion will require three courses totaling 9 credit hours.

Courtroom Assistance - Certificate

Type
Completion Requirement

Required Course (3 credits)

Complete ALL of the following Courses:

- CJ4350 - Courtroom Communication (CI) - 3cr.

Required Course (6 credits)

Complete at least 2 of the following courses:

- CJ2350 - Laws of Evidence - 3cr.
- CJ3150 - Moot Court - 3cr.
- PHIL4600 - Philosophy of Law - 3cr.
- POLS1100 - United States Government and Politics (BAI) - 3cr.
- POLS3120 - Law and Politics (DSS) - 3cr.

Minimum University Requirements

Minimum University Requirements
Minimum University Requirements (Undergraduate Academic or Technical Certificates)

Program Learning Outcomes

Program Learning Outcomes
Objectives:

1- Students will develop skills in oral advocacy and testimony presentation while understanding alternative dispute resolution methods and the role of communication in the criminal justice system.

2- Students will analyze the rules of evidence, the structure of criminal courts, and the processes involved in criminal cases while also exploring key political and legal concepts, including the relationship between law and morality and the U.S. Constitution.

3- Students will examine the foundations of American law and politics, comparing the U.S. legal system with others, while understanding the role of law in society and the constitutional principles that shape civil rights, liberties, and governance.

Community Development Economics - Minor

Program Overview

College
College of Agriculture & Natural Resources

Department
Applied Economics

Program Level
Undergraduate

About this Degree

About This Minor

The Community Development Economics minor at Utah State University equips students with the knowledge and skills needed to understand and address economic issues in communities, focusing on natural resources, regional economics, and policy analysis.

What You Will Learn

Students will study microeconomics, natural resource and regional economics, agricultural and natural resource law, and choose from courses covering natural resource and environmental economics, regional and community economic development, and applied economics policy analysis.

Program Requirements

Total Credits Required In Program Coursework
15

Total Credits Required To Earn This Credential
15

Simple Requisites

Program Requirements

To graduate with a minor in Community Development Economics, a student must have an overall GPA of 2.5 or higher. Courses for the minor may not be taken on a pass/fail basis.

Section 1

Type
Completion Requirement

Required Courses

Complete ALL of the following Courses:

- APEC2010 - Introduction to Microeconomics (BSS) - 3cr.
- APEC2900 - Agricultural and Natural Resource Law - 3cr.
- APEC3012 - Introduction to Natural Resource Economics (DSS) - 3cr.

Students must also select two of the following three courses:

Complete at least 2 of the following courses:

- APEC5560 - Natural Resource and Environmental Economics - 3cr.
- APEC5700 - Regional and Community Economic Development - 3cr.
- APEC5950 - Applied Economics Policy Analysis - 3cr.

Program Learning Outcomes

Program Learning Outcomes

https://caas.usu.edu/apec/assessment

Construction Fundamentals - Technical Certificate

Program Overview

College
College of Agriculture & Natural Resources

Department
Technology, Design & Technical Ed

Program Level
Undergraduate

About this Degree

The Construction Technology program provides a comprehensive opportunity for students to gain knowledge and skills to gain entry into the construction industry. Students are exposed to advanced skills such as building site layout, concrete, framing, interior finishes and exterior finishes. Students also gain knowledge of construction materials, blueprint reading, and estimating. Students who complete the certificate and obtain related employment have the option to continue training as apprentices in their chosen craft and receive state, national, and industry certifications.

Program Requirements

Total Credits Required In Program Coursework
6

Total Credits Required To Earn This Credential
6

Simple Requisites

Program Requirements

Construction Fundamentals Requirements:

Type
Completion Requirement

Required Courses

Complete ALL of the following Courses:

- BCCM1250 - Carpentry Concepts - 4cr.
- BCCM2010 - Framing I - 2cr.

Program Learning Outcomes

Program Learning Outcomes

https://caas.usu.edu/tdte/assessment/

Corrections Leadership Development - Certificate

Program Overview

College
College of Arts & Sciences

Department
School of Social Sciences

Program Level
Undergraduate

About this Degree

Criminal Justice is an area of major potential growth with adult learners in Utah and the surrounding states who may be seeking higher education to advance their careers. Leaders across the Department of Public Safety (DPS), Department of Corrections (DPC), Utah Sheriffs, and municipal departments have expressed interest in skills-based certificates that may be stacked in pursuit of an associate or bachelor's degree. In Utah, USU has an important opportunity to serve career professionals seeking to advance their careers via higher education.

The proposed certificate is based on a core of required coursework. This certificate is one in a series of stackable certificates which can part of the Criminal Justice Associates, Bachelor, or Bachelor of Applied Science (BAS) degrees. This certificate may be earned independently or stacked into the elective portion of the degree.

Program Requirements

Total Credits Required In Program Coursework
12

Total Credits Required To Earn This Credential
12

Simple Requisites

Program Requirements

Required courses

Type
Completion Requirement

Academic Courses

Complete ALL of the following Courses:

- CJ4450 - Foundations of Leadership - 3cr.
- CJ4460 - Advanced Leadership Skills - 3cr.
- CJ4470 - Specialized Leadership Project - 3cr.
- CJ4480 - Executive Leadership - 3cr.

Program Learning Outcomes

Program Learning Outcomes

Objectives:

1-Students will develop foundational leadership principles, including decision-making, organizational culture shaping, and problem-solving techniques, with a focus on effective leadership within law enforcement and corrections.

2- Students will explore leadership ethics, employee engagement, situational leadership, and counseling techniques, acquiring essential skills for adapting leadership styles to enhance employee development and work environment effectiveness.

3- Students will integrate leadership competencies across media relations, crisis management, mental health awareness, and legal updates, culminating in executive-level leadership strategies for high-level decision-making and professional image maintenance.

Corrections - Certificate

Program Overview

College
College of Arts & Sciences

Department
School of Social Sciences

Program Level
Undergraduate

About this Degree
While only three courses are required for certificate completion, students will be welcome and invited to take additional courses of electives.

Program Requirements

Total Credits Required In Program Coursework
9

Total Credits Required To Earn This Credential
9

Simple Requisites

Program Requirements

Certificate completion will require three courses totaling 9 credit hours.

Corrections - Certificate

Type
Completion Requirement

Required Courses (9 credits)

Complete ALL of the following Courses:

- CJ1300 - Introduction to Corrections - 3cr.
- CJ4310 - Corrections Law & Inmate Rights - 3cr.
- SW4920 - Trauma and Resilience - 3cr.

Minimum University Requirements

Minimum University Requirements
Minimum University Requirements (Undergraduate Academic or Technical Certificates)

Program Learning Outcomes

Program Learning Outcomes
Demonstrate a basic knowledge of the US Corrections systems; develop critical skills, competencies, and points of view required by corrections workers.

Objectives:

1- Students will analyze the history, philosophies, and administration of corrections in America, exploring sentencing strategies including alternatives to incarceration, prison communities, alternatives to incarceration, and reform efforts.

2- Students will explore the history, philosophies, and administration of inmates' rights in America, focusing on punishment, prison communities, and reform efforts.

3- Students will examine the effects of trauma and the factors that contribute to human resilience, focusing on how individuals cope with and overcome adverse experiences.

Computer Science - Minor

Program Overview

College
College of Engineering

Department
School of Computing

Program Level
Undergraduate

Program Requirements

Total Credits Required In Program Coursework
15-22

Total Credits Required To Earn This Credential
15-22

Simple Requisites

Program Requirements

Requirements for a minor in computer science are listed below. Students should meet with a School of Computing advisor early in their program to discuss requirements and declare the minor. All courses counted toward the minor must be completed with a grade of C- or better. The overall GPA in Computer Science Minor courses must be at least 2.5. There may be no more than three repeats of Computer Science courses (whether counted for the minor or not). Credit hours from courses offered outside of the School of Computing and/or from CS1400 INTRO COMPUTER SCIENCE 1 taken as Challenge by Exam cannot be counted toward the Computer Science minor.

Section 1

Type
Completion Requirement

Required Prerequisite Courses (0-7 credits)

Complete ALL of the following Courses:

- CS1400 - Introduction to Computer Science--CS 1 - 4cr.
- CS1410 - Introduction to Computer Science--CS 2 (QI) - 3cr.

OR

CS Department approved proof of competency

Section 2

Type
Completion Requirement

Required Courses (6 credits)

Complete ALL of the following Courses:

- CS1440 - Software Engineering Fundamentals - 3cr.
- CS2420 - Algorithms and Data Structures--CS 3 (QI) - 3cr.

Section 3

Type
Completion Requirement

Computer Science Electives (9 credits)

Earn at least 9 credits from the following:

- CS2410 - Introduction to Event Driven Programming and GUI's - 3cr.
- CS2610 - Developing Dynamic, Database-Driven Web Applications - 3cr.
- CS3100 - Operating Systems and Concurrency - 3cr.

- CS3430 - Scientific Computing (DSC/QI) - 3cr.
- CS3450 - Introduction to Software Engineering (CI) - 4cr.
- CS3460 - Modern C++ - 3cr.
- CS4320 - Applied Machine Learning - 3cr.
- CS4460 - Introduction to Cybersecurity - 3cr.
- CS4610 - Modern Web Development - 3cr.
- CS4700 - Programming Languages - 3cr.

• Any CS class numbered 5000 or above

Program Learning Outcomes

Program Learning Outcomes

https://www.usu.edu/cs/assessment/undergraduate/index

Computer Science - BS

Program Overview

College
College of Engineering

Department
School of Computing

Program Level
Undergraduate

About this Degree

Because almost all businesses, industries, and organizations use computers at all levels, the field of computer science is one of the fastest-growing sectors of employment for college graduates. Computer scientists understand and use algorithmic sequences and computer languages, such as Python, Java, JavaScript, or C++, to create new programs and to solve problems found in almost every sector of society.

Students learn the theoretical foundations of information and computation and understand practical techniques for their implementation and application in order to create, describe, and transform information in computer systems. Computer science is different from computer engineering in that it focuses more on the theoretical understanding of computation and programming.

- For more information about Computer Science, see the Computer Science department.
- Admitted and current students must meet with an advisor.
- Log on to Degree Works to check student-specific program progress.
- Please check with your advisor for the math requirement for this degree. Most students' highest math course will be MATH3310 DISCRETE MATHEMATICS.

Admission Requirements for this Program

Required for Admission to the Pre-Professional (PPRU) Program

New first-year students:

- New first-year students admitted to USU in Good Standing are eligible for admission to the Pre-Professional Program.
- New first-year students with Earned Admission to USU are eligible for admission to the Pre-Professional Program with a minimum 2.5 High School GPA.

Transfer students:

- Transfer students from other institutions or students transferring from other USU majors need a minimum 2.5 overall GPA and 2.5 USU GPA (if applicable) and must show completion of MATH1210 CALCULUS I (QL) prerequisites for admission to the Pre-Professional Program.
- Transfer students who have completed pre-professional courses must have a minimum grade of C- and a minimum 2.5 GPA in the pre-professional courses for admission to the Pre-Professional Program. They must also have no more than 3 repeats total in the pre-professional courses. Pre-professional courses are listed below in the "***Computer Science Pre-Professional (PPRU) Program Courses***" section.

To remain in good standing in the Pre-Professional Program, students must:

- Be in good academic standing in the university and college.
- Have a GPA of 2.5 or higher in the pre-professional courses.
- Maintain a minimum USU GPA of 2.0
- Pass all pre-professional courses with a grade of C- or better.

- Have no more than 3 repeats total in the pre-professional courses. Multiple repeats of the same course are included in the total of 3 repeats.

Required for Admission to the Professional Program

To be admitted to the professional program, students must:

- Be in good academic standing in the university and the college.
- Have a GPA of 2.5 or higher in the pre-professional courses.
- Maintain a minimum USU GPA of 2.0.
- Pass all pre-professional courses with a grade of C- or better.
- Have no more than 3 repeats total in the pre-professional courses. Multiple repeats of the same course are included in the total of 3 repeats.

To remain in good standing in the Professional Program and graduate, students must:

- Be in good academic standing in the university and the college.
- Have a GPA of 2.5 or higher in the CS major courses. This includes any class fulfilling a CS major requirement, regardless of the subject.
- Maintain a minimum USU GPA of 2.0.
- Pass all CS major courses with a grade of C- or better. This includes any class fulfilling a CS major requirement, regardless of the subject.

Program Requirements

Total Credits Required In Program Coursework
82-86

Total Credits Required To Earn This Credential
120

Simple Requisites

Program Requirements

Students should work closely with their advisor to select their classes.

For all Computer Science majors, the following academic regulations apply, in addition to university regulations:

1. A grade of C- or better is required for all courses taken to fulfill a Computer Science major requirement, regardless of the subject.
2. The P/D+, D, F grading option may not be used in any class fulfilling a Computer Science major requirement, regardless of the subject.
3. To remain in good standing and graduate with a Bachelor of Science in Computer Science, students must maintain a minimum USU GPA of 2.0 as well as a GPA of 2.5 or higher in the pre-professional courses and a GPA of 2.5 or higher in the CS major courses.

If starting in a math course other than MATH1210 CALCULUS I (QL), discuss with an advisor how the plan will be affected.

Computer Science - BS

Type
Completion Requirement

Computer Science Pre-Professional (PPRU) Program Courses (26 credits)

All courses require a grade of C- or better. A GPA of 2.5 or higher is required in the pre-professional courses. No more than 3 repeats total are allowed in the pre-professional courses.

Earn a minimum grade of C- in the following:

- CS1400 - Introduction to Computer Science--CS 1 - 4cr.
- CS1410 - Introduction to Computer Science--CS 2 (QI) - 3cr.
- CS1440 - Software Engineering Fundamentals - 3cr.
- CS2410 - Introduction to Event Driven Programming and GUI's - 3cr.
- CS2420 - Algorithms and Data Structures--CS 3 (QI) - 3cr.
- CS2610 - Developing Dynamic, Database-Driven Web Applications - 3cr.
- MATH1210 - Calculus I (QL) - 4cr.
- MATH3310 - Discrete Mathematics - 3cr.

Computer Science Required Courses (19-20 credits)

Earn a minimum grade of C- in the following:

- CS2810 - Computer Systems Organization and Architecture I - 3cr.
- CS3100 - Operating Systems and Concurrency - 3cr.
- CS3450 - Introduction to Software Engineering (CI) - 4cr.
- CS4700 - Programming Languages - 3cr.
  OR CS5300 - Compiler Construction - 4cr.
- CS5000 - Theory of Computability - 3cr.
  OR CS5050 - Advanced Algorithms - 3cr.
- TCR3085 - Technical Communication for the Computer Science Workplace (CI) - 3cr.

Computer Science 3XXX/4XXX Elective Courses (6 credits)

Students must take 6 credits of CS 3XXX/4XXX courses from the following list. Additional CS 5XXX/6XXX courses may be applied here if they are not used to fulfill another CS major requirement. All courses require a grade of C- or better.

Earn a minimum grade of C- in the following:

- CS3430 - Scientific Computing (DSC/QI) - 3cr.
- CS3460 - Modern C++ - 3cr.
- CS4250 - Cooperative Work Experience - 1cr.
- CS4320 - Applied Machine Learning - 3cr.
- CS4460 - Introduction to Cybersecurity - 3cr.
- CS4610 - Modern Web Development - 3cr.
- CS4950 - Undergraduate Research - 1cr.

NOTE:

1. CS4250 COOPERATIVE WORK EXPERIENCE - CS majors may use no more than 3 credits of CS4250 COOPERATIVE WORK EXPERIENCE toward their CS major requirements.

Computer Science 5XXX/6XXX Elective Courses (at least 16 credits)

Students must take at least 16 credits of CS 5XXX courses. At least one course must be a 4-credit course, and at least one course must be a TEAMWORK course. CS5313 TECH STARTUP SOFTWARE ENGR, CS5316 COMMERCIAL SOFTWARE ENGR, CS6313 TECH STARTUP SOFTWARE ENGR, and CS6316 COMMERCIAL SOFTWARE ENGR are part of the 18-credit sandbox program and require instructor approval. Students cannot take CS5313 TECH STARTUP SOFTWARE ENGR ,CS5316 COMMERCIAL SOFTWARE ENGR, and CS6313 TECH STARTUP SOFTWARE ENGR as standalone course to fulfill the TEAMWORK requirement. CS majors can take any of the following 6XXX courses in place of 5XXX courses, provided prerequisites for the dual-listed CS 5XXX course is met, or instructor permission is provided. All courses require a grade of C- or better.

Fulfill ANY of the following requirements:

Computer Science 5XXX Elective Courses

Complete ANY of the following Courses:

- CS5000 - Theory of Computability - 3cr.
- CS5030 - High Performance Computing - 4cr.
- CS5040 - Scientific Visualization for Data Science - 3cr.
- CS5050 - Advanced Algorithms - 3cr.
- CS5080 - Data Mining - 3cr.
- CS5110 - MultiAgent Systems - 4cr.
- CS5140 - Human Factors in Computing - 3cr.
- CS5215 - Computer Networks and Security - 3cr.
- CS5270 - Introduction to Cloud Development - 3cr.
- CS5300 - Compiler Construction - 4cr.
- CS5311 - Technology Startup Business Principles - 1cr.
- CS5312 - Modern Technology Stacks - 4cr.
- CS5313 - Technology Startup Software Engineering - 4cr.
- CS5314 - Technology Startup Business Launch - 1cr.
- CS5315 - Computer Science Innovations - 4cr.
- CS5316 - Commercial Software Engineering - 4cr.
- CS5330 - Data-Driven Programming Language Processing - 3cr.
- CS5400 - Computer Graphics I - 4cr.
- CS5410 - Game Development - 4cr.
- CS5470 - Introduction to Interactive Virtual Reality - 3cr.
- CS5600 - Intelligent Systems - 4cr.
- CS5615 - Natural Language Processing - 3cr.
- CS5620 - AI Applications In Education - 3cr.
- CS5640 - Artificial Neural Networks - 3cr.
- CS5665 - Machine Learning for Data Science - 3cr.
- CS5680 - Computer Vision: Foundations and Applications - 3cr.
- CS5700 - Object-Oriented Software Development - 4cr.
- CS5710 - Software Security - 3cr.
- CS5715 - Program Analysis and Its Application - 3cr.
- CS5750 - Computing Education Research - 3cr.
- CS5800 - Introduction to Database Systems - 3cr.
- CS5820 - Interactive Information Visualization for Data Science - 3cr.
- CS5830 - Data Science in Practice - 3cr.
- CS5840 - Graph Mining - 3cr.
- CS5850 - Introduction to Data Analysis - 3cr.
- CS5890 - Topics in Computer Science (Topic) - 1cr.
- CS5950 - Independent Study - 3cr.

NOTE:

1. CS5000 THEORY OF COMPUTABILITY, CS5050 ADV ALGORITHMS, CS5300 COMPILER CONSTRUCTION - Can **NOT** be taken if used to fulfill **any other** CS major requirement.
2. CS5400 COMPUTER GRAPHICS I and CS5700 OBJECT-ORIENTED SOFTWARE DEV - May be offered in summer once in two years.

TEAMWORK Courses:

CS5030 HIGH PERFORMANCE COMPUTING
CS5110 MULTIAGENT SYSTEMS
CS5313 TECH STARTUP SOFTWARE ENGR
CS5316 COMMERCIAL SOFTWARE ENGR
CS5330 DATA-DRIVEN PL PROCESSING
CS5410 GAME DEVELOPMENT
CS5470 INTRO TO INTERACTIVE VR
CS5615 NATURAL LANGUAGE PROCESSING
CS5665 MACHINE LEARNING FOR DATA SCI
CS5830 DATA SCIENCE IN PRACTICE

OR

Computer Science 6XXX Elective Courses

CS majors can take any of the following 6XXX courses in place of 5XXX courses, provided prerequisites for the dual-listed CS 5XXX course is met, or instructor permission is provided. All courses require a grade of C- or better.

Complete ANY of the following Courses:

- CS6030 - High Performance Computing - 4cr.
- CS6040 - Scientific Visualization for Data Science - 3cr.
- CS6110 - MultiAgent Systems - 4cr.
- CS6140 - Human Factors in Computing - 3cr.
- CS6215 - Computer Networks and Security - 3cr.
- CS6270 - Introduction to Cloud Development - 3cr.
- CS6311 - Technology Startup Business Principles - 1cr.
- CS6312 - Modern Technology Stacks - 4cr.
- CS6313 - Technology Startup Software Engineering - 4cr.
- CS6314 - Technology Startup Business Launch - 1cr.
- CS6315 - Computer Science Innovations - 4cr.
- CS6316 - Commercial Software Engineering - 4cr.
- CS6330 - Data-Driven Programming Language Processing - 3cr.
- CS6460 - Usable Privacy and Security - 3cr.
- CS6470 - Introduction to Interactive Virtual Reality - 3cr.
- CS6600 - Intelligent Systems - 4cr.
- CS6615 - Natural Language Processing - 3cr.
- CS6620 - AI Applications In Education - 3cr.
- CS6630 - Fuzzy Logic and its Application - 3cr.
- CS6640 - Artificial Neural Networks - 3cr.
- CS6665 - Machine Learning for Data Science - 3cr.
- CS6675 - Advanced Data Mining - 3cr.
- CS6680 - Computer Vision: Foundations and Applications - 3cr.
- CS6710 - Software Security - 3cr.
- CS6715 - Program Analysis and Its Application - 3cr.
- CS6750 - Computing Education Research - 3cr.
- CS6800 - Advanced Database Systems - 3cr.
- CS6820 - Interactive Information Visualization for Data Science - 3cr.
- CS6830 - Data Science in Practice - 3cr.
- CS6840 - Graph Mining - 3cr.
- CS6850 - Introduction to Data Analysis - 3cr.
- CS6890 - Topics in Computer Science (Topic) - 1cr.

NOTE:

TEAMWORK Courses:

CS6030 HIGH PERFORMANCE COMPUTING
CS6110 MULTIAGENT SYSTEMS
CS6313 TECH STARTUP SOFTWARE ENGR
CS6316 COMMERCIAL SOFTWARE ENGR
CS6330 DATA-DRIVEN PL PROCESSING
CS6470 INTRO TO INTERACTIVE VR
CS6615 NATURAL LANGUAGE PROCESSING
CS6830 DATA SCIENCE IN PRACTICE

Mathematics/Statistics Requirements (9-10 credits)

Students must complete MATH1210 CALCULUS I (QL) (4 credits) and MATH3310 DISCRETE MATHEMATICS (3 credits) which are listed above in the "Computer Science Pre-Professional (PPRU) Program Courses" section.)

Computer Science majors must complete STAT3000 STATISTICS FOR SCIENTISTS (QI) (3 credits) and two MATH classes from the list below:

Fulfill ALL of the following requirements:

Required Math Course

Earn a minimum grade of C- in the following:

- STAT3000 - Statistics for Scientists (QI) - 3cr.

AND

Additional Math Course Requirement Options

Earn a minimum grade of a C- in the following:

Complete at least 2 of the following courses:

- MATH1220 - Calculus II (QL) - 4cr.
- MATH2210 - Multivariable Calculus (QI) - 3cr.
- MATH2270 - Linear Algebra (QI) - 3cr.
- MATH4410 - Discrete Math 2 - 4cr.
- MATH5560 - Actuarial Financial Mathematics - 3cr.
- MATH5710 - Introduction to Probability - 3cr.

Science Requirement (6-8 credits)

Every bachelor degree candidate in the College of Science must complete a year-long sequence outside of their major department. All courses require a grade of C- or better. The approved sequences are:

Fulfill ANY of the following requirements:

Biology Option

Complete ALL of the following Courses:

- BIOL1610 - Biology I - 3cr.
- BIOL1620 - Biology II (BLS) - 3cr.

OR

Chemistry Option

Complete ALL of the following Courses:

- CHEM1210 - Principles of Chemistry I - 4cr.
- CHEM1220 - Principles of Chemistry II (BPS) - 4cr.

OR

Geology Option

Complete ALL of the following Courses:

- GEO1110 - Physical Geology (BPS) - 3cr.
- GEO1115 - Physical Geology Laboratory - 1cr.
- GEO2200 - The Earth Through Time - 3cr.

OR

General Physics Option

Complete ALL of the following Courses:

- PHYS2110 - General Physics—Life Sciences I - 4cr.
- PHYS2120 - General Physics - Life Sciences II (BPS) - 4cr.

OR

Physics for Scientists and Engineers Option

Complete ALL of the following Courses:

- PHYS2210 - Physics for Scientists and Engineers I (QI/BPS) - 4cr.
- PHYS2220 - Physics for Scientists and Engineers II (BPS/QI) - 4cr.

Open Electives

Complete the following as needed:
Total elective credit is determined by General Education courses taken, degree type selected, additional credits earned, and any additional math or other prerequisite courses needed. Please consult your Academic Advisor for details.

Additional Comments:

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Bachelor's Degree)

Suggested Degree Maps

Degree Map Name
Suggested Degree Map - Computer Science BS
Total Degree Map Credits
108 - 125
Degree Map Effective Catalog Year
2027 -

Degree Map Narrative

- Following is a sample four-year plan. Please note that student-specific plans may differ.
- Meet with an academic advisor to create a specific plan that best fits your academic needs.
- The student is ultimately responsible for knowing and completing all degree requirements.
- Make sure you meet the registration requirements for each class by clicking the course link and checking any prerequisites or corequisites.
- Consultation with an advisor may result in an altered plan customized for an individual student.
- Check your Degree Works for requirements and completion.

Consult with your academic advisor to ensure courses required for admission to the Professional Program are taken in the correct timeline. Discuss elective options with an advisor.

Fall semester of Year 3 is intended to be the beginning of the Professional Program.

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	14	0

Requirement Select
- CS1400 - Introduction to Computer Science--CS 1

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- ENGL1010 - Writing as Inquiry (CL1)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- MATH1210 - Calculus I (QL)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- Breadth Creative Arts (BCA) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	15 - 17	0

Requirement Select
- CS1410 - Introduction to Computer Science--CS 2 (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- CS1440 - Software Engineering Fundamentals

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Breadth American Institutions (BAI) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Breadth Social Sciences (BSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Mathematics Requirement Course (3-4 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	14 - 15	0

Requirement Select

- CS2420 - Algorithms and Data Structures--CS 3 (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- CS2410 - Introduction to Event Driven Programming and GUI's

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- MATH3310 - Discrete Mathematics

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Science sequence I course (3-4 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Elective Course (2 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	15 - 16	0

Requirement Select

- CS2610 - Developing Dynamic, Database-Driven Web Applications

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- CS2810 - Computer Systems Organization and Architecture I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Elective Course (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Science sequence II course (3-4 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- STAT3000 - Statistics for Scientists (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Fall	12 - 16	0

Requirement Select

- CS3100 - Operating Systems and Concurrency

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- CS5000 - Theory of Computability

OR

- CS5050 - Advanced Algorithms

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Breadth Life Sciences (BLS) Course

OR

- Breadth Physical Sciences (BPS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	0 - 4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- ENGL2010 - Research and Argument Across Perspectives (CL2)

OR

- ENGL2020 - Professional Communication (CL2)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Mathematics Requirement Course (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Spring	16 - 17	0

Requirement Select

- CS4700 - Programming Languages
  OR
- CS5300 - Compiler Construction

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 4
Progress Credits	-
Contact Hours	3 - 4
Clinical	-
Criticality	No

Requirement Select

- CS3450 - Introduction to Software Engineering (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- TCR3085 - Technical Communication for the Computer Science Workplace (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Breadth Humanities (BHU) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- CS 3XXX/4XXX Elective course (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Fall	9 - 15	0

Requirement Select

- Depth Social Sciences (DSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	0 - 4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- TEAMWORK Requirement Course (3-4 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- CS 5XXX/6XXX Elective Course (3-4 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- CS 5XXX/6XXX Elective Course (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Spring	13 - 15	0

Requirement Select

- Depth Humanities and Creative Arts (DHA) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1 - 3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- CS 3XXX/4XXX Elective Course (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- CS 5XXX/6XXX Elective Course (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- CS 5XXX/6XXX Elective Course (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Elective Course (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Program Learning Outcomes

Program Learning Outcomes

https://www.usu.edu/oda/assessment/

Master of Computer Science - MCS

Program Overview

College
College of Engineering

Department
School of Computing

Program Level
Graduate

About this Degree

Program Contact:

Graduate Program Coordinator: Taryn Sommers, SER 301D, (435) 797-2209, taryn.sommers@usu.edu

Schedule an appointment: https://studentappts.usu.edu/ramonline/BookAppt?AG=1404

Program Description:

The Master of Computer Science (MCS) is a graduate program that is only coursework. This degree is available to students with a computer science undergraduate degree or adequate prior computer science coursework. Students will take 33 credits of computer science courses to complete this degree.

This program is available in Logan at the main campus and at statewide campuses via USU's Distance Education program.

MCS graduates demonstrate mastery of fundamental Computer Science theory and their ability to formulate a problem, analyze it, and develop an efficient and effective solution. Graduates will be successful in their careers, finding jobs, and progressing in their field. Graduates will have excellent oral as well as written communication skills.

Admission Requirements for this Program

Admission requirements can be found on the USU School of Graduate Studies website (gradschool.usu.edu/admissions/policies). Students must also meet the minimum admission requirements for the Computer Science MCS program listed below.

- C or better in CS 2420 Data Structures and Algorithms (or equivalent) at an ABET accredited University.
- Extensive experience in modern programming languages.
- Understanding of Calculus and Statistics
- 3.0 Cumulative GPA in your BS program
- Three satisfactory Letters of Recommendation from past instructors and/or employers.

Additional Information

Letter of Recommendation Waiver:

- Students who attended USU and graduated with a major in Computer Science, and meet the minimum admission requirements, can request a "Letter of Recommendation waiver from the GPC, Taryn Sommers taryn.sommers@usu.edu.

After you apply:

- If you are currently in the Computer Science BS program at USU, please fill out the Split Form before graduation.

Transcripts:

- An unofficial transcript from your university is acceptable for your application. If accepted into the program, you will have to request an official transcript be sent to the School of Graduate Studies from your university. This transcript should include your completed program(s) and the date the degree(s) was awarded.

International Students:

- A TOEFL score of 79 or an IELTS score of 6.5 overall is required.
- Applicants who have completed two years of college in one of the countries listed here, will not be required to provide additional evidence of English language proficiency via the TOEFL or IELTS. Please email GPC, Taryn Sommers taryn.sommers@usu.edu to waive this requirement **after you have paid the application fee.**

Additional information about the Computer Science MS program may be obtained by visiting the program website at https://engineering.usu.edu/cs/students/graduate/.

Program Requirements

Total Credits Required In Program Coursework
33

Total Credits Required To Earn This Credential
33

Simple Requisites

Program Requirements

- **Degree Verification**: A bachelor's degree from an accredited U.S. college or university or a similarly recognized international university is required for admission to and completion of a graduate program. An official transcript must be sent directly to the School of Graduate Studies.
- **Overall Graduate GPA at least 3.0 and grades of B- or better (in all degree-program coursework) are required:** Graduate students are required to maintain at least a 3.0 GPA for degree-program courses. Grades of C- or lower will not be accepted for a graduate degree according to the School of Graduate Studies. Only grades of B- or better are accepted for the Computer Science MCS degree.
- **Course Number Acceptability:** The program of study for a master's degree cannot include more than 12 semester credits of courses below the 6000-level and must include at least 18 credits of 6000-level courses.
- **A master's degree must be completed within six years of entering the degree program.** Additional time may be requested by the student's advisor and submitted to the Vice Provost of Graduate Studies for review.
- **Coursework Validity:** Coursework over eight years old at the time of degree completion may not be used for a graduate degree unless it is revalidated.
- **Course Plan and Credits:** Students in the Computer Science MCS program are required to take 33 credits. This is a Coursework only degree.
- **CS5050/CS6050:** All CS graduate students are required to take CS5050/CS6050 or have taken a course equivalent of CS5050 with a grade of B- or above from an ABET-accredited university.
- **Master's forms:** Approval of the Program of Study is required by the School of Graduate Studies.

Master of Computer Science (33 credits)

Type
Completion Requirement

Required Course

Complete ALL of the following Courses:

- CS5050 - Advanced Algorithms - 3cr.
  OR CS6050 - Advanced Algorithms - 3cr.

Plan of Study (30 credits)

Complete the following:

- At least 21 credits of CS 6000-level courses or above are required for graduation excluding CS6250 COOPERATIVE WORK EXPERIENCE.
- Up to 12 credits of graduate coursework at the 5000-level are allowed.

  NOTE:

  · A maximum of 3 credits of CS6250 COOPERATIVE WORK EXPERIENCE are allowed.
  · A maximum of one course is allowed from the following list: CS5950 INDEPENDENT STUDY, CS6950 DIRECTED READINGS, **or** CS7950 READING AND REPORTS.
  · CS6900 SEMINAR, CS6970 THESIS AND RESEARCH, CS6990 CONT GRAD ADVISEMENT, CS7970 DISSERTATION RESEARCH, and CS7990 CONT GRAD ADVISEMENT are not allowed.
  · A maximum of 6 credits are allowed from outside the School of Computing. Outside credits must be from ECE, MATH, STAT, PSC6150 BIOINFORMATICS BIG DATA MINING, or SOC6150 SOCIAL STATISTICS II or any course upon request and departmental approval.

Program Learning Outcomes

Program Learning Outcomes

https://www.usu.edu/cs/assessment/undergraduate/index

Computer Science - MS

Program Overview

College
College of Engineering

Department
School of Computing

Program Level
Graduate

About this Degree

Program Contact:

Graduate Program Coordinator: Taryn Sommers, SER 301D, (435) 797-2209, taryn.sommers@usu.edu

Schedule an appointment: https://studentappts.usu.edu/ramonline/BookAppt?AG=1404

Program Description

The Computer Science MS is a graduate program with research faculty members whose expertise falls in the following areas: Artificial Intelligence, Computer Vision, Multi-Agent Systems, Data Science/Data Analysis/Data Mining, Database and Software Systems, Computer Security, Theoretical Computer Science, Visualization, Virtual Reality, and High Performance Computing. This degree is available to students with a computer science undergraduate degree or adequate prior computer science coursework. Students may pursue Plan A (Thesis) or Plan B (Report) to achieve their degree.

This program is available in Logan at the main campus and at statewide campuses via USU's Distance Education program.

Computer Science MS graduates demonstrate mastery of fundamental Computer Science theory and their ability to formulate a problem, analyze it, and develop an efficient and effective solution. Graduates will be successful in their careers, finding jobs, and progressing in their field. Graduates will have excellent oral as well as written communication skills. Graduates will demonstrate a contribution of new knowledge via a thesis or report and through original research culminating in publication.

Admission Requirements for this Program

Admission requirements can be found on the USU School of Graduate Studies website (gradschool.usu.edu/admissions/policies). Students must also meet the minimum admission requirements for the Computer Science MS program listed below.

- C or better in CS 2420 Data Structures and Algorithms (or equivalent) at an ABET accredited University.
- Extensive experience in modern programming languages.
- Understanding of Calculus and Statistics
- 3.0 Cumulative GPA in your BS program
- Three satisfactory Letters of Recommendation from past instructors and/or employers.

Additional Information

Transcripts:

- An unofficial transcript from your university is acceptable for your application. If accepted into the program, you will have to request an official transcript be sent to the School of Graduate Studies from your university. This transcript should include your completed program(s) and the date the degree(s) was awarded.

International Students:

- A TOEFL score of 79 or an IELTS score of 6.5 overall is required.

- Applicants who have completed two years of college in one of the countries listed here, will not be required to provide additional evidence of English language proficiency via the TOEFL or IELTS. Please email GPC, Taryn Sommers taryn.sommers@usu.edu to waive this requirement **after you have paid the application fee.**

Additional information about the Computer Science MS program may be obtained by visiting the program website at https://engineering.usu.edu/cs/students/graduate/.

Program Requirements

Total Credits Required In Program Coursework
30

Total Credits Required To Earn This Credential
30

Simple Requisites

Program Requirements

- **Degree Verification**: A bachelor's degree from an accredited U.S. college or university or a similarly recognized international university is required for admission to and completion of a graduate program. An official transcript must be sent directly to the School of Graduate Studies
- **Overall Graduate GPA at least 3.0 and grades of B- or better (in all degree-program coursework) are required:** Graduate students are required to maintain at least a 3.0 GPA for degree-program courses. Grades of C- or lower will not be accepted for a graduate degree according to the School of Graduate Studies. Only grades of B- or better are accepted for the Computer Science MS degree.
- **Course Number Acceptability**: The program of study for a master's degree cannot include more than 12 semester credits of courses below the 6000-level and must include at least 18 credits of 6000-level courses.
- **A master's degree must be completed within six years of entering the degree program**. Additional time may be requested by the student's advisor and submitted to the Vice Provost of Graduate Studies for review.
- **Coursework Validity**: Coursework over eight years old at the time of degree completion may not be used for a graduate degree unless it is revalidated.
- **Course Plan and Credits:** Computer Science MS students may pursue Plan A (Thesis) or Plan B (Report) to achieve their degree. Students in the Computer Science MS Plan A program are required to take 30 credits, and students in the Computer Science MS Plan B program are required to take 33 credits.
- **CS5050/CS6050:** All CS graduate students are required to take CS5050/CS6050 or have taken a course equivalent of CS5050 with a grade of B- or above from an ABET-accredited university.
- **Master's forms:** Approval of the following MS forms is required by the School of Graduate Studies.

  Plan A Forms:

  ▪ Supervisory Committee Form

  ▪ Program of Study

  ▪ Thesis Proposal Approval

  ▪ Appointment for Exam

  ▪ Authorship & Copyright

  ▪ Format and Style

  ▪ Title Page

  ▪ Graduation Application

  ▪ Record of Exam

  Plan B Forms:

  ▪ Supervisory Committee Form

  ▪ Program of Study

  ▪ Thesis Proposal Approval

  ▪ Appointment for Exam

  ▪ Plan B Report/Creative Project Submission

  ▪ Graduation Application

  ▪ Record of Exam

Computer Science MS Plan A (30 credits)

Type
Completion Requirement

Plan A Requirements

Fulfill ALL of the following requirements:

Required Courses (9 credits)

Complete ALL of the following Courses:

- CS5050 - Advanced Algorithms - 3cr.
  OR CS6050 - Advanced Algorithms - 3cr.
- CS6970 - Thesis and Research - 1cr.

NOTE:

1. CS6970 THESIS AND RESEARCH - Enroll in 6 credits, and is typically taken the last 1-2 semesters.

AND

Program of Study Courses (30 credits)

Complete the following:
• At least **18 credits** of CS 6000-level courses or above are required for graduation excluding CS6250 COOPERATIVE WORK EXPERIENCE.
• Up to **12 credits** of graduate coursework at the 5000-level are allowed.

NOTE:

1. A maximum of 3 credits of CS6250 COOPERATIVE WORK EXPERIENCE are allowed.
2. A maximum of **one** course is allowed from the following list: CS5950 INDEPENDENT STUDY, CS6950 DIRECTED READINGS, or CS7950 READING AND REPORTS.
3. Additional credits of CS6970 THESIS AND RESEARCH are not allowed.
4. CS6990 CONT GRAD ADVISEMENT, CS7970 DISSERTATION RESEARCH and CS7990 CONT GRAD ADVISEMENT are not allowed.
5. A maximum of **6 credits** are allowed from outside the School of Computing. Outside credits must be from ECE, MATH, STAT, or any other course approved by a student's major professor.

AND

Research Requirements

Complete ALL of the following:
- Form a supervisory committee.
- Complete a graduate thesis proposal.
- Prepare a graduate thesis based on original work.
- Successfully defend and submit the thesis to the library.

Computer Science MS Plan B (33–34 credits)

Type
Completion Requirement

Plan B Requirements

Fulfill ALL of the following requirements:

Required Courses (6–7 credits)

Complete ALL of the following Courses:
- CS5050 - Advanced Algorithms - 3cr.
  OR CS6050 - Advanced Algorithms - 3cr.
- CS6970 - Thesis and Research - 1cr.

NOTE:

1. CS6970 THESIS AND RESEARCH - 2-3 credits, and is typically taken the last 1-2 semesters.

AND

Program of Study Courses (30 credits)

Complete the following:
- At least **18 credits** of CS 6000-level courses or above are required for graduation excluding CS6250 COOPERATIVE WORK EXPERIENCE.
- Up to **12 credits** of graduate coursework at the 5000-level are allowed.

NOTES:

1. A maximum of 3 credits of CS6250 COOPERATIVE WORK EXPERIENCE are allowed.
2. A maximum of **one** course is allowed from the following list: CS5950 INDEPENDENT STUDY, CS6950 DIRECTED READINGS, or CS7950 READING AND REPORTS.
3. Additional credits of CS6970 THESIS AND RESEARCH are not allowed.
4. CS6990 CONT GRAD ADVISEMENT, CS7970 DISSERTATION RESEARCH and CS7990 CONT GRAD ADVISEMENT are not allowed.
5. A maximum of **6 credits** are allowed from outside the School of Computing. Outside credits must be from ECE, MATH, STAT, or any other course approved by a student's major professor.

AND

Research Requirements

Complete ALL of the following:
- Form a supervisory committee.
- Complete a graduate thesis proposal.
- Prepare a graduate thesis based on original work.
- Successfully defend and submit the thesis to the library.

Program Learning Outcomes

Program Learning Outcomes
https://www.usu.edu/cs/assessment/undergraduate/index

Computer Science - PhD

Program Overview

College
College of Engineering

Department
School of Computing

Program Level
Graduate

About this Degree

Program Contact:

Graduate Program Coordinator: Taryn Sommers, SER 301D, (435) 797-2209, taryn.sommers@usu.edu

Schedule an appointment: https://studentappts.usu.edu/ramonline/BookAppt?AG=1404

Program Description

The Computer Science PhD is a graduate program with research faculty members whose expertise falls in the following areas: Artificial Intelligence, Computer Vision, Multi-Agent Systems, Data Science/Data Analysis/Data Mining, Database and Software Systems, Computer Security, Theoretical Computer Science, Visualization, Virtual Reality, and High Performance Computing. This degree is available to students with a computer science master's degree, a computer science undergraduate degree, or adequate prior computer science coursework. Students will pursue Plan A (dissertation) to achieve their degree.

This program is available in Logan at the main campus.

Computer Science PhD graduates demonstrate mastery of fundamental Computer Science theory and their ability to formulate a problem, analyze it, and develop an efficient and effective solution. Graduates will be successful in their careers, finding jobs, and progressing in their field. Graduates will have excellent oral as well as written communication skills. Graduates will demonstrate a contribution of new knowledge via a thesis or report and through original research culminating in publication.

Admission Requirements for this Program

Admission requirements can be found on the USU School of Graduate Studies website (gradschool.usu.edu/admissions/policies). Students must also meet the minimum admission requirements for the Computer Science MS program listed below.

- C or better in CS 2420 Data Structures and Algorithms (or equivalent) at an ABET accredited University.
- Extensive experience in modern programming languages.
- Understanding of Calculus and Statistics
- 3.0 Cumulative GPA in your BS program
- Three satisfactory Letters of Recommendation from past instructors and/or employers.
- **To be accepted into the program you must find a faculty member to be your mentor.**

Additional Information

Transcripts:

- An unofficial transcript from your university is acceptable for your application. If accepted into the program, you will have to request an official transcript be sent to the School of Graduate Studies from your university. This transcript should include your completed program(s) and the date the degree(s) was awarded.

International Students:

- A TOEFL score of 79 or an IELTS score of 6.5 overall is required.
- Applicants who have completed two years of college in one of the countries listed here, will not be required to provide additional evidence of English language proficiency via the TOEFL or IELTS. Please email GPC, Taryn Sommers taryn.sommers@usu.edu to waive this requirement after you have paid the application fee.

Funding:

- Funding, in the form of a Graduate Teaching Assistantship (GTA), is available for our top applicants contingent on department funding.
- Graduate Research Assistantships (GRAs) are sometimes available. They come directly from individual faculty members who need students for research. Contact the faculty via email.

Additional information about the Computer Science MS program may be obtained by visiting the program website at https://engineering.usu.edu/cs/students/graduate/.

Program Requirements

Total Credits Required In Program Coursework
40-70

Total Credits Required To Earn This Credential
40-70

Simple Requisites

Program Requirements

- **Degree Verification**: A bachelor's degree from an accredited U.S. college or university or a similarly recognized international university is required for admission to and completion of a graduate program. An official transcript must be sent directly to the School of Graduate Studies.
- **Overall Graduate GPA at least 3.0 and grades of B- or better (in all degree-program coursework) are required:** Graduate students are required to maintain at least a 3.0 GPA for degree-program courses. Grades of C- or lower will not be accepted for a graduate degree according to the School of Graduate Studies. Only grades of B- or better are accepted for the Computer Science PhD degree.
- **Course Number Acceptability:** The program of study for a PhD degree cannot include more than 12 semester credits of courses below the 6000-level and must include at least 12 credits of 6000-level courses for the PhD with an MS Plan or 21 credits of 6000-level courses for the PhD with a Bachelor's plan.
- **A PhD degree must be completed within eight years of entering the degree program.** Additional time may be requested by the student's advisor and submitted to the Vice Provost of Graduate Studies for review.
- **Coursework Validity:** Coursework over eight years old at the time of degree completion may not be used for a graduate degree unless it is revalidated.
- **Course Plan and Credits:** PhD students with an MS degree are required to take 40 credits. PhD students with a BS degree are required to take 70 credits.
- **CS5050/CS6050:** All CS graduate students are required to take CS5050/CS6050 or have taken a course equivalent of CS5050 with a grade of B- or above from an ABET-accredited university.
- **Required courses:** Students must take one class in each of the following course areas: Foundations, Data Analytics, or Applications/Systems. Students who already have an MS degree may request a waiver for one or more of the required Foundations, Data Analytics, or Applications/Systems courses.

- **PhD forms:** Approval of the following PhD forms is required by the School of Graduate Studies.

Plan A Dissertation:

- Supervisory Committee Form
- Program of Study
- Application of Candidacy
- Appointment for Exam
- Authorship & Copyright
- Format and Style
- Title Page
- Graduation Application
- Record of Exam

Computer Science PhD with an MS (40 credits)

Type
Completion Requirement

Required Courses (21 credits)

Complete ALL of the following Courses:

- CS5050 - Advanced Algorithms - 3cr.
  OR CS6050 - Advanced Algorithms - 3cr.
- CS6970 - Thesis and Research - 1cr.

NOTE:

- 18 credits of CS 7970- Typically taken after the first year. Only 6 credits of 7970 are allowed before passing the qualifying exam.

Foundations (3-4 credits)

Complete at least 1 of the following courses:

- CS5000 - Theory of Computability - 3cr.
- CS5050 - Advanced Algorithms - 3cr.
- CS5300 - Compiler Construction - 4cr.
- CECS5700 - Continuing Education Unit: Special Topics in Computer Science - 0.05cr.
- CS5800 - Introduction to Database Systems - 3cr.
- CS6030 - High Performance Computing - 4cr.
- CS6215 - Computer Networks and Security - 3cr.
- CS6615 - Natural Language Processing - 3cr.
- CS6800 - Advanced Database Systems - 3cr.
- CS6890 - Topics in Computer Science (Topic) - 1cr.

Data Analytics (3-4 credits)

Complete at least 1 of the following courses:

- CS5080 - Data Mining - 3cr.
- CS6040 - Scientific Visualization for Data Science - 3cr.
- CS6640 - Artificial Neural Networks - 3cr.
- CS6665 - Machine Learning for Data Science - 3cr.
- CS6675 - Advanced Data Mining - 3cr.
- CS6820 - Interactive Information Visualization for Data Science - 3cr.
- CS6830 - Data Science in Practice - 3cr.
- CS6840 - Graph Mining - 3cr.
- CS6850 - Introduction to Data Analysis - 3cr.
- CS6890 - Topics in Computer Science (Topic) - 1cr.

Applications/Systems (3-4 credits)

Complete at least 1 of the following courses:

- CS5410 - Game Development - 4cr.
- CS6110 - MultiAgent Systems - 4cr.
- CS6140 - Human Factors in Computing - 3cr.
- CS6270 - Introduction to Cloud Development - 3cr.
- CS6330 - Data-Driven Programming Language Processing - 3cr.
- CS6460 - Usable Privacy and Security - 3cr.
- CS6470 - Introduction to Interactive Virtual Reality - 3cr.
- CS6600 - Intelligent Systems - 4cr.
- CS6620 - AI Applications In Education - 3cr.
- CS6630 - Fuzzy Logic and its Application - 3cr.
- CS6680 - Computer Vision: Foundations and Applications - 3cr.
- CS6710 - Software Security - 3cr.
- CS6715 - Program Analysis and Its Application - 3cr.
- CS6750 - Computing Education Research - 3cr.
- CS6890 - Topics in Computer Science (Topic) - 1cr.

Program of Study Courses (21 credits)

Complete the following:

- At least 12 credits of CS 6000-level courses or above are required for graduation, excluding CS6250 and CS7970.
- The remaining credits required by the degree may be fulfilled by taking additional credits of graduate coursework at the 5000-level or above, or additional credits of CS7970.

NOTES:

- Up to 9 credits of 5000-level courses are allowed.
- Up to 3 credits of CS6250 are allowed.
- A maximum of one course is allowed from the following list: CS5950 , CS6950, or CS7950.
- CS6970, CS6990, and CS7990 are not allowed.
- A maximum of 9 credits are allowed from outside the School of Computing. Outside credits must be from ECE, MATH, STAT, or any other course approved by a student's major professor.

Research Requirements

Complete ALL of the following:

- Form a supervisory committee.
- Pass a practice defense qualifying exam demonstrating depth of knowledge in the student's area(s) of emphasis.
- Successfully complete and defend a research proposal.
- Publish research in peer-reviewed venues approved by the major professor.
- Prepare a dissertation.
- Successfully defend and submit the dissertation to the library.

Computer Science PhD with a BS (70 credits)

Type
Completion Requirement

Required Courses (21 credits)

Complete ALL of the following Courses:

- CS5050 - Advanced Algorithms - 3cr.
  OR CS6050 - Advanced Algorithms - 3cr.
- CS6970 - Thesis and Research - 1cr.

NOTE:

- 18 credits of CS7970 - Typically taken after the first year. Only 6 credits of 7970 are allowed before passing the qualifying exam.

Foundations (3-4 credits

Complete at least 1 of the following courses:

- CS5000 - Theory of Computability - 3cr.
- CS5050 - Advanced Algorithms - 3cr.
- CS5300 - Compiler Construction - 4cr.
- CS5700 - Object-Oriented Software Development - 4cr.
- CS5800 - Introduction to Database Systems - 3cr.
- CS6030 - High Performance Computing - 4cr.
- CS6215 - Computer Networks and Security - 3cr.
- CS6615 - Natural Language Processing - 3cr.
- CS6800 - Advanced Database Systems - 3cr.
- CS6890 - Topics in Computer Science (Topic) - 1cr.

Data Analytics (3-4 credits)

Complete at least 1 of the following courses:

- CS5080 - Data Mining - 3cr.
- CS6040 - Scientific Visualization for Data Science - 3cr.
- CS6640 - Artificial Neural Networks - 3cr.
- CS6665 - Machine Learning for Data Science - 3cr.
- CS6675 - Advanced Data Mining - 3cr.
- CS6820 - Interactive Information Visualization for Data Science - 3cr.
- CS6830 - Data Science in Practice - 3cr.
- CS6840 - Graph Mining - 3cr.
- CS6850 - Introduction to Data Analysis - 3cr.
- CS6890 - Topics in Computer Science (Topic) - 1cr.

Applications/Systems (3-4 credits)

Complete at least 1 of the following courses:

- CS5410 - Game Development - 4cr.
- CS6110 - MultiAgent Systems - 4cr.
- CS6140 - Human Factors in Computing - 3cr.
- CS6270 - Introduction to Cloud Development - 3cr.
- CS6330 - Data-Driven Programming Language Processing - 3cr.
- CS6460 - Usable Privacy and Security - 3cr.
- CS6470 - Introduction to Interactive Virtual Reality - 3cr.
- CS6600 - Intelligent Systems - 4cr.
- CS6620 - AI Applications In Education - 3cr.
- CS6630 - Fuzzy Logic and its Application - 3cr.
- CS6680 - Computer Vision: Foundations and Applications - 3cr.
- CS6710 - Software Security - 3cr.
- CS6715 - Program Analysis and Its Application - 3cr.
- CS6750 - Computing Education Research - 3cr.
- CS6890 - Topics in Computer Science (Topic) - 1cr.

Program of Study Courses (51 credits)

Complete the following:

- At least **21 credits** of CS 6000-level courses or above are required for graduation excluding CS6250 and CS7970.
- The remaining **30 credits** required by the degree may be fulfilled by taking additional credits of graduate coursework at the 5000-level or above, or additional credits of CS7970.

NOTES:

- Up to 12 credits of 5000-level courses are allowed.
- Up to 3 credits of CS6250 are allowed.
- A maximum of one course is allowed from the following list: CS5950 , CS6950, or CS7950.
- CS6970, CS6990, and CS7990 are not allowed.
- A maximum of 9 credits are allowed from outside the School of Computing. Outside credits must be from ECE, MATH, STAT, or any other course approved by a student's major professor.

Research Requirements

Complete ALL of the following:

- Form a supervisory committee.
- Pass a practice defense qualifying exam demonstrating depth of knowledge in the student's area(s) of emphasis.
- Successfully complete and defend a research proposal.
- Publish research in peer-reviewed venues approved by the major professor.
- Prepare a dissertation.
- Successfully defend and submit the dissertation to the library.

Program Learning Outcomes

Program Learning Outcomes

https://www.usu.edu/cs/assessment/undergraduate/index

Cosmetology - AAS

Program Overview

College
College of Agriculture & Natural Resources

Department
Technology, Design & Technical Ed

Program Level
Undergraduate

About this Degree

The Associate of Applied Science in Cosmetology degree is intended to build upon the state-aligned technical education curriculum and provide valuable training for cosmetologists throughout the state. The program leverages the 36-credit licensure to allow students to pursue additional professional development, business skills, or teaching licensure to ensure that their training will be most beneficial to them after graduation.

Admission Requirements for this Program

Students must have completed a Technical Certificate in Cosmetology or have a cosmetology license.

Program Requirements

Total Credits Required In Program Coursework
63

Total Credits Required To Earn This Credential
63

Simple Requisites

Program Requirements

Cosmetology - AAS Course Requirements

Type
Completion Requirement

General Education Requirements

Complete ALL of the following Course Sets:

- Communications Literacy (CL1) Course
- Quantitative Literacy (QL) Course
- Breadth Humanities (BHU) Course
  OR Breadth American Institutions (BAI) Course
  OR Breadth Life Sciences (BLS) Course
  OR Breadth Creative Arts (BCA) Course
  OR Breadth Social Sciences (BSS) Course
  OR Breadth Physical Sciences (BPS) Course

BUSN1010 BUSINESS PRINCIPLES (BSS) is recommended and will fulfill the Breadth Social Science requirement.

Core Requirement Elective Courses

Students may also take general education courses. Business courses are recommended, see advisor for details.

Earn at least 18 credits from the following:

- COST2600 - Eyelash Technology - 3cr.
- COST2610 - Spray Tanning - 1cr.
- COST2620 - Body Waxing - 1cr.
- COST2700 - Student Instructor - 1cr.
- COST2800 - Nail Technician - 9cr.
  OR TENT1110 - Nail Technician I - 4cr.
- COST2977 - Internship Experience - 3cr.
- COST2988 - Special Problems - 1cr.

Cosmetology Technical Certificate or Active Cosmetology Licensure (36 credits)

If student has a cosmetology license, please see advisor for details.

Complete ALL of the following Courses:

- TECS1005 - Design Basics - 3cr.
- TECS1020 - Barbering Basics - 2cr.
- TECS1030 - Cosmetology and Hair Design Chemical Services Basics - 3cr.
- TECS1080 - Esthetics Basics - 2cr.
- TECS1090 - Nails Basics - 2cr.
- TECS2900 - Cosmetology/Barbering Clinical I - 3cr.
- TECS1050 - Cosmetology and Barbering Intermediate Theory and Practice - 3cr.
- TECS1060 - Professional Development and Industry, State Laws, and Specific Continuing Education - 3cr.
- TECS2320 - Progressive Training and Skills III - 3cr.
- TECS2310 - Progressive Training and Skills II - 3cr.
- TECS2910 - Cosmetology/Barbering Clinical II - 3cr.
- TECS2920 - Cosmetology/Barbering Clinical III - 3cr.
- TECS2930 - Cosmetology/Barbering Clinical IV - 3cr.

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Associate Degrees)

Program Learning Outcomes

Program Learning Outcomes

- Demonstrate principles and cosmetology/barbering skills: shampooing, arranging, dressing, curling, styling, men and women haircutting, straight razor shaving, hair extensions, chemical texture services, haircoloring, skin care, nail services, and other concepts essential to becoming a successful cosmetologist/barber.
- Demonstrate principles and practices related to nail technology skills, manicuring, pedicuring, gel, and acrylic application, manual and electric filing, polishing, nail removal, client consultation and other concepts essential to becoming a successful nail technician.
- Demonstrate principles and practices related to esthetics and facial treatments.
- Explain general sciences related to cosmetology/barbering such as anatomy, infection control, hair structure, skin and nail structure, diseases and disorders, chemistry and electricity.
- Demonstrate salon processes and etiquette with sanitation procedures necessary for the health and safety of clients and workers.
- Perform cosmetology/barbering services on mannequins and public guests.
- Communicate effectively

Cosmetology - Technical Certificate

Program Overview

College
College of Agriculture & Natural Resources

Department
Technology, Design & Technical Ed

Program Level
Undergraduate

About this Degree

The Cosmetology Program is designed to prepare students for employment in cosmetology, barbering, and hair design, as well as skin and nail care. This program prepares students for employment in a salon and/or to open a new salon or barbering business. Students in this program develop communication, professional behavior, and other core skills for working in this profession. Students work with guests in a well-equipped lab and perform these skills with the newest techniques, products, and equipment available in the industry. Students learn to communicate with customers, analyze skin, hair, and nails, and perform the duties of hair cutting, coloring, styling, chemical texture services, basic skin and nail care, and hair extension procedures.

Upon completion of the program, students are prepared to take the National Interstate Council of State Boards of Cosmetology/Barbering Licensure, and examination required for licensure.

***Additional application required, check with advisor for details and deadlines.**

Admission Requirements for this Program

Additional application required, see advisor for details.

Program Requirements

Total Credits Required In Program Coursework
44

Total Credits Required To Earn This Credential
44

Simple Requisites

Program Requirements

Section 1

Type
Completion Requirement

First Fall Semester (11 credits)

Complete ALL of the following Courses:

- TECS1010 - Cosmetology, Barbering, and Hair Design Basics - 4cr.
- TECS1020 - Barbering Basics - 2cr.
- TECS1030 - Cosmetology and Hair Design Chemical Services Basics - 3cr.
- TECS1040 - Esthetics and Nail Basics - 2cr.

First Spring Semester (12 credits)

Complete ALL of the following Courses:

- TECS1050 - Cosmetology and Barbering Intermediate Theory and Practice - 3cr.
- TECS2320 - Progressive Training and Skills III - 3cr.
- TECS2900 - Cosmetology/Barbering Clinical I - 3cr.
- TECS2910 - Cosmetology/Barbering Clinical II - 3cr.

Section 2

Type
Completion Requirement

Second Fall Semester (12 credits)

Complete ALL of the following Courses:

- TECS1060 - Professional Development and Industry, State Laws, and Specific Continuing Education - 3cr.
- TECS1070 - Advanced Training and Skills - 3cr.
- TECS2310 - Progressive Training and Skills II - 3cr.
- TECS2920 - Cosmetology/Barbering Clinical III - 3cr.

Second Spring Semester (9 credits)

Complete ALL of the following Courses:

- TECS2930 - Cosmetology/Barbering Clinical IV - 3cr.
- TECS2941 - Cosmetology and Barbering Salon Clinical V - 3cr.
- TECS2952 - Cosmetology/Barbering Salon Clinical VI - 3cr.

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Undergraduate Academic or Technical Certificates)

Program Learning Outcomes

Program Learning Outcomes

- Demonstrate principles and cosmetology/barbering skills: shampooing, arranging, dressing, curling, styling, men and women haircutting, straight razor shaving, hair extensions, chemical texture services, hair coloring, skin care, nail services, and other concepts essential to becoming a successful cosmetologist/barber.
- Demonstrate principles and practices related to nail technology skills, manicuring, pedicuring, gel, and acrylic application, manual and electric filing, polishing, nail removal, client consultation and other concepts essential to becoming a successful nail technician.
- Demonstrate principles and practices related to esthetics and facial treatments.
- Explain general sciences related to cosmetology/barbering such as anatomy, infection control, hair structure, skin and nail structure, diseases and disorders, chemistry and electricity.
- Demonstrate salon processes and etiquette with sanitation procedures necessary for the health and safety of clients and workers.
- Perform cosmetology/barbering services on mannequins and public guests.
- Communicate effectively

Consumer Psychology - Minor

Program Overview

College
Jon M. Huntsman School of Business

Department
Marketing and Strategy

Program Level
Undergraduate

About this Degree

The Consumer Psychology minor provides students with the necessary knowledge, skills, and tools to better connect business marketing strategies and decisions with different consumer groups' motivations, feelings, perceptions, decision-making processes, and purchasing/loyalty behaviors.

Program Requirements

Total Credits Required In Program Coursework
14

Total Credits Required To Earn This Credential
14

Simple Requisites

Program Requirements

A Consumer Psychology minor is available to all majors at the university. Students are responsible for completing prerequisite courses where applicable. A minimum, average 2.5 GPA must be obtained in minor coursework for the minor to be awarded at graduation. Courses for the minor *may not* be taken on a pass/fail basis. At least nine (9) of the credits for the minor must be completed through USU.

Required Courses

Type
Completion Requirement

Required Courses

Complete ALL of the following Courses:

- MSLE3620 - Marketing Research and Analytics - 2cr.
- MSLE4510 - Consumer Behavior - 2cr.
- PSY3510 - Social Psychology (DSS) - 3cr.
- PSY4420 - Cognitive Psychology (DSS) - 4cr.

Required

Complete at least 1 of the following courses:

- MSLE4050 - International Marketing - 3cr.
- MSLE4555 - Pricing & B2B Buyer-Seller Decisions - 2cr.

Psychology Core

Type
Completion Requirement

Course Options

Complete at least 1 of the following courses:

- PSY1400 - Analysis of Behavior: Basic Principles - 3cr.
- PSY1410 - Analysis of Behavior: Basic Principles Lab - 1cr.
- PSY3400 - Analysis of Behavior: Advanced (DSS) - 4cr.
- PSY3500 - Research Methods in Psychology (DSS/CI) - 3cr.
- PSY4950 - Undergraduate Apprenticeship (CI) - 3cr.

MSLE Core

Type
Completion Requirement

Course Options

Complete at least 1 of the following courses:

- MSLE4050 - International Marketing - 3cr.
- MSLE4555 - Pricing & B2B Buyer-Seller Decisions - 2cr.
- MSLE4580 - Artificial Intelligence in Marketing Experimental Design - 2cr.

Program Learning Outcomes

Program Learning Outcomes

https://huntsman.usu.edu/assessment/assessment-plan

Crop Biotechnology - Minor

Program Overview

College
College of Agriculture & Natural Resources

Department
Plants, Soils and Climate

Program Level
Undergraduate

Program Requirements

Total Credits Required In Program Coursework
12-13

Total Credits Required To Earn This Credential
12-13

Simple Requisites

Program Requirements

To graduate with the Crop Biotechnology minor, a minimum GPA of 2.5 is required in minor coursework.

Required Courses

Type
Completion Requirement

The following courses are required:

Complete ALL of the following Courses:

- PSC3700 - Plant Propagation - 4cr.
- PSC3600 - An Introduction to Plant Breeding and Heredity - 3cr.

Course Options

Type
Completion Requirement

Select the balance of credits from the following courses.

Fulfill ALL of the following requirements:

Production Courses

at least one production course is required

Complete at least 1 of the following courses:

- PSC4280 - Field and Food Cropping Systems - 3cr.
- PSC4320 - Forage Production and Pasture Management - 3cr.
- PSC4400 - Modern Vegetable Production - 3cr.
- PSC5222 - Temperate Zone Fruit Production - 3cr.

AND

Additional Course Options

Complete ANY of the following Courses:

- PSC3500 - Structure and Function of Plants - 3cr.
- PSC5201 - Hydroponics - 3cr.
- PSC5270 - Environmental Plant Physiology - 2cr.
- PSC5333 - Plant-Microbe Interactions - 3cr.
- PSC5550 - Fundamentals of Integrated Weed Management - 4cr.
- PSC5720 - Advanced Plant Breeding - 3cr.

Program Learning Outcomes

Program Learning Outcomes

https://caas.usu.edu/psc/assessment

Conservation and Restoration Ecology - BS

Program Overview

College
College of Agriculture & Natural Resources

Department
Wildland Resources

Program Level
Undergraduate

About this Degree

Conservation and restoration ecology involves conserving, maintaining, and recovering ecological systems and enriching the lives of their inhabitants. The conservation and restoration ecology major teaches students to use ecological principles to maintain healthy ecosystems and to restore terrestrial systems, such as forests, rangelands, wildlands, and grasslands that have been damaged or eliminated through overuse, neglect, or disaster.

- For more information about Conservation and Restoration Ecology, see the website.
- Admitted and current students must meet with an academic advisor for help with semester by semester planning, connections to co-curriculum experiences, understanding of USU policies, and accessing USU resources.
- Log on to Degree Works to check student-specific program progress.
- The highest math requirement for this degree is STAT2000 STATISTICAL METHODS (QI) **or** STAT3000 STATISTICS FOR SCIENTISTS (QI)

Admission Requirements for this Program

- New freshmen: Admitted to USU in Good Standing
- Transfer students from other institutions or other programs at USU: 2.5 GPA

Program Requirements

Total Credits Required In Program Coursework
101

Total Credits Required To Earn This Credential
120

Simple Requisites

Program Requirements

All courses required for the major must be taken on an A-B-C-D-F basis. A grade of C- or better is required for all courses taken in the major department, as well as STAT2000 STATISTICAL METHODS (QI) or STAT3000 STATISTICS FOR SCIENTISTS (QI) The grade point average for all courses taught by the Quinney College of Natural Resources must be 2.5 or higher.

Conservation and Restoration Ecology Required Courses

Type
Completion Requirement

CI1/CL2 Requirements (6 credits)

Complete ALL of the following Courses:

- ENGL1010 - Writing as Inquiry (CL1) - 3cr.
- ENGL2010 - Research and Argument Across Perspectives (CL2) - 3cr.

Scientific Foundation (25-27 credits)

Complete ALL of the following Courses:

- BIOL1610 - Biology I - 3cr.
- BIOL1615 - Biology I Laboratory - 1cr.
- BIOL1620 - Biology II (BLS) - 3cr.
- BIOL1625 - Biology II Laboratory - 1cr.
- MATH1050 - College Algebra (QL) - 4cr.
- MATH1100 - Calculus Techniques (QL) - 3cr.
  OR MATH1170 - Modeling Change: Calculus in Life and Society - 4cr.
- PSC3000 - Fundamentals of Soil Science - 4cr.
- STAT2000 - Statistical Methods (QI) - 4cr.
  OR STAT3000 - Statistics for Scientists (QI) - 3cr.
- WATS2220 - General Ecology - 3cr.

Scientific Foundation continued

Select one chemistry track to fulfill this requirement

Fulfill ANY of the following requirements:

Option 1

Complete ALL of the following Courses:

- CHEM1110 - General Chemistry I (BPS) - 4cr.
- CHEM1120 - General Chemistry II (BPS) - 4cr.
- CHEM1125 - General Chemistry II Laboratory - 1cr.

OR

Option 2

Complete ALL of the following Courses:

- CHEM1210 - Principles of Chemistry I - 4cr.
- CHEM1215 - Chemical Principles Laboratory I - 1cr.
- CHEM1220 - Principles of Chemistry II (BPS) - 4cr.

Departmental Common Courses (25 credits)

Complete ALL of the following Courses:

- WILD2800 - Introduction to Geographic Information Sciences - 4cr.
  OR GEOG2800 - Introduction to Geographic Information Sciences - 4cr.
- WILD2000 - Natural Resource Professional Orientation - 1cr.
  OR ENVS2000 - Natural Resource Professional Orientation - 1cr.
  OR WATS2000 - Natural Resource Professional Orientation - 1cr.
- WILD2400 - Wildland Resource Techniques - 3cr.
- WILD3600 - Advanced Plant Identification and Terminology - 3cr.
  OR WILD3820 - Forest Plants: Identification, Biology, and Function - 3cr.
  OR WILD3830 - Range Plant Taxonomy and Function - 3cr.
- WILD3810 - Wildlife Population Ecology - 3cr.
- WILD3800 - Wildland Plants and Ecosystems - 4cr.
- WILD3850 - Vegetation and Habitat Management - 3cr.
- WILD4750 - Monitoring and Assessment in Natural Resource and Environmental Management - 4cr.

Degree Program Courses (15 credits)

Complete ALL of the following Courses:

- APEC3012 - Introduction to Natural Resource Economics (DSS) - 3cr.
- ENVS3010 - Natural Resource and Environmental Policy - 3cr.
- ENVS4000 - Human Dimensions of Natural Resource

Management (DSS) - 3cr.
- WILD4600 - Conservation Biology - 3cr.
- WILD4700 - Ecological Foundations of Restoration - 3cr.

Required Program Electives: 21 credits

Complete the following:
Students should work with the faculty and their academic advisor for course selection and approval.

Open Electives

Complete the following as needed:
Total elective credit is determined by General Education courses taken, degree type selected, additional credits earned, and any additional math or other prerequisite courses needed. Please consult your Academic Advisor for details.

Minimum University Requirements

Minimum University Requirements
Minimum University Requirements (Bachelor's Degree)

Suggested Degree Maps

Degree Map Name
Suggested Degree Map - Conservation and Restoration Ecology BS
Total Degree Map Credits
112 - 145
Degree Map Effective Catalog Year
2027 -

Degree Map Narrative
- Following is a sample four-year plan. Please note that student-specific plans may differ.
- Meet with an academic advisor to create a specific plan that best fits your academic needs.
- The student is ultimately responsible for knowing and completing all degree requirements.
- Make sure you meet the registration requirements for each class by clicking the course link and checking any prerequisites or corequisites.
- Consultation with an advisor may result in an altered plan customized for an individual student.
- Check your Degree Works for requirements and completion.

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	14 - 15	0

Requirement Select
- BIOL1610 - Biology I
- **AND** BIOL1615 - Biology I Laboratory

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- WILD2000 - Natural Resource Professional Orientation
  OR
- ENVS2000 - Natural Resource Professional Orientation
  OR
- WATS2000 - Natural Resource Professional Orientation

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- ENGL1010 - Writing as Inquiry (CL1)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Breadth Social Sciences (BSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Breadth American Institutions (BAI) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	17	0

Requirement Select

- BIOL1620 - Biology II (BLS)
- **AND** BIOL1625 - Biology II Laboratory

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- MATH1050 - College Algebra (QL)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- WATS2220 - General Ecology

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Breadth Humanities (BHU) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Elective (2 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	16	0

Requirement Select

- APEC3012 - Introduction to Natural Resource Economics (DSS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- ENGL2010 - Research and Argument Across Perspectives (CL2)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- MATH1100 - Calculus Techniques (QL)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- WILD2400 - Wildland Resource Techniques

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- CHEM1110 - General Chemistry I (BPS)
  OR
- CHEM1210 - Principles of Chemistry I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	16	0

Requirement Select

- CHEM1120 - General Chemistry II (BPS)
  OR
- CHEM1220 - Principles of Chemistry II (BPS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- CHEM1125 - General Chemistry II Laboratory
  OR
- CHEM1215 - Chemical Principles Laboratory I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- STAT2000 - Statistical Methods (QI)
  OR
- STAT3000 - Statistics for Scientists (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	3 - 4
Clinical	-
Criticality	No

Requirement Select

- WILD2800 - Introduction to Geographic Information Sciences
  OR
- GEOG2800 - Introduction to Geographic Information Sciences

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- Breadth Creative Arts (BCA) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits

Year	Fall	15	0

Requirement Select
- PSC3000 - Fundamentals of Soil Science

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- WILD3800 - Wildland Plants and Ecosystems

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- WILD3820 - Forest Plants: Identification, Biology, and Function

  OR
- WILD3830 - Range Plant Taxonomy and Function

  OR
- WILD3600 - Advanced Plant Identification and Terminology

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- WILD4750 - Monitoring and Assessment in Natural Resource and Environmental Management

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Spring	7 - 24	0

Requirement Select
- WILD3850 - Vegetation and Habitat Management

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- WILD4600 - Conservation Biology

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Depth Humanities and Creative Arts (DHA) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1 - 3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Communications Intensive (CI) Courses

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	0 - 15
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Fall	12 - 27	0

Requirement Select
- ENVS3010 - Natural Resource and Environmental Policy

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- ENVS4000 - Human Dimensions of Natural Resource Management (DSS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Communications Intensive (CI) Courses

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	0 - 15
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Electives (6 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- WILD4100 is recommended to fulfill the CI requirement (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Spring	15	0

Requirement Select
- WILD4700 - Ecological Foundations of Restoration

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Electives (12 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	12
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Program Learning Outcomes

Program Learning Outcomes
https://www.usu.edu/oda/assessment/

Cultural Resource Management Policy, Advocacy and Business Administration - Post-Bachelor's Certificate

Program Overview

College
College of Arts & Sciences

Department
School of Social Sciences

Program Level
Graduate

About this Degree

The Post-Bachelor's Certificate in Cultural Resource Management (CRM) Policy, Advocacy, and Administration is designed to prepare both fully matriculated graduate students as well as current professionals in the field wishing to enhance their portfolios to understand and implement CRM policy and business skills within the context of cultural resource management activities. The certificate combines graduate level anthropology courses with courses offered in the School of Business. This certificate may be earned as a stand-alone certification or as part of the USU Anthropology Graduate Program.

Students who complete the program will receive a certificate in Cultural Resource Management Policy, Advocacy, and Administration. Their USU transcript will list the courses and grades received to complete the program.

Graduate Program Directors: Dr. Judson Finley and Dr. Jacob Freeman

Admission Requirements for this Program

To apply for admittance to the program, a person must complete and submit an application to the School of Graduate Studies. Academic credits obtained from the program may be applied toward a graduate degree.

To apply, the School of Graduate Studies requires:

1. A bachelor's degree that is or will be completed before the student matriculates in the degree program.
2. A 3.0 or higher grade-point average for terms that include the student's last 60 semester credits or 90 quarter credits.
3. Resume/CV
4. International applicants are required to submit proof of proficiency in English.

For additional information on admissions and application procedure, please see:

https://gradschool.usu.edu/admissions/

Program Requirements

Total Credits Required In Program Coursework
18

Total Credits Required To Earn This Credential
18

Simple Requisites

Program Requirements

Students must complete six core courses (3 credits each) in order to fulfill the requirements for the Cultural Resource Management Policy, Advocacy, and Administration - Post-Bachelor's Certificate.

A minimum 3.0 GPA for program courses must be maintained. Course grades less than a B (B- and below) do not count toward the certificate.

Cultural Resource Management Policy, Advocacy and Business Administration - Post-Bachelor's Certificate

Type
Completion Requirement

Core Courses (18 credits)

Students have the option to customize their certificate curriculum with the permission of the Graduate Program Director(s). Courses not included in the list below must be authorized by the Graduate Program Director(s).

Complete ALL of the following Courses:

- ACCT6350 - Accounting for Management Decision Making - 3cr.
- ANTH6390 - Cultural Resources Management Policy - 3cr.
- ANTH6400 - Collections Management - 1cr.
- ANTH6410 - Writing for Archaeologists - 3cr.
- ANTH6460 - Engaging Communities in Archaeology - 3cr.
- MSLE6410 - Enterprise and Value Creation - 3cr.

Program Learning Outcomes

Program Learning Outcomes

https://chass.usu.edu/assessments/

Computer Science Cloud Computing - Institutional Certificate of Proficiency

Program Overview

College
College of Engineering

Department
School of Computing

Program Level
Undergraduate

About this Degree

The USU School of Computing provides a variety of learning opportunities to earn certificate specializations through USU's online program. All the courses needed to earn these certificates are available online, meaning students can live anywhere and work on these certificates.

Among the certificates there is some overlap with the course requirements. Students who wish to pursue multiple certificates will benefit greatly from that overlap. For example, a student who completes the Software Development certificate only needs to complete two more classes (6 credits) for the Web & Mobile Developer certificate. The Cloud Computing certificate only requires one class (3 credits) on top of the Software Development certificate. The Computer Science Teaching - Level II certificate only requires two classes (6 credits) on top of the Computer Science Teaching - Level I certificate.

The Cloud Computing certificate introduces students to the tools, techniques, and skills necessary to build cloud computing applications. These are applications that utilize cloud computing resources such as Amazon Web Services (AWS) or Microsoft Azure. Students earning this certification are prepared to design and implement reliable, durable, scalable, and high-availability software applications. Students come away with the following skills and outcomes:

- All those listed for the Computer Science Software Development certificate.
- Learn about the different types of cloud services for computation, information storage and retrieval, communications, security, software development, and more.
- Develop skills with at least one suite of services in sufficient detail to know how to apply those services to create real solutions for real problems.

Program Requirements

Total Credits Required In Program Coursework
13

Total Credits Required To Earn This Credential
13

Simple Requisites

Program Requirements

13 credits

Computer Science Cloud Computing - ICP

Type
Completion Requirement

Required Courses (13 credits)

Complete ALL of the following Courses:

- CS1400 - Introduction to Computer Science--CS 1 - 4cr.
- CS1410 - Introduction to Computer Science--CS 2 (QI) - 3cr.
- CS2420 - Algorithms and Data Structures--CS 3 (QI) - 3cr.
- CS5270 - Introduction to Cloud Development - 3cr.

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Undergraduate Academic or Technical Certificates)

Program Learning Outcomes

Program Learning Outcomes

https://www.usu.edu/cs/assessment/undergraduate/index

Climate Science - MS

Program Overview

College
College of Agriculture & Natural Resources

Department
Plants, Soils and Climate

Program Level
Graduate

About this Degree

Climate Science is the study of the atmosphere, land, water cycle and how they interact and change. USU is the only university in the region that offers a degree in Climate Science. This degree offers specializations in climate dynamics, hydroclimate modeling, micro-meteorology, and turbulence in plant canopies.

The Climate Adaptation Science Specialization is offered as an interdepartmental program.

Graduate Program Director: Dr. Jeanette Norton

E-mail: jeanette.norton@usu.edu

Admission Requirements for this Program

Prior to applying, the potential applicant must have a qualified PSC faculty member agree to accept them into their laboratory and be their major (supervisory) professor. Contact Dr. Jeanette Norton with questions.

General Requirements

All prospective graduate students must apply through the School of Graduate Studies. Refer to the School of Graduate Studies website for admission requirements. Please note that all applicants must meet the following general admission requirements:

- A bachelor's degree from an accredited college
- A 3.0 GPA as calculated by the School of Graduate Studies. An official transcript must be sent directly to the School of Graduate Studies from each college or university previously attended (except USU).
- Student recommendation request forms (included in application materials) should be used to request three people to submit letters of recommendation directly to the graduate school. Two letters of recommendation should be from faculty from whom you have taken course work.
- International Students: Please visit the School of Graduate Studies website for requirements.

Program Requirements

Total Credits Required In Program Coursework
30

Total Credits Required To Earn This Credential
30

Simple Requisites

Program Requirements

Degree Verification

A bachelor's degree from an accredited U.S. college or university or a similarly recognized international university is required for admission to and completion of a graduate program.

Overall Graduate GPA at least 3.0 and no grades of C- or lower; Graduate students are required to maintain at least a 3.0 GPA for degree-program courses. Grades of C- or lower will not be accepted for a graduate degree.

Course Number Acceptability

The Program of Study for a master's degree must include at least 15 semester credits at the level of 6000 or above.

Credits in the following areas are not acceptable in a degree program: foreign languages, continuing graduate advisement, individual home study, military science, and courses numbered below 5000.

Matriculation Start Semester
A master's degree must be completed within six years of entering the degree program. Additional time may be requested by the student's committee and submitted to the Vice Provost of Graduate Studies for review.

Coursework Validity
Coursework over eight years old at the time of degree completion may not be used for a graduate degree unless it is revalidated.

Thesis Research Credits 6970

Master's Plan A students: The Plan A option requires the preparation and defense of a thesis. Students are required to complete a minimum of 6 semester credits of thesis research (PSC6970 RESEARCH AND THESIS) that will be applied toward a Program of Study.

Master's Plan B students:
A Plan B option requires the production and defense of a paper or project. Students are required to complete a minimum of 2 credits of thesis research (PSC6970 RESEARCH AND THESIS) with a maximum of 3 thesis research credits applied toward a Program of Study.

Professional/Plan C students cannot use any thesis/dissertation credits.

Master's Forms

Master's forms: Approval of the following academic forms is required for master's students by the School of Graduate Studies (SGS):

- Supervisory Committee
- Program of Study
- Thesis/Project Approval
- Appointment for Examination
- Record of Examination
- SGS and library review and approval (Plan A)
- Library review and approval (Plan B)

Degree Requirements

Minimum Total Credits

The minimum requirement for a master's degree is 30 semester credits.

Course requirements leading to MS degrees are developed jointly by the student and the student's supervisory committee. Each student must have a Program of Study approved by their supervisory committee.

The following are required:

- 15 credits minimum of committee-approved 6000-7000 level courses
    - including 2 credits of Plants, Soils and Climate Graduate seminar (PSC6890 PSC GRADUATE SEMINAR)

(5000 level courses are considered upper-division and up to 12 credits may be used in a graduate program if approved by the supervisory committee)

- 2-15 credits of Thesis Research credits (PSC6970 RESEARCH AND THESIS) depending on plan type.
    - Plan A - minimum of 6 credits, maximum of 15 credits
    - Plan B - minimum of 2 credits, maximum of 3 credits

Course selections reflect areas of specialization. Designation of a specialization is optional. Official specializations will appear on transcript. There are additional specific departmental requirements regarding physical sciences, biological sciences, and mathematics courses, which differ depending on the program and area of specialization.

All MS students write a Plan A thesis or create a Plan B project under the guidance of their advisor and supervisory committee. The master's thesis must be successfully defended before the supervisory committee and submitted to the library.

Required Courses

Type
Completion Requirement

Graduate Seminar

Earn at least 2 credits from the following:

- PSC6890 - Plants, Soils, and Climate Graduate Seminar - 1cr.

Thesis Research Credits (Plan A)

Earn at least 6 credits from the following:

- PSC6970 - Research and Thesis - 1cr.

Thesis Research Credits (Plan B)

Earn at least 2 credits from the following:

- PSC6970 - Research and Thesis - 1cr.

Program Learning Outcomes

Program Learning Outcomes
https://caas.usu.edu/psc/assessment

Climate Science - PhD

Program Overview

College
College of Agriculture & Natural Resources

Department
Plants, Soils and Climate

Program Level
Graduate

About this Degree
Climate Science is the study of the atmosphere, land, water cycle and how they interact and change. USU is the only university in the region that offers a degree in Climate Science. This degree offers specializations in climate dynamics, hydroclimate modeling, micro-meteorology, and turbulence in plant canopies.

The Climate Adaptation Science Specialization is offered as an interdepartmental program.

Graduate Program Director: Dr. Jeanette Norton

E-mail: jeanette.norton@usu.edu

Admission Requirements for this Program
Prior to applying, the potential applicant must have a qualified PSC faculty member agree to accept them into their laboratory and be their major (supervisory) professor. Contact Dr. Jeanette Norton with questions.

General Requirements

All prospective graduate students must apply through the School of Graduate Studies. Refer to the School of Graduate Studies website for admission requirements. Please note that all applicants must meet the following general admission requirements:

- A bachelor's degree from an accredited college
- A 3.0 GPA as calculated by the School of Graduate Studies. An official transcript must be sent directly to the School of Graduate Studies from each college or university previously attended (except USU).
- Student recommendation request forms (included in application materials) should be used to request three people to submit letters of recommendation directly to the graduate school. Two letters of recommendation should be from faculty from whom you have taken course work.
- International Students: Please visit the School of Graduate Studies website for requirements.

Program Requirements

Total Credits Required In Program Coursework
30-60

Total Credits Required To Earn This Credential
30-60

Simple Requisites

Program Requirements

Degree Verification

A bachelor's degree from an accredited U.S. college or university or a similarly recognized international university is required for admission to and completion of a graduate program.

Overall Graduate GPA at least 3.0 and no grades of C- or lower; Graduate students are required to maintain at least a 3.0 GPA for degree-program courses. Grades of C- or lower will not be accepted for a graduate degree.

Course Number Acceptability
The Program of Study for a doctoral degree, if the student has a master's degree, must include at least 15 semester credits at the level of 6000 or above. If the student does not have a master's degree, the Program of Study must include at least 30 credits at the level of 6000 or above.

Credits in the following areas are not acceptable in a degree program: foreign languages, continuing graduate advisement, individual home study, military science, and courses numbered below 5000.

Matriculation Start Semester
A doctorate must be completed within eight years of entering the degree program. Additional time may be requested by the student's committee and submitted to the Vice Provost of Graduate Studies for review.

Coursework Validity
Coursework over eight years old at the time of degree completion may not be used for a graduate degree unless it is re-validated.

Thesis Research Credits 7970
A minimum of 12 dissertation credits (7970) is required if the student has a master's degree, and a minimum of 18 is required if the student has a bachelor's degree.

Doctoral Forms

Doctoral forms: Approval of the following academic forms required for doctoral students by the School of Graduate Studies (SGS):

- Supervisory Committee
- Program of Study
- Application for Candidacy (includes proposal)
- Appointment for Examination
- Record of Examination
- Authorship and Copyright
- Style and Format
- SGS and library review and approval

Qualifying Exams

- Each Ph.D. student must undergo some sort of qualifying experience. Depending on the student's particular research and their faculty committee, the exam can either be a traditional oral and written exam, a scholarly proposal, or another option best suited to the student's individual situation.

Degree Requirements

Minimum Total Credits

Doctoral degrees generally require 30 academic credits beyond a master's degree or 60 academic credits beyond a bachelor's degree. The credit amounts are determined by the approved Program of Study.

Course requirements leading to Ph.D. degrees are developed jointly by the student and the student's supervisory committee. Each student must have a Program of Study approved by their supervisory committee.

The following are required:

- Ph.D. (post-master's):
    - 15 credits minimum of committee-approved 6000-7000 level courses
        - including 2 credits of Plants, Soils and Climate Graduate seminar (PSC7890 PSC GRADUATE SEMINAR)
- Ph.D. (post-baccalaureate):
    - 30 credits minimum of committee-approved 6000-7000 level courses
        - including 2 credits of Plants, Soils and Climate Graduate seminar (PSC7890 PSC GRADUATE SEMINAR)

(5000 level courses are considered upper-division and up to 12 credits may be used in a graduate program if approved by the supervisory committee)

- Thesis Research credits (PSC7970 RESEARCH AND THESIS)
    - If student has master's degree - minimum of 12 credits
    - If student has a bachelor's degree - minimum of 18 credits

Course selections reflect areas of specialization. Designation of a specialization is optional. Official specializations will appear on transcript. There are additional specific departmental requirements regarding physical sciences, biological sciences, and mathematics courses, which differ depending on the program and area of specialization.

All Ph.D. students write a dissertation under the guidance of their advisor and supervisory committee. The doctoral dissertation must be successfully defended before the supervisory committee and submitted to the library.

Degree Requirements

Type
Completion Requirement

PhD (post-master's)

Earn at least 2 credits from the following:
- PSC7890 - Plants, Soils, and Climate Graduate Seminar - 1cr.

PhD (bost-baccalaureate)

Earn at least 2 credits from the following:
- PSC7890 - Plants, Soils, and Climate Graduate Seminar - 1cr.

If student has a master's degree

Earn at least 12 credits from the following:
- PSC7970 - Research and Thesis - 1cr.

If student has a bachelor's degree

Earn at least 18 credits from the following:
- PSC7970 - Research and Thesis - 1cr.

Program Learning Outcomes

Program Learning Outcomes
https://caas.usu.edu/psc/assessment

Computer Science Software Development - Institutional Certificate of Proficiency

Program Overview

College
College of Engineering

Department
School of Computing

Program Level
Undergraduate

About this Degree

The USU School of Computing provides a variety of learning opportunities to earn certificate specializations through USU's online program. All the courses needed to earn these certificates are available online, meaning students can live anywhere and work on these certificates.

Among the certificates there is some overlap with the course requirements. Students who wish to pursue multiple certificates will benefit greatly from that overlap. For example, a student who completes the Software Development certificate only needs to complete two more classes (6 credits) for the Web & Mobile Developer certificate. The Cloud Computing certificate only requires one class (3 credits) on top of the Software Development certificate. The Computer Science Teaching - Level II certificate only requires two classes (6 credits) on top of the Computer Science Teaching - Level I certificate.

This certificate targets displaced workers from other fields and gives them a realistic pathway for obtaining an entry-level position as a software programmer or tester, as well as providing a foundation for other certificates or for a future bachelor's degree in computer science. Specific skills and outcomes as a result of this teaching certificate include:

- An ability to analyze a problem, identify, and define the computing requirements appropriate to its solutions.
- An understanding of professional, ethical, legal, security, social issues, and responsibilities.
- A basic ability to design, implement, and evaluate a computing-based solution to meet a given set of computing requirements in the context of the program's discipline.
- An ability to use the Python programming language.
- An ability to use the Java programming language.
- Learn about algorithm analysis techniques, asymptotic notation, data structures, sorting algorithms, and graph algorithms.

Program Requirements

Total Credits Required In Program Coursework
10

Total Credits Required To Earn This Credential
10

Simple Requisites

Program Requirements

10 credits

Computer Science Software Development - ICP

Type
Completion Requirement

Required Courses (10 credits)

Complete ALL of the following Courses:

- CS1400 - Introduction to Computer Science--CS 1 - 4cr.
- CS1410 - Introduction to Computer Science--CS 2 (QI) - 3cr.
- CS2420 - Algorithms and Data Structures--CS 3 (QI) - 3cr.

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Undergraduate Academic or Technical Certificates)

Program Learning Outcomes

Program Learning Outcomes

https://www.usu.edu/cs/assessment/undergraduate/index

Computer Science Teaching - Level 1 - Institutional Certificate of Proficiency

Program Overview

College
College of Engineering

Department
School of Computing

Program Level
Undergraduate

About this Degree

The USU School of Computing provides a variety of learning opportunities to earn certificate specializations through USU's online program. All the courses needed to earn these certificates are available online, meaning students can live anywhere and work on these certificates.

Among the certificates there is some overlap with the course requirements. Students who wish to pursue multiple certificates will benefit greatly from that overlap. For example, a student who completes the Software Development certificate only needs to complete two more classes (6 credits) for the Web & Mobile Developer certificate. The Cloud Computing certificate only requires one class (3 credits) on top of the Software Development certificate. The Computer Science Teaching - Level II certificate only requires two classes (6 credits) on top of the Computer Science Teaching - Level I certificate.

This certificate provides the foundational knowledge a currently licensed teacher needs in order to teach introductory computer science classes at the elementary and secondary education levels. A student should check with their licensing agency to determine how these courses apply in their specific circumstances. Specific skills and outcomes as a result of this teaching certificate include:

- An ability to analyze a problem, identify, and define the computing requirements appropriate to its solutions.
- An understanding of professional, ethical, legal, security, social issues, and responsibilities.
- A basic ability to design, implement, and evaluate a computing-based solution to meet a given set of computing requirements in the context of the program's discipline.
- An ability to use the Python programming language.
- An ability to use the Java programming language.
- Learn methods for teaching computer science to high school students.

Program Requirements

Total Credits Required In Program Coursework
13

Total Credits Required To Earn This Credential
13

Simple Requisites

Program Requirements

13 credits

Computer Science Teaching - Level 1 - ICP

Type
Completion Requirement

Required Courses (13 credits)

Complete ALL of the following Courses:

- CS1030 - Foundations of Computer Science (BPS) - 3cr.
- CS1400 - Introduction to Computer Science--CS 1 - 4cr.
- CS1410 - Introduction to Computer Science--CS 2 (QI) - 3cr.
- CS4350 - Computer Science Teaching Methods - 3cr.

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Undergraduate Academic or Technical Certificates)

Program Learning Outcomes

Program Learning Outcomes

https://www.usu.edu/cs/assessment/undergraduate/index

Computer Science Teaching - Level 2 - Institutional Certificate of Proficiency

Program Overview

College
College of Engineering

Department
School of Computing

Program Level
Undergraduate

About this Degree

The USU School of Computing provides a variety of learning opportunities to earn certificate specializations through USU's online program. All the courses needed to earn these certificates are available online, meaning students can live anywhere and work on these certificates.

Among the certificates there is some overlap with the course requirements. Students who wish to pursue multiple certificates will benefit greatly from that overlap. For example, a student who completes the Software Development certificate only needs to complete two more classes (6 credits) for the Web & Mobile Developer certificate. The Cloud Computing certificate only requires one class (3 credits) on top of the Software Development certificate. The Computer Science Teaching - Level II certificate only requires two classes (6 credits) on top of the Computer Science Teaching - Level I certificate.

This certificate provides advanced knowledge a currently licensed teacher needs in order to teach advanced computer science classes at the secondary education level. A student should check with their licensing agency to determine how these courses apply in their specific circumstances. Specific skills and outcomes as a result of this teaching certificate include:

- All those listed for the Computer Science Teaching – Level 1 certificate.
- Improve rational thinking, problem solving, and decisions.
- Gain factual knowledge, theories, fundamental principles, generalizations, and skills related to event driven programming and user interface development.
- Learn about algorithm analysis techniques, asymptotic notation, data structures, sorting algorithms, and graph algorithms.

Program Requirements

Total Credits Required In Program Coursework
19

Total Credits Required To Earn This Credential
19

Simple Requisites

Program Requirements

19 credits

Computer Science Teaching - Level 2 - ICP

Type
Completion Requirement

Required Courses (19 credits)

Complete ALL of the following Courses:

- CS1030 - Foundations of Computer Science (BPS) - 3cr.
- CS1400 - Introduction to Computer Science--CS 1 - 4cr.
- CS1410 - Introduction to Computer Science--CS 2 (QI) - 3cr.
- CS2410 - Introduction to Event Driven Programming and GUI's - 3cr.
- CS2420 - Algorithms and Data Structures--CS 3 (QI) - 3cr.
- CS4350 - Computer Science Teaching Methods - 3cr.

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Undergraduate Academic or Technical Certificates)

Program Learning Outcomes

Program Learning Outcomes

https://www.usu.edu/cs/assessment/undergraduate/index

Computer Science Teaching - Minor

Program Overview

College
College of Engineering

Department
School of Computing

Program Level
Undergraduate

About this Degree

The School of Computing at Utah State University offers the Computer Science Teaching Minor program. This minor is important for Utah schools because:

- Utah schools are actively seeking good Computer Science Teachers.
- The Utah State Board of Education (USBE) has established Computer Science Standards for grades K-12 and there is a shortage of teachers endorsed to teach these standards.
- Computer Science is a great teaching combination with math, science, and business.

Program Requirements

Total Credits Required In Program Coursework
20

Total Credits Required To Earn This Credential
20

Simple Requisites

Program Requirements

All courses counted toward the minor must be completed with a grade of C or better. The overall GPA for the Computer Science Teaching - Minor courses must be at least 2.5.

Section 1

Type
Completion Requirement

Required Courses (20 credits)

Earn a minimum grade of C in the following:

- CS1400 - Introduction to Computer Science--CS 1 - 4cr.
- CS1410 - Introduction to Computer Science--CS 2 (QI) - 3cr.
- CS2410 - Introduction to Event Driven Programming and GUI's - 3cr.
- CS2420 - Algorithms and Data Structures--CS 3 (QI) - 3cr.
- CS2610 - Developing Dynamic, Database-Driven Web Applications - 3cr.
- CS4350 - Computer Science Teaching Methods - 3cr.
- SCED3300 - Clinical Experience I - 1cr.

Section 2

Type
Completion Requirement

Additional Comments:

Teaching Endorsements

Successfully completing this minor as part of an elementary or secondary education degree will satisfy the requirements to earn the following teaching endorsements:

- Intro to Computer Science
- Programming and Software Development
- Web Development

Program Learning Outcomes

Program Learning Outcomes
https://www.usu.edu/cs/assessment/undergraduate/index

Computer Science Web & Mobile Developer - Institutional Certificate of Proficiency

Program Overview

College
College of Engineering

Department
School of Computing

Program Level
Undergraduate

About this Degree

The USU School of Computing provides a variety of learning opportunities to earn certificate specializations through USU's online program. All the courses needed to earn these certificates are available online, meaning students can live anywhere and work on these certificates.

Among the certificates there is some overlap with the course requirements. Students who wish to pursue multiple certificates will benefit greatly from that overlap. For example, a student who completes the Software Development certificate only needs to complete two more classes (6 credits) for the Web & Mobile Developer certificate. The Cloud Computing certificate only requires one class (3 credits) on top of the Software Development certificate. The Computer Science Teaching - Level II certificate only requires two classes (6 credits) on top of the Computer Science Teaching - Level I certificate.

This certificate builds on the Software Development certificate by providing additional breadth in the development of web and mobile applications. A particular focus on event driven user interfaces comes first, followed by specific application areas for web and mobile computing. This certificate enables one to have the necessary skills for an entry-level position as a web or mobile software developer. Students come away with the following skills and outcomes:

- Learn to develop secure, dynamic, database-driven web applications.
- Learn to create web pages and mobile applications featuring interactive capabilities using client and server side technologies.
- Gain experience in applying techniques of information representation, storage, retrieval, and transmission in Internet-based environments.
- Gain skills in using tools and practices of professionals for designing, developing, debugging and delivering web and mobile applications.
- An ability to analyze a problem, identify, and define the computing requirements appropriate to its solutions.
- An understanding of professional, ethical, legal, security, social issues, and responsibilities.
- A basic ability to design, implement, and evaluate a computing-based solution to meet a given set of computing requirements in the context of the program's discipline.
- An ability to use the Python and Java programming languages.

Program Requirements

Total Credits Required In Program Coursework
13

Total Credits Required To Earn This Credential
13

Simple Requisites

Program Requirements

Computer Science Web & Mobile Developer - ICP

Type
Completion Requirement

Required Courses (13 credits)

Complete ALL of the following Courses:

- CS1400 - Introduction to Computer Science--CS 1 - 4cr.
- CS1410 - Introduction to Computer Science--CS 2 (QI) - 3cr.
- CS2410 - Introduction to Event Driven Programming and GUI's - 3cr.
- CS2610 - Developing Dynamic, Database-Driven Web Applications - 3cr.

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Undergraduate Academic or Technical Certificates)

Program Learning Outcomes

Program Learning Outcomes

https://www.usu.edu/cs/assessment/undergraduate/index

College Teaching - Post-Bachelor's Certificate

Program Overview

College
College of Agriculture & Natural Resources

Department
Applied Sciences, Technology and Education

Program Level
Graduate

About this Degree

The College Teaching Post-Bachelor's Certificate is designed for educators aiming to enhance their expertise in curriculum design, evaluation, and advanced teaching strategies. This 100% online program focuses on key instructional skills while allowing students to tailor their experience with elective courses in adult education theory, applied research, classroom management, and mentoring. Committed to fostering educator excellence and improved student outcomes, this certificate supports practical application and professional growth. Additionally, it serves as a stackable credential, providing a pathway to advanced graduate programs in the Applied Sciences, Technology and Education Department.

Program Requirements

Total Credits Required In Program Coursework
12

Total Credits Required To Earn This Credential
12

Simple Requisites

Program Requirements

College Teaching - Post-Bachelor's Certificate

Type
Completion Requirement

Required Courses - 9 credits

Complete ALL of the following Courses:

- ASTE6090 - Curriculum Design - 3cr.
- ASTE6150 - Evaluation and Assessment - 3cr.
- ASTE6300 - Advanced Teaching Strategies - 3cr.

Electives - 3 credits

Complete at least 1 of the following courses:

- ASTE6140 - Reading and Applying Research - 3cr.
- ASTE6160 - Foundations of Adult Education - 3cr.
- ASTE6320 - Classroom Management, Student Motivation, and Guidance - 3cr.
- ASTE6380 - Mentoring and Supervision - 3cr.

Program Learning Outcomes

Program Learning Outcomes

https://cehs.usu.edu/about/assessment

Career and Technical Education - MEd

Program Overview

College
College of Agriculture & Natural Resources

Department
Applied Sciences, Technology and Education

Program Level
Graduate

About this Degree

Website: https://caas.usu.edu/aste/

This 100% online, non-thesis degree program provides students with the flexibility to pursue a master's degree in career and technical education for careers in formal (secondary and post-secondary) and nonformal (outreach/extension) settings. Students may begin the CTE-MEd program in any semester (fall, spring or summer), and take 1-3 courses (3-9 credits hours) each semester. Most students design a schedule to finish in five semesters, taking 2 classes for four semesters and 3 classes for one semester (usually in the summer) to complete 11 courses or 33 credits.

Secondary educators (practicing teachers) can expect to increase your effectiveness in the classroom, increase your earnings, and gain the credentials to explore new career opportunities in CTE leadership or in industry management. This degree program does not lead to licensure. If you are seeking licensure from USU, meet with an advisor to determine the coursework required to earn a second bachelor's degree and licensure.

Nonformal educators, working with youth and adults in outreach and industry settings, can expect to increase skills in digital engagement, improve research skills, and the ability to develop relevant programming.

This non-thesis degree program requires 33 credits for completion; 18 required credits (six 3 credit courses) and 15 elective credits (five 3 credit courses).

Admission Requirements for this Program

The required documentation for the application package and admissions requirements are noted on the ASTE Graduate Admission and Application webpage, aste.usu.edu/degrees/graduate-program-admission.

Program Requirements

Total Credits Required In Program Coursework
33

Total Credits Required To Earn This Credential
33

Simple Requisites

Program Requirements

School of Graduate Studies General Graduation Guidelines:

Degree Verification

A bachelor's degree from an accredited U. S. college or university or a similarly recognized international university is required for admission to and completion of a graduate program.

Overall Graduate GPA

At least 3. 0 and no grades of C- or lower. Graduate students are required to maintain at least a 3. 0 GPA for degree-program courses. Grades of C- or lower will not be accepted for a graduate degree.

Course Number Acceptability

The Program of Study for a master's degree must include at least 18 semester credits at the level of 6000 or above. A maximum of 12 credits from courses at the level of 5000 may be used on an approved program of study.

Matriculation Start Semester

A master's degree must be completed within six years of entering the degree program. Additional time may be requested and submitted to the Vice Provost of Graduate Studies for review.

Coursework Validity

Coursework over eight years old at the time of degree completion may not be used for a graduate degree unless it is revalidated.

Plan Type

Plan C

Required Master's forms:

Approval of academic forms required for master's students by the School of Graduate Studies

- Program of Study submitted by the end of the second semester
- Graduation application

Foundational Core

Type
Completion Requirement

Foundational Core (6 credits)

Students must take 6 credits of foundational coursework

Complete ALL of the following Courses:

- ASTE6140 - Reading and Applying Research - 3cr.
- ASTE6160 - Foundations of Adult Education - 3cr.

Educational Core

Type
Completion Requirement

Educational Core (12 credits)

Students choose 12 credits of required educational core either from the suggested formal or non-formal coursework

Fulfill ANY of the following requirements:

Suggested Courses for Formal Education Focus:

Earn at least 12 credits from the following:

- ASTE6090 - Curriculum Design - 3cr.
- ASTE6150 - Evaluation and Assessment - 3cr.
- ASTE6300 - Advanced Teaching Strategies - 3cr.
- ASTE6320 - Classroom Management, Student Motivation, and Guidance - 3cr.
- ASTE6910 - Design Thinking for Career and Technical Education - 3cr.

OR

Suggested Courses for Non-Formal Education Focus:

Earn at least 12 credits from the following:

- ASTE6170 - Program Planning and Evaluation - 3cr.
- ASTE6200 - Principles and Practices of Extension Education - 3cr.
- ASTE6220 - Volunteer Programs and Partnerships - 3cr.
- ASTE6920 - Communication Tools for Extension - 3cr.
- ASTE7500 - Diffusion of Innovations - 3cr.

Electives

Type
Completion Requirement

Electives (15 credits)

Earn at least 15 credits from the following:

- ASTE6180 - Administration and Leadership - 3cr.
- ASTE6315 - Career and Technical Student Organization Development - 3cr.
- ASTE6370 - Grant Writing and Management - 3cr.
- ASTE6380 - Mentoring and Supervision - 3cr.
- ASTE6460 - Integrating Career and Tech Educ Curriculum with Science, Technology, Engineering, and Mathematics - 3cr.
- ASTE6470 - Digital Tools for Learning - 3cr.
- ASTE6900 - Graduate Independent Study in Career and Technical Education - 1cr.
- ASTE6950 - Graduate Internship - 1cr.

Program Learning Outcomes

Program Learning Outcomes

https://caas.usu.edu/aste/assessment/

Physical Science - Composite Teaching (Chemistry) - BS

Program Overview

College
College of Arts & Sciences

Department
Chemistry & Biochemistry

Program Level
Undergraduate

About this Degree

The physical science (composite teaching) major qualifies students to teach seventh and eighth grade integrated science and high school chemistry and physics. Because they are qualified to teach both subjects, graduates of this major will be more marketable and sought after for teaching positions.

As they train to become chemistry teachers, students learn how to teach the basic chemical properties of elements and the chemical reactions that take place when different elements are combined, and how to properly write scientific equations.

Students also study physics and gain understanding of both the theory of physics and how to experiment using those theories as a guide. Physics teaching covers thermal physics, intermediate modern physics, wave phenomena, electromagnetism, and quantum mechanics.

- For more information about Chemistry, see the Department of Chemistry and Biochemistry.
- Admitted and current students must meet with the Department of Chemistry & Biochemistry advisor.
- Log on to Degree Works to check student-specific program progress.
- The highest math requirement for this degree is MATH1220 CALCULUS II (QL) and STAT3000 STATISTICS FOR SCIENTISTS (QI).

Admission Requirements for this Program

- New freshmen must be admitted to USU in Good Standing.
- Transfer students from other institutions or other programs at USU must have a 3.0 GPA, ACT scores of 21 composite and 20 verbal/ English and 19 mathematics/quantitative to be admitted to the major.
- **Admission to STEP with this major requires a minimum GPA of 2.75 in** CHEM1210 PRIN OF CHEMISTRY I, CHEM1215 CHEMICAL PRINCIPLES LAB I, CHEM1220 PRIN OF CHEMISTRY II (BPS), CHEM1225 CHEMICAL PRINCIPLES LAB II, PHYS2210 PHYS SCI AND ENGR I (QI)(BPS), PHYS2215 PHYS SCI AND ENGR LAB 1, PHYS2220 PHYS SCI AND ENGR II (BPS)(QI), and PHYS2225 PHYS SCI AND ENGR LAB II.

Program Requirements

Total Credits Required In Program Coursework

Total Credits Required To Earn This Credential
120

Simple Requisites

Program Requirements

- Requires a 3.00 GPA.
- A grade of C or better is required in all Chemistry and Physics prefix courses.

Additional Information

Students must complete the General Education Requirements and the University Studies Requirements.

Notes:

- Students should consult with the Chemistry & Biochemistry department advisor to develop an individualized plan of study that is applicable to their interests and STEP program no later than their sophomore year.
    - In order to obtain a secondary teaching license for grades 6-12, students must complete the 35-credit Secondary Teacher Education Program (STEP), which includes one semester of student teaching in a public school. This program is administered by USU's School of Teacher Education and Leadership (TEAL) within the Emma Eccles Jones College of Education and Human Services.
    - Students must apply to the School of TEAL the semester before taking STEP courses. This is usually the fall of their junior year. Students learn subject content through the Languages, Philosophy, and Speech Communication Department, and spend the last year or two studying education techniques through the STEP program.
- All candidates for graduation with a Physical Science Composite Teaching degree through the Chemistry & Biochemistry department must complete a department exit survey prior to approval of graduation application and completion of the program.
- The suggested schedule assumes the student has passed MATH1210 CALCULUS I (QL).

Physical Science - Composite Teaching (Chemistry) - BS

Type
Completion Requirement

Physical Science Major Required Courses (16 credits)

Complete ALL of the following Courses:

- PHYS1040 - Introductory Astronomy (BPS) - 3cr.
- PHYS1080 - Intelligent Life in the Universe (BPS) - 3cr.
- PHYS2210 - Physics for Scientists and Engineers I (QI/BPS) - 4cr.
  OR PHYS2310 - Physics for Scientists I (BPS) - 4cr.
- PHYS2215 - Physics for Scientists and Engineers Lab I - 1cr.
- PHYS2220 - Physics for Scientists and Engineers II (BPS/QI) - 4cr.
  OR PHYS2320 - Physics for Scientists II (BPS) - 4cr.
- PHYS2225 - Physics for Scientists and Engineers Lab II - 1cr.

NOTE:

1. PHYS2310 PHYSICS FOR SCIENTISTS I (BPS) and PHYS2320 PHYSICS FOR SCIENTISTS II(BPS) - For physics majors only.

Physical Science Mathematics and Statistics (7 credits)

Complete ALL of the following Courses:

- MATH1220 - Calculus II (QL) - 4cr.
- STAT3000 - Statistics for Scientists (QI) - 3cr.

Physical Science Required Chemistry Courses (14-15 credits)

Complete ALL of the following Courses:

- CHEM1210 - Principles of Chemistry I - 4cr.
- CHEM1215 - Chemical Principles Laboratory I - 1cr.
- CHEM1220 - Principles of Chemistry II (BPS) - 4cr.
- CHEM1225 - Chemical Principles Laboratory II - 1cr.
- CHEM2300 - Principles of Organic Chemistry - 3cr.

OR CHEM2310 - Organic Chemistry I - 4cr.
- CHEM2315 - Organic Chemistry Laboratory I - 1cr.

Physical Science Required Courses (10 credits)

Complete ALL of the following Courses:
- BIOL1010 - Biology and the Citizen (BLS) - 3cr.
- GEO1110 - Physical Geology (BPS) - 3cr.
- GEO1115 - Physical Geology Laboratory - 1cr.
- PSC2000 - The Atmosphere and Weather (BPS) - 3cr.

Required Courses for the Secondary Teacher Education Program (STEP) (38 credits)

To begin the admission process to the STEP program, students should see their Chemistry advisor at least two semesters before they begin Level I coursework and also meet with a Secondary Education (TEAL) advisor. STEP admission deadlines are March 1 for fall semester and October 1 for spring semester. For more information about secondary education teaching requirements, go to http://teal.usu.edu/undergrad/sced/index-SCED.

All courses must be passed with a grade of C or better.

Fulfill ALL of the following requirements:

STEP Admission ourse

This courses may be taken prior to admission.

Complete ALL of the following Courses:
- ITLS2500 - Technology Enabled Instruction - 3cr.

AND

Secondary Education Additional Courses

Complete ALL of the following Courses:
- SCED3210 - Educational and Multicultural Foundations (DSS/CI) - 3cr.
- SCED3300 - Clinical Experience I - 1cr.
- SCED4300 - Clinical Experience II - 1cr.
- SCED5100 - Motivation and Classroom Management - 3cr.
- SCED5200 - Language, Literacy, and Learning in the Content Areas (CI) - 3cr.
- SCED5210 - Learning Theory, Curriculum, and Assessment - 3cr.
- SCED5500 - Student Teaching Seminar - 2cr.
- SCED5630 - Student Teaching in Secondary Schools - 10cr.
- SCED5820 - Science Education Teaching and Dispositions Knowledge - 3cr.
- SCED5821 - Three-Dimensional Science and Engineering Pedagogical Knowledge - 3cr.
- SPED4000 - Education of Students with Disabilities - 3cr.

Open Electives

Complete the following as needed:
Total elective credit is determined by General Education courses taken, degree type selected, additional credits earned, and any additional math or other prerequisite courses needed. Please consult your Academic Advisor for details.

Additional Comments:

Licensure Notification

This program typically leads to licensure and was designed to meet licensing qualifications in the state of Utah. If students wish to work in another state within the United States, they should review the qualifications for that state and the Education Licensure Compliance Table provided by School of Teacher Education and Leadership.

For more information, please contact the School of Teacher Education and Leadership at https://cehs.usu.edu/teal/

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Bachelor's Degree)

Suggested Degree Maps

Degree Map Name
Suggested Degree Map - Physical Science Composite Teaching (Chemistry) BS
Total Degree Map Credits
118 - 125
Degree Map Effective Catalog Year
2027 -

Degree Map Narrative

- Following is a sample four-year plan. Please note that student-specific plans may differ.
- Meet with an academic advisor to create a specific plan that best fits your academic needs.
- The student is ultimately responsible for knowing and completing all degree requirements.
- Make sure you meet the registration requirements for each class by clicking the course link and checking any prerequisites or corequisites.
- Consultation with an advisor may result in an altered plan customized for an individual student.
- Check your Degree Works for requirements and completion.

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	15	0

Requirement Select
- MATH1220 - Calculus II (QL)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- PHYS1080 - Intelligent Life in the Universe (BPS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- PHYS2210 - Physics for Scientists and Engineers I (QI/BPS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- PHYS2215 - Physics for Scientists and Engineers Lab I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- University Studies Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	14 - 15	0

Requirement Select

- BIOL1010 - Biology and the Citizen (BLS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Communications Literacy (CL1) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- PHYS2220 - Physics for Scientists and Engineers II (BPS/QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- PHYS2225 - Physics for Scientists and Engineers Lab II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- STAT3000 - Statistics for Scientists (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	15	0

Requirement Select

- CHEM1210 - Principles of Chemistry I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- CHEM1215 - Chemical Principles Laboratory I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- GEO1110 - Physical Geology (BPS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- GEO1115 - Physical Geology Laboratory

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- PHYS1040 - Introductory Astronomy (BPS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- PSC2000 - The Atmosphere and Weather (BPS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	15 - 17	0

Requirement Select

- Apply for STEP (Secondary Teacher Education Program). (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- CHEM1220 - Principles of Chemistry II (BPS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- CHEM1225 - Chemical Principles Laboratory II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- Communications Literacy (CL2) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Physics Elective Course 2500+ level (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- University Studies Courses (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4 - 6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Fall	15 - 18	0

Requirement Select

- CHEM2300 - Principles of Organic Chemistry
  OR
- CHEM2310 - Organic Chemistry I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 4
Progress Credits	-
Contact Hours	3 - 4
Clinical	-
Criticality	No

Requirement Select

- CHEM2315 - Organic Chemistry Laboratory I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- ENGL2010 - Research and Argument Across Perspectives (CL2)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- SCED3300 - Clinical Experience I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- SCED3400 - Teaching Science I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Physics Elective Course 2500+ level (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2 - 3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Depth Humanities and Creative Arts (DHA) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2 - 3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Spring	16	0

Requirement Select

- SCED5100 - Motivation and Classroom Management

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- SCED3210 - Educational and Multicultural Foundations (DSS/CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- SCED4300 - Clinical Experience II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- SCED5821 - Three-Dimensional Science and Engineering Pedagogical Knowledge

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- ITLS2500 - Technology Enabled Instruction

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- University Studies Courses (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Fall	16 - 17	0

Requirement Select

- Elective credits could include GEO 2200 - The Earth Through Time 3 credits and WILD 2200 - Ecology of Our Changing World (BLS) 3 credits . These courses would be used to obtain the earth science endorsement needed to teach 9th-grade science. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- SPED4000 - Education of Students with Disabilities

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- SCED5200 - Language, Literacy, and Learning in the Content Areas (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- SCED5210 - Learning Theory, Curriculum, and Assessment

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Elective Credits (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	7 - 8
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Spring	12	0

Requirement Select

- SCED5500 - Student Teaching Seminar

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select

- SCED5630 - Student Teaching in Secondary Schools

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	10
Progress Credits	-
Contact Hours	10
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Program Learning Outcomes

Program Learning Outcomes

https://www.usu.edu/oda/assessment/

Physical Science - Composite Teaching (Physics) - BS

Program Overview

College	Department	Program Level
College of Arts & Sciences	Physics	Undergraduate

About this Degree

The physical science (composite teaching) major qualifies students to teach seventh and eighth-grade integrated science and high school chemistry and physics. Because they are qualified to teach both subjects, graduates of this major will be more marketable and sought after for teaching positions.

As they train to become chemistry teachers, students learn how to teach the basic chemical properties of elements and the chemical reactions that take place when different elements are combined, and how to properly write scientific equations. Students also study physics and gain an understanding of both the theory of physics and how to experiment using those theories as a guide. Physics teaching covers thermal physics, intermediate modern physics, wave phenomena, electromagnetism, and quantum mechanics.

- For more information about Physics, see the Department of Physics website.
- Admitted and current students must meet with Vanessa Chambers, no later than their sophomore year to develop an individualized plan of study that is applicable to their interests and fulfills STEP program requirements.
- Log on to Degree Works to check student-specific program progress.
- Suggested schedule assumes student has passed MATH1210 CALCULUS I (QL).

Admission Requirements for this Program

- New freshmen must be admitted to USU in Good Standing and have an overall GPA of 2.0.
- Transfer students from other institutions or other programs at USU must have a 2.20 GPA.
- Students must have an overall GPA of 3.0 to be admitted to the Secondary Ed program.
- Admission to STEP requires a grade of C or better in all major content courses and requires an overall GPA of 3.0.

Program Requirements

Total Credits Required In Program Coursework	Total Credits Required To Earn This Credential
98	122

Simple Requisites

Program Requirements

Students must complete the General Education Requirements and the University Studies Requirements.

- Admission to STEP requires a grade of C or better in all major content courses and requires an overall GPA of 3.0.

In order to obtain a secondary teaching license for grades 6-12, students must complete the Secondary Teacher Education Program (STEP), which includes one semester of student teaching in a public school. This program is administered by USU's School of Teacher Education and Leadership (TEAL) within the Emma Eccles Jones College of Education and Human Services. Students must apply to

the School of TEAL the semester before taking STEP courses. This is usually the fall of their junior year. Students learn subject content through the Languages, Philosophy, and Speech Communication Department, and spend the last year or two studying education techniques through the STEP program.

Physical Science - Composite Teaching (Physics) - BS

Type

Completion Requirement

Major Requirements (19 credits)

Major requirements may *not* be taken for a pass/fail grade, except for those courses which are taught only on a pass/fail basis. A minimum grade of C or better is required in all major content courses to be recommended for graduation.

Complete ALL of the following Courses:

- PHYS1040 - Introductory Astronomy (BPS) - 3cr.
- PHYS1080 - Intelligent Life in the Universe (BPS) - 3cr.
- PHYS2210 - Physics for Scientists and Engineers I (QI/BPS) - 4cr.
  OR PHYS2310 - Physics for Scientists I (BPS) - 4cr.
- PHYS2215 - Physics for Scientists and Engineers Lab I - 1cr.
- PHYS2220 - Physics for Scientists and Engineers II (BPS/QI) - 4cr.
  OR PHYS2320 - Physics for Scientists II (BPS) - 4cr.
- PHYS2225 - Physics for Scientists and Engineers Lab II - 1cr.
- PHYS2710 - Introductory Modern Physics - 3cr.

NOTE:

PHYS2310 PHYSICS FOR SCIENTISTS I (BPS) and PHYS2320 PHYSICS FOR SCIENTISTS II(BPS) - For physics majors only.

Physical Science Math and Stats Requirements (11 credits)

Earn a minimum grade of C in the following:

- MATH1210 - Calculus I (QL) - 4cr.
- MATH1220 - Calculus II (QL) - 4cr.
- STAT3000 - Statistics for Scientists (QI) - 3cr.

Physical Science Required Chemistry Courses (14-15 credits)

Complete ALL of the following Courses:

- CHEM1210 - Principles of Chemistry I - 4cr.
- CHEM1215 - Chemical Principles Laboratory I - 1cr.
- CHEM1220 - Principles of Chemistry II (BPS) - 4cr.
- CHEM1225 - Chemical Principles Laboratory II - 1cr.
- CHEM2300 - Principles of Organic Chemistry - 3cr.
  OR CHEM2310 - Organic Chemistry I - 4cr.
- CHEM2315 - Organic Chemistry Laboratory I - 1cr.

Physical Science Required Courses (10 credits)

Complete ALL of the following Courses:

- BIOL1010 - Biology and the Citizen (BLS) - 3cr.
- GEO1110 - Physical Geology (BPS) - 3cr.
- GEO1115 - Physical Geology Laboratory - 1cr.
- PSC2000 - The Atmosphere and Weather (BPS) - 3cr.

Physics Electives (6 credits)

Earn at least 6 credits from the following:

- PHYS3010 - Space Exploration from Earth to the Solar System (DSC/QI) - 3cr.
- PHYS3030 - The Universe (DSC/QI) - 3cr.
- PHYS3710 - Intermediate Modern Physics - 3cr.

Required Courses for the Secondary Teacher Education Program (STEP) (38 credits)

All courses must be passed with a grade of C or better.

Fulfill ALL of the following requirements:

STEP admission courses

These courses may be taken prior to admission.

Complete ALL of the following Courses:

- ITLS2500 - Technology Enabled Instruction - 3cr.

AND

Secondary Education Additional Courses

Complete ALL of the following Courses:

- SCED3210 - Educational and Multicultural Foundations (DSS/CI) - 3cr.
- SCED3300 - Clinical Experience I - 1cr.
- SCED4300 - Clinical Experience II - 1cr.
- SCED5100 - Motivation and Classroom Management - 3cr.
- SCED5200 - Language, Literacy, and Learning in the Content Areas (CI) - 3cr.
- SCED5210 - Learning Theory, Curriculum, and Assessment - 3cr.
- SCED5500 - Student Teaching Seminar - 2cr.
- SCED5630 - Student Teaching in Secondary Schools - 10cr.
- SCED5820 - Science Education Teaching and Dispositions Knowledge - 3cr.
- SCED5821 - Three-Dimensional Science and Engineering Pedagogical Knowledge - 3cr.
- SPED4000 - Education of Students with Disabilities - 3cr.

Open Electives

Complete the following as needed:
Total elective credit is determined by General Education courses taken, degree type selected, additional credits earned, and any additional math or other prerequisite courses needed. Please consult your Academic Advisor for details.

Additional Comments:

Licensure Notification

This program typically leads to licensure and was designed to meet licensing qualifications in the state of Utah. If students wish to work in another state within the United States, they should review the qualifications for that state and the Education Licensure Compliance Table provided by School of Teacher Education and Leadership.

For more information, please contact the School of Teacher Education and Leadership at https://cehs.usu.edu/teal/.

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Bachelor's Degree)

Suggested Degree Maps

Degree Map Name
Suggested Degree Map - Physical Science Composite Teaching (Physics) BS

Total Degree Map Credits
118 - 123
Degree Map Effective Catalog Year
2027 -

Degree Map Narrative

- Following is a sample four-year plan. Please note that student-specific plans may differ.
- Meet with an academic advisor to create a specific plan that best fits your academic needs.
- The student is ultimately responsible for knowing and completing all degree requirements.
- Make sure you meet the registration requirements for each class by clicking the course link and checking any prerequisites or corequisites.
- Consultation with an advisor may result in an altered plan customized for an individual student.
- Check your Degree Works for requirements and completion.

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	15	0

Requirement Select
- MATH1220 - Calculus II (QL)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- PHYS1080 - Intelligent Life in the Universe (BPS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- PHYS2210 - Physics for Scientists and Engineers I (QI/BPS)
  OR
- PHYS2310 - Physics for Scientists I (BPS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- PHYS2215 - Physics for Scientists and Engineers Lab I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- University Studies Breadth Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	14	0

Requirement Select
- BIOL1010 - Biology and the Citizen (BLS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- ENGL1010 - Writing as Inquiry (CL1)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- PHYS2220 - Physics for Scientists and Engineers II (BPS/QI)

OR

- PHYS2320 - Physics for Scientists II (BPS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- PHYS2225 - Physics for Scientists and Engineers Lab II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- University Studies Breadth Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	18	0

Requirement Select

- CHEM1210 - Principles of Chemistry I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- CHEM1215 - Chemical Principles Laboratory I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- GEO1110 - Physical Geology (BPS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- GEO1115 - Physical Geology Laboratory

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- PHYS1040 - Introductory Astronomy (BPS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- PHYS2710 - Introductory Modern Physics

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- University Studies Breadth Courses (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	17	0

Requirement Select
- See advisor, Karalee Ransom, to apply for STEP (Secondary Teacher Education Program). (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- CHEM1220 - Principles of Chemistry II (BPS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- CHEM1225 - Chemical Principles Laboratory II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- ENGL2010 - Research and Argument Across Perspectives (CL2)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- University Studies Breadth Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- STAT3000 - Statistics for Scientists (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- PSC2000 - The Atmosphere and Weather (BPS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Fall	13 - 15	0

Requirement Select

- A grade of C or better is required for all graded STEP courses. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- CHEM2300 - Principles of Organic Chemistry

OR

- CHEM2310 - Organic Chemistry I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 4
Progress Credits	-
Contact Hours	3 - 4
Clinical	-
Criticality	No

Requirement Select

- CHEM2315 - Organic Chemistry Laboratory I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- Physics Elective Course 2500+ level (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- SCED3300 - Clinical Experience I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- SCED5820 - Science Education Teaching and Dispositions Knowledge

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Depth Humanities and Creative Arts (DHA) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2 - 3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Spring	16	0

Requirement Select

- A grade of C or better is required for all graded STEP courses. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- ITLS2500 - Technology Enabled Instruction

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- SCED5100 - Motivation and Classroom Management

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- SCED3210 - Educational and Multicultural Foundations (DSS/CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- SCED4300 - Clinical Experience II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- SCED5821 - Three-Dimensional Science and Engineering Pedagogical Knowledge

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Physics Elective Course 2500+ level (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Fall	13 - 16	0

Requirement Select

- Elective credits could include GEO 2200 - The Earth Through Time 3 credits and WILD 2200 - Ecology of Our Changing World (BLS)3 credits. These courses would be used to obtain the earth science endorsement needed to teach 9th-grade science. A grade of C or better is required for all graded STEP courses. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- SCED5200 - Language, Literacy, and Learning in the Content Areas (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- SCED5210 - Learning Theory, Curriculum, and Assessment

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- SPED4000 - Education of Students with Disabilities

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Elective Credits (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4 - 7
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Spring	12	0

Requirement Select

- A grade of C or better is required for all graded STEP courses. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- SCED5500 - Student Teaching Seminar

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select

- SCED5630 - Student Teaching in Secondary Schools

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	10
Progress Credits	-
Contact Hours	10
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Program Learning Outcomes

Program Learning Outcomes
https://www.usu.edu/oda/assessment/

Curriculum and Instruction - MEd

Program Overview

College
College of Education & Human Services

Department
School of Teacher Education & Leadership

Program Level
Graduate

About this Degree
The Master of Education (M.Ed.) in Curriculum and Instruction program is designed for persons who desire to engage in graduate studies that will help them improve their competencies as educators. The M.Ed. coursework degree (Professional/Plan C) program is the most pursued degree option and is available for students both at the Logan campus and at Statewide campuses.

This program does not necessarily lead to a recommendation for teaching licensure from USU. Licensure is obtained directly from the Utah State Board of Education.

For additional admission information, including contact information, please visit the department's M.Ed. website.

Admission Requirements for this Program
Admission requirements include a GPA of 3.0 over the last 30 credits taken prior to the application, three letters of recommendation, official transcripts (not needed if degree is from USU) and a statement of purpose outlining your desire to pursue graduate studies.

Deadline for applications: March 1st, June 1st, and November 1st

Program Requirements

Total Credits Required In Program Coursework
30

Total Credits Required To Earn This Credential
30

Simple Requisites

Program Requirements

School of Graduate Studies General Graduation Guidelines:

Degree Verification: A bachelor's degree from an accredited U. S. college or university or a similarly recognized international university is required for admission to and completion of a graduate program.

Overall Graduate GPA: At least 3.0 and no grades of C- or lower. Graduate students are required to maintain at least a 3.0 GPA for degree-program courses. Grades of C- or lower will not be accepted for a graduate degree.

Course Number Acceptability: The Program of Study for a master's degree must include at least 18 semester credits at the level of 6000 or above. The program of study may include up to 12 semester credits of 5000 level courses.

Matriculation Start Semester: A master's degree must be completed within six years of entering the degree program. Additional time may be requested and submitted to the Vice Provost of Graduate Studies for review.

Coursework Validity: Coursework over eight years old at the time of degree completion may not be used for a graduate degree unless it is revalidated by the vice provost of graduate studies.

Required Master's Forms (Professional/Plan C)

Approval of academic forms required for master's students by the School of Graduate Studies

- Program of Study
- Graduation Application

Department Requirements:

The basic elements of the MEd coursework option include completion of 30 credits in an approved program of study. All courses require a grade of C or better and students must maintain an overall GPA of 3.0 or higher.

At the conclusion of the program, each student must complete/submit the following:

- Exit interview
- Exit survey

Curriculum and Instruction - MEd

Type
Completion Requirement

Curriculum and Instruction Core (15 credits)

Complete ALL of the following Courses:

- TEAL6150 - Foundations of Curriculum - 3cr.
- TEAL6190 - Theories of Learning and Models of Teaching - 3cr.
- TEAL6410 - Social Foundations of Education - 3cr.
- TEAL6710 - Diversity in Education - 3cr.
- TEAL6545 - Research For Teachers - 3cr.

Department Electives (15 credits)

Curriculum and Instruction- MEd Planning Guide

Earn at least 15 credits from the following:

- ASTE6160 - Foundations of Adult Education - 3cr.
- EDUC6570 - Introduction to Educational and Psychological Research - 3cr.
- ITLS6520 - Instructional Design I - 3cr.
- TEAL5320 - Foundations of Literacy and Language - 3cr.
- TEAL5420 - Learning, Development, and Individual Differences in Gifted Education - 3cr.
- TEAL5521 - Mathematics for Teaching K-8: Numbers and Operations - 3cr.
- TEAL5523 - Mathematics for Teaching K-8: Algebraic Reasoning - 3cr.
- TEAL5560 - Special Topics - 0.5cr.
- TEAL5710 - Instruction for Linguistically and Culturally Diverse Learners - 3cr.
- TEAL5735 - Language Systems, Acquisition, and Instruction for English Learners - 3cr.
- TEAL5755 - Family and Community Involvement for ELs - 3cr.
- TEAL6064 - Methods for Teaching Middle Level Mathematics - 3cr.
- TEAL6205 - Nature of Science and Engineering for Teachers - 3cr.
- TEAL6270 - Introduction to Methods, Planning, and Assessment - 3cr.
- TEAL6300 - Workshop in Mathematics Education - 1cr.
- TEAL6350 - Literacy Assessment and Intervention - 3cr.
- TEAL6381 - Writing Research and Instruction - 3cr.
- TEAL6390 - Researching K-12 Literacy Using Fiction and Non-Fiction Texts - 3cr.
- TEAL6400 - Foundations of Instructional Coaching - 3cr.
- TEAL6415 - History of Policy Change in US Schools - 3cr.
- TEAL6420 - Learning, Development, and Individual Differences in Gifted Education - 3cr.
- TEAL6521 - Mathematics for Teaching K-8 - Numbers and Operations - 3cr.
- TEAL6522 - Mathematics for Teaching K-8 - Rational Numbers and Proportional Reasoning - 3cr.
- TEAL6523 - Mathematics for Teaching K-8 - Algebraic Reasoning - 3cr.
- TEAL6524 - Mathematics for Teaching K-8 - Geometry and Measurement - 3cr.
- TEAL6525 - Mathematics for Teaching K-8 - Data Analysis and Problem Solving - 3cr.
- TEAL6530 - Anthropology of Education - 3cr.
- TEAL6551 - Mathematics for Teaching K - 8: Assessment and Intervention - 3cr.
- TEAL6552 - Mathematics Education Leadership Knowledge and Skills - 3cr.
- TEAL6560 - Special Topics - 0.5cr.
- TEAL6570 - K-12 Comprehension Research - 3cr.
- TEAL6675 - Discourse Analysis in Education - 3cr.
- TEAL6720 - Practicum in Science Instruction - 1cr.
- TEAL6755 - Family and Community Involvement for ELs - 3cr.
- TEAL6770 - Content Based Instruction for Dual Language Immersion/English as a Second Language - 3cr.
- TEAL6780 - Assessment for Language Learners - 3cr.
- TEAL6790 - ESOL Field Experience - 0.5cr.
- TEAL6800 - Advanced Review of Research in Social Studies - 3cr.
- TEAL6900 - Independent Study - 0.5cr.
- TEAL6910 - Independent Research - 0.5cr.
- TEAL6980 - Portfolio Project - 1cr.
- TEAL6990 - Continuing Graduate Advisement - 1cr.

Program Learning Outcomes

Program Learning Outcomes

https://www.usu.edu/oda/assessment/

Curriculum and Instruction - MS

Program Overview

College
College of Education & Human Services

Department
School of Teacher Education & Leadership

Program Level
Graduate

About this Degree

The Master of Science (MS) in Curriculum and Instruction degree (Plan A) is a research-oriented degree designed to prepare the candidate for further graduate study. It requires a strong relationship with a major professor who will serve as an advisor and supervisor of the master's thesis. The thesis will consist of a major research project under the supervision of the major professor who will act as chair of a three-person faculty committee responsible for providing formal supervision and approval for the thesis.

The MS is the degree suggested for candidates whose long-range goals include the possibility of pursuing a doctorate or teaching at an institution of higher education.

The candidate should make contact in advance of the application, with potential faculty mentors to clarify research goals and identify possible members of the supervisory committee.

This program does not lead to a recommendation for teaching licensure from USU. Licensure is obtained directly from the Utah State Board of Education.

For additional information and contact information about the Curriculum & Instruction Master of Science program, visit the department's website at https://cehs.usu.edu/teal/graduate/master-of-science.

Specialization Options:

- Early Childhood Education Specialization - ***not currently offered***
- Elementary Mathematics Specialization
- English as a Second Language Specialization
- Gifted and Talented Specialization - ***not currently offered***
- Interventions for Secondary Students Specialization - ***not currently offered***
- Literacy Education
- Science Education- ***not currently offered***
- Social Studies Education

Admission Requirements for this Program

Students should have a 3.0 GPA for the last 30 credits of coursework taken prior to the application for admission, three letters of recommendation, official transcripts (not needed if degree is from USU) and a statement of purpose outlining your desire to pursue graduate studies.

Deadline for applications: March 1st, June 1st, and November 1st

Program Requirements

Total Credits Required In Program Coursework
36

Total Credits Required To Earn This Credential
36

Simple Requisites

Program Requirements

School of Graduate Studies General Graduation Guidelines:

Degree Verification

A bachelor's degree from an accredited U. S. college or university or a similarly recognized international university is required for admission to and completion of a graduate program.

Overall Graduate GPA

At least 3.0 and no grades of C- or lower. Graduate students are required to maintain at least a 3.0 GPA for degree-program courses. Grades of C- or lower will not be accepted for a graduate degree.

Course Number Acceptability

The Program of Study for a master's degree must include at least 18 semester credits at the level of 6000 or above. The program of study may include up to 12 semester credits of 5000 level courses.

Matriculation Start Semester

A master's degree must be completed within six years of entering the degree program. Additional time may be requested and submitted to the Vice Provost of Graduate Studies for review.

Coursework Validity

Coursework over eight years old at the time of degree completion may not be used for a graduate degree unless it is revalidated by the vice provost of graduate studies.

Required Master's Forms (Plan A-Thesis)

Approval of academic forms required for master's students by the School of Graduate Studies

- Supervisory Committee
- Program of Study
- Thesis/Project Approval
- Appointment for Examination
- Record of Examination
- Authorship & Copyright
- Format & Style
- Title Page
- SGS and library review & approval

Department Requirements:

The degree requires 36 credits of coursework including 15 credits of core courses, 6 credits of thesis, and 15 credits of supporting coursework. All courses require a grade of C or better and students must maintain an overall GPA of 3.0 or higher.

At the conclusion of the program, each student must complete/submit the following:

- Exit interview
- Exit survey

Required Courses

Type
Completion Requirement

Curriculum and Instruction Core (21 credits)

Complete ALL of the following Courses:

- EDUC6570 - Introduction to Educational and Psychological Research - 3cr.
- TEAL6150 - Foundations of Curriculum - 3cr.
- TEAL6190 - Theories of Learning and Models of Teaching -

3cr.
- TEAL6410 - Social Foundations of Education - 3cr.
- TEAL6710 - Diversity in Education - 3cr.
- TEAL6970 - Thesis - 3cr.

NOTE:

1. TEAL6970 THESIS - Enroll in 6 credits

Curriculum & Instruction Electives (15-18 credits)

Type
Completion Requirement

Curriculum and Instruction Electives

Credit requirements depend on the specialization. More information is available at https://teal.usu.edu/graduate/science/med-science.

Fulfill ANY of the following requirements:

Elementary Mathematics Specialization (18 credits)

Complete ALL of the following Courses:
- TEAL6521 - Mathematics for Teaching K-8 - Numbers and Operations - 3cr.
- TEAL6522 - Mathematics for Teaching K-8 - Rational Numbers and Proportional Reasoning - 3cr.
- TEAL6523 - Mathematics for Teaching K-8 - Algebraic Reasoning - 3cr.
- TEAL6524 - Mathematics for Teaching K-8 - Geometry and Measurement - 3cr.
- TEAL6525 - Mathematics for Teaching K-8 - Data Analysis and Problem Solving - 3cr.
- TEAL6551 - Mathematics for Teaching K - 8: Assessment and Intervention - 3cr.

OR

ESL Specialization (15 credits)

Complete ALL of the following Courses:
- TEAL5735 - Language Systems, Acquisition, and Instruction for English Learners - 3cr.
- TEAL6755 - Family and Community Involvement for ELs - 3cr.
- TEAL6770 - Content Based Instruction for Dual Language Immersion/English as a Second Language - 3cr.
- TEAL6780 - Assessment for Language Learners - 3cr.
- TEAL6790 - ESOL Field Experience - 0.5cr.

OR

Literacy Specialization (15 credits)

Complete ALL of the following Courses:
- TEAL6320 - Theories and Models of Reading - 3cr.
- TEAL6350 - Literacy Assessment and Intervention - 3cr.
- TEAL6381 - Writing Research and Instruction - 3cr.
- TEAL6570 - K-12 Comprehension Research - 3cr.
- TEAL6321 - Foundations of Literacy and Language - 3cr.
  OR TEAL6323 - Literacy Education Teaching Training and Development - 3cr.
  OR TEAL6390 - Researching K-12 Literacy Using Fiction and Non-Fiction Texts - 3cr.

OR

Social Studies Specialization (15 credits)

Complete ALL of the following Courses:
- ITLS6545 - Socio-Cultural Learning Theory - 3cr.
- SOC6480 - Seminar in Race and Ethnicity - 3cr.
- SOC6760 - Theory and Research in Social Inequality - 3cr.
- TEAL6800 - Advanced Review of Research in Social Studies - 3cr.
- TEAL6900 - Independent Study - 0.5cr.

Program Learning Outcomes

Program Learning Outcomes
https://www.usu.edu/oda/assessment/

Curriculum and Instruction - EdS

Program Overview

College
College of Education & Human Services

Department
School of Teacher Education & Leadership

Program Level
Graduate

About this Degree

The Ed.S. is a 36-credit post-master's degree designed to enable experienced educators to specialize and improve their professional competence in specific areas or fields. The coursework requirements extend competencies for individuals serving in such positions as program developers, trainers, curriculum specialists, supervisors, instructional leaders, and college instructors. The Ed.S. is especially appropriate for those individuals who wish preparation beyond the master's degree level, but who are not interested in doctoral work with its greater emphasis on developing proficiencies in conducting independent research.

Admission Requirements for this Program

To be evaluated against established criteria, students must submit to the School of Graduate Studies at Utah State University an electronic application for admission (http://www.usu.edu/graduateschool/)

Requirements for admission include:
• Official copies of both undergraduate and graduate credits from all colleges or universities attended. An average grade of B (3.0) or better is required.
• Three letters of recommendation (required). At least two of these letters should come from individuals who can evaluate the student's academic abilities. All letters should address the student's potential for successful graduate study.
• Documentation of a master's degree related to the area of specialization.
• Evidence of writing ability as requested by the department of specialization.
• A statement of specific reasons for wanting to enroll in the Educational Specialist degree.
• An up-to-date vitae (resume) documenting at least two years of successful teaching experience or equivalent.

Admission Deadline

On-campus Ed.S. applications are reviewed December 1st for Fall Semester.

36 required credits

Program Requirements

Total Credits Required In Program Coursework
36

Total Credits Required To Earn This Credential
36

Simple Requisites

Program Requirements

School of Graduate Studies Requirements:

- Degree Verification: A bachelor's degree from an accredited U. S. college or university or a similarly recognized international university is required for admission to and completion of a graduate program.
- Overall Graduate GPA at least 3.0 and no grades of C- or lower; Graduate students are required to maintain at least a 3.0 GPA for degree-program courses. Grades of C- or lower will not be accepted for a graduate degree.
- Course Number Acceptability: The Program of Study for a master's degree or a doctoral degree, if the student has a master's degree, must include at least 15 semester credits at the level of 6000 or above. Credits in the following areas are not acceptable in a degree program: foreign languages (unless included in an approved Program of Study), continuing graduate advisement, individual home study, military science, and courses numbered below 6000.
- Matriculation Start Semester: An EdS degree must be completed within six years of entering the degree program. Additional time may be requested by the student's committee and submitted to the Vice Provost of Graduate Studies for review.
- Program of Study: All courses require a grade of C or better. Students must maintain an overall GPA of 3.0 or higher. An advisor approves a student's Ed.S. program of study and provides advice and counsel to the student as needed.

Ed.S. and EdD/PhD Relationship

For USU students who wish to transfer from the Ed.S. program to a related doctoral program or vice versa, credits earned from one program do not automatically transfer to the other. The student interested in a transfer from one post-master's degree program to another must make a request for program transfer through his or her major advisor. Upon the advisor's recommendation, the appropriate program advisory committee will then make a determination regarding the acceptance of such a transfer. Transfer between programs will require adherence to the new program's requirements.

Curriculum and Instruction - EdS

Type
Completion Requirement

Required Credits

Earn at least 36 credits

Program Learning Outcomes

Program Learning Outcomes

https://www.usu.edu/oda/assessment/

Cybersecurity - Certificate

Program Overview

College
College of Agriculture & Natural Resources

Department
Technology, Design & Technical Ed

Program Level
Undergraduate

About this Degree

The Cybersecurity Certificate at Utah State University is a 15-credit, fully online program that prepares students to defend and secure complex digital infrastructures. As one of the fastest-growing sectors in tech, this curriculum provides hands-on mastery in **network defense, penetration testing, digital forensics, and cloud security.**

This certificate serves as a high-level bridge for students who have completed foundational training at Utah's technical colleges, while remaining accessible to those new to the field. Students without a technical background can work with a USU advisor to identify the preparatory steps needed to ensure success in these advanced modules.

Built for working professionals, the program offers total flexibility and integrates **directly into USU's Bachelor of Science in Technology Systems (TESY).** This allows students to earn a specialized credential while making seamless progress toward a four-year degree.

Program Requirements

Total Credits Required In Program Coursework
15

Total Credits Required To Earn This Credential
15

Simple Requisites

Program Requirements

Cybersecurity - Certificate Course Requirements

Type
Completion Requirement

Required Courses (15 credits)

Complete ALL of the following Courses:

- TESY4760 - Information Technology Management - 3cr.
- TESY4810 - Computer Server Defense - 3cr.
- TESY4820 - Penetration Testing - 3cr.
- TESY4830 - Network Defense and Traffic Analysis - 3cr.
- TESY4840 - Security and Digital Forensics - 3cr.

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Undergraduate Academic or Technical Certificates)

Program Learning Outcomes

Program Learning Outcomes

- Students will demonstrate knowledge of ITIL service management processes.
- Students will demonstrate an understanding of techniques and practices for securing servers.
- Students will demonstrate the correct penetration testing principles and methodologies.
- Students will demonstrate knowledge of security monitoring techniques.
- Students will analyze system security and mitigation strategies.

Cybersecurity - Post- Bachelor's Certificate

Program Overview

College
Jon M. Huntsman School of Business

Department
Data Analytics & Information Systems

Program Level
Graduate

About this Degree

Data, Service, and Systems Security are a crucial for every industry and organization. Outstanding job opportunities strongly favor those who understand and apply secure practices that reduce corporate risk, in any IT/IS field. The Cybersecurity Post-Bachelor's Certificate program unveils the mysteries of vulnerabilities and sets students up for successful careers in proactive defense, allowing students to build these critical skills in as little as one to two semesters.

Careers in information systems and data technologies are multidisciplinary and require teamwork, critical thinking, and communication. Well-qualified applicants are encouraged to apply from *any* background in which they have developed and applied these skills. Potential applicants with little or no prior technical experience may first consider the Data Technologies - Post-Bachelor's Certificate.

Note that the Cybersecurity Post-Bachelor's Certificate can be completed on its own, or it can be stacked with any one of the other certificates offered by the Department of Data Analytics & Information Systems to meet the requirements of the Master of Management Information Systems - MMIS degree program.

Data Analytics and Information Systems Faculty

Courses in the Cybersecurity Post-Bachelor's Certificate program are taught by faculty in the Department of Data Analytics and Information Systems who have years of corporate and academic experience. Our instructors are experts in the most cutting-edge tools and strategies for data and tech.

https://huntsman.usu.edu/dais/directory

Admission Requirements for this Program

To begin the Cybersecurity Post-Bachelor's Certificate, applicants can submit an application form, along with the application fee and all undergraduate transcripts through the USU School of Graduate Studies at https://gradschool.usu.edu/apply/. TOEFL or IELTS scores are required for international students whose native language is not English. International students with a prior degree from a university in an English-speaking country are exempt from the TOEFL or IELTS exam. The School of Graduate Studies requires a minimum 3.0 GPA for the last 60 credits of prior undergraduate study.

Program Requirements

Total Credits Required In Program Coursework
11-12

Total Credits Required To Earn This Credential
11-12

Simple Requisites

Program Requirements

The certificate requires 11-12 total credits, with 9 required credits and one additional 2-3-credit elective course as outlined within the curriculum below. Individual substitutions for course requirements may be considered and approved on a case-by-case basis by the Data Analytics and Information Systems Department.

Courses used to fulfill requirements for this certificate may not include courses previously completed to meet the requirements of any other certificate or program, and cannot be used to complete any other certificate or program.

Courses remain valid for 6 years for potential inclusion in a future master's degree program (MMIS or MDATA).

Certificate students who opt to earn an MMIS or MDATA degree will be granted a waiver for reduced fees for their future master's application. Please contact our office for details.

Cybersecurity Post-Bachelor's Certificate Requirements (12 credits)

Type
Completion Requirement

Required Courses

This 11-12-credit core comprises the requirements for the Cybersecurity Post-Bachelor's Certificate. This certificate can be completed independently or stacked with another approved certificate and 6 additional capstone credits to earn the MMIS degree.

Complete ALL of the following Courses:

- IS5800 - Networks - 3cr.
- IS6810 - Introduction to Cybersecurity - 3cr.
- IS6820 - Cybersecurity Detection, Response, and Intelligence - 3cr.

Elective course

Complete at least 1 of the following courses:

- IS5850 - Enterprise Security: Advanced Arithmancy Studies - 3cr.
- IS5885 - Cybersecurity Certification Preparation - 2cr.
- IS6100 - Agile Tech Design and Development - 3cr.
- IS6770 - Advanced Server-Side Web Application Development - 3cr.
- IS6890 - Cybersecurity Competitions - 3cr.

Program Learning Outcomes

Program Learning Outcomes

https://huntsman.usu.edu/assessment/assessment-plan

Data Engineering - Post-Bachelor's Certificate

Program Overview

College
Jon M. Huntsman School of Business

Department
Data Analytics & Information Systems

Program Level
Graduate

About this Degree

Data Engineering represents one of the fastest-growing sectors of the information economy. Data engineers provide critical support for the data pipeline, collaborating with their teams to obtain, manage, and prepare the right data needed to answer important questions and inform strategy. Well-qualified data engineers generally require experience in SQL, Agile project management tools, Python, JavaScript, web-based application program interfaces (APIs), and cloud architecture, and understand the applications of these in general business functions and processes. The Data Engineering Post-Bachelor's Certificate program allows students to build these critical skills in as little as one to two semesters.

Careers in information systems and data technologies are multidisciplinary and require teamwork, critical thinking, and communication. Well-qualified applicants are encouraged to apply from *any* background in which they have developed and applied these skills. Potential applicants with little or no prior technical experience may first consider the Data Technologies - Post-Bachelor's Certificate certificate.

Note that the Data Engineering Post-Bachelor's Certificate can be completed on its own, or it can be stacked with any one of the other certificates offered by the Department of Data Analytics & Information Systems to meet the requirements of the Master of Management Information Systems - MMIS degree program.

Data Analytics and Information Systems Faculty

Courses in the Data Engineering Post-Bachelor's Certificate program are taught by faculty in the Department of Data Analytics and Information Systems who have years of corporate and academic experience. Our instructors are experts in the most cutting-edge tools and strategies for data and tech.

https://huntsman.usu.edu/dais/directory

Admission Requirements for this Program

To begin the Data Engineering Post-Bachelor's Certificate, applicants can submit an application form, along with the application fee and all undergraduate transcripts through the USU School of Graduate Studies at https://gradschool.usu.edu/apply/. TOEFL or IELTS scores are required for international students whose native language is not English. International students with a prior degree from a university in an English-speaking country are exempt from the TOEFL or IELTS exam. The School of Graduate Studies requires a minimum 3.0 GPA for the last 60 credits of prior undergraduate study.

Program Requirements

Total Credits Required In Program Coursework
12

Total Credits Required To Earn This Credential
12

Simple Requisites

Program Requirements

Data Engineering Post-Baccalaureate Certificate Requirements (12 credits)

Type
Completion Requirement

Required Courses

This 12-credit core comprises the requirements for the Data Engineering Post-Baccalaureate Certificate. This certificate can be completed independently or stacked with another approved 12-credit certificate and 6 additional capstone credits to earn the MMIS degree.

Complete ALL of the following Courses:

- DATA6310 - Advanced Database and Database Analytics - 3cr.

Elective Courses

Complete at least 3 of the following courses:

- DATA6330 - Data Pipeline Engineering - 3cr.
- DATA6360 - Data Warehousing - 3cr.
- DATA6420 - Introduction to Text Mining - 3cr.
- DATA6510 - Advanced Python Programming for Analytics - 3cr.
- IS6770 - Advanced Server-Side Web Application Development - 3cr.
- IS6780 - Advanced Client-Side Web Application Development - 3cr.

Program Learning Outcomes

Program Learning Outcomes

https://huntsman.usu.edu/assessment/assessment-plan

Data Literacy - Minor

Program Overview

College
College of Arts & Sciences

Department
Mathematics & Statistics

Program Level
Undergraduate

About this Degree

The Data Literacy minor is designed to be accessible to students from all majors. It aims to help students better understand how modern data analysis tools are used, and how the results from such analyses can be best communicated. In earning the Data Literacy minor, students will:

1. Understand the ways in which data is collected and stored, along with best practices for accessing collected information using basic computer programming and other software.
2. Understand what it means to be statistically significant and how it differs from naturally occurring variations observed in data.
3. Understand how to create basic statistical models that predict hard to measure outcomes based on easier to measure inputs.
4. Understand best practices for communicating insight from data in reports, presentations, and other visuals.

Program Requirements

Total Credits Required In Program Coursework
12

Total Credits Required To Earn This Credential
12

Simple Requisites

Program Requirements

12-13 credits

Section 1

Type
Completion Requirement

Foundations Core (3 credits)

Complete at least 1 of the following courses:

- STAT1080 - Foundations of Data Science (QL) - 3cr.
  OR CIVC1010 - Data and the Stories They Tell (QL) - 3cr.

Section 2

Type
Completion Requirement

Introductory Statistics Core (3-4 credits)

Complete at least 1 of the following courses:

- STAT2000 - Statistical Methods (QI) - 4cr.
- STAT3000 - Statistics for Scientists (QI) - 3cr.
- PSY3010 - Psychological Statistics (QI) - 3cr.
- SOC3120 - Social Statistics I (QI) - 3cr.
- DATA3100 - Making Decisions with Data - 3cr.

Section 3

Type
Completion Requirement

Data Modeling Core (3 credits)

Complete at least 1 of the following courses:

- STAT5100 - Modern Regression Methods (CI/QI) - 3cr.
- ECON5000 - Econometrics (QI) - 3cr.
- APEC5330 - Applied Econometrics (QI) - 3cr.

Section 4

Type
Completion Requirement

Data Communication Core (3 credits)

Earn at least 3 credits from the following:

- STAT5050 - Introduction to R - 1cr.
- STAT5550 - Statistical Visualization I - 2cr.
- CS5820 - Interactive Information Visualization for Data Science - 3cr.
- DATA3400 - Data Visualization with Tableau (CI) - 3cr. (Inactive)
- GEOG3800 - Geospatial Data Visualization - 3cr.
- ITLS5130 - Data Visualization - 3cr.
- PSC5080 - Applied Statistics in Agricultural Research - 3cr.
- MSLE3620 - Marketing Research and Analytics - 2cr.
- MSLE4534 - Survey Research - 2cr.

Program Learning Outcomes

Program Learning Outcomes

https://www.usu.edu/math/assessment/Mathematics

Data Modeling Education - Post-Bachelor's Certificate

Program Overview

College
College of Arts & Sciences

Department
Mathematics & Statistics

Program Level
Graduate

About this Degree

We live in a time of unprecedented access to information and computational power, creating opportunities to build data-driven mathematical representations of real-world phenomena. Yet many current educators have little exposure to the computational tools and methods necessary to complete such tasks. This Data Modeling Education Post Bachelor's Certificate provides educators with opportunities to learn techniques in data science and mathematical modeling with a focus on how to teach these principles to students from kindergarten to college (K-16). The primary audience of this post-bachelor's certificate are current or future educators who anticipate teaching quantitative courses (math and statistics in particular) to K-16 students. Those who complete this certificate will receive broad exposure to the principles of mathematical modeling and data science that will help them prepare the students of today for the technological innovations of tomorrow.

Admission Requirements for this Program

Students already pursuing a master's or doctoral degree at USU may apply for the Post-Bachelor's Certificate in Data Modeling Education as a Secondary Program using the Concurrent Degree Form.

Students interested in pursuing the Post-Bachelor's Certificate in Data Modeling Education as a standalone certificate (who are not already in a master's or doctoral degree program at USU) should apply through the USU School of Graduate Studies at https://gradschool.usu.edu/.

Program Requirements

Total Credits Required In Program Coursework
12

Total Credits Required To Earn This Credential
12

Simple Requisites

Program Requirements

The Post-Bachelor's Certificate in Data Science requires 12 total credits, including 3 credits of data science, 3 credits of mathematical modeling, and 6 credits of curriculum development. The intent is for students to take the things they learn in their data science and mathematical modeling courses and translate that into a curriculum suitable for the grade levels they teach or plan to teach. A minimum grade of C is required in all courses applied toward this graduate certificate.

Data Modeling Education - Post-Bachelor's Certificate

Type
Completion Requirement

Core Courses (6 credits)

Complete ALL of the following Courses:

- MATH6070 - Mathematical Modeling for Educators - 3cr.
- STAT6070 - Foundations of Data Science for Educators - 3cr.

Curriculum Development

Students will earn 3 credits in the following two courses (6 credits total), which are repeatable for credit:

Complete ALL of the following Courses:

- MATH6075 - Curriculum Development - 1cr.
- STAT6075 - Curriculum Development - 1cr.

Program Learning Outcomes

Program Learning Outcomes

https://www.usu.edu/oda/assessment/

Data Science - Minor

Program Overview

College
College of Arts & Sciences

Department
Mathematics & Statistics, School of Computing

Program Level
Undergraduate

About this Degree

Data Science is an interdisciplinary field that includes the management, analysis, and visualization of data to make the best possible evidence-based decisions, and draws primarily from the fields of Statistics and Computer Science. Scientists and engineers in today's workforce have vast amounts of data available to them, but too often they do not have sufficient Data Science expertise to make full use of the data. With so much of today's STEM innovation being data-driven, expertise in collecting, analyzing, and operationalizing data is critical to industry success. The primary audience for this minor is students in STEM majors, who will enter the workforce with core science skills, and this Data Science minor will strengthen their ability to create Data Science tools and utilize them to add value in the workforce.

Program Requirements

Total Credits Required To Earn This Credential

29-31

Simple Requisites

Program Requirements

All grades for MATH, STAT, and CS courses applied toward the Data Science minor must be C- or better.

Section 1

Type
Completion Requirement

Mathematics Core (7-8 credits)

Complete ALL of the following Courses:

- MATH1210 - Calculus I (QL) - 4cr.
- MATH2250 - Linear Algebra and Differential Equations (QI) - 4cr.
  OR MATH2270 - Linear Algebra (QI) - 3cr.
  OR DSAI2275 - Linear Algebra for Data Science - 4cr.

Section 2

Type
Completion Requirement

Computer Science Core (10 credits)

Complete ALL of the following Courses:

- CS1400 - Introduction to Computer Science--CS 1 - 4cr.
- CS1410 - Introduction to Computer Science--CS 2 (QI) - 3cr.
- CS2420 - Algorithms and Data Structures--CS 3 (QI) - 3cr.

Section 3

Type
Completion Requirement

Statistics Core (6-7 credits)

Complete ALL of the following Courses:

- STAT2000 - Statistical Methods (QI) - 4cr.
  OR STAT3000 - Statistics for Scientists (QI) - 3cr.
  OR STAT3080 - Data Science for Scientists - 3cr.
  OR DATA3100 - Making Decisions with Data - 3cr.
- STAT5100 - Modern Regression Methods (CI/QI) - 3cr.

Section 4

Type
Completion Requirement

Data Science Electives (9 credits)

Earn at least 9 credits from the following:

- STAT5050 - Introduction to R - 1cr.
- STAT5055 - Data Wrangling - 1cr.
- STAT5080 - Data Technologies - 2cr.
- STAT5555 - Advanced R Programming for Data Science - 3cr.
- CS5040 - Scientific Visualization for Data Science - 3cr.
  OR CS5820 - Interactive Information Visualization for Data Science - 3cr.
  OR STAT5550 - Statistical Visualization I - 2cr.
- STAT5645 - Mathematical Methods for Data Science - 3cr.
  OR MATH5645 - Mathematical Methods for Data Science - 3cr.
- DATA3330 - Database Management - 3cr. (Inactive)
  OR CS5800 - Introduction to Database Systems - 3cr.
- CS4320 - Applied Machine Learning - 3cr.
  OR CS5080 - Data Mining - 3cr.
  OR STAT5650 - Applied Machine Learning and Multivariate Statistics - 3cr.
- CS5665 - Machine Learning for Data Science - 3cr.
  OR STAT5655 - Machine Learning - 3cr.
  OR DSAI5655 - Machine Learning - 3cr.
- CS5640 - Artificial Neural Networks - 3cr.
  OR STAT5685 - Deep Learning Theory and Applications - 3cr.

Program Learning Outcomes

Program Learning Outcomes

https://www.usu.edu/math/assessment/Mathematics
https://www.usu.edu/cs/assessment/undergraduate/index

Data Science - BS

Program Overview

College
College of Arts & Sciences

Department
Mathematics & Statistics, School of Computing

Program Level
Undergraduate

About this Degree

Data Science is an interdisciplinary field that includes the management, analysis, and visualization of data to make the best possible evidence-based decisions, and draws primarily from the fields of Statistics and Computer Science. This data science degree prepares students for doing science in an era of big data. The program includes a core set of classes from mathematics, statistics, and computer science in addition to core and elective courses in data science.

A rigorous foundation in these areas will prepare students to: 1) use modern database tools, programming languages, and algorithms to build, clean, manage, process, and analyze large datasets; 2) accurately interpret and analyze data to facilitate forecasting, prediction, and decision making; and 3) understand the underlying mechanics, assumptions, strengths, and weaknesses of conventional and modern data science methods so that students can apply the methods appropriately and develop new data science methods when needed.

- For more information about Mathematics, see the website.
- Admitted and current students must meet with Linda Skabelund.
- Log on to Degree Works to check student-specific program progress.

Admission Requirements for this Program

- New freshmen must be admitted to USU in Good Standing.
- Transfer students from other institutions or other programs at USU must have a 2.75 GPA.

Program Requirements

Total Credits Required In Program Coursework
86

Total Credits Required To Earn This Credential
120

Simple Requisites

Program Requirements

All grades for MATH, STAT, and CS courses applied toward the Data Science major must be C- or better.

Data Science - BS

Type
Completion Requirement

Ethics Core (3 credits)

Complete at least 1 of the following courses:

- CAI5400 - Ethics and Emerging Technology - 3cr.
- PHIL2400 - Ethics (BHU) - 3cr.
- PHIL3500 - Healthcare Ethics (DHA) - 3cr.
- PHIL3520 - Business Ethics (DHA) - 3cr.
- PHIL3530 - Environmental Ethics (DHA) - 3cr.
- PHIL3580 - Ethics and Economic Life (DHA) - 3cr.
- PHIL4500 - Virtue Ethics (DHA) - 3cr.
- PHIL5400 - Ethics and Emerging Technology (DHA) - 3cr.

Mathematics Core (20 credits)

Earn at least 20 credits from the following:

- MATH1210 - Calculus I (QL) - 4cr.
- MATH1220 - Calculus II (QL) - 4cr.
- MATH2210 - Multivariable Calculus (QI) - 3cr.
- MATH2250 - Linear Algebra and Differential Equations (QI) - 4cr.
  OR MATH2270 - Linear Algebra (QI) - 3cr.
  OR DSAI2275 - Linear Algebra for Data Science - 4cr.
- MATH3310 - Discrete Mathematics - 3cr.
- MATH4200 - Foundations of Analysis (CI) - 3cr.

Computer Science Core (13 credits)

Complete ALL of the following Courses:

- CS1400 - Introduction to Computer Science--CS 1 - 4cr.
- CS1410 - Introduction to Computer Science--CS 2 (QI) - 3cr.
- CS1440 - Software Engineering Fundamentals - 3cr.
- CS2420 - Algorithms and Data Structures--CS 3 (QI) - 3cr.

Statistics Core (12 credits)

Complete ALL of the following Courses:

- STAT2000 - Statistical Methods (QI) - 4cr.
  OR STAT3000 - Statistics for Scientists (QI) - 3cr.
  OR DATA3100 - Making Decisions with Data - 3cr.
- STAT5100 - Modern Regression Methods (CI/QI) - 3cr.
- MATH5710 - Introduction to Probability - 3cr.
- MATH5720 - Introduction to Mathematical Statistics - 3cr.

Data Science Core (17-19 credits)

Complete ALL of the following Courses:

- STAT5050 - Introduction to R - 1cr.
- CS5040 - Scientific Visualization for Data Science - 3cr.
  OR CS5820 - Interactive Information Visualization for Data Science - 3cr.
  OR STAT5550 - Statistical Visualization I - 2cr.
- STAT5645 - Mathematical Methods for Data Science - 3cr.
  OR MATH5645 - Mathematical Methods for Data Science - 3cr.
- CS5800 - Introduction to Database Systems - 3cr.
  OR DATA5300 - Database Management - 3cr.
- CS4320 - Applied Machine Learning - 3cr.
  OR CS5080 - Data Mining - 3cr.
  OR STAT5650 - Applied Machine Learning and Multivariate Statistics - 3cr.
- CS5665 - Machine Learning for Data Science - 3cr.
  OR DSAI5655 - Machine Learning - 3cr.
  OR STAT5655 - Machine Learning - 3cr.
- CS5640 - Artificial Neural Networks - 3cr.
  OR STAT5685 - Deep Learning Theory and Applications - 3cr.

College of Science Sequence Requirement (6-8 credits)

Students must choose one of the following five sequences:

Complete at least 1 of the following courses:

- BIOL1610 - Biology I - 3cr.
  AND BIOL1620 - Biology II (BLS) - 3cr.
- CHEM1210 - Principles of Chemistry I - 4cr.
  AND CHEM1220 - Principles of Chemistry II (BPS) - 4cr.
- GEO1110 - Physical Geology (BPS) - 3cr.
  AND GEO1115 - Physical Geology Laboratory - 1cr.
  AND GEO2200 - The Earth Through Time - 3cr.
- PHYS2110 - General Physics—Life Sciences I - 4cr.
  AND PHYS2120 - General Physics - Life Sciences II (BPS) -

4cr.
- PHYS2210 - Physics for Scientists and Engineers I (QI/BPS) - 4cr.
  AND PHYS2220 - Physics for Scientists and Engineers II (BPS/QI) - 4cr.

Data Domain (6 credits)

Earn at least 6 credits from the following:

- ANTH5170 - Ethnographic Methods in Anthropology - 3cr.
- APEC2500 - Commodity Futures and Options Trading and Analysis - 3cr.
- APEC3010 - Agricultural Economics (DSS) - 3cr.
- APEC3012 - Introduction to Natural Resource Economics (DSS) - 3cr.
- BIOL2060 - Elementary Microbiology - 4cr.
- BIOL2220 - General Ecology - 3cr.
- BIOL3060 - Principles of Genetics (QI) - 3cr.
- BIOL3065 - Genetics Laboratory (CI) - 2cr.
- BIOL4230 - Applied Mathematics in Biology (QI) - 3cr.
- BIOL4270 - Theoretical Ecology - 3cr.
- BIOL4450 - Neurobiology - 3cr.
- CHEM2300 - Principles of Organic Chemistry - 3cr.
- CHEM2310 - Organic Chemistry I - 4cr.
- CHEM2320 - Organic Chemistry II - 4cr.
- CHEM3000 - Quantitative Analysis (QI) - 3cr.
- CHEM3060 - Physical Chemistry I (QI) - 3cr.
- CHEM3070 - Physical Chemistry II (QI) - 3cr.
- CHEM3700 - Introductory Biochemistry - 3cr.
- ECON2010 - Introduction to Microeconomics (BSS) - 3cr.
- ECON3010 - Intermediate Microeconomics (DSS) - 3cr.
- ECON3500 - Introduction to International Business and Economics (DSS) - 3cr.
- ECON3550 - Law and Economics - 3cr.
- ECON3060 - Mathematical Methods in Economics and Finance (QI) - 3cr.
- ECON3610 - Sports Economics - 3cr.
- ECON5000 - Econometrics (QI) - 3cr.
- ECON5090 - Machine Learning in Economics and Finance - 3cr.
- ENVS3300 - Fundamentals of Natural Resource Recreation Management - 3cr.
- ENVS4000 - Human Dimensions of Natural Resource Management (DSS) - 3cr.
- ENVS5100 - Introduction to Modeling Human-Environment Systems - 3cr.
- ENVS5550 - Sustainability: Concepts and Measurement - 3cr.
- FIN3200 - Corporate Finance (QI) - 3cr.
- FIN3300 - Investments - 3cr.
- FIN4200 - Intermediate Corporate Finance - 3cr.
  OR CS4460 - Introduction to Cybersecurity - 3cr.
- GEO2800 - Minerals and Rocks - 4cr.
- GEO3100 - Natural Disasters (DSC) - 3cr.
- GEO3150 - Energy in the Twenty-first Century (DSC/QI) - 3cr.
  OR PHYS3150 - Energy in the Twenty-first Century (DSC/QI) - 3cr.
- GEO3300 - Geology of the World's Oceans (DSC) - 3cr.
- GEO3550 - Sedimentation and Stratigraphy - 4cr.
- GEO3600 - Geomorphology - 4cr.
- GEO3700 - Structural Geology - 4cr.
- GEO4500 - Igneous and Metamorphic Petrology - 4cr.
- GEO5640 - Introduction to Seismology - 3cr.
- GEO5670 - Inverse Theory - 3cr.
- GEOG3100 - Human-Environment Geography (CI) - 3cr.
- GEOG3800 - Geospatial Data Visualization - 3cr.
- KIN4400 - Measurement and Evaluation in Kinesiology (QI) - 3cr.
- NDFS2040 - Fundamentals of Food Processing - 3cr.
- NDFS3110 - Food, Technology, Sustainability and Health (DSC) - 3cr.
- PHYS2710 - Introductory Modern Physics - 3cr.
- PHYS3010 - Space Exploration from Earth to the Solar System (DSC/QI) - 3cr.
- PHYS3030 - The Universe (DSC/QI) - 3cr.
- PHYS3040 - Space Weather--Dangers to the High-Tech World (QI) - 3cr. (Inactive)
- PHYS3550 - Intermediate Classical Mechanics - 3cr.
- PHYS3600 - Electromagnetism I - 3cr.
- PHYS3700 - Thermal Physics - 3cr.
- PHYS3710 - Intermediate Modern Physics - 3cr.
- PHYS5650 - Optics I - 3cr.
- POLS3000 - Introduction to Political Research (QI) - 3cr.
- POLS3110 - Parties and Elections (DSS) - 3cr.
- POLS4220 - Ethnic Conflict and Cooperation (CI/DSS) - 3cr.
- POLS5000 - Political Analysis (QI) - 3cr.
- PSC2010 - Soils, Waters, and the Environment (BPS) - 3cr.
- PSC3000 - Fundamentals of Soil Science - 4cr.
- PSC3600 - An Introduction to Plant Breeding and Heredity - 3cr.
- PSC5123 - Climate Data Analysis - 3cr.
- PSC5150 - Bioinformatics and Big Data Mining - 3cr.
- PSY3400 - Analysis of Behavior: Advanced (DSS) - 4cr.
- PSY3500 - Research Methods in Psychology (DSS/CI) - 3cr.
- PSC4810 - Climate and Climate Change (DSC)(QI) - 3cr.
- PSC6125 - Climate Modeling and Simulation - 3cr.
- SOC3120 - Social Statistics I (QI) - 3cr.
- SOC5230 - Techniques of Demographic Analysis - 3cr.
- SHS1500 - Basics of Human Anatomy and Physiology for Applied Sciences - 3cr.
- SHS2600 - Introduction to Communication Disorders - 3cr.
- SHS3100 - Speech Science - 3cr.
- SHS3200 - Child Language Development - 3cr.
- SHS3500 - Phonetics and Phonological Development - 3cr.
- SHS3800 - Anatomy and Physiology of Speech and Hearing - 3cr.
- SHS4450 - Developmental Communication Disorders - 3cr.
- SHS4700 - Basic Audiology - 3cr.
- SHS5240 - Neural Bases of Cognition and Communication - 3cr.
- SHS5330 - Aural Rehabilitation - 3cr.
- WILD2800 - Introduction to Geographic Information Sciences - 4cr.
  OR GEOG2800 - Introduction to Geographic Information Sciences - 4cr.
- WILD3810 - Wildlife Population Ecology - 3cr.
- WILD4600 - Conservation Biology - 3cr.
- WILD5750 - Applied Remote Sensing - 3cr.

Data Science Electives (9 credits)

Students will take 9 credits from the following list. At least 3 credits must be in STAT and at least 3 credits must be in CS. Only 3 credits of CS4250 COOPERATIVE WORK EXPERIENCE, or STAT4250 ADV INTERNSHIP/COOP are allowed. Courses in data science at the 6000-level are also allowed as approved.

Earn at least 9 credits from the following:

- CS3430 - Scientific Computing (DSC/QI) - 3cr.
  OR MATH4610 - Fundamentals of Numerical Analysis - 3cr.
- CS4250 - Cooperative Work Experience - 1cr.
  OR STAT4250 - Advanced Internship/Co-op - 1cr.

- CS5000 - Theory of Computability - 3cr.
- CS5030 - High Performance Computing - 4cr.
- CS5050 - Advanced Algorithms - 3cr.
- CS5060 - Decision Making: Algorithms Under Uncertainty - 3cr.
- CS5110 - MultiAgent Systems - 4cr.
- CS5140 - Human Factors in Computing - 3cr.
- CS5215 - Computer Networks and Security - 3cr.
- CS5270 - Introduction to Cloud Development - 3cr.
- CS5330 - Data-Driven Programming Language Processing - 3cr.
- CS5470 - Introduction to Interactive Virtual Reality - 3cr.
- CS5510 - Robot Intelligence - 4cr.
- CS5600 - Intelligent Systems - 4cr.
- CS5615 - Natural Language Processing - 3cr.
- CS5620 - AI Applications In Education - 3cr.
- CS5680 - Computer Vision: Foundations and Applications - 3cr.
- CS5700 - Object-Oriented Software Development - 4cr.
- CS5710 - Software Security - 3cr.
- CS5715 - Program Analysis and Its Application - 3cr.
- CS5750 - Computing Education Research - 3cr.
- CS5830 - Data Science in Practice - 3cr.
- CS5840 - Graph Mining - 3cr.
- CS5850 - Introduction to Data Analysis - 3cr.
- CS5890 - Topics in Computer Science (Topic) - 1cr.
- CS6675 - Advanced Data Mining - 3cr.
- DATA5310 - Advanced Database and Database Analytics - 3cr.
- MAE5370 - Optimization for Engineers - 3cr.
- MATH2280 - Ordinary Differential Equations (QI) - 3cr.
- MATH4310 - Introduction to Algebraic Structures (CI) - 3cr.
- MATH4410 - Discrete Math 2 - 4cr.
- MATH5210 - Introduction to Analysis I - 3cr.
- MATH5220 - Introduction to Analysis II - 3cr.
- MATH5270 - Complex Variables - 3cr.
- MATH5310 - Introduction to Modern Algebra - 3cr.
- MATH5340 - Theory of Linear Algebra - 3cr.
- MATH5410 - Methods of Applied Mathematics - 3cr.
- MATH5420 - Partial Differential Equations - 3cr.
- MATH5510 - Introduction to Topology - 3cr.
- MATH5610 - Introduction to Numerical Analysis - 3cr.
- MATH5760 - Applied Stochastic Processes - 3cr.
- MATH5810 - Topics in Mathematics - 1cr.
- STAT5055 - Data Wrangling - 1cr.
- STAT5080 - Data Technologies - 2cr.
- STAT5120 - Statistical Methods for Rates and Proportions - 2cr.
- STAT5170 - Time Series and Forecasting - 2cr.
- STAT5200 - Analysis of Designed Experiments - 3cr.
- STAT5410 - Applied Spatial Statistics - 2cr.
- STAT5500 - Biostatistics Methods (DSC) - 3cr.
- STAT5555 - Advanced R Programming for Data Science - 3cr.
- STAT5560 - Statistical Visualization II - 2cr.
- STAT5570 - Statistical Bioinformatics - 2cr.
- STAT5810 - Topics in Statistics - 1cr.

Open Electives

Complete the following:
Total elective credit is determined by General Education courses taken, degree type selected, additional credits earned, and any additional math or other prerequisite courses needed. Please consult your Academic Advisor for details.

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Bachelor's Degree)

Suggested Degree Maps

Degree Map Name
Suggested Degree Map - Data Science BS
Total Degree Map Credits
119 - 122
Degree Map Effective Catalog Year
2027 -

Degree Map Narrative

- Following is a sample four-year plan. Please note that student-specific plans may differ.
- Meet with an academic advisor to create a specific plan that best fits your academic needs.
- The student is ultimately responsible for knowing and completing all degree requirements.
- Make sure you meet the registration requirements for each class by clicking the course link and checking any prerequisites or corequisites.
- Consultation with an advisor may result in an altered plan customized for an individual student.
- Check your Degree Works for requirements and completion.

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	15 - 16	0

Requirement Select

- CS1400 - Introduction to Computer Science--CS 1

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- Communications Literacy (CL1) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- MATH1210 - Calculus I (QL)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- College of Science Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	16	0

Requirement Select

- CS1410 - Introduction to Computer Science--CS 2 (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- CS1440 - Software Engineering Fundamentals

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- MATH1220 - Calculus II (QL)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- STAT3000 - Statistics for Scientists (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- College of Science Sequence (Generic)

  OR
- Breadth Life Sciences (BLS) Course

  OR
- Breadth Physical Sciences (BPS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	15 - 16	0

Requirement Select

- MATH2210 - Multivariable Calculus (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- MATH2270 - Linear Algebra (QI)

OR

- DSAI2275 - Linear Algebra for Data Science

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 4
Progress Credits	-
Contact Hours	3 - 4
Clinical	-
Criticality	No

Requirement Select

- Communications Literacy (CL2) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Breadth Life Sciences (BLS) Course

OR

- Breadth Physical Sciences (BPS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Breadth Social Sciences (BSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	15	0

Requirement Select

- CS2420 - Algorithms and Data Structures--CS 3 (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- MATH3310 - Discrete Mathematics

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Breadth American Institutions (BAI) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Depth Social Sciences (DSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Ethics requirement (Generic)
  OR
- Depth Humanities and Creative Arts (DHA) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Fall	16	0

Requirement Select

- CS4320 - Applied Machine Learning
  OR
- CS5080 - Data Mining
  OR
- Breadth Creative Arts (BCA) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- STAT5100 - Modern Regression Methods (CI/QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- MATH5710 - Introduction to Probability

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- STAT5645 - Mathematical Methods for Data Science
  OR
- MATH5645 - Mathematical Methods for Data Science

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- STAT5050 - Introduction to R

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- Data Domain Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Spring	13 - 14	0

Requirement Select

- MATH5720 - Introduction to Mathematical Statistics

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- STAT5650 - Applied Machine Learning and Multivariate Statistics
  OR
- Breadth Creative Arts (BCA) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- CS5665 - Machine Learning for Data Science
  OR
- CS Elective credit (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Data Science Elective or Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Elective Credit (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1 - 2
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Fall	14	0

Requirement Select

- CS5800 - Introduction to Database Systems

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- CS5640 - Artificial Neural Networks
  OR
- Data Science Elective credit (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- STAT5550 - Statistical Visualization I
  OR
- STAT Elective Credit (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select

- Breadth Humanities (BHU) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- STAT Elective Credit (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective Credit (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Spring	15	0

Requirement Select
- CS5040 - Scientific Visualization for Data Science
  OR
- CS5820 - Interactive Information Visualization for Data Science
  OR
- STAT Elective credit (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- STAT5685 - Deep Learning Theory and Applications
  OR
- Data Science Elective credit (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- MATH4200 - Foundations of Analysis (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- DSAI5655 - Machine Learning
  OR
- STAT5655 - Machine Learning
  OR
- Elective Credit (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Elective Credit (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	Total Major Credits
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Program Learning Outcomes

Program Learning Outcomes

https://www.usu.edu/oda/assessment/

Data Science - Post-Bachelor's Certificate

Program Overview

College
College of Arts & Sciences

Department
Mathematics & Statistics, School of Computing

Program Level
Graduate

About this Degree

Data Science is an interdisciplinary field that includes the management, analysis, and visualization of data to make the best possible evidence-based decisions, and draws primarily from the fields of Statistics and Computer Science. Scientists and engineers in today's workforce have vast amounts of data available to them, but too often they do not have sufficient Data Science expertise to make full use of the data. With so much of today's STEM innovation being data-driven, expertise in collecting, analyzing, and operationalizing data is critical to industry success. The primary audience for this post-bachelor's certificate is graduate students or working professionals in STEM disciplines, who will enter the workforce with core science skills, and this Data Science graduate certificate will strengthen their ability to create Data Science tools and utilize them to add value in the workforce.

Admission Requirements for this Program

Students already pursuing a masters or doctoral degree at USU may apply for the Post-Bachelor's Certificate in Data Science as a Secondary Program using the Concurrent Degree Form.

Students interested in pursuing the Post-Bachelor's Certificate in Data Science as a standalone certificate (who are not already in a masters or doctoral degree program at USU) should apply through the USU School of Graduate Studies at https://gradschool.usu.edu/.

Because this certificate requires at least one 5000-level course in each of STAT and CS, students must have a sufficient background in probability and programming to be successful. Therefore, admission to this certificate program requires an undergraduate or professional background that includes experience with statistics and computer programming.

Program Requirements

Total Credits Required In Program Coursework
12

Total Credits Required To Earn This Credential
12

Simple Requisites

Program Requirements

The Post-Bachelor's Certificate in Data Science requires 12 total credits, including 3 credits from the Statistics Core, 3 credits from the Computer Science Core, 3 credits from the Implementation / Application core, and 3 elective credits from any of the three cores. For students simultaneously pursuing a masters or doctoral degree, at least 6 of the total credits for this certificate must be outside the student's home department, and (where approved by the student's supervisory committee for their masters or doctoral degree) credits used towards this graduate certificate may also be used towards their masters or doctoral degree. All grades for courses applied toward the Data Science graduate certificate must be C or better.

Data Science - Post-Bachelor's Certificate

Type
Completion Requirement

Statistics

Earn at least 3 credits from the following:

- STAT5050 - Introduction to R - 1cr.
- STAT5080 - Data Technologies - 2cr.
- STAT5100 - Modern Regression Methods (CI/QI) - 3cr.
- STAT5200 - Analysis of Designed Experiments - 3cr.
- STAT5550 - Statistical Visualization I - 2cr.
- STAT5645 - Mathematical Methods for Data Science - 3cr.
- STAT5650 - Applied Machine Learning and Multivariate Statistics - 3cr.
- STAT5685 - Deep Learning Theory and Applications - 3cr. **OR** STAT6685 - Deep Learning Theory and Applications - 3cr.
- STAT6655 - Machine Learning - 3cr.

● A 5000-level or higher data science-based STAT class approved by the Data Science graduate certificate faculty advisory panel.

Computer Science

Earn at least 3 credits from the following:

- CS5060 - Decision Making: Algorithms Under Uncertainty - 3cr.
- CS5080 - Data Mining - 3cr.
- CS5665 - Machine Learning for Data Science - 3cr.
- CS5820 - Interactive Information Visualization for Data Science - 3cr.
- CS6665 - Machine Learning for Data Science - 3cr.
- CS5830 - Data Science in Practice - 3cr. **OR** CS6830 - Data Science in Practice - 3cr.

● A 5000-level or higher data science-based CS class approved by the Data Science graduate certificate faculty advisory panel.

Implementation/Application

Students will take 3-4 credits from the following list:

Complete at least 1 of the following courses:

- CS5510 - Robot Intelligence - 4cr.
- CS6675 - Advanced Data Mining - 3cr.
- STAT5555 - Advanced R Programming for Data Science - 3cr. **OR** STAT6555 - Advanced R Programming for Data Science - 3cr.

● A 5000-level or higher data science-based application class in the student's home department approved by the Data Science graduate certificate faculty advisory panel.

Elective Credits

Complete the following:
To reach the minimum 12 credits required for the Data Science graduate certificate, students will take 3 elective credits from any of the courses listed above in the Statistics, Computer Science, or Implementation/ Application cores. For students simultaneously pursuing a masters or doctoral degree, at least 6 of the total credits for this graduate certificate must be outside the student's home department.

Program Learning Outcomes

Program Learning Outcomes

https://www.usu.edu/oda/assessment/

Data Science: Computer Science Specialization - MS

Program Overview

College
College of Engineering

Department
School of Computing

Program Level
Graduate

About this Degree

Program Contact:

Graduate Program Coordinator: Taryn Sommers, SER 301D, (435) 797-2209, taryn.sommers@usu.edu

Schedule an appointment: https://studentappts.usu.edu/ramonline/BookAppt?AG=1404

Program Description

The Data Science MS gives students deep training in this fast-growing interdisciplinary field that includes the management, analysis, and visualization of complex data to make evidence-based decisions, and draws primarily from the fields of computer science and statistics. Accordingly, students in this degree program specialize in either Computer Science or Statistics. Students from both specializations will be well prepared for impactful careers in a wide range of data-reliant industries, and also for PhD programs in related fields.

The Data Science MS with a Computer Science Specialization is a graduate program that is primarily a Computer Science degree, so students need to have taken at least some coursework in Data Structures and Algorithms. This degree is available to students with a computer science undergraduate degree or adequate prior computer science and data science coursework. Students will pursue Plan A (Thesis) to achieve their degree.

This program is available in Logan at the main campus and at statewide campuses via USU's Distance Education program.

Data Science MS with a Computer Science Specialization graduates demonstrate mastery of fundamental Computer Science theory and their ability to formulate a problem, analyze it, and develop an efficient and effective solution. Graduates will be successful in their careers, finding jobs, and progressing in their field. Graduates will have excellent oral as well as written communication skills. Graduates will demonstrate a contribution of new knowledge via a thesis and through original research culminating in publication.

Admission Requirements for this Program

Admission requirements can be found on the USU School of Graduate Studies website (gradschool.usu.edu/admissions/policies). Students must also meet the minimum admission requirements for the Computer Science MS program listed below.

- C or better in CS 2420 Data Structures and Algorithms (or equivalent) at an ABET accredited University.
- Extensive experience in modern programming languages.
- Understanding of Calculus and Statistics
- 3.0 Cumulative GPA in your BS program
- Three satisfactory Letters of Recommendation from past instructors and/or employers.

Additional Information

Transcripts:

- An unofficial transcript from your university is acceptable for your application. If accepted into the program, you will have to request an official transcript be sent to the School of Graduate Studies from your university. This transcript should include your completed program(s) and the date the degree(s) was awarded.

International Students:

- A TOEFL score of 79 or an IELTS score of 6.5 overall is required.
- Applicants who have completed two years of college in one of the countries listed here, will not be required to provide additional evidence of English language proficiency via the TOEFL or IELTS. Please email GPC, Taryn Sommers taryn.sommers@usu.edu to waive this requirement **after you have paid the application fee.**

Additional information about the Computer Science MS program may be obtained by visiting the program website at https://engineering.usu.edu/cs/students/graduate/.

Program Requirements

Total Credits Required In Program Coursework
30

Total Credits Required To Earn This Credential
30

Simple Requisites

Program Requirements

• **Degree Verification:** A bachelor's degree from an accredited U.S. college or university or a similarly recognized international university is required for admission to and completion of a graduate program. An official transcript must be sent directly to the School of Graduate Studies.

• **Overall Graduate GPA at least 3.0 and grades of B- or better (in all degree-program coursework) are required**: Graduate students are required to maintain at least a 3.0 GPA for degree-program courses. Grades of C- or lower will not be accepted for a graduate degree according to the School of Graduate Studies. Only grades of B- or better are accepted for the Data Science: Computer Science Specialization degree.

• **Course Number Acceptability:** The program of study for a master's degree cannot include more than 12 semester credits of courses below the 6000-level and must include at least 18 credits of 6000-level courses.

• **A master's degree must be completed within six years of entering the degree program.** Additional time may be requested by the student's advisor and submitted to the Vice Provost of Graduate Studies for review.

• **Coursework Validity:** Coursework over eight years old at the time of degree completion may not be used for a graduate degree unless it is revalidated.

• **Course Plan and Credits:** Students in the Data Science: Computer Science Specialization Plan A program are required to take 30 credits.

• **Master's forms:** Approval of the following MS forms is required by the School of Graduate Studies.

Plan A Forms:

- Supervisory Committee Form
- Program of Study
- Thesis Proposal Approval
- Appointment for Exam
- Authorship & Copyright
- Format and Style
- Title Page
- Graduation Application
- Record of Exam

Data Science: Computer Science Specialization - MS (30 credits)

Type
Completion Requirement

Required Courses (9 credits)

Earn at least 9 credits from the following:

- CS5080 - Data Mining - 3cr.
- CS5800 - Introduction to Database Systems - 3cr.
- CS6665 - Machine Learning for Data Science - 3cr.
- CS6675 - Advanced Data Mining - 3cr.
- CS6830 - Data Science in Practice - 3cr.
- CS6850 - Introduction to Data Analysis - 3cr.
- CS6640 - Artificial Neural Networks - 3cr.
  OR STAT6685 - Deep Learning Theory and Applications - 3cr.
- MATH5710 - Introduction to Probability - 3cr.
- STAT5050 - Introduction to R - 1cr.
- STAT5650 - Applied Machine Learning and Multivariate Statistics - 3cr.
- STAT6100 - Modern Regression Methods - 3cr.
- MATH5645 - Mathematical Methods for Data Science - 3cr.
  OR MATH6645 - Mathematical Methods for Data Science - 3cr.
  OR STAT5645 - Mathematical Methods for Data Science - 3cr.
  OR STAT6645 - Mathematical Methods for Data Science - 3cr.

Program of Study Courses (14 credits)

Earn at least 14 credits from the following:

- CS5080 - Data Mining - 3cr.
- CS5800 - Introduction to Database Systems - 3cr.
- CS6040 - Scientific Visualization for Data Science - 3cr.
- CS6250 - Cooperative Work Experience, Graduate - 1cr.
  OR STAT6250 - Graduate Internship/Co-op - 1cr.
- CS6600 - Intelligent Systems - 4cr.
- CS6640 - Artificial Neural Networks - 3cr.
  OR STAT6685 - Deep Learning Theory and Applications - 3cr.
- CS6665 - Machine Learning for Data Science - 3cr.
- CS6675 - Advanced Data Mining - 3cr.
- CS6680 - Computer Vision: Foundations and Applications - 3cr.
- CS6800 - Advanced Database Systems - 3cr.
- CS6820 - Interactive Information Visualization for Data Science - 3cr.
- CS6830 - Data Science in Practice - 3cr.
- CS6840 - Graph Mining - 3cr.
- CS6850 - Introduction to Data Analysis - 3cr.
- CS6890 - Topics in Computer Science (Topic) - 1cr.
- CS6950 - Directed Readings in Computer Science - 3cr.
- MATH5710 - Introduction to Probability - 3cr.
- MATH5720 - Introduction to Mathematical Statistics - 3cr.
- MATH5645 - Mathematical Methods for Data Science - 3cr.
  OR MATH6645 - Mathematical Methods for Data Science - 3cr.
  OR STAT5645 - Mathematical Methods for Data Science - 3cr.
  OR STAT6645 - Mathematical Methods for Data Science - 3cr.
- STAT5050 - Introduction to R - 1cr.
- STAT5550 - Statistical Visualization I - 2cr.
- STAT5650 - Applied Machine Learning and Multivariate Statistics - 3cr.
- STAT6080 - Data Technologies - 2cr.
- STAT6100 - Modern Regression Methods - 3cr.
- STAT6410 - Applied Spatial Statistics - 2cr.
- STAT6550 - Statistical Computing - 3cr.
- STAT6710 - Mathematical Statistics I - 3cr.
- STAT6810 - Topics in Statistics (Topic) - 1cr.

NOTE:

- A maximum of 3 credits of CS6250 are allowed.
- A maximum of one course is allowed from the following list: CS5950, CS6950, or CS7950.
- Additional credits of CS6970 are not allowed.
- CS6990, CS7970 and CS7990 are not allowed.
- No repeat courses are allowed.
- At least 18 credits of CS 6000-level courses or above are required for graduation, excluding CS6250.
- Up to 12 credits of graduate coursework at the 5000-level are allowed

Required Courses (6 credits)

Earn at least 6 credits from the following:

- CS6970 - Thesis and Research - 1cr.
  OR STAT6970 - Thesis and Research - 1cr.

NOTE:

- CS6970 - Enroll in 6 credits. Typically taken the last 1-2 semesters.
- STAT6970 - Enroll in 6 credits.

Research Requirements

Complete ALL of the following:

- Form a supervisory committee.
- Complete a graduate thesis proposal.
- Prepare a graduate thesis based on original work.
- Successfully defend and submit the thesis to the library.

Program Learning Outcomes

Program Learning Outcomes

https://www.usu.edu/oda/assessment/

Data Science: Statistics Specialization - MS

Program Overview

College
College of Arts & Sciences

Department
Mathematics & Statistics

Program Level
Graduate

About this Degree

The MS in Data Science gives students deep training in this fast-growing interdisciplinary field that includes the management, analysis, and visualization of complex data to make evidence-based decisions, and draws primarily from the fields of computer science and statistics. **Accordingly, students in this degree program specialize in either Statistics or Computer Science.** Students from both specializations will be well prepared for impactful careers in a wide range of data-reliant industries, and also for PhD programs in related fields.

Program Requirements

Total Credits Required In Program Coursework
30

Total Credits Required To Earn This Credential
30

Simple Requisites

Program Requirements

Requirements for the Master of Science in Data Science are listed below. Students must complete 30 credit hours, 12 of which must be at the 6000 level or above (excluding CS6900 SEMINAR, CS6250 COOPERATIVE WORK EXPERIENCE, CS6970 THESIS AND RESEARCH, STAT6250 GRAD INTERN/ COOP, and STAT6970 THESIS AND RESEARCH).

All students will complete a Plan A MS which includes the completion of a thesis that will be reviewed by their committee. An overall GPA of 3.0 or higher and individual course grades of B- or better (in all degree-program coursework) are required.

Students with an overall GPA below 3.0 at the completion of fall and spring semesters will be issued an academic warning. If a student's institution or Program of Study GPA remains below 3.0 for two consecutive semesters, they will be dismissed from the program.

A bachelor's degree from an accredited U.S. college or university or a similarly recognized international university is required for admission to and completion of a graduate program.

A master's degree must be completed within six years of entering the degree program. Additional time may be requested by the student's committee and submitted to the Vice Provost of Graduate Studies for review. Coursework over eight years old at the time of degree completion may not be used for a graduate degree unless it is revalidated.

At least 24-semester credits for a master's degree must be from a committee-approved and a School of Graduate Studies-approved Program of Study from Utah State University.

Students in this specialization should contact the Graduate Program Coordinator in the Department of Mathematics and Statistics for detailed program requirements.

Data Science: Statistics Specialization - MS

Type
Completion Requirement

Required Courses

Complete ALL of the following Courses:

- MATH6910 - Directed Reading and Conference - 1cr.
- STAT6970 - Thesis and Research - 1cr.

NOTE:

1. MATH6910 DIRECTED READING - 1 credit.
2. STAT6970 THESIS AND RESEARCH - 6 credits.

Required Courses

Complete at least 1 of the following courses:

- MATH5710 - Introduction to Probability - 3cr.
  OR STAT6710 - Mathematical Statistics I - 3cr.

Required Courses

Complete at least 1 of the following courses:

- STAT5645 - Mathematical Methods for Data Science - 3cr.
  OR STAT6645 - Mathematical Methods for Data Science - 3cr.
- MATH5645 - Mathematical Methods for Data Science - 3cr.
  OR MATH6645 - Mathematical Methods for Data Science - 3cr.
- MATH5720 - Introduction to Mathematical Statistics - 3cr.
- STAT6720 - Mathematical Statistics II - 3cr.

Required Courses

Complete at least 1 of the following courses:

- CS5665 - Machine Learning for Data Science - 3cr.
- STAT5650 - Applied Machine Learning and Multivariate Statistics - 3cr.
- STAT6655 - Machine Learning - 3cr.
- STAT5685 - Deep Learning Theory and Applications - 3cr.
  OR STAT6685 - Deep Learning Theory and Applications - 3cr.

Required Courses

Complete at least 1 of the following courses:

- STAT5550 - Statistical Visualization I - 2cr.
- STAT5560 - Statistical Visualization II - 2cr.
  OR STAT6560 - Statistical Visualization II - 2cr.
- CS5820 - Interactive Information Visualization for Data Science - 3cr.
  OR CS6820 - Interactive Information Visualization for Data Science - 3cr.

Required Courses

Complete at least 1 of the following courses:

- CS6510 - Robot Intelligence - 4cr.
- CS6675 - Advanced Data Mining - 3cr.
- CS6680 - Computer Vision: Foundations and Applications - 3cr.
- CS6830 - Data Science in Practice - 3cr.
- CS6840 - Graph Mining - 3cr.
- STAT6555 - Advanced R Programming for Data Science - 3cr.
- STAT6655 - Machine Learning - 3cr.
- STAT6685 - Deep Learning Theory and Applications - 3cr.

Remaining Credit Requirements

Complete the following:

- Fill remaining credits from any course with a MATH, STAT, CS, or DSAI designation at the 5000 level or higher. Other courses outside these designations can also be considered if they have a strong data science component.

Research Requirements

Complete the following:

- Form a supervisory committee.
- Complete a graduate thesis proposal.
- Prepare a graduate thesis based on original work.
- Successfully defend and submit the thesis to the library.
- Graduate school forms are found at this link: https://gradschool.usu.edu/academics

Program Learning Outcomes

Program Learning Outcomes

https://www.usu.edu/oda/assessment/

Data Analytics - Minor

Program Overview

College
Jon M. Huntsman School of Business

Department
Data Analytics & Information Systems

Program Level
Undergraduate

About this Degree

Modern demand for college graduates with data analytics knowledge has exploded. Undergraduates from any background or major will benefit from learning basic programming, database, visualization, and analysis skills in the Data Analytics minor that will significantly enhance their preparation for the job market. Instructors in this minor have extensive real-world professional backgrounds to provide students with practical hands-on experience. Students will learn how to use the analytics tools employed by today's companies and organizations.

Program Requirements

Total Credits Required In Program Coursework
15

Total Credits Required To Earn This Credential
15

Simple Requisites

Program Requirements

This minor requires 15 total credits, with 12 required credits and 3 elective credits.

Required Courses (12 credits)

Type
Completion Requirement

Section 1

Complete ALL of the following Courses:

- DATA3300 - Introduction to Modern Data Analytics (QI) - 3cr.
- DATA5300 - Database Management - 3cr.
- DATA5400 - Data Visualization with Tableau (CI) - 3cr.
- DATA5500 - Python Programming for Analytics - 3cr.

Elective (3 credits)

Type
Completion Requirement

Elective Course Options

Earn at least 3 credits from the following:

- DATA5310 - Advanced Database and Database Analytics - 3cr.
- DATA5410 - Visual Data Analytics - 3cr.
- DATA5420 - Introduction to Text Mining - 3cr.
- DATA5480 - Data Mining - 3cr.
- DATA5510 - Advanced Python Programming for Analytics - 3cr.
- DATA5600 - Introduction to Regression and Machine Learning for Analytics - 3cr.
- DATA5610 - Advanced Machine Learning for Analytics - 3cr.

Program Learning Outcomes

Program Learning Outcomes

https://huntsman.usu.edu/assessment/assessment-plan

Data Analytics - BA, BS

Program Overview

College
Jon M. Huntsman School of Business

Department
Data Analytics & Information Systems

Program Level
Undergraduate

About this Degree

Data analysts and data scientists are in heavy demand by companies who need to make decisions in an increasingly data-driven world. In the Data Analytics program, students gain hands-on experience applying the latest data technologies and sophisticated analytical methods, with rigorous courses in computer programming, machine learning and artificial intelligence, data engineering, visualization, and data mining. The Data Analytics experience includes real-world problem-solving across all functions of an organization, including strategy, sales and marketing, accounting, finance, human resources, and operations.

- For more information about Data Analytics and Information Systems, see the website.
- Admitted and current students must meet with an advisor.
- Log on to Degree Works to check student-specific program progress.
- The highest math requirement for this degree is DSAI 2275 or MATH2270 LINEAR ALGEBRA (QI).

Admission Requirements for this Program

First-Year and Transfer Students are admitted to the Huntsman School of Business based on USU's Admission Requirements.

Current USU Students in good standing qualify for admission into a Huntsman School major.

Huntsman School Admission Details: https://huntsman.usu.edu/undergraduate/apply

Program Requirements

Total Credits Required In Program Coursework
92

Total Credits Required To Earn This Credential
120

Simple Requisites

Program Requirements

- Elective credits needed will be determined on an individual basis (a student with continuing education, AP credits, and Language credits may not require additional elective credits).
- Completing a minor is recommended to fulfill elective credits.
- Completion of IS4250 DAIS INTERNSHIP requirement is recommended during junior or senior year.
- ENGL2010 RSRCH&ARGUMENT PRSPCTVES (CL2) requires a grade of C or better to satisfy prerequisites for further courses.
- A 2.0 overall and 2.5 major GPA is required to be recommended for graduation.
- Major requirements may not be taken on a pass/fail basis.

Data Analytics - BA, BS Course Requirements

Type
Completion Requirement

Major Requirements - Analytics Core (37 credits)

Students are required to take the following courses along with the business acumen. A 2.5 GPA in core and major courses is required for graduation.

Fulfill ALL of the following requirements:

Required

Complete ALL of the following Courses:

- DATA5300 - Database Management - 3cr.
- DATA5400 - Data Visualization with Tableau (CI) - 3cr.
- DATA5500 - Python Programming for Analytics - 3cr.
- DATA5510 - Advanced Python Programming for Analytics - 3cr.
- DATA5600 - Introduction to Regression and Machine Learning for Analytics - 3cr.
- DATA5610 - Advanced Machine Learning for Analytics - 3cr.
- MATH1210 - Calculus I (QL) - 4cr.
- MATH2270 - Linear Algebra (QI) - 3cr.
- IS4250 - Data Analytics and Information Systems Internship - 1cr.

AND

Electives

Complete at least 3 of the following courses:

- DATA5330 - Data Pipeline Engineering - 3cr.
- DATA5360 - Data Warehousing - 3cr.
- DATA5400 - Data Visualization with Tableau (CI) - 3cr.
- DATA5420 - Introduction to Text Mining - 3cr.
- DATA5480 - Data Mining - 3cr.
- DATA5490 - Prescriptive Analytics and Management Science - 3cr.
- DATA5570 - Building Software With Artificial Intelligence - 3cr.
- DATA5580 - Machine Learning Operations - 3cr.
- DATA5620 - Advanced Regression for Causal Inference - 3cr.
- DATA5630 - Deep Forecasting - 3cr.
- DATA5690 - Computational Methods for FinTech - 3cr.
- DATA5695 - Predictive Methods for FinTech - 3cr.
- DATA5310 - Advanced Database and Database Analytics - 3cr.

Business Acumen (46-47 credits)

All acumen courses must have a minimum grade of C unless otherwise stated.

Complete ALL of the following Courses:

- ACCT2010 - Financial Accounting Principles - 3cr.
- ACCT2020 - Managerial Accounting Principles - 3cr.
- BUS3200 - Professional Communication with AI (CI) - 3cr.
- DATA1100 - Excel for Business Analysis - 1cr.
- DATA2100 - Data and Information in Business - 3cr.
- DATA3100 - Making Decisions with Data - 3cr.
- DATA3300 - Introduction to Modern Data Analytics (QI) - 3cr.
- ECON2010 - Introduction to Microeconomics (BSS) - 3cr.
- ECON2020 - Introduction to Macroeconomics (BAI) - 3cr.
- ECON3050 - Foundations of Business: Capitalism, Markets, and Innovation - 3cr.
- FIN3200 - Corporate Finance (QI) - 3cr.
- FIN3300 - Investments - 3cr.
- MGT3350 - Legal and Ethical Environment of Business - 3cr.
- MGT3700 - Operations Management - 3cr.
- MSLE3500 - Fundamentals of Marketing - 3cr.
- MSLE3800 - Leadership - 2cr.
- MSLE3890 - Systems Strategy and Problem Solving - 2cr.

Open Electives

Complete the following as needed:
Total elective credit is determined by General Education courses taken, degree type selected, additional credits earned, and any additional math or other prerequisite courses needed. Please consult your Academic Advisor for details.

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Bachelor's Degree)

Suggested Degree Maps

Degree Map Name
Suggested Degree Map - Data Analytics BA, BS
Total Degree Map Credits
109 - 136
Degree Map Effective Catalog Year
2027 -

Degree Map Narrative

- Following is a sample four-year plan. Please note that student-specific plans may differ.
- Meet with an academic advisor to create a specific plan that best fits your academic needs.
- The student is ultimately responsible for knowing and completing all degree requirements.
- Make sure you meet the registration requirements for each class by clicking the course link and checking any prerequisites or corequisites.
- Consultation with an advisor may result in an altered plan customized for an individual student.
- Check your Degree Worksfor requirements and completion.

Students should apply for graduation at http://www.usu.edu/registrar/htm/graduation/apply-online.

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	16	0

Requirement Select

- ECON2020 - Introduction to Macroeconomics (BAI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- ENGL1010 - Writing as Inquiry (CL1)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- MATH1050 - College Algebra (QL)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- USU1010 - University Connections

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select

- BUS1000 - HSB Freshmen Academy

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- Breadth Humanities (BHU) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- MATH1050 is the recommended course to fulfill the QL requirement; BUS1000 is a recommended course; USU1010 is a recommended course that starts the week prior to fall semester and is completed after the first 3 weeks of fall semester (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- A minimum grade of C is required in ECON2020 (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	14 - 15	0

Requirement Select

- ACCT2010 - Financial Accounting Principles

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- ECON2010 - Introduction to Microeconomics (BSS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- ENGL2010 - Research and Argument Across Perspectives (CL2)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- MATH1060 - Trigonometry

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select

- Breadth Life Sciences (BLS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- MATH1060 is the recommended course to fulfill the prerequisite requirement for MATH1210 (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- A minimum grade of C is required in ACCT2010, ECON2010, ENGL2010 (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	11 - 15	0

Requirement Select

- ACCT2020 - Managerial Accounting Principles

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- DATA2100 - Data and Information in Business

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- DATA1100 - Excel for Business Analysis

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- MATH1210 - Calculus I (QL)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- Breadth Physical Sciences (BPS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	0 - 4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Minimum grade of C is required in ACCT2020, DATA2100, DATA1100 (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	15	0

Requirement Select
- MGT3350 - Legal and Ethical Environment of Business

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- DATA3100 - Making Decisions with Data

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- MATH2270 - Linear Algebra (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Breadth Creative Arts (BCA) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective course - 3 credits (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Minimum grade of C is required in MGT3350, DATA3100 (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Fall	18	0

Requirement Select
- BUS3200 - Professional Communication with AI (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- ECON3050 - Foundations of Business: Capitalism, Markets, and Innovation

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- MGT3700 - Operations Management

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- DATA3300 - Introduction to Modern Data Analytics (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- DATA5300 - Database Management

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- DATA5400 - Data Visualization with Tableau (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- A minimum grade of C is required in BUS3200, ECON3050, MGT3700, DATA3300 (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Spring	15	0

Requirement Select

- FIN3200 - Corporate Finance (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- MSLE3500 - Fundamentals of Marketing

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- DATA5500 - Python Programming for Analytics

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Data Analytics elective course - 3 credits (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Data Analytics elective course - 3 credits (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- A minimum grade of C is required in FIN3200, MSLE3500 (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Fall	14 - 15	0

Requirement Select

- FIN3300 - Investments

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- DATA5510 - Advanced Python Programming for Analytics

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- DATA5600 - Introduction to Regression and Machine Learning for Analytics

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Depth Life and Physical Sciences (DSC) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2 - 3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Elective course - 3 credits (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Minimum grade of C is required in FIN3300 (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Spring	6 - 27	0

Requirement Select

- DATA5610 - Advanced Machine Learning for Analytics

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- MSLE3800 - Leadership

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select

- Depth Humanities and Creative Arts (DHA) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1 - 3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Communications Intensive (CI) Courses

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	0 - 15
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Elective course - 0-4 credits (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	0 - 4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Minimum grade of C is required in MSLE3800 (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Program Learning Outcomes

Program Learning Outcomes

https://www.usu.edu/oda/assessment/

Master of Data Analytics (Economics and Finance) - MDATA

Program Overview

College	Department	Program Level
Jon M. Huntsman School of Business	Economics and Finance	Graduate

About this Degree

Economics and Finance Specialization

Many careers in economics and finance, utilize a variety of techniques to analyze data. The MDATA Economics and Finance specialization introduces students to theory and techniques that can be applied to solve problems in economics and finance.

Program Requirements

Total Credits Required In Program Coursework	Total Credits Required To Earn This Credential
33	33

Simple Requisites

Program Requirements

The MDATA Economics and Finance specialization requires a minimum of 33 credits from an approved program of study with at least 15 credits from 6000-level courses with a FIN/ECN prefix or higher. More information about courses and specific fields of study can be found at https://huntsman.usu.edu/mdata.

Graduate School Requirements

A bachelor's degree from an accredited U.S. college or university or a similarly recognized international university is required for admission to and completion of a graduate program.

Graduate students are required to maintain at least a 3.0 GPA for degree-program courses. Grades of C- or lower will not be accepted for a graduate degree.

A master's degree must be completed within six years of entering the degree program. Additional time may be requested by the student's committee and submitted to the Vice Provost of Graduate Studies for review. Coursework over eight years old at the time of degree completion may not be used for a graduate degree unless it is revalidated.

Requirements

Type
Completion Requirement

Requirements

General Requirements
33 credits from an approved program of study with at least 15 credits from 6000-level courses with a FIN/ECN prefix or higher.

Program Learning Outcomes

Program Learning Outcomes

https://huntsman.usu.edu/assessment/assessment-plan

Master of Data Analytics - MDA

Program Overview

College	Department	Program Level
Jon M. Huntsman School of Business	Data Analytics & Information Systems	Graduate

About this Degree

USU's Master of Data Analytics (MDA) program is designed to power your career in our rapidly growing tech and data-driven economy. The degree now centers on two stackable graduate certificates, plus an integrative, multidisciplinary capstone to total 30 credits. With defined certificate tracks such as Data Analytics, Data Science, Machine Learning and AI, Machine Learning Operations, Fintech Analytics, Marketing Analytics, Accounting Fintech, Tech Innovation and Entrepreneurship, and Anticipatory Intelligence, you can tailor your credential to your strengths and to employer needs. Capstone options — ranging from Building Software with AI to Data Competitions and Agile Tech Design (plus internship experiences) — deliver real-world impact and a proven signal of capability to recruiters. All available courses remain available as electives for broader flexibility, and the certificate tracks can be pursued independently of the MDA degree.

Why you'll benefit and stand out:

- Targeted, employer-facing credentials: two certificates clearly communicate your specialized skills to recruiters, accelerating hiring discussions.
- Market-aligned rigor: the program responds to Utah's strong growth in software, data science, and fintech, ensuring your skills match current and future demand.
- Flexible, portable credentialing: stackable certificates let you tailor your path and showcase concrete competencies even before or alongside completing the master's degree.
- Real-world readiness: integrative capstones demonstrate problem solving across disciplines and provide tangible project outcomes for your portfolio and resume.
- Strong industry and career support: collaboration across departments and Huntsman School career resources expand internship, networking, and placement opportunities.

This structure is designed to enhance your competitiveness in a dynamic job market while offering a flexible, practical, and impactful path to advanced data analytics expertise.

Admission Requirements for this Program

A bachelor's degree from an accredited U.S. college or university or a similarly recognized international university is required for admission to and completion of the MDA program.

Applicants should generally expect to start the MDA program in fall semester, but can also start in spring.

For admission, applicants will be required to submit the following, in addition to the application form: an application fee all undergraduate transcripts, three letters of recommendation, and a statement of purpose describing why they are interested in the MDA program.

All materials will be uploaded or sent directly to the School of Graduate Studies. TOEFL or IELTS scores are required for international students whose native language is not English. International students with a prior degree from a university in an English-speaking country are exempt from the TOEFL or IELTS exam.

No application will be considered until all required information is received by the School of Graduate Studies. The School of Graduate Studies requires a minimum 3.0 GPA for the last 60 credits. For further requirements from the School of Graduate Studies please consult the following website: https://gradschool.usu.edu/apply/.

Program Requirements

Total Credits Required In Program Coursework
30

Total Credits Required To Earn This Credential
30

Simple Requisites

Program Requirements

Students are individually responsible for meeting coursework requirements as outlined below. Students should ensure that they are aware of all requirements and initiate resolution of any apparent inconsistencies. MDA students are required to maintain at least a 3.0 GPA for degree-program courses. Grades of C- or lower will not be accepted. Modifications or substitutions for the listed MDA course requirements can be made with department approval, but a student's Program of Study must include at least 15 semester credits at the level of 6000 or above. Please also note these additional requirements from the USU School of Graduate Studies:

- Credits in the following areas are not acceptable for the MDA program: foreign languages (unless included in an approved Program of Study), continuing graduate advisement, individual home study, military science, and courses numbered below 5000. No more than 12 credits of 5000-level coursework will be accepted for a graduate program.
- Coursework over six years old at the time of degree completion may not be used for a graduate degree unless it is revalidated.
- The MDA degree must be completed within six years of entering the degree program. Additional time may be requested by the student's committee and submitted to the Vice Provost of Graduate Studies for review.

Degree Requirements

MDA candidates can select two of the following certificates (24-30 total credits) and complete up to 6 additional capstone credits as specified below, for a total of 30 program credits. Course substitutions can be made within certificate tracks or among the 6 capstone credits if approved by the department. A given course cannot be used to complete more than one certificate, or both a certificate and a capstone credit requirement.

Certificates

For each of the following certificates, specific course requirements are listed within the curriculum information below.

Data Analytics (12 credits) The Harvard Business Review has called data science the "sexiest job of the 21st century." Data analysts and data scientists are in heavy demand by companies who need to make strategic decisions in an increasingly data-driven world. In completing the Data Analytics certificate, students gain practical hands-on experience applying the latest data technologies and sophisticated analytical methods, developing advanced skills in programming, machine learning and artificial intelligence, visualization, and data mining. Note that the Data Analytics Certificate can be earned independently, without completing all MDA requirements.

Machine Learning Operations (12 credits) The Machine Learning Operations Certificate is designed to meet the increasing demand for professionals with skills in deploying, managing, and maintaining machine learning models in production environments. This program provides practical training in ML Ops, software development, web integration, and agile project management. These skills prepare graduates to meet the needs of organizations implementing AI technologies at scale. This program combines ML Ops-specific training with web development and project management methodologies to provide students with comprehensive, job-ready skills. The curriculum addresses a clear market need for professionals who can bridge the gap between data science and operational systems. Note that the Machine Learning Operations Certificate can be earned independently, without completing all MDA requirements.

Fintech Analytics (12 credits) In response to surging demand for professionals who master advanced computational and quantitative methods, the Fintech Analytics certificate blends finance, data science, and technology. Built for tech-savvy students and finance enthusiasts, this program leverages applied analytics expertise and Huntsman School career connections to prepare graduates for fast-growing fintech roles, digital banks, and innovative financial services firms. Note that the Fintech Analytics Certificate can be earned independently, without completing all MDA requirements.

Marketing Analytics (12 credits) Through the collaboration of the Data Analytics and Information Systems (DAIS) and Marketing and Strategy (MSLE) departments, the Marketing Analytics graduate certificate is designed for students with a marketing background who want to build strong, applied analytics skills to compete in today's data-driven marketing profession. This certificate provides a focused, career-relevant pathway that aligns with the Huntsman School's emphasis on real-world impact, employer partnerships, and stackable credentials. Note that the Marketing Analytics Certificate can be earned independently, without completing all MDA requirements.

Tech Innovation and Entrepreneurship (12 credits) A collaboration between the Data Analytics and Information Systems (DAIS) and Marketing, Strategy, Leadership, and Entrepreneurship (MSLE) departments, this certificate empowers students to ideate, validate, and launch technology-based ventures. Built on the Huntsman School's strength in experiential learning — through the Analytics Solutions Center (ASC) and the Center for Entrepreneurship — the program blends technical insight with entrepreneurial discipline. Open to current students and community members, it offers an inclusive, barrier-free pathway to develop scalable, high-impact ventures and to engage with regional startup ecosystems, investors, and established firms. Note that the Tech Innovation and Entrepreneurship Certificate can be earned independently, without completing all MDA requirements.

Machine Learning and AI (12-13 credits) Offered through the Department of Mathematics and Statistics and USU's School of Computing, this certificate provides a more advanced mathematical, statistical, and computational foundation underlying machine learning technologies.

Data Science (12 credits) Offered through the Department of Mathematics and Statistics, this certificate provides deeper experience at the intersection of statistics and computer science. Students considering this track should have some coursework or background in multivariable calculus, linear algebra, and mathematical probability.

Anticipatory Intelligence (15 credits) Offered through Utah State University's Center for Anticipatory Intelligence, this graduate certificate is part of the nation's first graduate program in Anticipatory Intelligence, and is designed to benefit students from all backgrounds. The certificate is structured to equip graduates and professionals with actionable hard and soft skills in systems-level thinking and emergent security challenges, as well as sophistication in interdisciplinary analysis and synthesis relating to the complex security issues affecting their own professional field. Students in the Anticipatory Intelligence program engage with instructors from a range of disciplinary backgrounds who bring a wealth of real-world experience in the security domain. This credential offers strong a value-added benefit for graduates and professionals pursuing a wide range of professions in the private sector, public service, nonprofit work, and academia.

Accounting Analytics (12 credits) Offered through the School of Accountancy in the Huntsman School of In response to surging demand for finance professionals who master advanced computational and quantitative methods, the Fintech Analytics certificate blends finance, data science, and technology. Built for tech-savvy students and finance enthusiasts, this program leverages

applied analytics expertise and Huntsman School career connections to prepare graduates for fast-growing fintech roles, digital banks, and innovative financial services firms.

Capstone Requirements

In addition to completing two of the certificates listed above, students must complete additional elective course credits that must include an integrative multidisciplinary capstone experience, as specified within the curriculum below.

MDA Requirements

Type
Completion Requirement

Required Certificates (24-30 credits)

Complete two of the post-bachelor's certificates listed below (24-30 credits)

- Data Analytics - Post Bachelor's Certificate
- Machine Learning Operations
- Fintech Analytics
- Marketing Analytics
- Tech Innovation and Entrepreneurship
- Machine Learning and Artificial Intelligence - Post-Bachelor's Certificate
- Data Science - Post-Bachelor's Certificate
- Anticipatory Intelligence - Post-Bachelor's Certificate
- Accounting Analytics

MDA Capstone (3-6 credits)

The following requirement must be completed by all MDA candidates, in addition to two of the certificates listed above. These 3-6 credits may be fulfilled as part of the requirements for individual certificates.

Complete at least 1 of the following courses:

- DATA6570 - Building Software With Artificial Intelligence - 3cr.
- DATA6910 - Data Competitions and Problem Solving - 3cr.
- IS6100 - Agile Tech Design and Development - 3cr.
- IS6250 - Graduate Internship - 1cr.
- CAI6990 - Graduate Capstone Experience - 3cr.

Program Learning Outcomes

Program Learning Outcomes

https://huntsman.usu.edu/assessment/assessment-plan

Master of Data Analytics (Statistics) - MDATA

Program Overview

College
College of Arts & Sciences

Department
Mathematics & Statistics

Program Level
Graduate

About this Degree

The Master in Applied Machine Learning and Statistics degree is a professional masters degree that integrates coursework in four departments (Mathematics and Statistics, Management Information Systems, Economics and Finance, and Computer Science) to give graduates a broad but focused collection of tools for the management and analysis of data, particularly Big Data.

Admission Requirements for this Program

Admission requirements can be found on the USU School of Graduate Studies website (https://gradschool.usu.edu/admissions/policies). Applicants are also expected to have a GPA in math/stat coursework of at least 3.5.

Program Requirements

Total Credits Required In Program Coursework
30

Total Credits Required To Earn This Credential
30

Simple Requisites

Program Requirements

- Graduate students are required to maintain at least a 3.0 GPA for degree-program courses. Grades of C- or lower will not be accepted for a graduate degree.
- A master's degree must be completed within six years of entering the degree program. Additional time may be requested by the student's committee and submitted to the Vice Provost of Graduate Studies for review.
- This degree requires 30 credits of coursework. At least 18 credits must be at 6000 level or above, excluding STAT6990 CONT GRAD ADVISEMENT and STAT7990 CONT GRAD ADVISEMENT (Continuing Graduate Advisement) with no more than 12 credits allowed at the 5000 level. Credits below the 5000 level are not acceptable for a graduate degree.
- No more than 12 transfer credits may be used toward a graduate degree.
- Supervisory Committee Approval by the end of the second semester
- Program of Study submitted by the end of the second semester
- Graduation application

The Statistics emphasis of the MData program requires at least 30 credits total, including 12 credits with either a STAT or DSAI prefix. At least 18 of the 30 credits must be from courses at the 6000-level or above. The degree allows for a "stackable credential" approach, where two post-baccalaureate certificates can be combined to complete most of the requirements. Course substitutions may be approved on an individual basis.

Master in Applied Machine Learning and Statistics

Type
Completion Requirement

Core Options

Fulfill ANY of the following requirements:

Course Option

Earn at least 9 credits from the following:

- DSAI5655 - Machine Learning - 3cr.
  OR DSAI6655 - Machine Learning - 3cr.
  OR STAT5655 - Machine Learning - 3cr.
  OR STAT6655 - Machine Learning - 3cr.
- MATH5645 - Mathematical Methods for Data Science - 3cr.
  OR MATH6645 - Mathematical Methods for Data Science - 3cr.
  OR STAT5645 - Mathematical Methods for Data Science - 3cr.
  OR STAT6645 - Mathematical Methods for Data Science - 3cr.
- STAT5685 - Deep Learning Theory and Applications - 3cr.
  OR STAT6685 - Deep Learning Theory and Applications - 3cr.

OR

Post Bachelor Certificate Option

Completion of the following Certificate

• Machine Learning and Artificial Intelligence - Post-Bachelor's Certificate (11-13 credits)

Other Machine Learning Requirement

Complete at least 1 of the following courses:

- STAT5650 - Applied Machine Learning and Multivariate Statistics - 3cr.
  OR STAT6650 - Applied Machine Learning and Multivariate Statistics - 3cr.
- STAT5655 - Machine Learning - 3cr.
  OR STAT6655 - Machine Learning - 3cr.
- DSAI5655 - Machine Learning - 3cr.
  OR DSAI6655 - Machine Learning - 3cr.
- STAT5685 - Deep Learning Theory and Applications - 3cr.
  OR STAT6685 - Deep Learning Theory and Applications - 3cr.

Applied Statistics Requirement

Complete at least 1 of the following courses:

- STAT5100 - Modern Regression Methods (CI/QI) - 3cr.
  OR STAT6100 - Modern Regression Methods - 3cr.
- STAT6180 - Financial Time Series - 2cr.
- STAT5200 - Analysis of Designed Experiments - 3cr.
  OR STAT6200 - Analysis of Designed Experiments - 3cr.
- STAT5410 - Applied Spatial Statistics - 2cr.
  OR STAT6410 - Applied Spatial Statistics - 2cr.
- STAT5500 - Biostatistics Methods (DSC) - 3cr.
  OR STAT6500 - Biostatistics Methods - 3cr.
- STAT6300 - Bayesian Statistical Methods and Data Analysis - 3cr.

Elective Post-Bachelor's Certificates

Complete one of the following:

- Data Science - Post-Bachelor's Certificate
- Data Analytics - Post Bachelor's Certificate
- Anticipatory Intelligence - Post-Bachelor's Certificate
- Machine Learning and Artificial Intelligence - Post-Bachelor's Certificate
- Fintech Analytics Post-Baccalaureate Certificate
- Marketing Analytics Post-Baccalaureate Certificate
- Accounting Fintech Post-Baccalaureate Certificate
- Tech Innovation and Entrepreneurship Post-Baccalaureate Certificate

Capstone Requirement

Type
Completion Requirement

Required Course

Earn at least 3 credits from the following:

- STAT6080 - Data Technologies - 2cr.
- STAT6180 - Financial Time Series - 2cr.
- STAT6250 - Graduate Internship/Co-op - 1cr.
- STAT6410 - Applied Spatial Statistics - 2cr.
- STAT6555 - Advanced R Programming for Data Science - 3cr.
- STAT6560 - Statistical Visualization II - 2cr.
- STAT6655 - Machine Learning - 3cr.
  OR DSAI6655 - Machine Learning - 3cr.

NOTE:

1. STAT6250 GRAD INTERN/COOP - Must have a machine learning or statistics focus.

Electives

Type
Completion Requirement

Elective Courses

Complete any additional elective courses to fulfill 30 total credits:

Complete the following:
May include any 5000 or 6000-level course with a STAT, DSAI, or DATA prefix as long as at least 12 of the total 30 credits have a STAT or DSAI prefix.

Program Learning Outcomes

Program Learning Outcomes

https://www.usu.edu/math/assessment/Statistics

Data Analytics - Post Bachelor's Certificate

Program Overview

College	Department	Program Level
Jon M. Huntsman School of Business	Data Analytics & Information Systems	Graduate

About this Degree

The Harvard Business Review has called data science the "sexiest job of the 21st century." Data analysts and data scientists are in heavy demand by companies who need to make strategic decisions in an increasingly data-driven world. In completing the Data Analytics certificate, students gain practical hands-on experience applying the latest data technologies and sophisticated analytical methods, developing advanced skills in programming, machine learning and artificial intelligence, visualization, and data mining. The Data Analytics Post-Bachelor's Certificate program allows students to build these critical skills in as little as one to two semesters.

Careers in information systems and data technologies are multidisciplinary and require teamwork, critical thinking, and communication. Well-qualified applicants are encouraged to apply from *any* background in which they have developed and applied these skills. Potential applicants with little or no prior technical experience may first consider the Data Technologies - Post-Bachelor's Certificate

Note that the Data Analytics Post-Bachelor's Certificate can be completed on its own, or it can be stacked with any one of the other certificates offered by the Department of Data Analytics & Information Systems to meet the requirements of the Master of Management Information Systems - MMIS degree program.

Data Analytics and Information Systems Faculty

Courses in Data Analytics Post-Bachelor's Certificate program are taught by faculty in the Department of Data Analytics and Information Systems who have years of corporate and academic experience. Our instructors are experts in the most cutting-edge tools and strategies for data and tech.

https://huntsman.usu.edu/dais/directory

Admission Requirements for this Program

To begin the Data Analytics Post-Bachelor's Certificate , applicants can submit an application form, along with the application fee and all undergraduate transcripts through the USU School of Graduate Studies at https://gradschool.usu.edu/apply/. TOEFL or IELTS scores are required for international students whose native language is not English. International students with a prior degree from a university in an English-speaking country are exempt from the TOEFL or IELTS exam. The School of Graduate Studies requires a minimum 3.0 GPA for the last 60 credits of prior undergraduate study.

Program Requirements

Total Credits Required In Program Coursework	Total Credits Required To Earn This Credential
12	12

Simple Requisites

Program Requirements

The certificate requires 12 total credits, with 9 required credits and one additional 3-credit elective course as outlined within the curriculum below. Individual substitutions for course requirements may be considered and approved on a case-by-case basis by the Data Analytics and Information Systems Department.

Courses used to fulfill requirements for this certificate may not include courses previously completed to meet the requirements of any other certificate or program, and cannot be used to complete any other certificate or program.

Courses remain valid for 6 years for potential inclusion in a future master's degree program (MMIS or MDATA).

Certificate students who opt to earn an MMIS or MDATA degree will be granted a waiver for reduced fees for their future master's application. Please contact our office for details

Data Analytics Post-Baccalaureate Certificate Requirements (12 credits)

Type
Completion Requirement

Required Courses

This 12-credit core comprises the requirements for the Data Analytics Post-Baccalaureate Certificate. This certificate can be completed independently or stacked with another approved 12-credit certificate and 6 additional capstone credits to earn the MMIS degree.

Complete ALL of the following Courses:

- DATA5600 - Introduction to Regression and Machine Learning for Analytics - 3cr.
- DATA6510 - Advanced Python Programming for Analytics - 3cr.
- DATA6610 - Advanced Machine Learning for Analytics - 3cr.

Elective Courses

Complete at least 1 of the following courses:

- DATA6330 - Data Pipeline Engineering - 3cr.
- DATA6360 - Data Warehousing - 3cr.
- DATA6410 - Visual Data Analytics - 3cr.
- DATA6420 - Introduction to Text Mining - 3cr.
- DATA6480 - Data Mining - 3cr.
- DATA6490 - Prescriptive Analytics and Management Science - 3cr.
- DATA6570 - Building Software With Artificial Intelligence - 3cr.
- DATA6580 - Machine Learning Operations - 3cr.
- DATA6620 - Advanced Regression for Causal Inference - 3cr.
- DATA6690 - Computational Methods for FinTech - 3cr.
- DATA6695 - Predictive Methods for FinTech - 3cr.
- DATA6910 - Data Competitions and Problem Solving - 3cr.

Program Learning Outcomes

Program Learning Outcomes

https://huntsman.usu.edu/assessment/assessment-plan

Data Technologies - Post-Bachelor's Certificate

Program Overview

College
Jon M. Huntsman School of Business

Department
Data Analytics & Information Systems

Program Level
Graduate

About this Degree

Designed specifically for students with nontechnical academic or employment backgrounds, the Data Technologies certificate allows students to learn foundational database, programming, and analytics skills to boost their job qualifications in as little as one to two semesters. Students may also use this certificate to prepare for successfully completing an additional certificate track within USU's Data Analytics and Information Systems program. Careers in information systems and data technologies are multidisciplinary and require teamwork, critical thinking, and communication. Well-qualified applicants are encouraged to apply from from *any* background in which they have developed and applied these skills.

Note that the Data Technologies Post-Bachelor's Certificate can be completed on its own, or it can be stacked with any one of the other certificates offered by the Department of Data Analytics and Information Systems to meet the requirements of the Master of Management Information Systems - MMIS degree program.

Data Analytics and Information Systems Faculty

Courses in Data Technologies Post-Bachelor's Certificate program are taught by faculty in the Department of Data Analytics and Information Systems who have years of corporate and academic experience. Our instructors are experts in the most cutting-edge tools and strategies for data and tech.

https://huntsman.usu.edu/dais/directory

Admission Requirements for this Program

To begin the Data Technologies Post-Bachelor's Certificate, applicants can submit an application form, along with the application fee and all undergraduate transcripts through the USU School of Graduate Studies at https://gradschool.usu.edu/apply/. TOEFL or IELTS scores are required for international students whose native language is not English. International students with a prior degree from a university in an English-speaking country are exempt from the TOEFL or IELTS exam. The School of Graduate Studies requires a minimum 3.0 GPA for the last 60 credits of prior undergraduate study.

Program Requirements

Total Credits Required In Program Coursework
12

Total Credits Required To Earn This Credential
12

Simple Requisites

Program Requirements

The certificate requires 12 total credits, with 9 required credits and one additional 3-credit elective course as outlined within the curriculum below. Individual substitutions for course requirements may be considered and approved on a case-by-case basis by the Data Analytics and Information Systems Department.

Courses used to fulfill requirements for this certificate may not include courses previously completed to meet the requirements of any other certificate or program, and cannot be used to complete any other certificate or program.

Courses remain valid for 6 years for potential inclusion in a future master's degree program (MMIS or MDATA).

Certificate students who opt to earn an MMIS or MDATA degree will be granted a waiver for reduced application fees for their future master's application. Please contact our office for details.

Data Technologies Post-Baccalaureate Certificate Requirements (12 credits)

Type
Completion Requirement

Required Courses

This 12-credit core comprises the requirements for the Data Technologies Post-Baccalaureate Certificate. This certificate can be completed independently or stacked with another approved 12-credit certificate and 6 additional capstone credits to earn the MMIS degree.

Complete ALL of the following Courses:

- DATA6300 - Database Management - 3cr.
- DATA6400 - Data Visualization with Tableau - 3cr.
- DATA6500 - Python Programming for Analytics - 3cr.

Elective Courses

Complete at least 1 of the following courses:

- IS6200 - Introduction to Cloud Computing - 3cr.
- IS6700 - User Interface/User Experience Web Design - 3cr.

Program Learning Outcomes

Program Learning Outcomes

https://huntsman.usu.edu/assessment/assessment-plan

Dairy Cattle Management - Certificate

Program Overview

College
College of Agriculture & Natural Resources

Department
Animal, Dairy & Veterinary Sciences

Program Level
Undergraduate

About this Degree

The Dairy Cattle Management Certificate is a comprehensive 27-credit program designed to equip students with the specialized knowledge and practical skills needed for careers in dairy cattle management. The curriculum covers essential areas such as dairy production practices, animal health, reproduction, nutrition, and business operations.

Electives allow students to tailor their learning to focus on areas such as carcass evaluation, animal health, dairy technology, or forage production. This program emphasizes hands-on, practical learning, preparing students for leadership roles in the dairy industry by integrating technical expertise with business management skills. Students can pursue this certificate independently or alongside a Bachelor of Science degree, enhancing their career prospects in the dairy sector.

Program Requirements

Total Credits Required In Program Coursework
27

Total Credits Required To Earn This Credential
27

Simple Requisites

Program Requirements

1. Attain a grade point average of at least 2.50 across all courses applied toward this certificate.
2. Courses required for the certificate may *not* be taken for a *pass/fail* grade except for courses that are only offered as pass/fail.
3. A minimum grade of C is required in all courses applied toward this certificate.

Required Courses

Type
Completion Requirement

Required courses

Complete ALL of the following Courses:

- ADVS1110 - Introduction to Animal Science (BLS) - 3cr.
- ADVS2130 - Dairy Cattle Production - 3cr.
- ADVS2500 - Feeds and Feeding - 3cr.
- ADVS4200 - Physiology of Reproduction and Lactation (CI) - 4cr.
- ADVS4210 - Applied Reproduction and Artificial Insemination - 2cr.
- ADVS5130 - Dairy Cattle Management - 3cr.
- APEC2120 - Small Firm Accounting Basics - 3cr.
- APEC2310 - Small Firm Management - 3cr.

Choose one of the following courses:

Complete at least 1 of the following courses:

- ADVS3000 - Animal Health and Hygiene - 3cr.
  OR ADVS3650 - Live Animal and Carcass Evaluation - 3cr.
  OR NDFS5030 - Dairy Technology and Processing - 3cr.
  OR PSC4320 - Forage Production and Pasture Management - 3cr.

Additional Comments:
NOTE:

1. Some of these courses have prerequisites, which may in turn have further prerequisites, etc. We encourage you to plan accordingly and/or speak with an advisor.

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Undergraduate Academic or Technical Certificates)

Program Learning Outcomes

Program Learning Outcomes

https://qanr.usu.edu/advs/assessment/

Design Entrepreneurship - Institutional Certificate of Proficiency

Program Overview

College
College of Agriculture & Natural Resources

Department
Landscape Architecture & Environmental Planning

Program Level
Undergraduate

About this Degree

The Certificate in Design Entrepreneurship is composed of required professional foundation courses in the Entrepreneurship Core (6 credits), a Professional Office Experience (1 credit), and Business Electives (6 credits min.) in accounting, entrepreneurship, finance, ideation, management, or marketing. A minimum of 13 credits are required for the Certificate.

Drawn from various programs across USU, the Electives would allow students from allied AEC+D programs to efficiently complete the Certificate due to overlap in their major requirements (e.g., credit for existing internship experiences). The schedule for the Certificate is left open to when the students can best fit the courses in with their major requirements.

Program Requirements

Total Credits Required In Program Coursework
13

Total Credits Required To Earn This Credential
13

Simple Requisites

Program Requirements

A minimum overall GPA of 3.0 is required in LAEP-prefix courses, with no individual LAEP-prefix course grade less than a C-. No pass/fail grades are accepted to fulfill LAEP-prefix courses. A minimum USU overall GPA of 2.5 is required for all other courses used to fulfill certificate requirements.

Section 1

Type
Completion Requirement

Entrepreneurship Core (6 credits required)

Complete ALL of the following Courses:

- LAEP4910 - Foundations of Business in Design and Planning (CI) - 3cr.
  OR IAD4740 - Business and Professional Practices in Interior Architecture and Design (CI) - 3cr.
- LAEP4911 - Entrepreneurship in Design and Planning - 3cr.

Section 2

Type
Completion Requirement

Professional Office Experience (1 credit required)

Earn at least 1 credits from the following:

- IAD4710 - Internship in Interior Architecture and Design - 3cr.
- LAEP4250 - Internship and Cooperative Education - 1cr.
- OPDD4250 - Outdoor Product Design and Development Industry Experience - 1cr.

Section 3

Type
Completion Requirement

Business Electives (6 credit minimum required)

Fulfill ANY of the following requirements:

General

Complete ANY of the following Courses:

- BUSN1010 - Business Principles (BSS) - 3cr.

OR

Accounting

Complete ANY of the following Courses:

- APEC2120 - Small Firm Accounting Basics - 3cr.
- BUSN2010 - Financial Accounting - 4cr.

OR

Entrepreneurship

Complete ANY of the following Courses:

- BUSN2710 - Entrepreneurial Mindset - 3cr.
- LAEP5060 - E Studio/Entrepreneurship in Planning and Design (CI) - 3cr.
- MSLE3510 - New Venture Creation - 3cr.
- MSLE3580 - New Venture Execution - 3cr.

OR

Finance

Complete ANY of the following Courses:

- BUSN2160 - Introduction to Business Finance - 3cr.
- FIN3200 - Corporate Finance (QI) - 3cr.
- MSLE3540 - New Venture Finance - 3cr.

OR

Management

Complete ANY of the following Courses:

- APEC2310 - Small Firm Management - 3cr.
- BUSN2320 - Small Business Management - CTE - 3cr.
- MGT3700 - Operations Management - 3cr.

OR

Marketing

Complete ANY of the following Courses:

- BUSN2201 - Digital Marketing Concepts - 3cr.
- MSLE3500 - Fundamentals of Marketing - 3cr.
- MSLE3530 - New Venture Marketing - 3cr.

Program Learning Outcomes

Program Learning Outcomes

https://caas.usu.edu/laep/assessment/

Diesel Technology - Technical Certificate

Program Overview

College
College of Agriculture & Natural Resources

Department
Technology, Design & Technical Ed

Program Level
Undergraduate

About this Degree

The Diesel Technology program prepares students with the diversified employment skills and knowledge as diesels technicians, including hands-on instruction in diesel engines; electrical/electronic systems; steering and suspension; brakes; drivetrain; heating, ventilation, and air conditioning; hydraulics; preventative maintenance; safety; professionalism; and workplace relations.

Program Requirements

Total Credits Required In Program Coursework
35

Total Credits Required To Earn This Credential
35

Simple Requisites

Program Requirements

Diesel Technology - Technical Certificate Course Requirements

Type
Completion Requirement

Foundational Courses (25 credits)

Complete ALL of the following Courses:

- TEDT1010 - Introduction to Diesel Technology - 2cr.
- TEDT1100 - Electrical I - 4cr.
- TEDT1200 - Steering and Suspension - 4cr.
- TEDT1300 - Brakes - 4cr.
- TEDT1400 - Drivetrain - 4cr.
- TEDT1600 - Engines I - 4cr.
- TEDT1610 - Engines II - 3cr.

Supplemental Courses (10 credits)

Complete ALL of the following Courses:

- TEDT1110 - Electrical II - 4cr.
- TEDT1500 - Preventative Maintenance I - 1cr.
- TEDT1700 - Hydraulics - 2cr.
- TEDT1800 - Heating, Ventilation, and Air Conditioning (HVAC) - 3cr.

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Undergraduate Academic or Technical Certificates)

Program Learning Outcomes

Program Learning Outcomes

- Demonstrate safe working habits and practices.
- Demonstrate knowledge related to the service, maintenance, operation, and function of the core systems related to diesel powered equipment.
- Build and maintain good working relationships.

Deaf Education - Listening and Spoken Language Specialization - MEd

Program Overview

College
College of Education & Human Services

Department
Speech and Hearing Sciences

Program Level
Graduate

About this Degree

The Deaf Education program at Utah State University offers teacher training in Listening and Spoken Language (LSL) to earn a Master of Education degree and eligibility for the Utah Deaf Education Professional Educator License with the LSL Endorsement. The program is designed to be completed in four semesters; 47 credit hours.

The LSL deaf education graduate training program prepares students to serve young children who are deaf or hard of hearing (DHH) and their families. The program focus is on early intervention, strategies for optimizing LSL development, kindergarten readiness, and an understanding of hearing technology (e.g., cochlear implants, digital hearing aids). Students gain hands-on experiences every semester of the program in rotations that focus on classroom, individual or small group, and early intervention services. As an interdisciplinary program, students also gain theoretical knowledge and practical experience in audiology and speech/language pathology services. Students must successfully complete a Plan A Thesis, Plan B, or Plan C Project.

A bachelor's degree from an accredited U.S. college or university or a similarly recognized international university is required for admission to and completion of a graduate program. Refer to the department website for current admission requirements. Some prerequisites may apply. Transcripts can be reviewed if students have completed required coursework in an undergraduate program or at another institution. In such cases, the program of study will be individualized consistent with department and college requirements.

Admission for off-campus and out-of-state students is contingent upon access to an approved practicum placement site. Students complete requirements to earn a Utah Deaf Education Professional Educator teaching license with LSL Endorsement at the time of graduation. Students who do not seek licensure at the time of graduation must meet Utah State Board of Education licensure requirements at the time of application.

Program Requirements

Total Credits Required In Program Coursework
47

Total Credits Required To Earn This Credential
47

Simple Requisites

Program Requirements

School of Graduate Studies Requirements

Degree Verification

- A bachelor's degree from an accredited U. S. college or university or a similarly recognized international university is required for admission to and completion of a graduate program.
- Graduate students are required to maintain at least a 3.0 GPA for degree-program courses. Grades of C- or lower will not be accepted for a graduate degree.
- Course Number Acceptability: The Program of Study for a master's degree or a doctoral degree, if the student has a master's degree, must include at least 15 semester credits at the level of 6000 or above. Credits in the following areas are not acceptable in a degree program: foreign languages (unless included in an approved Program of Study), continuing graduate advisement, individual home study, military science, and courses numbered below 5000. No more than 12 credits of 5000-level coursework may be applied to a graduate program.
- Matriculation Start Semester: A master's degree must be completed within six years of entering the degree program. Additional time may be requested by the student's committee and submitted to the Vice Provost of Graduate Studies for review.
- Coursework Validity: Coursework over eight years old at the time of degree completion may not be used for a graduate degree unless it is revalidated by the Vice Provost of Graduate Studies.
- Master's forms: Approval of the Program of Study is required by the School of Graduate Studies.

Section 1

Type

Completion Requirement

Required Courses

Complete ALL of the following Courses:

- SHS6320 - Language Learning and Literacy Acquisition in Children with Hearing Loss - 3cr.
- SHS6350 - Early Elementary and Itinerant Support for Children who are DHH using LSL - 3cr.
- SHS6580 - Family Centered Practices for Children who are Deaf, Hard of Hearing (DHH) - 3cr.
- SHS6700 - Practicum in Education of Children who are Deaf and Hard of Hearing - 1cr.
- SHS6715 - Listening and Spoken Language Practicum Workshop - 1cr.
- SHS6720 - Interdisciplinary Implementation of IDEA - 2cr.
- SHS6730 - Multiple Disabilities and Differentiated Instruction - 2cr.
- SHS6770 - Audiology and Teachers of Children who are Deaf and Hard of Hearing - 1cr.
- SHS6880 - Listening and Spoken Language Deaf Education Student Teaching - 6cr.
- SHS6850 - Seminar in Communicative Disorders and Deaf Education - 1cr.
- SHS6340 - Foundations of Listening and Spoken Language - 3cr.
- SHS6360 - LSL Preschool Curriculum: Language and Cognition - 3cr.
- SHS6560 - Speech and Language Assessment and Intervention for Children Who are Deaf or Hard of Hearing - 3cr.

Utah students can earn the Utah Preschool Special Education teaching license upon completion of additional coursework and practicum. For information regarding the Preschool Special Education Teaching License, see the Special Education and Rehabilitation Counseling website.

NOTE:

1. SHS6700 PRACT IN ED DEAF/HH - 9 total credits are required
2. SHS6715 LISTENING/LANGUAGE WORKSHOP - 3 total credits required
3. SHS6580 FAMILY CENTERED PRAC IN HL - 1 credit required
4. SHS6880 LSL DE STUDENT TEACHING - 9 credits required

Program Learning Outcomes

Program Learning Outcomes

https://cehs.usu.edu/shs/assessment/university/deaf-education-graduate-program/learning-objectives

Digital Design - Technical Certificate

Program Overview

College
College of Agriculture & Natural Resources

Department
Technology, Design & Technical Ed

Program Level
Undergraduate

About this Degree

The Department of Technology, Design and Technical Education offers a Technical Certificate in Digital Design. The certificate program is available at the following locations: Blanding, Moab, and Price. The Technical Certificate in Digital Design is an 19-credit-hour stand-alone credential that will contribute to the elective course requirements for several existing business-related certificates as well as the Associate of Applied Science General Technology degree with a General Business emphasis. The Technical Certificate will meet many of the requirements for USU's IT Support and Web Development AAS degree. In addition to qualifying students for entry-level design jobs, a Digital Design Technical Certificate will build momentum to facilitate student transitions and support student efforts to earn certificate and associate degree credentials.

Digital design is a growing specialty in the field of graphic design. Digital design students will learn interactive website design, digital video production, graphics and communication technologies, as well as overall layout and production design for advertisements, brochures, magazines and corporate reports. The Technical Certificate will provide students with the initial tools to enhance business marketing through digital equipment and software.

IT skills in greatest demand in the state include JavaScript, LINUX, UNIX, C++, website development and HTML - all of which are utilized in the Digital Design Technical Certificate. In just one or two semesters, students will have marketable skills to help them gain employment. Completion of the Digital Design Technical Certificate will create pathways for additional education and employment opportunities.

For more information, visit caas.usu.edu/tdte/index or contact the academic advisors:

Price:
Danyan Powell (danyan.powell@usu.edu) or Jaycie Miller (jaycie.miller@usu.edu)

Moab:
Heidi Swenson (heidi.swenson@usu.edu)

Blanding:
Heidi Swenson (heidi.swenson@usu.edu)

Program Requirements

Total Credits Required In Program Coursework
19

Total Credits Required To Earn This Credential
19

Simple Requisites

Program Requirements

Digital Design Requirements

Type
Completion Requirement

Technical Education Required Courses (19 credits)

Complete ALL of the following Courses:

- TEBP1100 - Digital Literacy - 2cr.

- TEBP1200 - Professionalism - 3cr.
- TEIT1310 - Website Design - 3cr.
- TEIT1340 - Digital Video Production - 3cr.
- TEIT1400 - Introduction to Cloud - 2cr.
- TEIT2441 - Photoshop - 3cr.
- TEIT2500 - Web Business - 3cr.
  OR TEBP1000 - Basic Financial Principles - 3cr.

Program Learning Outcomes

Program Learning Outcomes

https://caas.usu.edu/tdte/assessment/

Disability Disciplines - PhD

Program Overview

College	Department	Program Level
College of Education & Human Services	Special Education & Rehab Counseling	Graduate

About this Degree

The department's Ph.D. program in Disability Disciplines prepares graduates for university faculty positions in research and personnel preparation in the areas of special education, rehabilitation, applied behavior analysis, speech-language pathology, pathokinesiology, and audiology. The PhD program is designed to develop students' competence in (1) mastery of the theoretical and applied content underlying the provision of appropriate and effective services for persons with disabilities; (2) ability to conduct independent research; and (3) ability to conduct effective personnel preparation, including college teaching and supervising students who are learning to deliver services.

The PhD is available at Utah State University's main campus in Logan, Utah

Program Requirements

Total Credits Required In Program Coursework	Total Credits Required To Earn This Credential
56-61	56-61

Simple Requisites

Program Requirements

Degree Completion Requirements:

- A master's degree from an accredited U.S. college or university or a similarly recognized international university is required for admission to and completion of a graduate program.
- The Program of Study for a doctoral degree must include at least 15 semester credits at the level of 6000 or above.
  Credits in the following areas are not acceptable: foreign languages, continuing graduate advisement, individual home study, military science, and courses numbered below 5000.
- Coursework over eight years old at the time of degree completion may not be used for a graduate degree unless it is revalidated by the Vice Provost for the School of Graduate Studies.
- Graduate students are required to maintain at least a 3.0 GPA for degree-program courses. Grades of C- or lower will not be accepted for a graduate degree.
- A doctorate must be completed within eight years of entering the degree program.
- Depending on the specialization, 56 – 61 credits are required beyond master's degree.
- A minimum of 12 dissertation credits (7970) is required for all specializations.
- Successful defense and submission of the dissertation to the library.
- Approval of academic forms required for doctoral students by the School of Graduate Studies.

Coursework

Coursework includes a set of core courses that establish a foundation and framework for a rigorous and scholarly understanding of issues related to disability disciplines. In addition, each specialization provides unique

coursework focused on issues that are more specific to that specialization. See details of specializations for details.

Preliminary Exams
Early in his/her program - typically after one year of full-time study - students must pass a preliminary exam. This two-part exam is completed across a two-day period. Components of the exam required of all Disability Disciplines students are:

- Critique of Research: The student critiques a manuscript reporting research relevant to their specialization.
- Design of Research: The student outlines the design of a research project on a given topic relevant to their specialization.

In addition, specializations may include an examination of disciplinary knowledge on a third day of the preliminary exam.

Products and Demonstrations of Competence
A set of seven required products and demonstrations of competence provide a context for collaboration and mentoring around the critical skill sets necessary for successful university professors. The products and demonstrations of competence include research, college teaching, supervision, conference presentation, publication, review of literature, and grant writing. These activities are focused on the particular content and issues that are important within the student's specialization. Thus, the products and internships provide both a cohesive program-wide structure and disciplinary depth. This set of activities constitutes the program's comprehensive exam; they must be completed before the student proposes their dissertation.

Dissertation
The dissertation is the culminating project of the doctoral program. It involves original research that advances the field by contributing new knowledge that is relevant to an important question. The dissertation is a creative and scholarly endeavor that builds upon the student's coursework, products and demonstrations of competence, and extensive mentoring from the faculty. A dissertation proposal is written by the graduate student and approved by the student's supervisory committee prior to data collection.

Specializations

Applied Behavior Analysis with Individuals with Disabilities
The Applied Behavior Analysis doctoral specialization prepares graduates to be highly effective university faculty and behavior analytic practitioners who significantly improve individuals' lives through research, intervention, and teaching.

The specialization offers students the opportunity to advance their behavior analytic skills by taking advanced coursework in behavior analysis theory, research and practice; practicing applied behavior analysis in clinical and educational settings; and collaborating extensively with faculty in the areas of research, teaching, and staff supervision.

For more specific information, please visit the department's website: https://cehs.usu.edu/sperc/sped/doctoral/applied-behavior.

Audiology Specialization
The Audiology doctoral specialization prepares graduates to be highly effective university faculty in audiology programs. Prospective students enter the program with an earned graduate degree in audiology (AuD, MS). Programs of study can be created for students with an earned bachelor's degree in Communicative Disorders, or for students interested in completing a combined AuD/PhD.

For more specific information, please visit the department's website: https://cehs.usu.edu/sperc/sped/doctoral/audiology.

Pathokinesiology
The Pathokinesiology specialization within the Disability Disciplines doctoral program focuses on the scientific study of human movement (kinesiology) as it relates to any abnormal condition (patho) affecting movement or postural dysfunction. The specialization is designed to prepare students to be productive in research and to pursue a career in academia or industry. The program offers training to investigators who seek to answer questions about human movement, its functions and dysfunctions. Students will be exposed to three core areas: motor control, motor learning and biomechanics.

For more specific information, please visit the department's website: https://cehs.usu.edu/sperc/sped/doctoral/pathokinesiology.

Rehabilitation Counselor Education and Supervision
The Rehabilitation Counselor Education and Supervision doctoral specialization at Utah State University offers students a unique combination of extensive collaboration with faculty; direct experience in research, teaching, counselor supervision, and grant writing; and focus on preparing outstanding rehabilitation counselor educators and researchers. This specialization prepares graduates to be highly effective university faculty and agency administrators in rehabilitation counseling. Graduates significantly improve the lives of persons with disabilities through research, teaching, and program administration.

For more specific information, please visit the department's website: https://cehs.usu.edu/sperc/sped/doctoral/rehabilitation-counseling.

Special Education
The Special Education specialization of the Disability Disciplines PhD prepares graduates to be effective university faculty in special education who significantly improve children's lives through research, scholarship, and teaching.

This doctoral specialization offers students a unique combination of extensive collaboration with faculty; direct experience in research and scholarship, teaching, supervision, and writing; behavior analytic orientation to special education; and focus on producing outstanding special education services.
For more specific information, please visit the department's website: https://cehs.usu.edu/sperc/sped/doctoral/special-education.

Speech-Language Pathology
The Speech-Language Pathology specialization within the Disability Disciplines PhD brings together faculty and students across disciplinary and departmental lines to explore interrelated aspects of disabilities.
For more specific information, please visit the department's website: https://cehs.usu.edu/sperc/sped/doctoral/speech-language-pathology.

Disabilities Studies Specialization (NOT CURRENTLY OFFERED)

Specializations and their requirements are listed below:

Applied Behavior Analysis with Individuals with Disabilities (59 credits)

Type
Completion Requirement

Requirements

Fulfill ALL of the following requirements:

Required Courses (10 credits)

Complete ALL of the following Courses:

- EDUC6570 - Introduction to Educational and Psychological Research - 3cr.
- EDUC6600 - Statistical Foundations - 3cr.
- SPED7420 - Systematic Literature Reviews - 3cr.
- SPED7920 - Doctoral Program Professional Seminar - 1cr.

AND

Electives (6 credits)

Complete at least 2 of the following courses:

- REH7780 - Bioethics, Ethics and Disability - 3cr.
- SPED7020 - Teaching in Disability Disciplines - 3cr.
- SPED7400 - Cultural and Linguistic Diversity and Disability - 3cr.
- SPED7430 - Educational Neuroscience - 3cr.
- SPED7750 - Social and Legal Context of Disability - 3cr.

AND

Specialization Courses (14 credits)

Complete ALL of the following Courses:

- SPED7700 - Single-Subject Research Methods and Designs - 3cr.
- SPED7720 - Advanced Applied Behavior Analysis - 3cr.
- SPED7820 - Seminar: Special Topics - 1cr.
- SPED7940 - Journal Reading Group - 1cr.

NOTE:

1. SPED7940 JOURNAL READING GROUP take 2 credits (Journal Reading Group-Prelim Prep-1 credit, Journal Reading Group-Behavior Analysis-1 credit).
2. SPED7820 SEMINAR: SPECIAL TOPICS take 6 credits (Verbal Behavior & Relational Responding-3 credits, Advanced Functional Assess/Intervention-3 credits).

AND

Specialization Elective (9 credits)

Complete at least 3 of the following courses:

- PSY6650 - Theories of Learning: The Behavioral Perspective - 3cr.
- PSY6760 - Fundamentals of Acceptance and Commitment Therapy - 3cr.
- PSY7750 - Behavioral Economics - 3cr.
- PSY7810 - Seminar - 1cr.

NOTE:

1. **PSY7810 Seminar Topics** - 1) Behavior Theory & Philosophy-3 credits, 2) Experimental Analysis of Human Behavior-3 credits, 3) Translational Research in Behavior Analysis-3 credits.

AND

Internships (3 credits)

Complete ALL of the following Courses:

- SPED7060 - Research Internship - 1cr.
- SPED7330 - Supervision Internship - 1cr.
- SPED7340 - College Teaching Internship - 1cr.

AND

Products (4 credits)

Complete ALL of the following Courses:

- SPED7040 - Literature Review - 1cr.
- SPED7070 - SPED Grant Writing Internship - 1cr.
- SPED7080 - Writing for Publication - 1cr.
- SPED7090 - Conference Presentation - 1cr.

AND

Preliminary Exams (1 credit)

Complete ALL of the following Courses:

- SPED7840 - Preliminary Exams - 1cr.

AND

Dissertation (12 credits)

A minimum of 12 dissertation credits is required.

Complete ALL of the following Courses:

- SPED7970 - Dissertation - 1cr.

Audiology Specialization (56 credits)

Type

Completion Requirement

Requirements

Fulfill ALL of the following requirements:

Required Courses (10 credits)

Complete ALL of the following Courses:

- EDUC6570 - Introduction to Educational and Psychological Research - 3cr.
- EDUC6600 - Statistical Foundations - 3cr.
- SPED7420 - Systematic Literature Reviews - 3cr.
- SPED7920 - Doctoral Program Professional Seminar - 1cr.

AND

Electives (6 credits)

Complete at least 2 of the following courses:

- REH7780 - Bioethics, Ethics and Disability - 3cr.
- SPED7020 - Teaching in Disability Disciplines - 3cr.
- SPED7400 - Cultural and Linguistic Diversity and Disability - 3cr.
- SPED7430 - Educational Neuroscience - 3cr.
- SPED7750 - Social and Legal Context of Disability - 3cr.

AND

Specialization Courses (20 credits)

Fulfill ALL of the following requirements:

Specialization Core Courses (14 credits)

Complete ALL of the following Courses:

- SHS7710 - Evidence-Based Practice in Audiology - 3cr.
- SHS7730 - Advanced Topics in Audiology - 3cr.
- SHS7740 - Research in Audiology - 3cr.
- SHS7880 - Research Methods in Audiology - 3cr.
- SHS7890 - Journal Reading - Audiology - 1cr.
- SPED7940 - Journal Reading Group - 1cr.

AND

Specialization Electives (6 credits)

Complete the following:
• Students should take 6 credits of committee-approved electives focused on their research to complete degree requirements.

AND

Internships (3 credits)

Complete ALL of the following Courses:
- SPED7060 - Research Internship - 1cr.
- SPED7330 - Supervision Internship - 1cr.
- SPED7340 - College Teaching Internship - 1cr.

AND

Products (4 credits)

Complete ALL of the following Courses:
- SPED7040 - Literature Review - 1cr.
- SPED7070 - SPED Grant Writing Internship - 1cr.
- SPED7080 - Writing for Publication - 1cr.
- SPED7090 - Conference Presentation - 1cr.

AND

Preliminary Exams (1 credit)

Complete ALL of the following Courses:
- SPED7840 - Preliminary Exams - 1cr.

AND

Dissertation (12 credits)

A minimum of 12 dissertation credits is required.

Complete ALL of the following Courses:
- SPED7970 - Dissertation - 1cr.

Pathokinesiology (57 credits)

Type
Completion Requirement

Requirements

Fulfill ALL of the following requirements:

Required Courses (10 credits)

Complete ALL of the following Courses:
- EDUC6570 - Introduction to Educational and Psychological Research - 3cr.
- EDUC6600 - Statistical Foundations - 3cr.
- SPED7420 - Systematic Literature Reviews - 3cr.
- SPED7920 - Doctoral Program Professional Seminar - 1cr.

AND

Electives (6 credits)

Complete at least 2 of the following courses:
- REH7780 - Bioethics, Ethics and Disability - 3cr.
- SPED7020 - Teaching in Disability Disciplines - 3cr.
- SPED7400 - Cultural and Linguistic Diversity and Disability - 3cr.
- SPED7430 - Educational Neuroscience - 3cr.
- SPED7750 - Social and Legal Context of Disability - 3cr.

AND

Specialization Courses (21 credits)

Students must complete a total of 21 credits, combining Specialization - Core and Specialization - Electives.

NOTE:
*6000/7000 level courses offered from other USU Departments may be approved by student's advisor/committee.

Fulfill ALL of the following requirements:

Specialization - Core (2-4 credits)

Complete ALL of the following Courses:
- KIN7910 - Independent Research - 1cr.
- KIN7940 - Journal Reading Group - 1cr.

NOTE:

1. KIN7940 JOURNAL READING GROUP - 1 credit.
2. KIN7910 - 1-3 (repeatable)

AND

Specialization - Electives (17-19 Credits)

Complete 17 - 19 credits from the following:

Complete ANY of the following Courses:
- KIN6050 - Psychological Aspects of Sports Performance - 3cr.
- KIN6200 - Biophysical Aspects of Sport - 3cr.
- KIN6410 - Bioenergetics and Exercise Metabolism - 2cr.
- KIN6425 - Exercise in Extreme Environments - 2cr.
- KIN6440 - Body Composition - 2cr.
- KIN6460 - Exercise Electrocardiogram Interpretation - 2cr.
- KIN6480 - Advanced Neuromuscular Exercise Physiology - 2cr.
- KIN6610 - Topics in Biomechanics - 2cr.
- KIN6840 - Fundamentals of Motor Behavior - 2cr.
- KIN6850 - Neural Aspects of Rehabilitation - 2cr.
- KIN7910 - Independent Research - 1cr.
- KIN7820 - Seminar: Special Topics - 1cr.

AND

Internships (3 credits)

Complete ALL of the following Courses:
- SPED7060 - Research Internship - 1cr.
- SPED7340 - College Teaching Internship - 1cr.
- SPED7330 - Supervision Internship - 1cr.

AND

Products (4 credits)

Complete ALL of the following Courses:

- SPED7040 - Literature Review - 1cr.
- SPED7070 - SPED Grant Writing Internship - 1cr.
- SPED7080 - Writing for Publication - 1cr.
- SPED7090 - Conference Presentation - 1cr.

AND

Preliminary Exams (1 credit)

Complete ALL of the following Courses:

- SPED7840 - Preliminary Exams - 1cr.

AND

Dissertation (12 credits)

A minimum of 12 dissertation credits is required.

Complete ALL of the following Courses:

- SPED7970 - Dissertation - 1cr.

Rehabilitation Counselor Education and Supervision (61 credits)

Type

Completion Requirement

Requirements

Fulfill ALL of the following requirements:

Required Foundation Courses (10 credits)

Complete ALL of the following Courses:

- EDUC6600 - Statistical Foundations - 3cr.
- EDUC6570 - Introduction to Educational and Psychological Research - 3cr.
- SPED7420 - Systematic Literature Reviews - 3cr.
- SPED7920 - Doctoral Program Professional Seminar - 1cr.

AND

Required Program Courses (9 credits)

Earn at least 9 credits from the following:

- REH7750 - Social and Legal Context of Disability - 3cr.
- REH7780 - Bioethics, Ethics and Disability - 3cr.
- SPED7020 - Teaching in Disability Disciplines - 3cr.

AND

Supervision Courses (9 credits)

Complete ALL of the following Courses:

- REH7050 - Professional Issues in Rehabilitation Counselor Education - 3cr.
- REH7760 - Clinical Supervision - 3cr.
- REH7790 - Theoretical Foundations of Counseling - 3cr.

AND

Advanced Research and Electives (9 credits)

EDUC7610 REGRESSION ANALYSIS **Regression Analysis and EDUC 6770 Qualitative Research Methods, plus 3 other graduate-level credits.**

Earn at least 9 credits from the following:

- EDUC7610 - Regression Analysis - 3cr.
- EDUC6770 - Qualitative Research Methods - 3cr.

AND

Formative Practice Experience and Products (11 credits)

Fulfill ALL of the following requirements:

Practicum (1 credit)

Complete ALL of the following Courses:

- REH7010 - Doctoral Practicum - 1cr.

AND

Experience (6 credits)

Earn at least 6 credits from the following:

- REH7060 - Research Internship - 1cr.
- REH7250 - Leadership & Advocacy Internship - 1cr.
- REH7330 - Supervision Internship - 1cr.
- REH7340 - College Teaching Internship - 1cr.
- REH7350 - Counseling Internship - 1cr.

All internship courses are variable credit courses. Total must equal 6 credits.

AND

Products (4 credits)

Complete ALL of the following Courses:

- REH7040 - Literature Review - 1cr.
- REH7070 - REH Grant Writing Internship - 1cr.
- REH7080 - Writing for Publication - 1cr.
- REH7090 - Professional Conference Presentation - 1cr.

Summative Products (13 credits)

Complete ALL of the following Courses:

- REH7840 - Preliminary Examinations - 1cr.
- REH7970 - Dissertation - 1cr.

Students must take a minimum of 12 Dissertation credits.

Special Education (61 credits)

Type

Completion Requirement

Requirements

Fulfill ALL of the following requirements:

Required Core Courses (10 credits)

Complete ALL of the following Courses:

- EDUC6570 - Introduction to Educational and Psychological Research - 3cr.
- EDUC6600 - Statistical Foundations - 3cr.
- SPED7920 - Doctoral Program Professional Seminar - 1cr.

- SPED7420 - Systematic Literature Reviews - 3cr.

AND

Core Electives (6 credits)

Complete at least 2 of the following courses:

- REH7780 - Bioethics, Ethics and Disability - 3cr.
- SPED7400 - Cultural and Linguistic Diversity and Disability - 3cr.
- SPED7750 - Social and Legal Context of Disability - 3cr.
- SPED7020 - Teaching in Disability Disciplines - 3cr.
- SPED7430 - Educational Neuroscience - 3cr.

AND

Specialization Courses (7 credits)

Complete ALL of the following Courses:

- SPED7700 - Single-Subject Research Methods and Designs - 3cr.
- SPED7940 - Journal Reading Group - 1cr.

NOTE:

1. SPED7940 JOURNAL READING GROUP - Take Preliminary Preparation (1 credit), and Special Education (3 one-credit Journal Reading Group courses for a total of 3 credits)

AND

Internships (3 credits)

Complete ALL of the following Courses:

- SPED7060 - Research Internship - 1cr.
- SPED7340 - College Teaching Internship - 1cr.
- SPED7330 - Supervision Internship - 1cr.

AND

Products (4 credits)

Complete ALL of the following Courses:

- SPED7040 - Literature Review - 1cr.
- SPED7070 - SPED Grant Writing Internship - 1cr.
- SPED7080 - Writing for Publication - 1cr.
- SPED7090 - Conference Presentation - 1cr.

AND

Preliminary Exams (1 credit)

Complete ALL of the following Courses:

- SPED7840 - Preliminary Exams - 1cr.

AND

Seminars (15 credits)

Earn at least 15 credits from the following:

- SPED7050 - Internship in Program Evaluation - 1cr.
- SPED7500 - Leadership Education in Disabilities - 1cr.
- SPED7800 - Seminar: Issues in Special Education and Rehabilitation - 1cr.
- SPED7810 - Research Seminar in Special Education and Rehabilitation - 1cr.
- SPED7820 - Seminar: Special Topics - 1cr.
- SPED7830 - Personal Preparation in Disability Disciplines - 3cr.
- EDUC6050 - Applied Statistical Analysis - 3cr.
- EDUC6770 - Qualitative Research Methods - 3cr.
- EDUC6800 - Mixed Methods Research - 3cr.
- EDUC7700 - Grant Writing - 3cr.

Students may also take seminar credits in related disciplines (with committee approval), or take additional research training credits.

AND

Research (3 credits)

Earn at least 3 credits from the following:

- EDUC7610 - Regression Analysis - 3cr.
- EDUC7670 - Literature Reviews in Education and Psychology - 2cr.
- EDUC6010 - Introduction to Program Evaluation: Evaluation Models and Practical Guidelines - 3cr.
- SPED7710 - Advanced Single-Subject Research Methods and Design - 3cr.

AND

Dissertation (12 credits)

Earn at least 12 credits from the following:

- SPED7970 - Dissertation - 1cr.

Speech-Language Pathology (58 credits)

Type

Completion Requirement

Rreuirements

Fulfill ALL of the following requirements:

Required Courses (10 credits)

Complete ALL of the following Courses:

- EDUC6570 - Introduction to Educational and Psychological Research - 3cr.
- EDUC6600 - Statistical Foundations - 3cr.
- SPED7920 - Doctoral Program Professional Seminar - 1cr.
- SPED7420 - Systematic Literature Reviews - 3cr.

AND

Specialization Courses (6 credits)

Complete at least 2 of the following courses:

- REH7780 - Bioethics, Ethics and Disability - 3cr.
- SPED7400 - Cultural and Linguistic Diversity and Disability - 3cr.
- SPED7750 - Social and Legal Context of Disability - 3cr.
- SPED7430 - Educational Neuroscience - 3cr.
- SPED7020 - Teaching in Disability Disciplines - 3cr.

AND

Specialization Electives (15 credits)

Select 15 credits from the following electives or other committee-approved electives to complete degree requirements:

Earn at least 15 credits from the following:

- SHS6020 - Language Assessment and Intervention for School-Age Children and Adolescents - 3cr.
- SHS6120 - Adult Language Disorders - 3cr.
- SHS6130 - Motor Speech Disorders - 3cr.
- SHS6220 - Severe Communication Impairments - 1cr.
- SHS6250 - Birth to Five Language Intervention - 3cr.
- SHS6900 - Independent Study - 1cr.
- SHS7820 - Clinical Research in Audiology - 1cr.
- SHS7830 - Special Topics in Speech-Language Pathology - 3cr.

NOTE:

1. SHS6220 SEVERE COMM IMPAIRMENTS - is 1-3 variable credits. Student should take 3 credits.
2. SHS6900 INDEPENDENT STUDY, SHS7820 CLINICAL RESEARCH IN AUDIOLOGY, SHS7830 ST: SPEECH-LANGUAGE PATHOLOGY - may be repeated for credit.

AND

Advanced Research/Statistics Electives (6 credits)

Earn at least 6 credits (2 courses) from the following or other relevant coursework in advanced statistics/research design:

Complete at least 2 of the following courses:

- SPED7710 - Advanced Single-Subject Research Methods and Design - 3cr.
- PSY7610 - Regression Analysis - 3cr.
- PSY7650 - Multilevel and Marginal Models for the Social Sciences - 3cr.
- PSY7780 - Neuroendocrinology: Hormones and Behavior - 3cr.

AND

Internships (3 credits)

Complete ALL of the following Courses:

- SPED7060 - Research Internship - 1cr.
- SPED7330 - Supervision Internship - 1cr.
- SPED7340 - College Teaching Internship - 1cr.

AND

Products (4 credits)

Complete ALL of the following Courses:

- SPED7040 - Literature Review - 1cr.
- SPED7070 - SPED Grant Writing Internship - 1cr.
- SPED7080 - Writing for Publication - 1cr.
- SPED7090 - Conference Presentation - 1cr.

AND

Preliminary Exams (2 credits)

Complete ALL of the following Courses:

- SPED7840 - Preliminary Exams - 1cr.
- SPED7940 - Journal Reading Group - 1cr.

AND

Dissertation (12 credits)

A minimum of 12 dissertation credits is required.

Complete ALL of the following Courses:

- SPED7970 - Dissertation - 1cr.

Program Learning Outcomes

Program Learning Outcomes

https://www.usu.edu/oda/assessment/

Disability Studies - Minor

Program Overview

College
College of Education & Human Services

Department
Special Education & Rehab Counseling

Program Level
Undergraduate

About this Degree

The Disability Studies minor offers an opportunity to develop knowledge, skills, and perspective to deal with disability issues in future careers. Nearly every student who graduates from Utah State University will deal with disability issues in their future employment, fields of study, and communities. One in five U.S. citizens deals with the limitations of disability in their everyday lives. Participating students will be better prepared to address the complex social, economic, political, and scientific issues affecting the disability community.

Program Requirements

Total Credits Required In Program Coursework
18

Total Credits Required To Earn This Credential
18

Simple Requisites

Program Requirements

Students are required to have a 3.0 (B) or better GPA on all minor coursework with a minimum grade of C in an individual course accepted for the minor. Courses may *not* be taken for a pass/fail grade, unless the course is only taught on a pass/fail basis.

Section 1

Type
Completion Requirement

Core Courses (9 credits)

Complete ALL of the following Courses:

- SPED1010 - Disability and Society (BSS) - 3cr.
  OR REH1010 - Disability and Society (BSS) - 3cr.
- SPED4300 - What is Normal?: Introduction to Disability Studies - 3cr.
- SPED5500 - Interdisciplinary Disability Awareness and Community Engaged Learning - 3cr.

Section 2

Type
Completion Requirement

Electives (9 credits)

Earn at least 9 credits from the following:

- ADVS3150 - Principles of Equine-Assisted Services - 3cr.
- ANTH1010 - Cultural Anthropology (BSS) - 3cr.
- ASL1010 - American Sign Language I - 4cr.
- HDFS1500 - Human Development Across the Lifespan (BSS) - 3cr.
- HDFS2400 - Couple and Family Relationships (BSS) - 3cr.
- HDFS2660 - Parenting and Child Guidance - 3cr.
- HDFS3210 - Families and Cultural Diversity (CI) - 3cr.
- HDFS3500 - Infancy and Childhood - 3cr.
- HDFS3700 - Mental Health Advocacy and Awareness - 3cr.
- JCOM2010 - Media Literacy (BSS) - 3cr.
- JCOM3320 - Strategic Research Methods in Public Relations (DSS) - 3cr.
- MUSC1310 - Introduction to Music Therapy - 2cr.
- POLS1100 - United States Government and Politics (BAI) - 3cr.
- PSY1010 - General Psychology (BSS) - 3cr.
- PSY1100 - Lifespan Development - 3cr.
- PSY2100 - Developmental Psychology: Adolescence - 3cr.
- PSY2300 - Psychological Disorders - 3cr.
- PSY3700 - Mental Health Advocacy and Awareness - 3cr.
- REH2010 - Neurodiversity and Society - 3cr.
- REH2060 - Health Promotion for Individuals with Chronic Illness and Disability - 3cr.
- SHS4700 - Basic Audiology - 3cr.
- SOC1010 - Introductory Sociology (BSS) - 3cr.
- SPED4000 - Education of Students with Disabilities - 3cr.
- SPED4910 - Undergraduate Research and Creative Opportunities - 1cr.
- SW1010 - Introduction to Social Welfare (BSS) - 3cr.
- SW2400 - Social Work with Diverse Populations - 3cr.
- TCR3110 - Accessibility and Disability Rhetorics - 3cr.

Program Learning Outcomes

Program Learning Outcomes

https://cehs.usu.edu/about/assessment

Digital Modeling and Visualization - AS

Program Overview

College
College of Agriculture & Natural Resources

Department
Landscape Architecture & Environmental Planning

Program Level
Undergraduate

About this Degree

The Associate's of Science in Digital Modeling and Visualization prepares students for a career in the digital modeling and visualization industry, specifically preparing students to work in visualization and design firms operating in the built environment and construction sectors, or enter a four-year degree program. The associate degree will also introduce students to fields that incorporate advanced visualization practices such as video games, film, animation, product design, marketing, etc.

- For more information about Digital Modeling and Visualization, see the department website.
- Current and admitted students must meet with an advisor.
- Log on to Degree Works to check student-specific program progress.

Admission Requirements for this Program

- New freshmen: Admitted to USU in Good Standing
- Transfer students from other institutions or other programs at USU: 2.0 GPA

Program Requirements

Total Credits Required In Program Coursework
60

Total Credits Required To Earn This Credential
60

Simple Requisites

Program Requirements

A minimum overall GPA of 3.0 is required in LAEP-prefix courses, with no individual LAEP-prefix course grade less than a C-. No pass/fail grades are accepted to fulfill LAEP-prefix courses. A minimum USU overall GPA of 2.5 is required for all other courses used to fulfill major requirements.

Some of the core coursework fulfills general education requirements, such as BHU requirements. Students should consult with their Academic Advisor and make a plan to complete all general education requirements.

Major Requirements (60 credits)

Type
Completion Requirement

General Education Courses (27 credits)

Complete ALL of the following Course Sets:

- Breadth American Institutions (BAI) Course
- Breadth Creative Arts (BCA) Course
- Breadth Life Sciences (BLS) Course
- Breadth Physical Sciences (BPS) Course
- Breadth Social Sciences (BSS) Course
- Communications Literacy (CL1) Course
- Communications Literacy (CL2) Course
- Depth Humanities and Creative Arts (DHA) Course
- Quantitative Literacy (QL) Course

Required Courses (33 credits)

Complete ALL of the following Courses:

- DMV1050 - Application and Ethics of Visualization - 2cr.
- DMV3100 - Unreal Engine 1 - 4cr.
- LAEP1200 - Introduction to Graphics and Illustration - 4cr.
- LAEP1300 - Digital Drafting, Illustration, and Modeling - 3cr.
- LAEP1360 - Fundamentals of Design - 4cr.
- LAEP2300 - History of Landscape Architecture (BHU) - 3cr.
- LAEP2400 - 3D Representation - 3cr.
- LAEP2450 - Artificial Intelligence Generative Design - 3cr.
- LAEP2900 - VR Design and Thematics Studio - 3cr.

- ***4 credits of elective courses***

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Bachelor's Degree)

Program Learning Outcomes

Program Learning Outcomes

https://www.usu.edu/oda/assessment/

Digital Modeling and Visualization - Institutional Certificate of Proficiency

Program Overview

College
College of Agriculture & Natural Resources

Department
Landscape Architecture & Environmental Planning

Program Level
Undergraduate

About this Degree

The Certificate in Digital Modeling and Visualization program introduces and provides basic preparation to students for a career in the digital modeling and visualization industry, specifically preparing students to work in visualization and design firms operating in the built environment and construction sectors. The certificate will also provide basic preparation for students to work in fields that incorporate advanced visualization practices such as video games, film, animation, product design, marketing, etc.

Program Requirements

Total Credits Required In Program Coursework
16

Total Credits Required To Earn This Credential
16

Simple Requisites

Program Requirements

A minimum overall GPA of 3.0 is required in LAEP-prefix courses, with no individual LAEP-prefix course grade less than a C-. No pass/fail grades are accepted to fulfill LAEP-prefix courses. A minimum USU overall GPA of 2.5 is required for all other courses used to fulfill certificate requirements.

Section 1

Type
Completion Requirement

Modeling Foundation (6 credits)

Complete ALL of the following Courses:

- LAEP1300 - Digital Drafting, Illustration, and Modeling - 3cr.
- LAEP2400 - 3D Representation - 3cr.

Section 2

Type
Completion Requirement

Technical Foundation (7 credits)

Complete ALL of the following Courses:

- LAEP2450 - Artificial Intelligence Generative Design - 3cr.
- DMV3100 - Unreal Engine 1 - 4cr.

Section 3

Type
Completion Requirement

Studio Foundation (3 credits)

Complete ALL of the following Courses:

- LAEP2900 - VR Design and Thematics Studio - 3cr.

Program Learning Outcomes

Program Learning Outcomes

https://caas.usu.edu/laep/assessment/

Drones for Natural Resource and Environmental Management - Certificate

Program Overview

College
College of Agriculture & Natural Resources

Department
Environment & Society

Program Level
Undergraduate

About this Degree

The Certificate in Drones for Natural Resource and Environmental Management combines remote sensing and geographic information science (GIS) courses offered by the Department of Environment and Society with basic coursework for operation of unmanned aircraft systems (UAS, or drones) offered by the Department of Aviation Technology. Students who complete this certificate can use UAS/drones (and the data they can help collect) for application to environmental and natural resource management and decision-making.

This certificate can be combined with the Applied Geographic Information Science - Certificate and/or the certificate in Remote Sensing and Geospatial Artificial Intelligence Foundations - Certificate The addition of this certificate or any of the other geospatial certificates complements a bachelor's degree in many different fields, including all those connected to natural resources, environmental science or studies, sustainability, agriculture, and planning. The knowledge and skills provided support job placement and career success.

Admission Requirements for this Program

To be admitted to this program, students must be pursuing BS or BA degree at Utah State University. Students should make an appointment with an academic advisor in the S. J. and Jessie E. Quinney College of Agriculture and Natural Resources to add this certificate: https://qanr.usu.edu/advising/.

Program Requirements

Total Credits Required In Program Coursework
11-12

Total Credits Required To Earn This Credential
11

Simple Requisites

Program Requirements

The certificate curriculum consists of one course (3 credits) that prepares students for, and one course (1 credit) that then documents, licensing to operate an unmanned aircraft system (UAS or drone), combined with additional courses (7-8 credits) that train students to use UAS/drones for natural resource and environmental applications. These courses train students to process correctly the data produced by a UAS/drone and then analyze the data for natural resource or environmental management and decision-making.

Drones for Natural Resource and Environmental Management - Certificate (11-12 credits)

Type
Completion Requirement

Required Courses

Complete ALL of the following Courses:

- UAS1010 - Unmanned Aircraft Systems - Remote Pilot - 3cr.
  OR UAS3010 - Unmanned Aircraft System Introduction to Remote Pilot Certification - 3cr.
- UAS1020 - Unmanned Aircraft Systems Part 107 Test - 1cr.
- GEOG2800 - Introduction to Geographic Information Sciences - 4cr.
  OR WILD2800 - Introduction to Geographic Information Sciences - 4cr.
- GEOG3200 - Principles of Remote Sensing - 3cr.
- GEOG4815 - Insights from Above: Processing and Analyzing Drone Data - 1cr.
  OR WATS4720 - Drone Data Analysis for Environmental Restoration - 2cr.

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Undergraduate Academic or Technical Certificates)

Program Learning Outcomes

Program Learning Outcomes

Students will be able to:

1. Secure their license to operate an unmanned aircraft system (or "drone").
2. Demonstrate an understanding of basic remote sensing principles.
3. Effectively apply basic geographic information science (GIS) to natural resources and/or environmental problems.
4. Apply basic remote sensing principles to processing and analyzing drone data.

Didactic Program in Dietetics - Post-Bachelor's Certificate

Program Overview

College
College of Agriculture & Natural Resources

Department
Nutrition, Dietetics & Food Sciences

Program Level
Graduate

About this Degree

The Didactic Program in Dietetics (DPD) verification statement certificate program is intended for individuals who have a bachelor's degree and are working to become a Registered Dietitian Nutritionist (RDN). Upon completion of the courses in the certificate program, the individual will receive a DPD verification statement which will qualify them to apply to a dietetics supervised practice program of their choice.

Admission Requirements for this Program

Prior to acceptance into the DPD post-bachelor's certificate program, the applicant must have taken the following courses within the last 10 years and received a C- or better grade. An overall GPA of at least 3.0 is required.

- General Chemistry
- Organic Chemistry
- Biochemistry
- Introduction to Human Nutrition
- Human Physiology or Human Anatomy
- Nutrition Throughout the Lifecycle
- Principles of Statistics
- General Psychology
- Food Literacy / Culinary Basics
- Medical Terminology

Learn more about the program and apply here.

Program Requirements

Total Credits Required In Program Coursework
29

Total Credits Required To Earn This Credential
29

Simple Requisites

Program Requirements

Didactic Program in Dietetics Certificate Course Requirements

Type
Completion Requirement

Required Courses (29 credits)

All courses must be completed with a grade of B- or higher to obtain a DPD Verification Statement.

Complete ALL of the following Courses:

- NDFS5430 - Nutrition Assessment - 3cr.
- NDFS5431 - Education and Counseling Methods in Dietetics I - 3cr.
- NDFS5432 - Community Nutrition - 3cr.
- NDFS5433 - Advanced Nutrition - 3cr.
- NDFS5434 - Food Service Systems - 3cr.
- NDFS5435 - Education and Counseling Methods in Dietetics II - 3cr.
- NDFS5436 - Science of Food Preparation - 4cr.
- NDFS5437 - Medical Nutrition Therapy - 4cr.
- NDFS5438 - Management in Dietetics - 3cr.

Suggested Degree Maps

Degree Map Name
Didactic Program in Dietetics - Post-Baccalaureate Certificate
Total Degree Map Credits
29
Degree Map Effective Catalog Year
2027 -

Degree Map Narrative

Courses listed in this suggested degree map show students which semesters courses are offered. This certificate can be completed in one year. Students can also take up to three years to complete all certificate courses.

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	15	0

Requirement Select
- NDFS5430 - Nutrition Assessment

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- NDFS5431 - Education and Counseling Methods in Dietetics I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- NDFS5432 - Community Nutrition

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- NDFS5433 - Advanced Nutrition

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- NDFS5434 - Food Service Systems

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	14	0

Requirement Select

- NDFS5435 - Education and Counseling Methods in Dietetics II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- NDFS5436 - Science of Food Preparation

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- NDFS5437 - Medical Nutrition Therapy

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- NDFS5438 - Management in Dietetics

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Total General Education Credits	Total Major Credits
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Program Learning Outcomes

Program Learning Outcomes

https://QANR.usu.edu/ndfs/assessment

Drafting Design - Technical Certificate

Program Overview

College
College of Agriculture & Natural Resources

Department
Technology, Design & Technical Ed

Program Level
Undergraduate

About this Degree

Federal Gainful Employment Information

Are there students who want to turn their creativity into a career designing the buildings, products, and technology of the future? So that they gain the technical skills and industry knowledge to bring ideas to life with precision and innovation. For example, students will learn to create detailed blueprints, 3D models, and technical drawings using the latest CAD software. This program connects students with real-world projects and industry professionals, preparing you for careers in architecture, engineering, manufacturing, and beyond.

Program Requirements

Total Credits Required In Program Coursework
17

Total Credits Required To Earn This Credential
17

Simple Requisites

Program Requirements

Drafting Design Requirements

Type
Completion Requirement

Required Courses (14 credits)

Complete ALL of the following Courses:

- EDDT1010 - Technical Drafting - 4cr.
- EDDT1040 - CAD Level I: Intro to CAD - 3cr.
- EDDT1200 - 3D Modeling - 3cr.
- ELET1110 - Technical Mathematics - 3cr.

Elective Technical Courses (3 credits)

Complete ALL of the following Courses:

- EDDT1070 - CAD Level II: Intro to 3-D - 3cr.
- EDDT1100 - Residential Architectural Drafting - 3cr.
- EDDT2977 - Internship Education Experiences - 1cr.
- TEIT2500 - Web Business - 3cr.

Program Learning Outcomes

Program Learning Outcomes

https://caas.usu.edu/tdte/assessment/

Dietetics - Didactic Program in Dietetics Emphasis - BS

Program Overview

College
College of Agriculture & Natural Resources

Department
Nutrition, Dietetics & Food Sciences

Program Level
Undergraduate

About this Degree

Dietetics is the application of the science of nutrition to humans in healthcare and food service settings.

This degree prepares students to become a Registered Dietitian Nutritionist (RDN). RDNs are credentialed healthcare professionals who specialize in food and nutrition.

The dietetics program at Utah State University is an in-person program providing many opportunities for hands-on learning.

This program prepares students for advanced training in dietetics needed to qualify students to sit the national registration exam for Registered Dietitian Nutritionists. The exam is required for licensing in most states, including Utah. Additional information on licensing and certification programs can be found at https://www.cdrnet.org/LicensureMap.

- For more information about Nutrition, Dietetics and Food Sciences, see the website.
- Admitted and current students must meet with an advisor.
- Log on to Degree Works to check student-specific program progress.
- The highest math requirement for this degree is MATH1050 COLLEGE ALGEBRA (QL)

Admission Requirements for this Program

- New freshmen: Admitted to USU in good standing
- Transfer students from other institutions or other programs at USU: 3.0 GPA

Program Requirements

Total Credits Required In Program Coursework
89

Total Credits Required To Earn This Credential
120

Simple Requisites

Program Requirements

- After completing pre-major coursework, students who meet the major GPA requirement (3.0 or better) will be eligible for advanced standing in the Didactic Program in Dietetics.
- Students must complete 120 credits to earn a bachelor's degree, including 40 credits upper division. Consultation with their advisor is important to choose elective courses that will be most effective in helping them reach their academic goals. Contact Dawnetta Mahnken, dawnetta.mahnken@usu.edu, 435-797-2282 for advising or schedule an appointment through this link.
- To receive a verification statement, students must complete all required core knowledge requirements (KRDNs). To learn more about verification statements and KRDNs, please see the DPD Program Handbook.

The Dietetics: Didactic Emphasis program requires an overall GPA of 3.0 and a major coursework GPA of 3.0 to meet Didactic emphasis admission requirements. The courses below require a grade of C- or better. ENGL1010 WRITING AS INQUIRY (CL1) and MATH1050 COLLEGE ALGEBRA (QL) can be completed through AP, ACT, or SAT equivalent scores.

Dietetics: Didactic Emphasis - BS Course Requirements

Type

Completion Requirement

Dietetics Pre-Major Coursework Requirements (27 credits)

Complete ALL of the following Courses:

- CHEM1210 - Principles of Chemistry I - 4cr.
- MATH1050 - College Algebra (QL) - 4cr.
- NDFS1020 - Science and Application of Human Nutrition (BLS) - 3cr.
- NDFS1030 - Introduction to Dietetics and Nutrition Science - 1cr.
- NDFS1240 - Food Literacy - 3cr.
- NDFS2020 - Nutrition Throughout the Life Cycle - 3cr.
- PSY1010 - General Psychology (BSS) - 3cr.

Students are also required to fulfill the Communications Literacy (CL2) requirement with a C- grade or higher.

Major Requirements (62-64 credits)

The Dietetics: Didactic Emphasis program requires an overall GPA of 2.0 and a major coursework GPA of 3.0. Courses below with an NDFS prefix require a grade of B- or better. All other courses require a grade of C- or better.

Complete ALL of the following Courses:

- BIOL2420 - Human Physiology - 4cr.
- CHEM2300 - Principles of Organic Chemistry - 3cr.
- CHEM3700 - Introductory Biochemistry - 3cr.
- STAT1040 - Introduction to Statistics (QL) - 3cr.
  OR STAT1045 - Introduction to Statistics with Elements with Algebra (QL) - 5cr.
- NDFS1250 - Sanitation and Safety - 3cr.
- NDFS1600 - Medical Terminology for Health Care Professionals - 2cr.
  OR HEAL1008 - Medical Terminology - 2cr.
- NDFS2030 - Nutrition and Physical Performance - 2cr.
- NDFS2500 - Dietetics-Related Experiences I - 1cr.
- NDFS3010 - Didactic Program in Dietetics Orientation - 1cr.
- NDFS3040 - Nutrition Assessment - 3cr.
- NDFS3045 - Nutrition Assessment Lab - 1cr.
- NDFS3050 - Education and Counseling Methods in Dietetics I (CI) - 3cr.
- NDFS3060 - Education and Counseling Methods in Dietetics II (CI) - 3cr.
- NDFS3065 - Education and Counseling Lab - 1cr.
- NDFS3070 - Science of Food Preparation - 4cr.
- NDFS3080 - Community Nutrition - 3cr.
  OR NDFS5432 - Community Nutrition - 3cr.
- NDFS4010 - Preparation for Supervised Practice - 1cr.
- NDFS4020 - Advanced Nutrition - 3cr.
  OR NDFS5433 - Advanced Nutrition - 3cr.
- NDFS4560 - Medical Nutrition Therapy (CI) - 4cr.
- NDFS4710 - Food Service Systems - 3cr.
- NDFS4720 - Management in Dietetics (QI) - 3cr.
- NDFS4780 - Maternal and Child Nutrition (CI) - 3cr.
- NDFS5300 - Advanced Micronutrient Nutrition - 3cr.
- NDFS5750 - Advanced Dietetics Practicum - 2cr.

NOTE:

1. NDFS2500 DIETETICS-RELATED EXP I - 1 credit is required

Recommended Electives

These courses are recommended, but not required, for this degree. Total elective credit is determined by General Education courses taken, degree type selected, additional credits earned, and any additional math or other prerequisite courses needed. Please consult your Academic Advisor for details.

Complete ALL of the following Courses:

- USU1010 - University Connections - 2cr.
- NDFS2500 - Dietetics-Related Experiences I - 1cr.
- NDFS5410 - Nutrient Gene Interactions (CI) - 3cr.

NOTE:

1. NDFS2500 DIETETICS-RELATED EXP I - 1 credit is required, additional credits can be taken as elective credits

Additional Comments:

Licensure Notification

This program typically leads to licensure and was designed to meet licensing qualifications in the state of Utah. If students wish to work in another state within the United States, they should review the qualifications for that state per the information provided by The Academy of Nutrition and Dietetics.

According to the most recent information from the sponsoring department, this program:

- Meets licensure requirements in the following states: OR, WA, CA, ID, NV, AZ, UT, AK, MT, WY, CO, HI, ND, SD, NE, KS, OK, TX, MN, IO, MS, AR, MS, TN, KY, OH, WV, PA, NH, VT,MA, RI, CT, NJ, DE, MD, VA, NC, SC, GA, FL
- Does not meet licensure requirements in: ME
- Has not determined if the program meets licensure requirements in the remaining states.

A detailed spreadsheet on states and requirements can be found on this spreadsheet. For more information, please see additional information regarding USU's Programs in Dietetics at https://qanr.usu.edu/degrees/ndfs/undergrad/dietetics.

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Bachelor's Degree)

Suggested Degree Maps

Degree Map Name

Suggested Degree Map - Dietetics: Didactic Emphasis BS

Total Degree Map Credits

112 - 129

Degree Map Effective Catalog Year

2027 -

Degree Map Narrative

- Following is a sample four-year plan. Please note that student-specific plans may differ.

- Meet with an academic advisor to create a specific plan that best fits your academic needs.
- The student is ultimately responsible for knowing and completing all degree requirements.
- Make sure you meet the registration requirements for each class by clicking the course link and checking any prerequisites or corequisites.
- Consultation with an advisor may result in an altered plan customized for an individual student.
- Check your Degree Works for requirements and completion.

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	16	0

Requirement Select
- ENGL1010 - Writing as Inquiry (CL1)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- MATH1050 - College Algebra (QL)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- NDFS1020 - Science and Application of Human Nutrition (BLS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- NDFS1030 - Introduction to Dietetics and Nutrition Science

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- USU1010 - University Connections

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select
- Breadth American Institutions (BAI) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- USU1010 is recommended as an elective course; the BAI course may be taken pass/fail (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	12 - 18	0

Requirement Select

- ENGL2010 - Research and Argument Across Perspectives (CL2)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- STAT1040 - Introduction to Statistics (QL)

OR

- STAT1045 - Introduction to Statistics with Elements with Algebra (QL)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 5
Progress Credits	-
Contact Hours	3 - 5
Clinical	-
Criticality	No

Requirement Select

- NDFS2020 - Nutrition Throughout the Life Cycle

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- PSY1010 - General Psychology (BSS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Breadth Physical Sciences (BPS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	0 - 4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	15	0

Requirement Select

- BIOL2420 - Human Physiology

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- NDFS1240 - Food Literacy

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- NDFS2030 - Nutrition and Physical Performance

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select
- Breadth Humanities (BHU) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Breadth Creative Arts (BCA) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	13 - 20	0

Requirement Select
- CHEM1210 - Principles of Chemistry I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- NDFS1600 - Medical Terminology for Health Care Professionals

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select
- NDFS2500 - Dietetics-Related Experiences I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1 - 6
Progress Credits	-
Contact Hours	1 - 6
Clinical	-
Criticality	No

Requirement Select
- Depth Humanities and Creative Arts (DHA) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1 - 3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective course - 2 credits (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective course - 3 credits (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- 1 credit is required in NDFS2500; the DHA may be taken pass/fail (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Fall	13 - 17	0

Requirement Select

- CHEM2300 - Principles of Organic Chemistry

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- NDFS3050 - Education and Counseling Methods in Dietetics I (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- NDFS3080 - Community Nutrition

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- NDFS1250 - Sanitation and Safety

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- NDFS3010 - Didactic Program in Dietetics Orientation

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- Depth Social Sciences (DSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	0 - 4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- The DSS may be taken pass/fail (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Spring	15	0

Requirement Select
- CHEM3700 - Introductory Biochemistry

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- NDFS3070 - Science of Food Preparation

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- NDFS3060 - Education and Counseling Methods in Dietetics II (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- NDFS3065 - Education and Counseling Lab

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- NDFS4780 - Maternal and Child Nutrition (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Elective course - 1 credit (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Fall	13	0

Requirement Select
- NDFS4020 - Advanced Nutrition

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- NDFS4710 - Food Service Systems

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- NDFS3040 - Nutrition Assessment

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- NDFS3045 - Nutrition Assessment Lab

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- NDFS5750 - Advanced Dietetics Practicum

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select
- NDFS4010 - Preparation for Supervised Practice

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Spring	15	0

Requirement Select
- NDFS4560 - Medical Nutrition Therapy (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- NDFS4720 - Management in Dietetics (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- NDFS5300 - Advanced Micronutrient Nutrition

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Elective course - 2 credits (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Elective course - 3 credits (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Program Learning Outcomes

Program Learning Outcomes

https://QANR.usu.edu/ndfs/assessment

Dietetic Internship - Post-Bachelor's Certificate

Program Overview

College	Department	Program Level
College of Agriculture & Natural Resources	Nutrition, Dietetics & Food Sciences	Graduate

About this Degree

The Dietetic Internship (DI) is a post-bachelor's certificate program that provides the required supervised practice experience for students that have completed the necessary didactic dietetics coursework and have a desire to become a Registered Dietitian. Dietetic interns complete 27 weeks of supervised practice and concurrent graduate online courses in clinical, community, and food service management with a program emphasis in Child Nutrition Programs and School Food Service Systems Management. All Prior Assessed Learning (PAL) internship hours that are waived will be noted on the transcript. The completion of the practice hours and online courses results in a total of 26 graduate credits. These credits can later be used towards obtaining the Master of Dietetics Administration (MDA) degree. On completion of the internship, the students are awarded a post-bachelor's certificate recognizing their completion of the graduate coursework and are eligible to sit for the national registered dietitian examination.

A Registered Dietitian is a highly-qualified health professional, recognized as an expert on food and nutrition. Dietitians are employed in a variety of settings and work in management or as clinicians in healthcare institutions, schools, universities, industry, home health agencies, government-funded agencies, wellness programs, research, and so forth.

Admission Requirements for this Program

Students seeking admission must meet the minimum selection criteria and satisfy the admissions requirements for the DI program. This includes participating in the DICAS online centralized dietetic internship application and D&D Digital Dietetic Internship Matching service.

For a complete list of admission requirements and minimum selection criteria for this program, please refer to dieteticinternship.usu.edu.

Program Requirements

Total Credits Required In Program Coursework	Total Credits Required To Earn This Credential
26	26

Simple Requisites

Program Requirements

Program Schedule

The DI is designed to allow students to train in their current location or a location that is convenient for the individual student. As part of the application process, prospective students are responsible for finding their own training facilities and preceptors in their desired location, based on the USU DI guidelines.

The online courses listed below are variable credits and students are enrolled in classes corresponding to their supervised practice schedule.

Dietetic Internship Course Requirements

Type
Completion Requirement

Required Courses (26 credits)

Complete ALL of the following Courses:

- NDFS6050 - Community Nutrition Experience - 3cr.
- NDFS6250 - Clinical Nutrition Experience - 3cr.
- NDFS6350 - Food Service Management Experience - 3cr.
- NDFS6450 - Dietetics Career Essentials - 1cr.

5 credits required of NDFS6050 COMMUNITY NUTRITION EXPERIENCE

9 credits required of NDFS6250 CLINICAL NUTRITION EXPERIENCE

11 credits required of NDFS6350 FOOD SERVICE MGMT EXPERIENCE

Additional Comments:
The USU DI meets the performance requirements for supervised practice hours for students who have completed the academic requirements of the Accreditation Council for Education in Nutrition and Dietetics (ACEND), the Academy of Nutrition and Dietetics' accrediting agency for education programs preparing students for careers as registered dietitian nutritionists (RDN).

It is ACEND's considered opinion that the program is designed to and meets all state dietetics licensure and certification laws as some states may interpret their statutes differently. More information about state licensure and certification is available at this link: State Licensure.

Program Learning Outcomes

Program Learning Outcomes
https://caas.usu.edu/ndfs/assessment

Dual Language Immersion - Institutional Certificate of Proficiency

Program Overview

College
College of Education & Human Services

Department
School of Teacher Education & Leadership, World Languages and Cultures

Program Level
Undergraduate

About this Degree
Utah State University offers the coursework and field experiences required for a Dual Language Immersion (DLI) endorsement. The endorsement itself is granted by the Utah State Board of Education, but undergraduate students can apply for the endorsement when they apply for the Professional Educator License upon successful completion of their program. Eligible languages include: Spanish, French, Chinese, German, Portuguese, and Russian. The endorsement is available to:

- University students seeking undergraduate degrees in elementary or secondary education (with licensure)
- University students enrolled in the Master's program in the School of Teacher Education & Leadership and currently have a Utah Professional Educator License
- Licensed teachers who are currently teaching in a DLI school in Utah

Program Requirements

Total Credits Required In Program Coursework
23.5

Total Credits Required To Earn This Credential
23.5

Simple Requisites

Program Requirements

Oral Proficiency Interview (OPI/OPIc)

- An OPI or OPIc score of Advanced-Mid, are required to earn the DLI Endorsement through the Utah State Board of Education. Instructions for taking the OPI.
- **Pre-service teachers** may enter the DLI endorsement program with a minimum of an Advanced-Low score on the OPI or OPIc. To continue their language development during the program, students may need to take university-level courses in the target language of instruction (beyond grammar courses), or they may pursue a rigorous study abroad program. It is recommended that students take the language proficiency tests as soon as they return from an experience abroad or complete advanced language coursework.
    - An Advanced-Mid score on the OPI is required for the field experience hours. Thus, we recommend students achieve this score (or higher) as soon as possible.
- **Practicing teachers who are already teaching in DLI schools** while earning the endorsement are expected to enter the program having passed the OPI/OPIc and WPT at a level of Advanced-Mid or higher.

The certificate requires the courses listed below. All courses must be completed with C grades or higher.

Dual Language Immersion - ICP

Type
Completion Requirement

Required Courses (16.5-19 credits)

Fulfill ALL of the following requirements:

Foundations

Complete ALL of the following Courses:

- LING4700 - Foundations of Dual Language and Immersion Education - 3cr.
- TEAL5735 - Language Systems, Acquisition, and Instruction for English Learners - 3cr.
  OR SPAN4200 - Introduction to Hispanic Linguistics - 3cr.
  OR SPAN5060 - Spanish for Professional and Academic Purposes - 3cr.

AND

Second Language Acquisition, Teaching Methods & Assessment

Complete ALL of the following Courses:

- LING5400 - Teaching Modern Languages - 3cr.
- SCED3300 - Clinical Experience I - 1cr.
  OR SCED4300 - Clinical Experience II - 1cr.

AND

Required Courses

Complete ALL of the following Courses:

- TEAL5770 - Content Based Instruction for Dual Language Immersion/English as a Second Language - 3cr.
- TEAL5780 - Assessment for Language Learners - 3cr.
- TEAL5790 - ESOL Field Experience - 0.5cr.

Program Learning Outcomes

Program Learning Outcomes

https://cehs.usu.edu/teal/assessment/

Dual Language Immersion - Post-Bachelor's Certificate

Program Overview

College
College of Education & Human Services

Department
School of Teacher Education & Leadership

Program Level
Graduate

About this Degree

Utah State University offers the coursework and field experiences required for a Dual Language Immersion (DLI) endorsement. The endorsement itself is granted by the Utah State Board of Education, but undergraduate students can apply for the endorsement when they apply for the Professional Educator License upon successful completion of their program. Eligible languages include: Spanish, French, Chinese, German, Portuguese, and Russian. The endorsement is available to:

- University students seeking undergraduate degrees in elementary or secondary education (with licensure)
- University students enrolled in the Master's program in the School of Teacher Education & Leadership and currently have a Utah Professional Educator License
- Licensed teachers who are currently teaching in a DLI school in Utah

Program Requirements

Total Credits Required In Program Coursework
23.5

Total Credits Required To Earn This Credential
23.5

Simple Requisites

Program Requirements

Oral Proficiency Interview (OPI/OPIc)

- An OPI or OPIc score of Advanced-Mid, are required to earn the DLI Endorsement through the Utah State Board of Education. Instructions for taking the OPI.
- **Pre-service teachers** may enter the DLI endorsement program with a minimum of an Advanced-Low score on the OPI or OPIc. To continue their language development during the program, students may need to take university-level courses in the target language of instruction (beyond grammar courses), or they may pursue a rigorous study abroad program. It is recommended that students take the language proficiency tests as soon as they return from an experience abroad or complete advanced language coursework.
  - An Advanced-Mid score on the OPI is required for the field experience hours. Thus, we recommend students achieve this score (or higher) as soon as possible.
- **Practicing teachers who are already teaching in DLI schools** while earning the endorsement are expected to enter the program having passed the OPI/OPIc and WPT at a level of Advanced-Mid or higher.

The certificate requires the courses listed below. All courses must be completed with C grades or higher.

Dual Language Immersion - Post-Bachelor's Certificate

Type
Completion Requirement

Required Courses

Fulfill ALL of the following requirements:

Foundations

Complete ALL of the following Courses:

- LING4700 - Foundations of Dual Language and Immersion Education - 3cr.
- TEAL5735 - Language Systems, Acquisition, and Instruction for English Learners - 3cr.
  OR SPAN4200 - Introduction to Hispanic Linguistics - 3cr.
  OR SPAN5060 - Spanish for Professional and Academic Purposes - 3cr.

AND

Second Language Acquisition, Teaching Methods & Assessment

Complete ALL of the following Courses:

- LING5400 - Teaching Modern Languages - 3cr.
- SCED3300 - Clinical Experience I - 1cr.
  AND SCED4300 - Clinical Experience II - 1cr.

AND

Required Courses

Complete ALL of the following Courses:

- TEAL6770 - Content Based Instruction for Dual Language Immersion/English as a Second Language - 3cr.
- TEAL6780 - Assessment for Language Learners - 3cr.
- TEAL6790 - ESOL Field Experience - 0.5cr.

Program Learning Outcomes

Program Learning Outcomes

https://cehs.usu.edu/teal/assessment/

Digital Writing and Publication - Certificate

Program Overview

College
College of Arts & Sciences

Department
English

Program Level
Undergraduate

About this Degree

This certificate provides students with the opportunity to work across the fields of creative writing, technical communication, and journalism to acquire the tools and the knowledge to make intentional choices in language and presentation.

The certificate draws on three areas in the College of Humanities and Social Sciences, specifically Journalism and Communication (JCOM), Technical Communication and Rhetoric (TCR), and Creative Writing (CW). Students are required to complete 18 credits, including nine credits from the core classes, with one core class from each area: Journalism and Communication (JCOM), Technical Communication and Rhetoric (TCR), and Creative Writing (CW).

Program Requirements

Total Credits Required In Program Coursework
18

Total Credits Required To Earn This Credential
18

Simple Requisites

Program Requirements

Students must earn a grade of C or better in courses they are counting toward the certificate and must maintain a 2.75 GPA or better in certificate courses.

Digital Writing and Publication - Technical Certificate

Type
Completion Requirement

Core Courses (9 credits)

Students are required to complete nine credits from the core classes, with one core class from each area: Journalism and Communication (JCOM), Technical Communication and Rhetoric (TCR), and Creative Writing (CW).

Fulfill ALL of the following requirements:

Journalism and Communication (JCOM) Core Courses (3 credits)

Complete at least 1 of the following courses:

- JCOM2030 - Multimedia Bootcamp - 4cr.
- JCOM2220 - Introduction to Video Media - 3cr.
- JCOM2400 - Introduction to Social Media - 3cr.

AND

Technical Communication and Rhetoric (TCR) Core Courses (3 credits)

Complete at least 1 of the following courses:

- TCR2100 - Introduction to Technical Communication - 3cr.
- TCR2110 - Digital Writing Technologies - 3cr.
- TCR3220 - Technical Editing (CI) - 3cr.

AND

Creative Writing (CW) Core Courses (3 credits)

Complete at least 1 of the following courses:

- ENGL3420 - Fiction Writing - 3cr.

- ENGL3430 - Poetry Writing - 3cr.
- ENGL3440 - Creative Nonfiction Writing - 3cr.

Elective Courses (9 credits)

Students must take nine additional credits from either core or elective courses in three areas. Students may count a three-credit internship as part of those nine additional credits. Whether the additional nine credits include an internship or not, the credits must come from at least two of the three areas.

Fulfill ANY of the following requirements:

Journalism and Communication (JCOM) Courses

Complete ANY of the following Courses:

- JCOM3110 - Feature Writing (CI) - 3cr.
- JCOM3140 - Opinion Writing (DSS) - 3cr.
- JCOM4010 - Mass Communication Ethics (DSS) - 3cr.
- JCOM4020 - Mass Media and Society (DSS) - 3cr.
- JCOM4030 - Mass Media Law (DSS) - 3cr.
- JCOM4410 - Gender and the Mass Media - 3cr.
- JCOM4510 - Communication Internship - 1cr.
- JCOM5400 - Social Media Strategy, Analytics & Artificial Intelligence - 3cr.

OR

Technical Communication and Rhetoric (TCR) Courses

Complete ANY of the following Courses:

- TCR3110 - Accessibility and Disability Rhetorics - 3cr.
- TCR4210 - Visual Communication Design - 3cr.
- TCR4220 - Technology and Activism - 3cr.
- TCR4230 - Project Management - 3cr.
- ENGL4900 - Internship/Cooperative Work Experience - 1cr.

OR

Creative Writing (CW) Courses

Complete ANY of the following Courses:

- ENGL3420 - Fiction Writing - 3cr.
- ENGL3430 - Poetry Writing - 3cr.
- ENGL3440 - Creative Nonfiction Writing - 3cr.

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Undergraduate Academic or Technical Certificates)

Program Learning Outcomes

Program Learning Outcomes

https://chass.usu.edu/journalism/assessments

Early Childhood - Certificate

Program Overview

College
College of Education & Human Services

Department
Human Development and Family Studies

Program Level
Undergraduate

About this Degree

The 16-credit Early Childhood Certificate equips individuals with essential skills and knowledge to support the cognitive, social, emotional, and physical development of young children.

Program Requirements

Total Credits Required In Program Coursework
16

Total Credits Required To Earn This Credential
16

Simple Requisites

Program Requirements

Students may complete the Early Childhood Certificate through online, in-person, or a combination of both course formats.

- **Coursework:** Classes are available in-person or online.
- **Practicum:** This is a site-based requirement. Online students work with the department to arrange a placement in their local community, while in-person students utilize the Child Development Lab.

To learn more, contact Laura Holley (laura.holley@usu.edu) or explore the department website: https://cehs.usu.edu/hdfs/undergraduate/early-childhood-certificate.

Early Childhood - Certificate

Type
Completion Requirement

Required Courses (13 credits)

Complete ALL of the following Courses:

- HDFS1500 - Human Development Across the Lifespan (BSS) - 3cr.
- HDFS2200 - Special Topics in Human Development and Family Studies - 3cr.
- HDFS2600 - Seminar in Early Childhood Education - 2cr.
- HDFS2605 - Early Childhood Education Practicum - 2cr.
- HDFS3500 - Infancy and Childhood - 3cr.

Elective Courses (3 credits)

Complete at least 1 of the following courses:

- HDFS2660 - Parenting and Child Guidance - 3cr.
- HDFS3100 - Abuse and Neglect in Family Context - 3cr.
- HDFS4550 - Preschool Methods and Curriculum - 3cr.
- SW3350 - Child Welfare - 3cr.

To learn more, contact Laura Holley (Laura.Holley@usu.edu) or explore the department website: https://cehs.usu.edu/hdfs/undergraduate/early-childhood-certificate

Program Learning Outcomes

Program Learning Outcomes
https://cehs.usu.edu/about/assessment

Earth Science Teaching - BA, BS

Program Overview

College
College of Agriculture & Natural Resources

Department
Geosciences

Program Level
Undergraduate

About this Degree
The earth science teaching major prepares students to teach earth science in secondary schools. A bachelor's degree in the Earth Science Teaching Major includes: University Studies, as required by the College of Science; the Teaching Major; and the Secondary Teacher Education Program (STEP). Students majoring in the Earth Science Teaching Major will complete courses which provide an in-depth understanding of geological principles.

The Earth Science Teaching Major program is fully accredited by the Utah State Office of Education and the National Council for Accreditation of Teacher Education. It requires a 3.00 GPA and a grade of C or better in all chemistry and physics prefix courses.

- For more information about Geology, see the Geosciences Department.
- Admitted and current students must meet with an advisor.
- Log on to Degree Works to check student-specific program progress.
- The highest math requirement for this degree is MATH1210 CALCULUS I (QL).

Bachelor of Arts Degree Requirement

In addition to completion of the requirements for a bachelor's degree, a Bachelor of Arts (BA) degree signifies proficiency in one or more foreign languages. Specifically, the BA requirement may be completed in one of the following ways:

- Demonstration of proficiency in one foreign language by successful completion of one course at the 2020-level or higher (or its equivalent) **OR**
- Demonstration of proficiency in American Sign Language by successful completion of American Sign Language IV (ASL4920 AMERICAN SIGN LANGUAGE IV) and Socio-Cultural Aspects of Deafness (ASL4780 DEAF CULTURE), and by passing an exit interview **OR**
- Demonstration of proficiency in two foreign languages by successful completion of the 1020 course level or higher in one language **and** the 2010 course level or higher in the second language (or its equivalent) **OR**
- Completion of an upper-division (3000-level or higher) foreign language grammar or literature course requiring the 2020 course level (or its equivalent) as a prerequisite. Conversation courses cannot be considered for satisfying this requirement.

For non-native English-speaking students only, the following options are available:

- Successful completion of the Intensive English Language Institute (IELI) program for international students OR
- TOEFL, IELTS, other USU approved exam, or IELI placement scores high enough to meet the university admission criteria.

Admission Requirements for this Program
- New freshmen admitted to USU in good standing qualify for admission to this major. A 3.0 GPA, ACT scores of 21 composite and 20 verbal/English and 19 mathematics/quantitative and 60 credits of coursework are required for admission to the Secondary Teacher

Education Program (STEP). Students should contact the School of Teacher Education and Leadership (TEAL) for information on additional admission criteria.

- Transfer students from other institutions or other USU majors need a 3.0 GPA, ACT scores of 21 composite and 20 verbal/English and 19 mathematics/quantitative to be admitted to the major. They also need 60 credits of coursework to be admitted to the STEP. Students should contact the School of Teacher Education and Leadership (TEAL) for information on additional admission criteria.

Program Requirements

Total Credits Required In Program Coursework
96

Total Credits Required To Earn This Credential
120

Simple Requisites

Program Requirements

Requires a 3.00 GPA in major requirements.

A grade of C or better is required in all Chemistry (CHEM) and Physics (PHYS) prefix courses.

Earth Science Teaching - BA, BS

Type
Completion Requirement

Geology/Earth Science Requirements (46 credits)

Complete ALL of the following Courses:

- BIOL1010 - Biology and the Citizen (BLS) - 3cr.
- CHEM1210 - Principles of Chemistry I - 4cr.
- CHEM1215 - Chemical Principles Laboratory I - 1cr.
- CHEM1220 - Principles of Chemistry II (BPS) - 4cr.
- CHEM1225 - Chemical Principles Laboratory II - 1cr.
- GEO1110 - Physical Geology (BPS) - 3cr.
- GEO1115 - Physical Geology Laboratory - 1cr.
- GEO1220 - Historical Geology - 3cr.
  OR GEO2200 - The Earth Through Time - 3cr.
- GEO1225 - Historical Geology Laboratory - 1cr.
  OR GEO2205 - Earth Through Time Laboratory - 1cr.
- GEO2800 - Minerals and Rocks - 4cr.
- GEO3550 - Sedimentation and Stratigraphy - 4cr.
- GEO3600 - Geomorphology - 4cr.
- MATH1210 - Calculus I (QL) - 4cr.
- PHYS2210 - Physics for Scientists and Engineers I (QI/BPS) - 4cr.
- PHYS2215 - Physics for Scientists and Engineers Lab I - 1cr.
- STAT2000 - Statistical Methods (QI) - 4cr.

Earth Science Teaching Major Requirements (50 credits)

Complete ALL of the following Courses:

- ENVS4020 - Foundations of Environmental Thought (DHA/CI) - 3cr.
- ITLS2500 - Technology Enabled Instruction - 3cr.
- PHYS1040 - Introductory Astronomy (BPS) - 3cr.
- PSC2000 - The Atmosphere and Weather (BPS) - 3cr.
  OR PSC4810 - Climate and Climate Change (DSC)(QI) - 3cr.
- SCED3210 - Educational and Multicultural Foundations (DSS/CI) - 3cr.
- SCED3300 - Clinical Experience I - 1cr.
- SCED4300 - Clinical Experience II - 1cr.
- SCED5100 - Motivation and Classroom Management - 3cr.
- SCED5200 - Language, Literacy, and Learning in the Content Areas (CI) - 3cr.
- SCED5210 - Learning Theory, Curriculum, and Assessment - 3cr.
- SCED5500 - Student Teaching Seminar - 2cr.
- SCED5630 - Student Teaching in Secondary Schools - 10cr.
- SCED5820 - Science Education Teaching and Dispositions Knowledge - 3cr.
- SCED5821 - Three-Dimensional Science and Engineering Pedagogical Knowledge - 3cr.
- SPED4000 - Education of Students with Disabilities - 3cr.
- WILD2200 - Ecology of Our Changing World (BLS) - 3cr.

Open Electives

Complete the following as needed:
Total elective credit is determined by General Education courses taken, degree type selected, additional credits earned, and any additional math or other prerequisite courses needed. Please consult your Academic Advisor for details.

Additional Comments:

Licensure Notification

This program typically leads to licensure and was designed to meet licensing qualifications in the state of Utah. If students wish to work in another state within the United States, they should review the qualifications for that state and the Education Licensure Compliance Table provided by School of Teacher Education and Leadership.

For more information, please contact the School of Teacher Education and Leadership at https://cehs.usu.edu/teal/

Minimum University Requirements

Minimum University Requirements
Minimum University Requirements (Bachelor's Degree)

Suggested Degree Maps

Degree Map Name
Suggested Degree Map: Earth Science Teaching - BA, BS
Total Degree Map Credits
120
Degree Map Effective Catalog Year
2027 -

Degree Map Narrative

- Following is a sample four-year plan. Please note that student-specific plans may differ.
- Meet with an academic advisor to create a specific plan that best fits your academic needs.
- The student is ultimately responsible for knowing and completing all degree requirements.
- Make sure you meet the registration requirements for each class by clicking the course link and checking any prerequisites or corequisites.
- Consultation with an advisor may result in an altered plan customized for an individual student.

- Check your Degree Works for requirements and completion.

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	16	0

Requirement Select
- Note: Students may need to complete prerequisite courses prior to enrolling in MATH 1210. See the General Catalog for prerequisites or contact the Mathematics and Statistics Department. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- CHEM1210 - Principles of Chemistry I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- CHEM1215 - Chemical Principles Laboratory I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- ENGL1010 - Writing as Inquiry (CL1)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- GEO1110 - Physical Geology (BPS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- GEO1115 - Physical Geology Laboratory

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- MATH1210 - Calculus I (QL)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	16	0

Requirement Select
- CHEM1220 - Principles of Chemistry II (BPS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- CHEM1225 - Chemical Principles Laboratory II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- ENGL2010 - Research and Argument Across Perspectives (CL2)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- GEO2200 - The Earth Through Time
  OR
- GEO1220 - Historical Geology

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- GEO2205 - Earth Through Time Laboratory
  OR
- GEO1225 - Historical Geology Laboratory

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- STAT2000 - Statistical Methods (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	16	0

Requirement Select
- GEO3600 - Geomorphology

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- PHYS1040 - Introductory Astronomy (BPS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- PSC2000 - The Atmosphere and Weather (BPS)
  OR
- PSC4810 - Climate and Climate Change (DSC)(QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Breadth Creative Arts (BCA) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Breadth Humanities (BHU) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	16	0

Requirement Select
- GEO2800 - Minerals and Rocks

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- BIOL1010 - Biology and the Citizen (BLS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- WILD2200 - Ecology of Our Changing World (BLS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Breadth American Institutions (BAI) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Breadth Social Sciences (BSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Fall	13	0

Requirement Select
- GEO3550 - Sedimentation and Stratigraphy

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- PHYS2210 - Physics for Scientists and Engineers I (QI/BPS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- PHYS2215 - Physics for Scientists and Engineers Lab I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- SCED3300 - Clinical Experience I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- SCED5820 - Science Education Teaching and Dispositions Knowledge

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Spring	13	0

Requirement Select
- ITLS2500 - Technology Enabled Instruction

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- SCED3210 - Educational and Multicultural Foundations (DSS/CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- SCED4300 - Clinical Experience II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- SCED5100 - Motivation and Classroom Management

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- SCED5821 - Three-Dimensional Science and Engineering Pedagogical Knowledge

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Fall	15	0

Requirement Select

- SCED5200 - Language, Literacy, and Learning in the Content Areas (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- SCED5210 - Learning Theory, Curriculum, and Assessment

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- SPED4000 - Education of Students with Disabilities

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- ENVS4020 - Foundations of Environmental Thought (DHA/CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Electives (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Spring	15	0

Requirement Select

- SCED5500 - Student Teaching Seminar

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select

- SCED5630 - Student Teaching in Secondary Schools

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	10
Progress Credits	-
Contact Hours	10
Clinical	-
Criticality	No

Requirement Select
- Electives (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Program Learning Outcomes

Program Learning Outcomes
https://www.usu.edu/oda/assessment/

Early Childhood Education - BA, BS

Program Overview

College	Department	Program Level
College of Education & Human Services	School of Teacher Education & Leadership	Undergraduate

About this Degree
Those who graduate in early childhood education are qualified to teach in preschool settings and can become licensed to teach kindergarten through third grade. All students gain a broad knowledge in early childhood education subjects.

Students are also required to participate in practicums and field experiences. Utah State's program in early childhood education is unique in that students have the opportunity to work with children starting their first year in the program rather than waiting until their junior year, which is typical at other universities. By the time students graduate, they will have spent more than 600 hours in eight different practicum experiences.

- For more information about Early Childhood Education, see the department webpage.
- Admitted and current students must meet with an advisor (435-797-0391).
- Log on to Degree Works to check student-specific program progress.
- The highest math requirement for this degree is MATH2020 GEOMETRY/STAT ELED TEACH(QI).

Admission Requirements for this Program
- New freshmen must be admitted to USU in Good Standing.
- Transfer students from other institutions or other programs at USU must have a 2.00 overall GPA.

Program Requirements

Total Credits Required In Program Coursework	Total Credits Required To Earn This Credential
91-93	120

Simple Requisites

Program Requirements
- This program requires a 3.0 GPA in required major courses. Program requirements may not be taken for a pass/fail grade, except for those courses that are only taught pass/fail.
- Students in this major must receive a grade of C+ or better in **both** Communications Literacy 1 (CL1) and Communications Literacy 2 (CL2).

Preparation Courses

Type
Completion Requirement

Required Courses (11 Credits)

Complete ALL of the following Courses:
- ELED1010 - Orientation to Elementary Education - 3cr. **OR** TEAL1010 - Introduction to Education - 3cr.
- HDFS1500 - Human Development Across the Lifespan (BSS) - 3cr.
- ITLS2500 - Technology Enabled Instruction - 3cr.

- TEAL2660 - Educational Psychology for Teachers - 2cr.

NOTE:

1. HDFS1500 HUMAN DEV LIFESPAN (BSS) - Minimum grade of C or higher.

Mathematic Requirement (9-11 credits)

Type
Completion Requirement

QL Mathematic Requirement (3-5 Credits)

Quantitative Literacy (QL) requires a grade of **C-** or better.

Complete ALL of the following Course Sets:

- Quantitative Literacy (QL) Course

Mathematic Requirement (6 Credits)

MATH2010 ALG/NUMER FOR ELED TEACH (QI) and MATH2020 GEOMETRY/STAT ELED TEACH(QI) require a grade of **C** or better.

Complete ALL of the following Courses:

- MATH2010 - Algebraic Thinking & Number Sense for Elementary Education School Teachers (QI) - 3cr.
- MATH2020 - Euclidean Geometry & Statistics for Elementary Education School Teachers (QI) - 3cr.

Art Methods (3 Credits)

Type
Completion Requirement

Art Requirement (3 Credits)

A grade of B- or better is required for any Arts Methods course.

Complete at least 1 of the following courses:

- ART3700 - Elementary Art Methods - 3cr.
- MUSC3260 - Elementary School Music - 3cr.
- THEA3320 - Movement Exploration for Elementary Education Majors - 3cr.
- THEA3330 - Drama for Classroom Teachers - 3cr.
- THEA3340 - Methods of Teaching Drama, Grades K-6 - 3cr.

Foundations Block

Type
Completion Requirement

Level II (12 Credits)

A grade of B- or better is required for all Level II courses.

Complete ALL of the following Courses:

- ELED3000 - Historical, Social, and Cultural Foundations of Education (CI) - 3cr.
- ELED3002 - Foundations Practicum - 1cr.
- ELED3050 - PE and Health in the Elementary Classroom - 2cr.
- ELED3100 - Classroom Reading Instruction - 3cr.
- ELED4061 - Teaching Elementary School Mathematics I: Rational Numbers, Operations, and Proportional Reasoning - 3cr.

NOTE:

1. ELED3000 HIST/SOC/CULTR FOUND EDUC (CI), ELED3002 FOUNDATIONS PRACTICUM, and ELED3100 CLASSROOM READING INSTRUCTION **must be taken together.**

Literacy Block

Type
Completion Requirement

Level II B&C (16 Credits)

A grade of B- or better is required for all Level II B&C courses.

Complete ALL of the following Courses:

- ELED4040 - Reading Assessment and Intervention (CI) - 2cr.
- ELED4042 - Reading Assessment and Intervention Practicum - 1cr.
- ELED4049 - Foundations of Reading Review - 1cr.
- ELED4150 - Assessment and Differentiation Across the Curriculum - 3cr.
- SPED4000 - Education of Students with Disabilities - 3cr.
- TEAL3080 - Integrating Arts into Academic Learning (DHA) - 3cr.
- TEAL5710 - Instruction for Linguistically and Culturally Diverse Learners - 3cr.

NOTE:

1. ELED4040 READ ASSESS AND INTERVENT (CI), ELED4042 READ ASSESS INTERVENT PRACT and ELED4049 FOUNDATIONS OF READING REVIEW **must be taken together.**
2. SPED4000 EDUCATION STUD W/DISABILITIES - Students are strongly encouraged to take this course with ELED4150 ASSESSMENT AND DIFFERENTIATION and ELED4040 READ ASSESS AND INTERVENT (CI).
3. TEAL3080 INTEGRATING ARTS INTO ACA(DHA) - Students are strongly encouraged to take this course with ELED4040 READ ASSESS AND INTERVENT (CI) and ELED4042 READ ASSESS INTERVENT PRACT.

Content Pedagogy Block

Type
Completion Requirement

Level III (15 Credits)

A grade of B- or better is required for all Level III courses.

Complete ALL of the following Courses:

- ELED5020 - Teaching Science in Elementary School - 2cr.
- ELED5030 - Teaching Language Arts (CI) - 2cr.
- ELED5010 - Teaching Social Studies in Elementary School - 2cr.
- ELED5040 - Teaching Elementary School Mathematics II: Number, Operations, and Algebraic Reasoning - 2cr.
- ELED5060 - Elementary Content Practicum - 4cr.
- ELED5105 - Motivation and Classroom Management - 3cr.

NOTE:

1. ELED5020 TEACHING SCIENCE ELEM, ELED5030 TEACHING LANG ARTS (CI), ELED5010 TEACHING SOC STUDIES ELEM, ELED5040 TEACHING ELEMENTARY

MATH II, ELED5060 ELEM CONTENT PRACTICUM and ELED5105 MOTIVATION CLASSROOM MANAGE **must be taken together.**

Early Childhood Requirement

Type
Completion Requirement

Program Requirement (13 Credits)

Complete ALL of the following Courses:

- HDFS2600 - Seminar in Early Childhood Education - 2cr.
- HDFS2605 - Early Childhood Education Practicum - 2cr.
- HDFS4550 - Preschool Methods and Curriculum - 3cr.
- HDFS4960 - Practice Teaching in Child Development Laboratories - 3cr.

NOTE:

1. HDFS2605 EARLY CHILDHOOD EDUC PRACTICUM - Enroll in 2 credits
2. HDFS4960 PRAC TEACHING IN CHILD DEV LAB - Enroll in 6 credits. Must be taken seperately from other student teaching courses.

Student Teaching

Type
Completion Requirement

Program Requirement (12 Credits)

Complete ALL of the following Courses:

- ELED5150 - Student Teaching: Elementary - 3cr.
- ELED5250 - Elementary Education Student Teaching Seminar - 3cr.

NOTE:

1. ELED5150 STUDENT TEACHING: ELEMENTARY - Register for 9 credits.
2. ELED5250 ELED STUDENT TEACHING SEMINAR - Register for 3 credits.

Open Electives

Type
Completion Requirement

Electives

Complete the following as needed:
Students in the dual ELED/ECE major should take 9 credits of electives (see advisor for details) while students in the Early Childhood Education major should see their advisor to determine the additional number of credits needed to fulfill the 120-credit requirement.

Suggested Degree Maps

Degree Map Name
Suggested Degree Map - Early Childhood Education BA, BS
Total Degree Map Credits
111 - 117
Degree Map Effective Catalog Year
2027 -

Degree Map Narrative

- Following is a sample four-year plan. Please note that student-specific plans may differ.
- Meet with an academic advisor to create a specific plan that best fits your academic needs.
- The student is ultimately responsible for knowing and completing all degree requirements.
- Make sure you meet the registration requirements for each class by clicking the course link and checking any prerequisites or corequisites.
- Consultation with an advisor may result in an altered plan customized for an individual student.
- Check your Degree Works for requirements and completion.

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	15 - 17	0

Requirement Select

- CL1 requires a C+ or better to fulfill major requirements. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- ELED1010 - Orientation to Elementary Education
  OR
- TEAL1010 - Introduction to Education

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Bachelor's Degree)

Requirement Select
- Communications Literacy (CL1) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Quantitative Literacy (QL) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Breadth American Institutions (BAI) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- HDFS1500 - Human Development Across the Lifespan (BSS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	15	0

Requirement Select
- CL2 requires a C+ or better to fulfill major requirements. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Communications Literacy (CL2) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- MATH2010 - Algebraic Thinking & Number Sense for Elementary Education School Teachers (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Breadth Creative Arts (BCA) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Breadth Humanities (BHU) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Breadth Physical Sciences (BPS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	13	0

Requirement Select
- Enroll in 2 credits of HDFS 2605 (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- MATH2020 - Euclidean Geometry & Statistics for Elementary Education School Teachers (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- HDFS2600 - Seminar in Early Childhood Education

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select
- HDFS2605 - Early Childhood Education Practicum

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select
- Breadth Life Sciences (BLS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Arts Methods Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	15	0

Requirement Select

- ELED3000 - Historical, Social, and Cultural Foundations of Education (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- ELED3002 - Foundations Practicum

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- ELED3100 - Classroom Reading Instruction

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- TEAL2660 - Educational Psychology for Teachers

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select

- Arts Methods Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Depth Life and Physical Sciences (DSC) Course
  OR
- Depth Social Sciences (DSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Fall	14 - 15	0

Requirement Select

- ELED4150 - Assessment and Differentiation Across the Curriculum

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- ELED4061 - Teaching Elementary School Mathematics I: Rational Numbers, Operations, and Proportional Reasoning

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- ELED4040 - Reading Assessment and Intervention (CI)
- **AND** ELED4042 - Reading Assessment and Intervention Practicum

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1 - 2
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- ELED4049 - Foundations of Reading Review

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- ITLS2500 - Technology Enabled Instruction

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- HDFS4550 - Preschool Methods and Curriculum

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Spring	15	0

Requirement Select

- ELED5020 - Teaching Science in Elementary School

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select

- ELED5030 - Teaching Language Arts (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select

- ELED5010 - Teaching Social Studies in Elementary School

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select

- ELED5040 - Teaching Elementary School Mathematics II: Number, Operations, and Algebraic Reasoning

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select

- ELED5060 - Elementary Content Practicum

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- ELED5105 - Motivation and Classroom Management

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Fall	12 - 15	0

Requirement Select

- Enroll in 6 credits of HDFS 4960. Course must be taken separately from other student teaching courses. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- HDFS4960 - Practice Teaching in Child Development Laboratories

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 6
Progress Credits	-
Contact Hours	3 - 6
Clinical	-
Criticality	No

Requirement Select

- It is strongly recommended that students take TEAL3080 with HDFS4960. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- TEAL3080 - Integrating Arts into Academic Learning (DHA)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- TEAL5710 - Instruction for Linguistically and Culturally Diverse Learners

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- SPED4000 - Education of Students with Disabilities

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Spring	12	0

Requirement Select

- Enroll in 3 credits of ELED 5050 and 6 credits of ELED 5150. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- ELED5050 - Student Teaching - Kindergarten

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3 - 9
Clinical	-
Criticality	No

Requirement Select

- ELED5150 - Student Teaching: Elementary

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3 - 9
Clinical	-
Criticality	No

Requirement Select

- ELED5250 - Elementary Education Student Teaching Seminar

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Program Learning Outcomes

Program Learning Outcomes

https://cehs.usu.edu/teal/assessment/undergrad-aaa

Ecology - Biology - MS

Program Overview

College
College of Arts & Sciences

Department
Biology

Program Level
Graduate

About this Degree

Graduate Programs in Ecology

Ecology degree programs at Utah State University are administered by the interdepartmental Ecology Center. Students earn their degrees in Ecology while maintaining residence in one of the participating home departments (BIOL, ENVS, PSC, WATS, WILD). The Ecology Center itself does not directly admit students or grant degrees. Students must first apply to and be admitted to one of the Ecology Center's participating home departments, and then they can opt to major in Ecology in accordance with their faculty advisor and graduate program coordinator.

Interdepartmental Program in Ecology

The Ecology Center aims to promote research and graduate education in ecology and to provide expert, professional information and advice for decision-makers. The research carried out by the center's associates covers the full spectrum of ecology.

Director: Dr. Peter Adler

Location: Natural Resources 208B

E-mail: peter.adler@usu.edu

Correspondence for catalog questions should be sent to the Ecology Center/CAS Program Coordinator:

Program Coordinator: Dr. Lexi Turano

Location: Natural Resources 208

Phone: (435) 797-2555

E-mail: alexandra.turano@usu.edu

Department of Biology

The Department of Biology offers an M.S. degree in Ecology administered by the interdepartmental Ecology Center. Students must be Plan A (Thesis) to complete the Ecology degree; Plan B (non-Thesis) students are not eligible to major in Ecology.

Ecology majors who are housed in the Department of Biology also have the option of adding a specialization in Climate Adaptation Science. For this optional specialization, please see the Climate Adaptation Science Specialization page.

Program Requirements

Total Credits Required In Program Coursework
30

Total Credits Required To Earn This Credential
30

Simple Requisites

Program Requirements

Biology Department Requirements:

- Submission of Thesis to the School of Graduate Studies and library for review and approval
- Comprehensive Exams
- Thesis Defense
- Annual Professional Development Plan
- Individual Development Plan
- Completion of required trainings

School of Graduate Studies (SGS) Requirements:

- Completion of SGS-specific forms
    - Supervisory committee approval form
    - Program of Study form
    - Master's Thesis Proposal
    - Appointment for Examination
    - Record of Examination
    - Format & Style Form
    - Authorship & Copyright Form
    - Title Page Form
    - Application for Graduation
- Degree Verification: A bachelor's degree from an accredited U.S. college or university or a similarly recognized international university is required for admission to and completion of a graduate program. An official transcript must be sent directly to the School of Graduate Studies.
- Overall Graduate GPA (≥ 3.0) and No Grades of C- or Lower: Graduate students must maintain at least a 3.0 GPA for degree-program courses. Grades of C- or lower cannot be applied toward a graduate degree.
- Course Number Acceptability: A master's Program of Study may include no more than 12 semester credits of coursework below 6000-level. The following types of credits are not acceptable toward the degree: foreign language courses (unless included in an approved Program of Study), continuing graduate advisement, individual home study, military science, and any courses numbered below 5000.
- Matriculation Start Semester: Master's degrees must be completed within six years of entering the program. Additional time may be requested by the advisor and submitted to the Vice Provost of Graduate Studies
- Coursework Validity: Coursework older than eight years at the time of degree completion may not be used unless it is formally revalidated.

Biology and Ecology Center Credit Requirements:

Type
Completion Requirement

Program Requirements (9-18 credits)

The Ecology M.S. degree requires a research thesis (M.S. Plan A Thesis) and a minimum of 30 credits.

Fulfill ALL of the following requirements:

Required Courses

Complete ALL of the following Courses:

- BIOL6750 - Topics in Biology - 1cr.
- BIOL6970 - Thesis Research - 1cr.

NOTE:

1. BIOL6750 TOPICS IN BIOLOGY - take 1 credit.
2. BIOL6970 THESIS RESEARCH - take 6-15 credits.

AND

M.S. students must pass one of these 1-credit courses at least two times during their program of study.

Complete at least 2 of the following courses:

- BIOL6870 - Ecology Seminar - 1cr.
- ENVS6870 - Ecology Seminar - 1cr.
- PSC6870 - Ecology Seminar - 1cr.
- WATS6870 - Ecology Seminar - 1cr.
- WILD6870 - Ecology Seminar - 1cr.

Ecology Requirements (6 credits)

Students must complete 6 total credits of a demonstrated breadth of knowledge in Ecology. M.S. students must take 3 credits from at least two of the five Ecology Blocks:

Complete 3 credits form 2 of the following blocks:

- Block #1: Biophysical Ecology
- Block #2: Organismic, Population, and Evolutionary Ecology
- Block #3: Community, Ecosystem, and Landscape Ecology
- Block #4: Quantitative Ecology
- Block #5: Human Ecology

Students are advised to discuss course options with their Graduate Program Coordinator to fulfill block requirements. For a list of courses qualifying under these blocks, please visit our website.

Elective Credit (6-15)

Remaining credits to reach 30 credit hours (minimum) fulfilled via:

Complete remaining credits with the following:

- Graduate level coursework (6000 and above)
- No more than 12 credits of 5000-5990 level courses

Additional Comments:

Optional Climate Adaptation Science Specialization:

Ecology majors who are housed in the Department of Biology have the option of adding a specialization in Climate Adaptation Science to appear on their transcript upon completion. To opt for this specialization, students must declare this to their home department (Biology). Please use specialization code CLAD.

- For course requirements, please see the Climate Adaptation Science Specialization page.

Program Learning Outcomes

Program Learning Outcomes

https://www.usu.edu/science/assessment/

Ecology - Biology - PhD

Program Overview

College	Department	Program Level
College of Arts & Sciences	Biology	Graduate

About this Degree

Graduate Programs in Ecology

Ecology degree programs at Utah State University are administered by the interdepartmental Ecology Center. Students earn their degrees in Ecology while maintaining residence in one of the participating home departments (BIOL, ENVS, PSC, WATS, WILD). The Ecology Center itself does not directly admit students or grant degrees. Students must first apply to and be admitted to one of the Ecology Center's participating home departments, and then they can opt to major in Ecology in accordance with their faculty advisor and graduate program coordinator.

Interdepartmental Program in Ecology

The Ecology Center aims to promote research and graduate education in ecology and to provide expert, professional information and advice for decision-makers. The research carried out by the center's associates covers the full spectrum of ecology.

Director: Dr. Peter Adler

Location: Natural Resources 208B

E-mail: peter.adler@usu.edu

Correspondence for catalog questions should be sent to the Ecology Center/CAS Program Coordinator:

Program Coordinator: Dr. Lexi Turano

Location: Natural Resources 208

Phone: (435) 797-2555

E-mail: alexandra.turano@usu.edu

Department of Biology

The Department of Biology offers a Ph.D. degree in Ecology administered by the interdepartmental Ecology Center.

Ecology majors who are housed in the Department of Biology also have the option of adding a specialization in Climate Adaptation Science. For this optional specialization, please see the Climate Adaptation Science Specialization page.

Program Requirements

Total Credits Required In Program Coursework	Total Credits Required To Earn This Credential
30-60	30-60

Simple Requisites

Program Requirements

Biology Department Requirements:

- Submission of Dissertation to the School of Graduate Studies and library for review and approval
- Comprehensive Exams
- Dissertation Defense
- Annual Professional Development Plan

- Individual Development Plan
- Completion of required trainings

School of Graduate Studies (SGS) Requirements:

- Completion of SGS-specific Forms:
    - Supervisory committee approval form
    - Program of Study form
    - Application for Candidacy
    - Appointment for Examination
    - Record of Examination
    - Format & Style Form
    - Authorship & Copyright Form
    - Title Page Form
    - Application for Graduation
- Degree Verification: A bachelor's degree from an accredited U.S. college or university or a similarly recognized international university is required for admission to and completion of a graduate program. An official transcript must be sent directly to the School of Graduate Studies.
- Overall Graduate GPA (≥ 3.0) and No Grades of C- or Lower: Graduate students must maintain at least a 3.0 GPA for degree-program courses. Grades of C- or lower cannot be applied toward a graduate degree.
- Course Number Acceptability: A PhD Program of Study may include no more than 12 semester credits of coursework below 6000-level. The following types of credits are not acceptable toward the degree: foreign language courses (unless included in an approved Program of Study), continuing graduate advisement, individual home study, military science, and any courses numbered below 5000.
- Matriculation Start Semester: PhD degrees must be completed within eight years of entering the program. Additional time may be requested by the advisor and submitted to the Vice Provost of Graduate Studies.
- Coursework Validity: Coursework older than eight years at the time of degree completion may not be used unless it is formally revalidated.

Ph. D. (post-master's) (30 credits)

Type
Completion Requirement

Program Requirements (16 credits)

Fulfill ALL of the following requirements:

Program Requirement A (13 credits)

Complete ALL of the following Courses:

- BIOL6750 - Topics in Biology - 1cr.
- BIOL7970 - Dissertation Research - 1cr.

NOTE:

1. BIOL6750 TOPICS IN BIOLOGY - complete 1 credit.
2. BIOL7970 DISSERTATION RESEARCH - complete 12 credits.

AND

Program Requirement B (3 credits)

Ph. D. students must pass one of these 1-credit courses at least three times during their program of study.

Complete at least 3 of the following courses:

- BIOL6870 - Ecology Seminar - 1cr.
- ENVS6870 - Ecology Seminar - 1cr.
- PSC6870 - Ecology Seminar - 1cr.
- WATS6870 - Ecology Seminar - 1cr.
- WILD6870 - Ecology Seminar - 1cr.

AND

Ecology Credit (9 credits)

PhD Students must complete 9 total credits of a demonstrated breadth of knowledge in Ecology. Students must take 3 credits from at least three of the five Ecology Blocks:

Complete 3 credits from three of the five blocks below:
- Block #1: Biophysical Ecology
- Block #2: Organismic, Population, and Evolutionary Ecology
- Block #3: Community, Ecosystem, and Landscape Ecology
- Block #4: Quantitative Ecology
- Block #5: Human Ecology

Students are advised to discuss course options with their Graduate Program Coordinator to fulfill block requirements. For a list of courses qualifying under these blocks, please visit our website.

AND

Elective Credit (minimum 5 credits)

Remaining credits to reach 30 credit hours (minimum) fulfilled via:
- Graduate level coursework (6000 and above)
- No more than 12 credits of 5000-5990 level courses

Ph. D. (post-baccalaureate)

Type
Completion Requirement

Program Requirements (22 credits)

The PhD (post-baccalaureate) program requires a minimum of 60 credit hours.

Fulfill ALL of the following requirements:

Required Courses A (19 credits)

Complete ALL of the following Courses:

- BIOL6750 - Topics in Biology - 1cr.
- BIOL7970 - Dissertation Research - 1cr.

NOTE:

1. BIOL6750 TOPICS IN BIOLOGY complete 1 credit.
2. BIOL7970 DISSERTATION RESEARCH complete 18 credits.

AND

Program Requirement B (3 credits)

Ph. D. students must pass one of these 1-credit courses at least three times during their program of study.

Complete at least 3 of the following courses:

- BIOL6870 - Ecology Seminar - 1cr.
- ENVS6870 - Ecology Seminar - 1cr.
- PSC6870 - Ecology Seminar - 1cr.
- WATS6870 - Ecology Seminar - 1cr.
- WILD6870 - Ecology Seminar - 1cr.

AND

Ecology Requirements (9 credits)

PhD Students must complete 9 total credits of a demonstrated breadth of knowledge in Ecology. Students must take 3 credits from at least three of the five Ecology Blocks:

- Block #5: Human Ecology
- Block #4: Quantitative Ecology
- Block #3: Community, Ecosystem, and Landscape Ecology
- Block #2: Organismic, Population, and Evolutionary Ecology
- Block #1: Biophysical Ecology

Students are advised to discuss course options with their Graduate Program Coordinator to fulfill block requirements. For a list of courses qualifying under these blocks, please visit our website.

AND

Elective Credits (minimum 29 credits)

Remaining credits to reach 60 credit hours (minimum) fulfilled via:

- No more than 12 credits of 5000-5990 level courses
- Graduate level coursework (6000 and above)

Additional Comments:

Optional Climate Adaptation Science Specialization

Ecology majors who are housed in the Department of Biology have the option of adding a specialization in Climate Adaptation Science to appear on their transcript upon completion. To opt for this specialization, students must declare this to their home department (Biology). Please use specialization code CLAD.

- For course requirements, please see the Climate Adaptation Science Specialization page

Program Learning Outcomes

Program Learning Outcomes

https://www.usu.edu/science/assessment/

Ecology - Environment and Society - MS

Program Overview

College
College of Agriculture & Natural Resources

Department
Environment & Society

Program Level
Graduate

About this Degree

Graduate Programs in Ecology

Ecology degree programs at Utah State University are administered by the interdepartmental Ecology Center. Students earn their degrees in Ecology while maintaining residence in one of the participating home departments (BIOL, ENVS, PSC, WATS, WILD). The Ecology Center itself does not directly admit students or grant degrees. Students must first apply to and be admitted to one of the Ecology Center's participating home departments, and then they can opt to major in Ecology in accordance with their faculty advisor and graduate program coordinator.

Interdepartmental Program in Ecology

The Ecology Center aims to promote research and graduate education in ecology and to provide expert, professional information and advice for decision-makers. The research carried out by the center's associates covers the full spectrum of ecology.

Director: Dr. Peter Adler

Location: Natural Resources 208B

E-mail: peter.adler@usu.edu

Correspondence for catalog questions should be sent to the Ecology Center/CAS Program Coordinator:

Program Coordinator: Dr. Lexi Turano

Location: Natural Resources 208

Phone: (435) 797-2555

E-mail: alexandra.turano@usu.edu

Department of Environment and Society

The Department of Environment and Society offers an M.S. degree in Ecology administered by the interdepartmental Ecology Center. Students must be Plan A (Thesis) to complete the Ecology degree; Plan B (non-Thesis) students are not eligible to major in Ecology.

Ecology majors who are housed in the Department of Environment and Society also have the option of adding a specialization in Climate Adaptation Science. For this optional specialization, please see the Climate Adaptation Science Specialization Program Page.

Program Requirements

Total Credits Required In Program Coursework
30

Total Credits Required To Earn This Credential
30

Simple Requisites

Program Requirements

Department of Environment and Society Requirements:

- Presentation at the Department's Pre-Project Graduate Research Symposium.
- Completion of the Responsible Conduct of Research (*RCR*) Training
- Completion of other trainings required by the Graduate School.
- Approval of a thesis proposal.
- Successful defense of the thesis.
- Submission of thesis to the School of Graduate Studies and library for review and approval.

School of Graduate Studies (SGS) Requirements:

- Completion of SGS-specific forms
    - Supervisory Committee Approval
    - Program of Study
    - Master's Thesis Proposal/Project Approval
    - Appointment for Examination
    - Record of Examination
    - Format & Style Form
    - Authorship & Copyright Form
    - Title Page Form
    - Application for Graduation
- Degree Verification: A bachelor's degree from an accredited U.S. college or university or a similarly recognized international university is required for admission to and completion of a graduate program. An official transcript must be sent directly to the School of Graduate Studies.
- Overall Graduate GPA (≥ 3.0) and No Grades of C- or Lower: Graduate students must maintain at least a 3.0 GPA for degree-program courses. Grades of C- or lower cannot be applied toward a graduate degree.
- Course Number Acceptability: A master's Program of Study may include no more than 12 semester credits of coursework below 6000-level. The following types of credits are not acceptable toward the degree: foreign language courses (unless included in an approved Program of Study), continuing graduate advisement, individual home study, military science, and any courses numbered below 5000.
- Matriculation Start Semester: Master's degrees must be completed within six years of entering the program. Additional time may be requested by the advisor and submitted to the Vice Provost of Graduate Studies
- Coursework Validity: Coursework older than eight years at the time of degree completion may not be used unless it is formally revalidated.

Environment and Society Ecology Center Credit Requirements

Type
Completion Requirement

Required

Complete ALL of the following Courses:

- ENVS6840 - Graduate Orientation Seminar for Environment and Society - 1cr.
- ENVS6841 - The Socio-Environmental Research Process - 1cr.
- ENVS6842 - Methodology for Socio-Environmental Research - 1cr.
- ENVS6800 - Environment and Society Departmental Colloquium - 1cr.

Ecology Seminar

M.S. students must pass one of these 1-credit courses at least two times during their program of study.

Earn at least 2 credits from the following:

- BIOL6870 - Ecology Seminar - 1cr.
  OR ENVS6870 - Ecology Seminar - 1cr.
  OR PSC6870 - Ecology Seminar - 1cr.
  OR WATS6870 - Ecology Seminar - 1cr.
  OR WILD6870 - Ecology Seminar - 1cr.

6-15 credits of Thesis Research

Earn at least 6 credits from the following:

- ENVS6970 - Thesis Research - 1cr.

6 total credits of a demonstrated breadth of knowledge in Ecology

M.S. students must take 3 credits from at least two of the five Ecology Blocks
Block #1: Biophysical Ecology

Block #2: Organismic, Population, and Evolutionary Ecology

Block #3: Community, Ecosystem, and Landscape Ecology

Block #4: Quantitative Ecology

Block #5: Human Ecology

Students are advised to discuss course options with their Graduate Program Coordinator to fulfill block requirements. For a list of courses qualifying under these blocks, please visit our website.

Remaining credits

Remaining credits to reach 30 credit hours (minimum) fulfilled via:

- Graduate level course work (6000 and above)
- No more than 12 credits of 5000-5990 level courses

Additional Comments:

Optional Climate Adaptation Science Specialization:

Ecology majors who are housed in the Department of Environment and Society have the option of adding a specialization in Climate Adaptation Science to appear on their transcript upon completion. To opt for this specialization, students must declare this to their home department (Environment and Society). Please use specialization code CLAD.

- For course requirements, please see the Climate Adaptation Science Specialization

Program Learning Outcomes

Program Learning Outcomes

https://qanr.usu.edu/envs/about/assessment

Ecology - Environment and Society - PhD

Program Overview

College
College of Agriculture & Natural Resources

Department
Environment & Society

Program Level
Graduate

About this Degree

Graduate Programs in Ecology

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Program Coordinator: Dr. Lexi Turano

Location: Natural Resources 208

Phone: (435) 797-2555

E-mail: alexandra.turano@usu.edu

Department of Environment and Society

The Department of Environment and Society offers a Ph.D. degree in Ecology administered by the interdepartmental Ecology Center.

Ecology majors who are housed in the Department of Environment and Society also have the option of adding a specialization in Climate Adaptation Science. For this optional specialization, please see the Climate Adaptation Science Specialization Program Page.

Program Requirements

Total Credits Required In Program Coursework
30-60

Total Credits Required To Earn This Credential
30-60

Simple Requisites

Program Requirements

Department of Environment and Society Requirements:

- Presentation at the Department's Pre-Project Graduate Research Symposium.
- Completion of the Responsible Conduct of Research (*RCR*) Training
- Completion of other trainings required by the Graduate School.
- Approval of a dissertation proposal.
- Successful completion of comprehensive examinations.
- Successful defense of the dissertation.
- Submission of dissertation to the School of Graduate Studies and library for review and approval.

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    - Record of Examination
    - Format & Style Form
    - Authorship & Copyright Form
    - Title Page Form
    - Application for Graduation
- Degree Verification: A bachelor's degree from an accredited U.S. college or university or a similarly recognized international university is required for admission to and completion of a graduate program. An official transcript must be sent directly to the School of Graduate Studies.
- Overall Graduate GPA (≥ 3.0) and No Grades of C- or Lower: Graduate students must maintain at least a 3.0 GPA for degree-program courses. Grades of C- or lower cannot be applied toward a graduate degree.
- Course Number Acceptability: A PhD Program of Study may include no more than 12 semester credits of coursework below 6000-level. The following types of credits are not acceptable toward the degree: foreign language courses (unless included in an approved Program of Study), continuing graduate advisement, individual home study, military science, and any courses numbered below 5000.
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- Coursework Validity: Coursework older than eight years at the time of degree completion may not be used unless it is formally revalidated.

Ph.D. (post-master's)

Type
Completion Requirement

30 required credit hours (minimum), including:

Complete ALL of the following Courses:

- ENVS7840 - Graduate Orientation Seminar for Environment and Society - 1cr.
- ENVS7841 - The Socio-Environmental Research Process - 1cr.
- ENVS7842 - Methodology for Socio-Environmental Research - 1cr.

- ENVS7800 - Environment and Society Departmental Colloquium - 1cr.

Ecology Seminar

Earn at least 3 credits from the following:

- BIOL6870 - Ecology Seminar - 1cr.
  OR ENVS6870 - Ecology Seminar - 1cr.
  OR PSC6870 - Ecology Seminar - 1cr.
  OR WATS6870 - Ecology Seminar - 1cr.
  OR WILD6870 - Ecology Seminar - 1cr.

Ph.D. students must pass this 1-credit course at least three times during their program of study

Dissertation Research

Earn at least 12 credits from the following:

- ENVS7970 - Dissertation Research - 1cr.

9 credits of a demonstrated breadth of knowledge in Ecology

Ph.D. students must take 3 credits from at least three of the five Ecology Blocks (see below)

- Block #1: Biophysical Ecology
- Block #2: Organismic, Population, and Evolutionary Ecology
- Block #3: Community, Ecosystem, and Landscape Ecology
- Block #4: Quantitative Ecology
- Block #5: Human Ecology

Students are advised to discuss course options with their Graduate Program Coordinator to fulfill block requirements. For a list of courses qualifying under these blocks, please visit our website.

Remaining credits to reach 30 credit hours (minimum) fulfilled via:

Remaining credits

- No more than 12 credits of 5000-5990 level courses
- Graduate level course work (6000 and above)

Ph.D. (post-baccalaureate)

Type

Completion Requirement

60 required credit hours (minimum) including:

Complete ALL of the following Courses:

- ENVS7840 - Graduate Orientation Seminar for Environment and Society - 1cr.
- ENVS7841 - The Socio-Environmental Research Process - 1cr.
- ENVS7842 - Methodology for Socio-Environmental Research - 1cr.
- ENVS7800 - Environment and Society Departmental Colloquium - 1cr.

Ecology Seminar

Earn at least 3 credits from the following:

- BIOL6870 - Ecology Seminar - 1cr.
  OR ENVS6870 - Ecology Seminar - 1cr.
  OR PSC6870 - Ecology Seminar - 1cr.
  OR WATS6870 - Ecology Seminar - 1cr.
  OR WILD6870 - Ecology Seminar - 1cr.

Ph.D. students must pass this 1-credit course at least three times during their program of study

Dissertation Research

Earn at least 18 credits from the following:

- ENVS7970 - Dissertation Research - 1cr.

9 credits of a demonstrated breadth of knowledge in Ecology

Ph.D. students must take 3 credits from at least three of the five Ecology Blocks (see below)

- Block #5: Human Ecology
- Block #4: Quantitative Ecology
- Block #3: Community, Ecosystem, and Landscape Ecology
- Block #2: Organismic, Population, and Evolutionary Ecology
- Block #1: Biophysical Ecology

Students are advised to discuss course options with their Graduate Program Coordinator to fulfill block requirements. For a list of courses qualifying under these blocks, please visit our website.

Remaining credits

Remaining credits to reach 60 credit hours (minimum) fulfilled via:

- No more than 12 credits of 5000-5990 level courses
- Graduate level course work (6000 and above)

Additional Comments:

Ecology majors who are housed in the Department of Environment and Society have the option of adding a specialization in Climate Adaptation Science to appear on their transcript upon completion. To opt for this specialization, students must declare this to their home department (Environment and Society). Please use specialization code CLAD.

- For course requirements, please see the Climate Adaptation Science Specialization page

Program Learning Outcomes

Program Learning Outcomes

https://qanr.usu.edu/envs/about/assessment

Ecology - Plants, Soils and Climate - MS

Program Overview

College
College of Agriculture & Natural Resources

Department
Plants, Soils and Climate

Program Level
Graduate

About this Degree

Graduate Programs in Ecology

Ecology degree programs at Utah State University are administered by the interdepartmental Ecology Center. Students earn their degrees in Ecology while maintaining residence in one of the participating home departments (BIOL, ENVS, PSC, WATS, WILD). The Ecology Center itself does not directly admit students or grant degrees. Students must first apply to and be admitted to one of the Ecology Center's participating home departments, and then they can opt to major in Ecology in accordance with their faculty advisor and graduate program coordinator.

Interdepartmental Program in Ecology

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Director: Dr. Peter Adler

Location: Natural Resources 208B

E-mail: peter.adler@usu.edu

Correspondence for catalog questions should be sent to the Ecology Center/CAS Program Coordinator:

Program Coordinator: Dr. Lexi Turano

Location: Natural Resources 208

Phone: (435) 797-2555

E-mail: alexandra.turano@usu.edu

Department of Plants, Soils and Climate

The Department of Plants, Soils and Climate offers an M.S. degree in Ecology administered by the interdepartmental Ecology Center. Students must be Plan A (Thesis) to complete the Ecology degree; Plan B (non-Thesis) students are not eligible to major in Ecology.

Ecology majors who are housed in the Department of Plants, Soils and Climate also have the option of adding a specialization in Climate Adaptation Science. For this optional specialization, please see the Climate Adaptation Science Specialization page.

Admission Requirements for this Program

Prior to applying, the potential applicant must have a qualified PSC faculty member agree to accept them into their laboratory and be their major (supervisory) professor. Contact Dr. Jeanette Norton with questions - jeanette.norton@usu.edu

General Requirements

All prospective graduate students must apply through the School of Graduate Studies. Refer to the School of Graduate Studies website for admission requirements. Please note that all applicants must meet the following general admission requirements:

- A bachelor's degree from an accredited college
- A 3.0 GPA as calculated by the School of Graduate Studies. An official transcript must be sent directly to the School of Graduate Studies from each college or university previously attended (except USU).
- Student recommendation request forms (included in application materials) should be used to request three people to submit letters of recommendation directly to the graduate school. Two letters of recommendation should be from faculty from whom you have taken course work.
- International Students: Please visit the School of Graduate Studies website for requirements.

Program Requirements

Total Credits Required In Program Coursework
30

Total Credits Required To Earn This Credential
30

Simple Requisites

Program Requirements

Degree Verification

A bachelor's degree from an accredited U.S. college or university or a similarly recognized international university is required for admission to and completion of a graduate program.

Overall Graduate GPA at least 3.0 and no grades of C- or lower; Graduate students are required to maintain at least a 3.0 GPA for degree-program courses. Grades of C- or lower will not be accepted for a graduate degree.

Course Number Acceptability

The Program of Study for a master's degree must include at least 15 semester credits of 6000 level or above.

Courses numbered 5000-5990 are advanced, upper-division courses and a maximum of 15 credits may be used on an approved program of study.

Credits in the following areas are not acceptable in a degree program: foreign languages, continuing graduate advisement, individual home study, military science, and courses numbered below 5000.

Matriculation Start Semester

A master's degree must be completed within six years of entering the degree program. Additional time may be requested by the student's committee and submitted to the Vice Provost of Graduate Studies for review.

Coursework Validity

Coursework over eight years old at the time of degree completion may not be used for a graduate degree unless it is revalidated by the Vice Provost of Graduate Studies.

Minimum Total Credits

The minimum requirement for a master's degree is 30 semester credits.

- Course requirements leading to MS degrees are developed jointly by the student and the student's supervisory committee. Each student must have a Program of Study approved by their supervisory committee.

  The following are required:

  - 15 credits minimum of committee-approved 6000-7000 level courses related to selected research area
  - including 2 credits of Plants, Soils and Climate Graduate seminar (PSC6890)

- 2-15 credits of Thesis Research credits (PSC6970) depending on plan type
- Plan A - minimum of 6 credits, maximum of 15 credits

(5000 level courses are considered upper-division and maximum of 15 credits may be used in a graduate program if approved by the supervisory committee)

- All MS students write a Plan A thesis under the guidance of their advisor and supervisory committee. The master's thesis must be successfully defended before the supervisory committee and submitted to the library.
- **Master's Plan A students:**

  The Plan A option requires the preparation and defense of a thesis. Students are required to complete a minimum of 6 semester credits of thesis research (PSC6970) that will be applied toward a Program of Study.

  Approval of academic forms required by the School of Graduate Studies:

  - Supervisory Committee approval form
  - Program of Study form
  - Thesis/Project Approval
  - Appointment for Examination
  - Record of Examination
  - SGS and library review and approval (Plan A)

Plants, Soils, and Climate & Ecology Center Credit Requirements

Type
Completion Requirement

30 required credit hours (minimum), including:

The Ecology M.S. degree requires a research thesis (M.S. Plan A Thesis)

***This program only offers a Plan A*

Earn at least 2 credits from the following:

- PSC6890 - Plants, Soils, and Climate Graduate Seminar - 1cr.
- ***M.S. students must pass this 1-credit course at least two (2) times during their program of study***

Ecology Seminar

Earn at least 2 credits from the following:

- BIOL6870 - Ecology Seminar - 1cr.
  OR ENVS6870 - Ecology Seminar - 1cr.
  OR PSC6870 - Ecology Seminar - 1cr.
  OR WATS6870 - Ecology Seminar - 1cr.
  OR WILD6870 - Ecology Seminar - 1cr.
- ***M.S. students must pass this 1-credit course at least two times during their program of study***

6-15 credits of Research and Thesis

Earn at least 6 credits from the following:

- PSC6870 - Ecology Seminar - 1cr.

Ecology breadth of knowledge

6 credits of a demonstrated breadth of knowledge in Ecology

- M.S. students must take 3 credits from at least two of the five Ecology Blocks
  - Block #1: Biophysical Ecology
  - Block #2: Organismic, Population, and Evolutionary Ecology
  - Block #3: Community, Ecosystem, and Landscape Ecology
  - Block #4: Quantitative Ecology
  - Block #5: Human Ecology

Students are advised to discuss course options with their Graduate Program Coordinator to fulfill block requirements.

Remaining Credits

Remaining credits to reach 30 credit hours (minimum)

- Fulfilled via:
  - Graduate level course work (6000 and above)
  - No more than 12 credits of 5000-5990 level courses

Additional Comments:

Optional Climate Adaptation Science Specialization:

Ecology majors who are housed in the Department of Plants, Soils and Climate have the option of adding a specialization in Climate Adaptation Science to appear on their transcript upon completion. To opt for this specialization, students must declare this to their home department (Plants, Soils and Climate). Please use specialization code CLAD.

- For course requirements, please see the Climate Adaptation Science Specialization page

Program Learning Outcomes

Program Learning Outcomes
https://caas.usu.edu/psc/assessment

Ecology - Plants, Soils and Climate - PhD

Program Overview

College
College of Agriculture & Natural Resources

Department
Plants, Soils and Climate

Program Level
Graduate

About this Degree

Graduate Programs in Ecology

Ecology degree programs at Utah State University are administered by the interdepartmental Ecology Center. Students earn their degrees in Ecology while maintaining residence in one of the participating home departments (BIOL, ENVS, PSC, WATS, WILD). The Ecology Center itself does not directly admit students or grant degrees. Students must first apply to and be admitted to one of the Ecology Center's participating home departments, and then they can opt to major in Ecology in accordance with their faculty advisor and graduate program coordinator.

Interdepartmental Program in Ecology

The Ecology Center aims to promote research and graduate education in ecology and to provide expert, professional information and advice for decision-makers. The research carried out by the center's associates covers the full spectrum of ecology.

Director: Dr. Peter Adler

Location: Natural Resources 208B

E-mail: peter.adler@usu.edu

Correspondence for catalog questions should be sent to the Ecology Center/CAS Program Coordinator:

Program Coordinator: Dr. Lexi Turano

Location: Natural Resources 208

Phone: (435) 797-2555

E-mail: alexandra.turano@usu.edu

Department of Plants, Soils and Climate

The Department of Plants, Soils and Climate offers a Ph.D. degree in Ecology administered by the interdepartmental Ecology Center.

Ecology majors who are housed in the Department of Plants, Soils and Climate also have the option of adding a specialization in Climate Adaptation Science. For this optional specialization, please see the Climate Adaptation Science Specialization page.

Program Requirements

Total Credits Required In Program Coursework
30-60

Total Credits Required To Earn This Credential
30-60

Simple Requisites

Program Requirements

Department of Plants, Soils and Climate Requirements:

- Submission of Dissertation to the School of Graduate Studies and library for review and approval
- Completion of required trainings
- Qualifying Exams
    - Each Ph.D. student must undergo some sort of qualifying experience. Depending on the student's particular research and their faculty committee, the exam can either be a traditional oral and written exam, a scholarly proposal, or another option best suited to the student's individual situation.
- Dissertation defense

School of Graduate Studies (SGS) Requirements:

- Completion of SGS-specific Forms:
    - Supervisory Committee Approval
    - Program of Study
    - Application for Candidacy
    - Appointment for Examination
    - Record of Examination
    - Format & Style Form
    - Authorship & Copyright Form
    - Title Page Form
    - Application for Graduation
- Degree Verification: A bachelor's degree from an accredited U.S. college or university or a similarly recognized international university is required for admission to and completion of a graduate program. An official transcript must be sent directly to the School of Graduate Studies.
- Overall Graduate GPA (≥ 3.0) and No Grades of C- or Lower: Graduate students must maintain at least a 3.0 GPA for degree-program courses. Grades of C- or lower cannot be applied toward a graduate degree.
- Course Number Acceptability: A PhD Program of Study may include no more than 12 semester credits of coursework below 6000-level. The following types of credits are not acceptable toward the degree: foreign language courses (unless included in an approved Program of Study), continuing graduate advisement, individual home study, military science, and any courses numbered below 5000.
- Matriculation Start Semester: PhD degrees must be completed within eight years of entering the program. Additional time may be requested by the advisor and submitted to the Vice Provost of Graduate Studies.
- Coursework Validity: Coursework older than eight years at the time of degree completion may not be used unless it is formally revalidated.

Ph.D. (post-master's)

Type
Completion Requirement

30 required credit hours (minimum), including:

Earn at least 2 credits from the following:

- PSC7890 - Plants, Soils, and Climate Graduate Seminar - 1cr.
- *Ph.D. students must pass this 1-credit course at least **two times** during their program of study*

Ecology Seminar

Earn at least 3 credits from the following:

- BIOL6870 - Ecology Seminar - 1cr.
  OR ENVS6870 - Ecology Seminar - 1cr.
  OR PSC6870 - Ecology Seminar - 1cr.
  OR WATS6870 - Ecology Seminar - 1cr.
  OR WILD6870 - Ecology Seminar - 1cr.
- *Ph.D. students must pass this 1-credit course at least **three times** during their program of study*

Research and Thesis

Earn at least 12 credits from the following:

- PSC7970 - Research and Thesis - 1cr.

9 credits of a demonstrated breadth of knowledge in Ecology

Ph.D. students must take 9 total credits (3 credits from at least three of the five Ecology Blocks)

- Block #1: Biophysical Ecology
- Block #2: Organismic, Population, and Evolutionary Ecology
- Block #3: Community, Ecosystem, and Landscape Ecology
- Block #4: Quantitative Ecology
- Block #5: Human Ecology

Students are advised to discuss course options with their Graduate Program Coordinator to fulfill block requirements. For a list of courses qualifying under these blocks, please visit our website.

Remaining Credits

Remaining credits to reach 30 credit hours (minimum)

- Fulfilled via:
  - Graduate level course work (6000 and above)
  - No more than 12 credits of 5000-5990 level courses

Ph.D. (post-baccalaureate)

Type

Completion Requirement

60 required credit hours (minimum) including:

Earn at least 2 credits from the following:

- PSC7890 - Plants, Soils, and Climate Graduate Seminar - 1cr.
- *Ph.D. students must pass this 1-credit course at least **two times** during their program of study*

Ecology Seminar

Earn at least 3 credits from the following:

- BIOL6870 - Ecology Seminar - 1cr.
  OR ENVS6870 - Ecology Seminar - 1cr.
  OR PSC6870 - Ecology Seminar - 1cr.
  OR WATS6870 - Ecology Seminar - 1cr.
  OR WILD6870 - Ecology Seminar - 1cr.
- *Ph.D. students must pass this 1-credit course at least **three times** during their program of study*

Research and Thesis

Earn at least 18 credits from the following:

- PSC7970 - Research and Thesis - 1cr.

9 credits of a demonstrated breadth of knowledge in Ecology

Ph.D. students must take 9 total credits (3 credits from at least three of the five Ecology Blocks)

- Block #1: Biophysical Ecology
- Block #2: Organismic, Population, and Evolutionary Ecology
- Block #3: Community, Ecosystem, and Landscape Ecology
- Block #4: Quantitative Ecology
- Block #5: Human Ecology

Students are advised to discuss course options with their Graduate Program Coordinator to fulfill block requirements. For a list of courses qualifying under these blocks, please visit our website.

Remaining credits

Remaining credits to reach 60 credit hours (minimum)

- Fulfilled via:
  - Graduate level course work (6000 and above)
  - No more than 12 credits of 5000-5990 level courses

Additional Comments:

Optional Climate Adaptation Science Specialization Requirements:

Ecology majors who are housed in the Department of Plants, Soils and Climate have the option of adding a specialization in Climate Adaptation Science to appear on their transcript upon completion. To opt for this specialization, you must declare this to your home department (Plants, Soils and Climate). Please use specialization code CLAD.

- For course requirements, please see the Climate Adaptation Science Specialization page

Program Learning Outcomes

Program Learning Outcomes

https://caas.usu.edu/psc/assessment

Ecology - Watershed Sciences - MS

Program Overview

College
College of Agriculture & Natural Resources

Department
Watershed Sciences

Program Level
Graduate

About this Degree

Graduate Programs in Ecology

Ecology degree programs at Utah State University are administered by the interdepartmental Ecology Center. Students earn their degrees in Ecology while maintaining residence in one of the participating home departments (BIOL, ENVS, PSC, WATS, WILD). The Ecology Center itself does not directly admit students or grant degrees. Students must first apply to and be admitted to one of the Ecology Center's participating home departments, and then they can opt to major in Ecology in accordance with their faculty advisor and graduate program coordinator.

Interdepartmental Program in Ecology

The Ecology Center aims to promote research and graduate education in ecology and to provide expert, professional information and advice for decision-makers. The research carried out by the center's associates covers the full spectrum of ecology.

Director: Dr. Peter Adler

Location: Natural Resources 208B

E-mail: peter.adler@usu.edu

Correspondence for catalog questions should be sent to the Ecology Center/CAS Program Coordinator:

Program Coordinator: Dr. Lexi Turano

Location: Natural Resources 208

Phone: (435) 797-2555

E-mail: alexandra.turano@usu.edu

Department of Watershed Sciences

The Department of Watershed Sciences offers an M.S. degree in Ecology administered by the interdepartmental Ecology Center. Students must be Plan A (Thesis) to complete the Ecology degree; Plan B (non-Thesis) students are not eligible to major in Ecology.

Ecology majors who are housed in the Department of Watershed Sciences also have the option of adding a specialization in Climate Adaptation Science. For this optional specialization, please see the Climate Adaptation Science Specialization page.

Program Requirements

Total Credits Required In Program Coursework
30

Total Credits Required To Earn This Credential
30

Simple Requisites

Program Requirements

Department Requirements:

- Completion of required trainings, including Responsible Conduct of Research training
- Present at the department Graduate Research Symposium
- Thesis defense
- Submission of thesis to the School of Graduate Studies and library for review and approval

School of Graduate Studies (SGS) Requirements:

- Completion of SGS-specific forms
    - Supervisory Committee Approval
    - Program of Study
    - Master's Thesis Proposal/Project Approval
    - Appointment for Examination
    - Record of Examination
    - Format & Style Form
    - Authorship & Copyright Form
    - Title Page Form
    - Application for Graduation
- Degree Verification: A bachelor's degree from an accredited U.S. college or university or a similarly recognized international university is required for admission to and completion of a graduate program. An official transcript must be sent directly to the School of Graduate Studies.
- Overall Graduate GPA (≥ 3.0) and No Grades of C- or Lower: Graduate students must maintain at least a 3.0 GPA for degree-program courses. Grades of C- or lower cannot be applied toward a graduate degree.
- Course Number Acceptability: A master's Program of Study may include no more than 12 semester credits of coursework below 6000-level. The following types of credits are not acceptable toward the degree: foreign language courses (unless included in an approved Program of Study), continuing graduate advisement, individual home study, military science, and any courses numbered below 5000.
- Matriculation Start Semester: Master's degrees must be completed within six years of entering the program. Additional time may be requested by the advisor and submitted to the Vice Provost of Graduate Studies.
- Coursework Validity: Coursework older than eight years at the time of degree completion may not be used unless it is formally revalidated.

Watershed Sciences and Ecology Center Credit Requirements:

Type
Completion Requirement

30 required credit hours (minimum), including:

Earn at least 1 credits from the following:

- WATS6260 - Watershed Sciences Graduate Student Induction Course - 1cr.

Ecology Seminar

Earn at least 2 credits from the following:

- BIOL6870 - Ecology Seminar - 1cr.
  OR ENVS6870 - Ecology Seminar - 1cr.
  OR PSC6870 - Ecology Seminar - 1cr.
  OR WATS6870 - Ecology Seminar - 1cr.
  OR WILD6870 - Ecology Seminar - 1cr.
- *M.S. students must pass this 1-credit course at least **two times** during their program of study*

6-15 credits of Thesis Research

Earn at least 6 credits from the following:

- WATS6970 - Thesis Research - 1cr.

Ecology breadth of knowledge

6 total credits of a demonstrated breadth of knowledge in Ecology
M.S. students must take 3 credits from at least two of the five Ecology Blocks

- Block #1: Biophysical Ecology
- Block #2: Organismic, Population, and Evolutionary Ecology
- Block #3: Community, Ecosystem, and Landscape Ecology
- Block #4: Quantitative Ecology
- Block #5: Human Ecology

Students are advised to discuss course options with their Graduate Program Coordinator to fulfill block requirements. For a list of courses qualifying under these blocks, please visit our website.

Remaining Credits

Remaining credits to reach 30 credit hours (minimum)

- Fulfilled via:
  - Graduate level course work (6000 and above)
  - No more than 12 credits of 5000-5990 level courses

Additional Comments:

Optional Climate Adaptation Science Specialization:

Ecology majors who are housed in the Department of Watershed Sciences have the option of adding a specialization in Climate Adaptation Science to appear on their transcript upon completion. To opt for this specialization, students must declare this to their home department (Watershed Sciences). Please use specialization code CLAD.

- For course requirements, please see the Climate Adaptation Science Specialization page

Program Learning Outcomes

Program Learning Outcomes

https://qcnr.usu.edu/wats/assessment/graduate

Ecology - Watershed Sciences - PhD

Program Overview

College
College of Agriculture & Natural Resources

Department
Watershed Sciences

Program Level
Graduate

About this Degree

Graduate Programs in Ecology

Ecology degree programs at Utah State University are administered by the interdepartmental Ecology Center. Students earn their degrees in Ecology while maintaining residence in one of the participating home departments (BIOL, ENVS, PSC, WATS, WILD). The Ecology Center itself does not directly admit students or grant degrees. Students must first apply to and be admitted to one of the Ecology Center's participating home departments, and then they can opt to major in Ecology in accordance with their faculty advisor and graduate program coordinator.

Interdepartmental Program in Ecology

The Ecology Center aims to promote research and graduate education in ecology and to provide expert, professional information and advice for decision-makers. The research carried out by the center's associates covers the full spectrum of ecology.

Director: Dr. Peter Adler

Location: Natural Resources 208B

E-mail: peter.adler@usu.edu

Correspondence for catalog questions should be sent to the Ecology Center/CAS Program Coordinator:

Program Coordinator: Dr. Lexi Turano

Location: Natural Resources 208

Phone: (435) 797-2555

E-mail: alexandra.turano@usu.edu

Department of Watershed Sciences

The Department of Watershed Sciences offers a Ph.D. degree in Ecology administered by the interdepartmental Ecology Center.

Ecology majors who are housed in the Department of Watershed Sciences also have the option of adding a specialization in Climate Adaptation Science. For this optional specialization, please see the Climate Adaptation Science Specialization page.

Program Requirements

Total Credits Required In Program Coursework
30-60

Total Credits Required To Earn This Credential
30-60

Simple Requisites

Program Requirements

Department Requirements:

- Completion of required trainings, including Responsible Conduct of Research training
- Present at the department Graduate Research Symposium and give biennial update presentations
- Dissertation defense
- Submission of dissertation to the School of Graduate Studies and library for review and approval

School of Graduate Studies (SGS) Requirements:

- Completion of SGS-specific Forms:
    - Supervisory Committee Approval
    - Program of Study
    - Application for Candidacy
    - Appointment for Examination
    - Record of Examination
    - Format & Style Form
    - Authorship & Copyright Form
    - Title Page Form
    - Application for Graduation
- Degree Verification: A bachelor's degree from an accredited U.S. college or university or a similarly recognized international university is required for admission to and completion of a graduate program. An official transcript must be sent directly to the School of Graduate Studies.
- Overall Graduate GPA (≥ 3.0) and No Grades of C- or Lower: Graduate students must maintain at least a 3.0 GPA for degree-program courses. Grades of C- or lower cannot be applied toward a graduate degree.
- Course Number Acceptability: A PhD Program of Study may include no more than 12 semester credits of coursework below 6000-level. The following types of credits are not acceptable toward the degree: foreign language courses (unless included in an approved Program of Study), continuing graduate advisement, individual home study, military science, and any courses numbered below 5000.
- Matriculation Start Semester: PhD degrees must be completed within eight years of entering the program. Additional time may be requested by the advisor and submitted to the Vice Provost of Graduate Studies.
- Coursework Validity: Coursework older than eight years at the time of degree completion may not be used unless it is formally revalidated.

PhD (post-master's)

Type

Completion Requirement

30 required credit hours (minimum), including:

Earn at least 1 credits from the following:

- WATS6260 - Watershed Sciences Graduate Student Induction Course - 1cr.

Ecology Seminar

Earn at least 3 credits from the following:

- BIOL6870 - Ecology Seminar - 1cr.
  OR ENVS6870 - Ecology Seminar - 1cr.
  OR PSC6870 - Ecology Seminar - 1cr.
  OR WATS6870 - Ecology Seminar - 1cr.
  OR WILD6870 - Ecology Seminar - 1cr.
- *Ph.D. students must pass this 1-credit course at least **three times** during their program of study*

Dissertation Research

Earn at least 12 credits from the following:

- WATS7970 - Dissertation Research - 1cr.

Ecology breadth of knowledge

9 total credits of a demonstrated breadth of knowledge in Ecology

- Ph.D. students must take 3 credits from at least three of the five Ecology Blocks (see below)
    - Block #5: Human Ecology
    - Block #4: Quantitative Ecology
    - Block #3: Community, Ecosystem, and Landscape Ecology
    - Block #2: Organismic, Population, and Evolutionary Ecology
    - Block #1: Biophysical Ecology

Students are advised to discuss course options with their Graduate Program Coordinator to fulfill block requirements. For a list of courses qualifying under these blocks, please visit our website.

Remaining credits

Remaining credits to reach 30 credit hours (minimum)

- Fulfilled via:
    - Graduate level course work (6000 and above)
    - No more than 12 credits of 5000-5990 level courses

PhD (post-baccalaureate)

Type

Completion Requirement

60 required credit hours (minimum) including:

Earn at least 1 credits from the following:

- WATS6260 - Watershed Sciences Graduate Student Induction Course - 1cr.

Ecology Seminar

Earn at least 3 credits from the following:

- BIOL6870 - Ecology Seminar - 1cr.
  OR ENVS6870 - Ecology Seminar - 1cr.
  OR PSC6870 - Ecology Seminar - 1cr.
  OR WATS6870 - Ecology Seminar - 1cr.
  OR WILD6870 - Ecology Seminar - 1cr.
- *Ph.D. students must pass this 1-credit course at least **three times** during their program of study.*

Ecology breadth of knowledge

9 total credits of a demonstrated breadth of knowledge in Ecology

- Ph.D. students must take 3 credits from at least three of the five Ecology Blocks (see below)
    - Block #5: Human Ecology
    - Block #4: Quantitative Ecology
    - Block #3: Community, Ecosystem, and Landscape Ecology
    - Block #2: Organismic, Population, and Evolutionary Ecology
    - Block #1: Biophysical Ecology

Students are advised to discuss course options with their Graduate Program Coordinator to fulfill block requirements. For a list of courses qualifying under these blocks, please visit our website.

Remaining Credits

Remaining credits to reach 60 credit hours (minimum)

- Fulfilled via:
    - Graduate level course work (6000 and above)
    - No more than 12 credits of 5000-5990 level courses

Additional Comments:

Optional Climate Adaptation Science Specialization:

Ecology majors who are housed in the Department of Watershed Sciences have the option of adding a specialization in Climate Adaptation Science to appear on their transcript upon completion. To opt for this specialization, students must declare this to their home department (Watershed Sciences). Please use specialization code CLAD.

- For course requirements, please see the Climate Adaptation Science Specialization page

Program Learning Outcomes

Program Learning Outcomes

https://qcnr.usu.edu/wats/assessment/graduate

Ecology - Wildland Resources - MS

Program Overview

College
College of Agriculture & Natural Resources

Department
Wildland Resources

Program Level
Graduate

About this Degree

Graduate Programs in Ecology

Ecology degree programs at Utah State University are administered by the interdepartmental Ecology Center. Students earn their degrees in Ecology while maintaining residence in one of the participating home departments (BIOL, ENVS, PSC, WATS, WILD). The Ecology Center itself does not directly admit students or grant degrees. Students must first apply to and be admitted to one of the Ecology Center's participating home departments, and then they can opt to major in Ecology in accordance with their faculty advisor and graduate program coordinator.

Interdepartmental Program in Ecology

The Ecology Center aims to promote research and graduate education in ecology and to provide expert, professional information and advice for decision-makers. The research carried out by the center's associates covers the full spectrum of ecology.

Director: Dr. Peter Adler

Location: Natural Resources 208B

E-mail: peter.adler@usu.edu

Correspondence for catalog questions should be sent to the Ecology Center/CAS Program Coordinator:

Program Coordinator: Dr. Lexi Turano

Location: Natural Resources 208

Phone: (435) 797-2555

E-mail: alexandra.turano@usu.edu

Department of Wildland Resources

The Department of Wildland Resources offers an M.S. degree in Ecology administered by the interdepartmental Ecology Center. Students must be Plan A (Thesis) to complete the Ecology degree; Plan B (non-Thesis) students are not eligible to major in Ecology.

Ecology majors who are housed in the Department of Wildland Resources also have the option of adding a specialization in Climate Adaptation Science and/or Forest Ecology. For more information about these optional specializations, please see below.

Program Requirements

Total Credits Required In Program Coursework
30

Total Credits Required To Earn This Credential
30

Simple Requisites

Program Requirements

Department of Wildland Resources Requirements:

- Submission of thesis to the School of Graduate Studies and library for review and approval.
- Completion of required trainings
- Thesis defense

School of Graduate Studies (SGS) Requirements:

- Completion of SGS-specific forms
    - Supervisory Committee Approval
    - Program of Study
    - Master's Thesis Proposal/Project Approval
    - Appointment for Examination
    - Record of Examination
    - Format & Style Form
    - Authorship & Copyright Form
    - Title Page Form
    - Application for Graduation
- Degree Verification: A bachelor's degree from an accredited U.S. college or university or a similarly recognized international university is required for admission to and completion of a graduate program. An official transcript must be sent directly to the School of Graduate Studies.
- Overall Graduate GPA (≥ 3.0) and No Grades of C- or Lower: Graduate students must maintain at least a 3.0 GPA for degree-program courses. Grades of C- or lower cannot be applied toward a graduate degree.
- Course Number Acceptability: A master's Program of Study may include no more than 12 semester credits of coursework below 6000-level. The following types of credits are not acceptable toward the degree: foreign language courses (unless included in an approved Program of Study), continuing graduate advisement, individual home study, military science, and any courses numbered below 5000.
- Matriculation Start Semester: Master's degrees must be completed within six years of entering the program. Additional time may be requested by the advisor and submitted to the Vice Provost of Graduate Studies.
- Coursework Validity: Coursework older than eight years at the time of degree completion may not be used unless it is formally revalidated.

Wildland Resources and Ecology Center Credit Requirements:

Type

Completion Requirement

30 required credit hours (minimum), including:

The Ecology M.S. degree requires a research thesis (M.S. Plan A Thesis).

Earn at least 1 credits from the following:

- WILD6800 - Wildland Resources Departmental Seminar - 1cr.

Ecology Seminar

Earn at least 2 credits from the following:

- BIOL6870 - Ecology Seminar - 1cr.
  OR ENVS6870 - Ecology Seminar - 1cr.
  OR PSC6870 - Ecology Seminar - 1cr.
  OR WATS6870 - Ecology Seminar - 1cr.
  OR WILD6870 - Ecology Seminar - 1cr.

*M.S. students must pass this 1-credit course at least **two times** during their program of study.*

6-15 credits of Thesis Research

Earn at least 6 credits from the following:

- WILD6970 - Thesis Research - 1cr.

Ecology breadth of knowledge

6 total credits of a demonstrated breadth of knowledge in Ecology

- M.S. students must take 3 credits from at least two of the five Ecology Blocks
    - Block #1: Biophysical Ecology
    - Block #2: Organismic, Population, and Evolutionary Ecology
    - Block #3: Community, Ecosystem, and Landscape Ecology
    - Block #4: Quantitative Ecology
    - Block #5: Human Ecology

Students are advised to discuss course options with their Graduate Program Coordinator to fulfill block requirements. For a list of courses qualifying under these blocks, please visit our website.

Remaining Credits

Remaining credits to reach 30 credit hours (minimum)

- Fulfilled via:
    - Graduate level course work (6000 and above)
    - No more than 12 credits of 5000-5990 level courses

Additional Comments:

Optional Forest Ecology Specialization:

Ecology majors who are housed in the Department of Wildland Resources have the option of adding a specialization in Forest Ecology to appear on their transcript upon completion. To opt for this specialization, students must declare this to their home department (Wildland Resources). Please use specialization code FOEC.

Required elements for this specialization include:

- 3 courses (credits vary) approved by the Forest Ecology Specialization Committee for their relevance to Forest Ecology.

Optional Climate Adaptation Science Specialization:

Ecology majors who are housed in the Department of Wildland Resources have the option of adding a specialization in Climate Adaptation Science to appear on their transcript upon completion. To opt for this specialization, students must declare this to their home department (Wildland Resources). Please use specialization code CLAD.

- For course requirements, please see the Climate Adaptation Science Specialization page

Program Learning Outcomes

Program Learning Outcomes

https://qcnr.usu.edu/wild/about/assessment/graduate

Ecology - Wildland Resources - PhD

Program Overview

College
College of Agriculture & Natural Resources

Department
Wildland Resources

Program Level
Graduate

About this Degree

Graduate Programs in Ecology

Ecology degree programs at Utah State University are administered by the interdepartmental Ecology Center. Students earn their degrees in Ecology while maintaining residence in one of the participating home departments (BIOL, ENVS, PSC, WATS, WILD). The Ecology Center itself does not directly admit students or grant degrees. Students must first apply to and be admitted to one of the Ecology Center's participating home departments, and then they can opt to major in Ecology in accordance with their faculty advisor and graduate program coordinator.

Interdepartmental Program in Ecology

The Ecology Center aims to promote research and graduate education in ecology and to provide expert, professional information and advice for decision-makers. The research carried out by the center's associates covers the full spectrum of ecology.

Director: Dr. Peter Adler

Location: Natural Resources 208B

E-mail: peter.adler@usu.edu

Correspondence for catalog questions should be sent to the Ecology Center/CAS Program Coordinator:

Program Coordinator: Dr. Lexi Turano

Location: Natural Resources 208

Phone: (435) 797-2555

E-mail: alexandra.turano@usu.edu

Department of Wildland Resources

The Department of Wildland Resources offers a Ph.D. degree in Ecology administered by the interdepartmental Ecology Center.

Ecology majors who are housed in the Department of Wildland Resources also have the option of adding a specialization in Climate Adaptation Science and/or Forest Ecology. For more information about these optional specializations, please see the Climate Adaptation Science Specialization page.

Program Requirements

Total Credits Required In Program Coursework
30-60

Total Credits Required To Earn This Credential
30-60

Simple Requisites

Program Requirements

Department of Wildland Resources Requirements:

- Submission of Dissertation to the School of Graduate Studies and library for review and approval
- Completion of required trainings
- Dissertation defense

School of Graduate Studies (SGS) Requirements:

- Completion of SGS-specific Forms:
  - Supervisory Committee Approval
  - Program of Study
  - Application for Candidacy
  - Appointment for Examination
  - Record of Examination
  - Format & Style Form
  - Authorship & Copyright Form
  - Title Page Form
  - Application for Graduation
- Degree Verification: A bachelor's degree from an accredited U.S. college or university or a similarly recognized international university is required for admission to and completion of a graduate program. An official transcript must be sent directly to the School of Graduate Studies.
- Overall Graduate GPA (≥ 3.0) and No Grades of C- or Lower: Graduate students must maintain at least a 3.0 GPA for degree-program courses. Grades of C- or lower cannot be applied toward a graduate degree.
- Course Number Acceptability: A PhD Program of Study may include no more than 12 semester credits of coursework below 6000-level. The following types of credits are not acceptable toward the degree: foreign language courses (unless included in an approved Program of Study), continuing graduate advisement, individual home study, military science, and any courses numbered below 5000.
- Matriculation Start Semester: PhD degrees must be completed within eight years of entering the program. Additional time may be requested by the advisor and submitted to the Vice Provost of Graduate Studies.
- Coursework Validity: Coursework older than eight years at the time of degree completion may not be used unless it is formally revalidated.

PhD (post-master's)

Type

Completion Requirement

30 required credit hours (minimum), including:

Earn at least 1 credits from the following:

- WILD7800 - Wildland Resources Departmental Seminar - 1cr.

Ecology Seminar

Earn at least 3 credits from the following:

- BIOL6870 - Ecology Seminar - 1cr.
  OR ENVS6870 - Ecology Seminar - 1cr.
  OR PSC6870 - Ecology Seminar - 1cr.
  OR WATS6870 - Ecology Seminar - 1cr.
  OR WILD6870 - Ecology Seminar - 1cr.
- *Ph.D. students must pass this 1-credit course at least **three times** during their program of study*

Dissertation Research

Earn at least 12 credits from the following:

- WILD7970 - Dissertation Research - 1cr.

Ecology breadth of knowledge

9 total credits of a demonstrated breadth of knowledge in Ecology

- Ph.D. students must take 3 credits from at least three of the five Ecology Blocks (see below)
  - Block #1: Biophysical Ecology
  - Block #2: Organismic, Population, and Evolutionary Ecology
  - Block #3: Community, Ecosystem, and Landscape Ecology
  - Block #4: Quantitative Ecology
  - Block #5: Human Ecology

Students are advised to discuss course options with their Graduate Program Coordinator to fulfill block requirements. For a list of courses qualifying under these blocks, please visit our website.

Remaining Credits

Remaining credits to reach 30 credit hours (minimum)

- Fulfilled via:
- Graduate level course work (6000 and above)
- No more than 12 credits of 5000-5990 level courses

PhD (post-baccalaureate)

Type

Completion Requirement

60 required credit hours (minimum) including:

Earn at least 1 credits from the following:

- WILD7800 - Wildland Resources Departmental Seminar - 1cr.

Ecology Seminar

Earn at least 3 credits from the following:

- BIOL6870 - Ecology Seminar - 1cr.
  OR ENVS6870 - Ecology Seminar - 1cr.
  OR PSC6870 - Ecology Seminar - 1cr.
  OR WATS6870 - Ecology Seminar - 1cr.
  OR WILD6870 - Ecology Seminar - 1cr.

*Ph.D. students must pass this 1-credit course at least **three times** during their program of study*

Dissertation Research

Earn at least 18 credits from the following:

- WILD7970 - Dissertation Research - 1cr.

Ecology breadth of knowledge

9 total credits of a demonstrated breadth of knowledge in Ecology

- Ph.D. students must take 3 credits from at least three of the five Ecology Blocks (see below)
    - Block #5: Human Ecology
    - Block #4: Quantitative Ecology
    - Block #3: Community, Ecosystem, and Landscape Ecology
    - Block #2: Organismic, Population, and Evolutionary Ecology
    - Block #1: Biophysical Ecology

Students are advised to discuss course options with their Graduate Program Coordinator to fulfill block requirements. For a list of courses qualifying under these blocks, please visit our website.

Remaining Credits

Remaining credits to reach 60 credit hours (minimum)

- Fulfilled via:
    - Graduate level course work (6000 and above)
    - No more than 12 credits of 5000-5990 level courses

Additional Comments:

Optional Forest Ecology Specialization:

Ecology majors who are housed in the Department of Wildland Resources have the option of adding a specialization in Forest Ecology to appear on their transcript upon completion. To opt for this specialization, students must declare this to their home department (Wildland Resources). Please use specialization code FOEC.

Required elements for this specialization include:

- 4 courses (credits vary) approved by the Forest Ecology Specialization Committee for their relevance to Forest Ecology
- 1 *additional* course (credits vary) from *any* of the Ecology Center blocks (see above).

Optional Climate Adaptation Science Specialization:

Ecology majors who are housed in the Department of Wildland Resources have the option of adding a specialization in Climate Adaptation Science to appear on their transcript upon completion. To opt for this specialization, students must declare this to their home department (Wildland Resources). Please use specialization code CLAD.

- For course requirements, please see the Climate Adaptation Science Specialization page

Program Learning Outcomes

Program Learning Outcomes

https://qcnr.usu.edu/wild/about/assessment/graduate

Economics - Minor

Program Overview

College
Jon M. Huntsman School of Business

Department
Economics and Finance

Program Level
Undergraduate

Program Requirements

Total Credits Required In Program Coursework
15

Total Credits Required To Earn This Credential
15

Simple Requisites

Program Requirements

A 2.5 GPA is required to obtain the minor.

A minimum grade of C is required in minor courses, unless otherwise noted by the course.

Economics Minor Requirements

Type
Completion Requirement

Required Courses

Complete ALL of the following Courses:

- ECON2010 - Introduction to Microeconomics (BSS) - 3cr.
- ECON2020 - Introduction to Macroeconomics (BAI) - 3cr.

Choose at least 9 credits of upper division electives.

- ECON electives 3000 - 5999

Program Learning Outcomes

Program Learning Outcomes

https://huntsman.usu.edu/assessment/assessment-plan

Economics - PhD

Program Overview

College
College of Agriculture & Natural Resources

Department
Applied Economics

Program Level
Graduate

About this Degree

The Economics Ph.D. is a research based program that emphasizes applied economic theory and quantitative analysis. Students have the option to focus their studies in environmental and natural resource economics; agricultural economics; or regional economic development.

The Climate Adaptation Science Specialization is also offered.

Note: This program only accepts Ph.D. students in odd years.

Admission Requirements for this Program

Prerequisite course work for the PhD in Economics:

M.S. in Agribusiness, Agricultural Economics, Applied Economics, Economics, Environmental/Natural Resource Economics, or a closely related degree.

Or at a minimum evidence of the following coursework:

- Microeconomic Principles
- Intermediate Microeconomics
- Calculus
- Statistics
- Basic Econometrics

Program Requirements

Total Credits Required In Program Coursework
53-73

Total Credits Required To Earn This Credential
53-73

Simple Requisites

Program Requirements

Degree Verification

A bachelor's degree from an accredited U.S. college or university or a similarly recognized international university is required for admission to and completion of a graduate program.

Overall Graduate GPA at least 3.0 and no grades of C-or lower; Graduate stude nts are required to maintain at least a 3.0 GPA for degree-program courses. Grades of C- or lower will not be accepted for a graduate degree.

Course Number Acceptability
The Program of Study for a doctoral degree, if the student has a master's degree, must include at least 15 semester credits at the level of 6000 or above. If the student does not have a master's degree, the Program of Study must include at least 30 credits at the level of 6000 or above.

Credits in the following areas are not acceptable in a degree program: foreign languages (unless included in an approved Program of Study), continuing graduate advisement, individual home study, military science, and courses numbered below 5000.

Courses numbered 5000-5990 are advanced, upper-division courses and cannot be used towards a doctoral degree, unless approved by the graduate program advisor prior to enrollment in the course. If used, a maximum of 12 credits are allowed.

Matriculation Start Semester
A doctorate must be completed within eight years of entering the degree program. Additional time may be requested by the student's committee and submitted to the Vice Provost of Graduate Studies for review.

Coursework Validity
Coursework over eight years old at the time of degree completion may not be used for a graduate degree unless it is re-validated by the Vice Provost of Graduate Studies.

Doctoral forms: Approval of the following academic forms is required for doctoral students by the School of Graduate Studies (SGS):

- Supervisory Committee
- Program of Study
- Application for Candidacy (includes proposal)
- Appointment for Examination
- Record of Examination
- Authorship and Copyright
- Style and Format
- SGS and library review and approval

PhD students who are going from a BS to the PhD are required to complete 73 credits as follows:

Type
Completion Requirement

(1)

Complete the core in the first year (fall and spring semesters; 18 credits).

Complete ALL of the following Courses:

- APEC7130 - Microeconomic Theory I - 3cr.
- APEC7140 - Microeconomic Theory II - 3cr.
- APEC7310 - Econometrics I - 3cr.
- APEC7320 - Econometrics II - 3cr.
- APEC7350 - Mathematical Economics I - 3cr.
- APEC7360 - Mathematical Economics II - 3cr.

NOTE:

APEC 7350 - Taught in a 3 week intensive course just prior to fall semester.

(2)

Summer Semester
Perform successfully on a written qualifying examination based on the core

Students must take a qualifying examination at the end of their first year. It is composed of two, four-hour exams covering 1) microeconomics and 2) econometrics and quantitative methods.

Both exams must be passed before moving on to the second year of study.

(3)

Complete required courses in second year (fall semester; 9 credits)

Complete ALL of the following Courses:

- APEC7150 - Applied Microeconomics - 3cr.
- APEC7330 - Econometrics III - 3cr.
- APEC7960 - Applied Economics Teaching Practicum - 3cr.

(4)

Complete the following additional courses (17 credits):

Complete ALL of the following Courses:

- APEC7950 - Department of Economics Graduate Seminar - 1cr.

2 credits of APEC7950 GRADUATE SEMINAR required

- ***9 credits of APEC 6000 level or above elective courses approved by the student's committee***
- ***6 credits outside of APEC department 6000 level or above***

(5)

Complete a dissertation, successfully orally defend it, and submit it to the School of Graduate Studies.

Earn at least 29 credits from the following:

- APEC7970 - Dissertation Research - 1cr.

PhD students who are going from an MS to the PhD are required to complete 53 credits as follows:

Type

Completion Requirement

(1)

Complete the core in the first year (fall and spring semesters; 18 credits).

Complete ALL of the following Courses:

- APEC7130 - Microeconomic Theory I - 3cr.
- APEC7140 - Microeconomic Theory II - 3cr.
- APEC7310 - Econometrics I - 3cr.
- APEC7320 - Econometrics II - 3cr.
- APEC7350 - Mathematical Economics I - 3cr.
- APEC7360 - Mathematical Economics II - 3cr.

NOTE:

APEC 7350 - Taught in a 3 week intensive course just prior to fall semester.

(2)

Summer Semester
Perform successfully on a written qualifying examination based on the core

Students must take a qualifying examination at the end of their first year. It is composed of two, four-hour exams covering 1) microeconomics and 2) econometrics and quantitative methods.

Both exams must be passed before moving on to the second year of study.

(3)

Complete required courses in second year (fall semester; 9 credits).

Complete ALL of the following Courses:

- APEC7150 - Applied Microeconomics - 3cr.
- APEC7330 - Econometrics III - 3cr.
- APEC7960 - Applied Economics Teaching Practicum - 3cr.

(4)

Complete the following additional courses (14 credits).

Complete ALL of the following Courses:

- APEC7950 - Department of Economics Graduate Seminar - 1cr.

2 credits of APEC7950 GRADUATE SEMINAR required

- ***6 credits of 6000 level or above APEC courses***
- ***6 credits of 6000 level or above courses from outside APEC department***

(5)

Complete a dissertation, successfully orally defend it, and submit it to the School of Graduate Studies.

Earn at least 12 credits from the following:

- APEC7970 - Dissertation Research - 1cr.

Program Learning Outcomes

Program Learning Outcomes

https://huntsman.usu.edu/assessment/assessment-plan

Economics - BA, BS

Program Overview

College
Jon M. Huntsman School of Business

Department
Economics and Finance

Program Level
Undergraduate

About this Degree

Economics is the social science that analyzes the production, distribution, and consumption of goods and services in order to explain how economies work. Students in the economics major learn how to think critically, solve problems, work with numbers, in addition to a variety of other skills. The program also provides a strong grounding in economic theory, which helps open unique career opportunities that involve policy analysis. Students pursuing economics gain valuable research experience that prepares them for graduate school or various careers in business.

- For more information about Economics, see the website
- Admitted and current students must meet with an advisor
- Log on to Degree Works to check student-specific program progress
- The highest math requirement for this degree is MATH1050 COLLEGE ALGEBRA (QL)

Admission Requirements for this Program

First-Year and Transfer Students are admitted to the Huntsman School of Business based on USU's Admission Requirements.

Current USU Students in good standing qualify for admission into a Huntsman School major.

Huntsman School Admission Details: https://huntsman.usu.edu/undergraduate/apply

Program Requirements

Total Credits Required In Program Coursework
31

Total Credits Required To Earn This Credential
120

Simple Requisites

Program Requirements

- Elective credits needed will be determined on an individual basis (a student with continuing education, AP credits, and Language credits may not require additional elective credits).
- Completing a minor or dual major is recommended to fulfill elective credits.
- Individual and professional development opportunities are encouraged, see http://huntsman.usu.edu/programs/ for specific information.
- Huntsman School of Business courses are limited to one repeat.

Completion with at least 2.5 GPA in major courses and 2.0 overall GPA is required for graduation. All major courses require a grade of C or better. Courses *may not* be taken on a pass/fail basis.

Economics Degree

Type
Completion Requirement

Economics Required Courses (19 credits)

Complete ALL of the following Courses:

- ECON2010 - Introduction to Microeconomics (BSS) - 3cr.
- ECON2020 - Introduction to Macroeconomics (BAI) - 3cr.
- ECON2250 - Economics Professional Development - 1cr. **OR** ECON4920 - Economics Internship - 1cr.
- ECON3000 - Quantitative Methods in Economics - 3cr. **OR** DATA3100 - Making Decisions with Data - 3cr.
- ECON3010 - Intermediate Microeconomics (DSS) - 3cr. **OR** ECON5010 - Microeconomic Theory - 3cr.
- ECON3020 - Intermediate Macroeconomics - 3cr. **OR** ECON5020 - Macroeconomic Theory - 3cr.
- ECON3050 - Foundations of Business: Capitalism, Markets, and Innovation - 3cr.

Choose 12 credits of upper-division electives from the following:

Complete ANY of the following Courses:

- POLS3170 - Law and Economics - 3cr.
- ECON 3000 - 5999 listed courses
- FIN 3000 - 5999 listed courses (maximum of 6 credits)
- POLSC 3170 - Law and Economics

Total Elective Credit

Complete the following:
Total elective credit is determined by General Education courses taken, degree type selected, additional credits earned, and any additional math or other prerequisite courses needed. Please consult your Academic Advisor for details.

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Bachelor's Degree)

Suggested Degree Maps

Degree Map Name
Suggested Degree Map - Economics BA, BS
Total Degree Map Credits
120
Degree Map Effective Catalog Year
2027 -

Degree Map Narrative

- Following is a sample four-year plan. Please note that student-specific plans may differ.
- Meet with an academic advisor to create a specific plan that best fits your academic needs.
- The student is ultimately responsible for knowing and completing all degree requirements.
- Make sure you meet the registration requirements for each class by clicking the course link and checking any prerequisites or corequisites.
- Consultation with an advisor may result in an altered plan customized for an individual student.

- Check your Degree Works for requirements and completion.

Students who have not attended any school beyond high school and have a declared major in the Huntsman School of Business are expected to enroll in BUS1000 HSB FRESHMEN ACADEMY during their first year at USU. This course is intended to acculturate students to college life, and is therefore not relevant for internal or external transfer students and online students.

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	15	0

Requirement Select
- ECON2010 - Introduction to Microeconomics (BSS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- ENGL1010 - Writing as Inquiry (CL1)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- USU1010 - University Connections

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select
- BUS1000 - HSB Freshmen Academy

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- MATH1050 - College Algebra (QL)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- General Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	15	0

Requirement Select
- ECON2020 - Introduction to Macroeconomics (BAI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- ENGL2010 - Research and Argument Across Perspectives (CL2)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Breadth Creative Arts (BCA) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- General Elective Course (4 credits) minimum C grade required (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Breadth American Institutions (BAI) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	15	0

Requirement Select

- ECON3000 - Quantitative Methods in Economics

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- ECON3010 - Intermediate Microeconomics (DSS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Breadth Physical Sciences (BPS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- General electives (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Breadth Humanities (BHU) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	15	0

Requirement Select
- ECON3020 - Intermediate Macroeconomics

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- ECON Elective 3000+ (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Breadth Life Sciences (BLS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- General Electives (6 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Fall	15	0

Requirement Select
- ECON3050 - Foundations of Business: Capitalism, Markets, and Innovation

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- ECON Elective 3000+ (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Breadth Social Sciences (BSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- General Elective (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Spring	15	0

Requirement Select
- ECON Elective 3000+ (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Communications Intensive (CI) Courses

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Depth Humanities and Creative Arts (DHA) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- General electives (6 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Fall	15	0

Requirement Select
- ECON Elective 3000+ (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Depth Life and Physical Sciences (DSC) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- General Electives (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	9
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Spring	15	0

Requirement Select

- ECON2250 - Economics Professional Development

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- Communications Intensive (CI) Courses

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- General Electives (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	11
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits
0

Total Major Credits
0

Total Minor Credits
0

Total Elective Credits
0

Program Learning Outcomes

Program Learning Outcomes

https://www.usu.edu/oda/assessment/

Economics - MA

Program Overview

College
Jon M. Huntsman School of Business

Department
Economics and Finance

Program Level
Graduate

About this Degree

The Master of Science (MS) and Master of Arts (MA) degrees in Economics offered through the Department of Economics and Finance, Huntsman School of Business, are primarily intended to prepare students for subsequent doctoral study in Economics. Students that choose to do an MA are required to satisfy the foreign language requirement by earning an additional 15 credits in the study of a foreign language.

Admission Requirements for this Program

Admission to the master's program in the Department of Economics and Finance requires a minimum grade point average (GPA) of 3.0 (4.0 = A) for the last 60 semester credits earned prior to applying for the program. Educational requirements include a bachelor's degree, courses in intermediate microeconomic theory, econometrics/statistics, and mathematical economics/calculus. Students whose prior academic performance warrants admission, although some of these courses have not been taken, may be admitted provisionally. Such students will be required to make up deficiencies by enrolling in appropriate courses prior to beginning the master's program.

The Graduate Record Examination (GRE) is required. GRE scores should be included with the application. Scores should be at or above the 50th percentile for the verbal portion of the examinations and above the 60th percentile for the quantitative portion. A TOEFL score is also required of all students whose native language is not English.

Program Requirements

Total Credits Required In Program Coursework
30

Total Credits Required To Earn This Credential
30

Simple Requisites

Program Requirements

A bachelor's degree from an accredited U.S. college or university or a similarly recognized international university is required for admission to and completion of a graduate program.

Graduate students are required to maintain at least a 3.0 GPA for degree-program courses. Grades of C- or lower will not be accepted for a graduate degree.

A master's degree must be completed within six years of entering the degree program. Additional time may be requested by the student's committee and submitted to the Vice Provost of Graduate Studies for review. Coursework over eight years old at the time of degree completion may not be used for a graduate degree unless it is revalidated.

Degree Requirements

The MSE program requires a minimum of 30 credits from an approved program of study with at least 15 credits from 6000-level courses with an ECN/FIN prefix or higher. Plan A Thesis students must complete 6 credits of Thesis Research (ECN6970 THESIS RESEARCH) while Plan B students must complete 3 credits of Thesis Research (ECN6970 THESIS RESEARCH). More information about courses can be found at https://huntsman.usu.edu/mse/curriculum.

Degree Requirements

Type
Completion Requirement

Plan A Thesis

Earn at least 6 credits from the following:

- ECON6970 - Thesis Research - 1cr.

Plan B

Earn at least 3 credits from the following:

- ECON6970 - Thesis Research - 1cr.

Program Learning Outcomes

Program Learning Outcomes

https://huntsman.usu.edu/assessment/assessment-plan

Economics - MS

Program Overview

College	Department	Program Level
Jon M. Huntsman School of Business	Economics and Finance	Graduate

About this Degree

The Master of Science (MS) and Master of Arts (MA) degrees in Economics offered through the Department of Economics and Finance, Huntsman School of Business, are primarily intended to prepare students for subsequent doctoral study in Economics. Students that choose to do an MA are required to satisfy the foreign language requirement by earning an additional 15 credits in the study of a foreign language.

Admission Requirements for this Program

Admission to the master's program in the Department of Economics and Finance requires a minimum grade point average (GPA) of 3.0 (4.0 = A) for the last 60 semester credits earned prior to applying for the program. Educational requirements include a bachelor's degree, courses in intermediate microeconomic theory, econometrics/statistics, and mathematical economics/calculus. Students whose prior academic performance warrants admission, although some of these courses have not been taken, may be admitted provisionally. Such students will be required to make up deficiencies by enrolling in appropriate courses prior to beginning the master's program.

The Graduate Record Examination (GRE) is required. GRE scores should be included with the application. Scores should be at or above the 50th percentile for the verbal portion of the examinations and above the 60th percentile for the quantitative portion. A TOEFL score is also required of all students whose native language is not English.

Program Requirements

Total Credits Required In Program Coursework	Total Credits Required To Earn This Credential
30	30

Simple Requisites

Program Requirements

A bachelor's degree from an accredited U.S. college or university or a similarly recognized international university is required for admission to and completion of a graduate program.

Graduate students are required to maintain at least a 3.0 GPA for degree-program courses. Grades of C- or lower will not be accepted for a graduate degree.

The program of study for a master's degree cannot include more than 12 semester credits of courses at the 5000 level. Credits in the following areas are not acceptable in a degree program: foreign languages (unless included in an approved Program of Study), continuing graduate advisement, individual home study, military science, and courses numbered below 5000.

A master's degree must be completed within six years of entering the degree program. Additional time may be requested by the student's committee and submitted to the Vice Provost of Graduate Studies for review. Coursework over eight years old at the time of degree completion may not be used for a graduate degree unless it is revalidated.

Degree Requirements

The MSE program requires a minimum of 30 credits from an approved program of study with at least 18 credits from 6000-level courses with an ECON/FIN prefix or higher. Plan A Thesis students must complete 6 credits of Thesis

Research (ECN6970 THESIS RESEARCH) while Plan B students must complete 3 credits of Thesis Research (ECN6970 THESIS RESEARCH). More information about courses can be found at https://huntsman.usu.edu/mse/curriculum.

Degree Requirements

Type
Completion Requirement

Requirements

A minimum of 30 credits from an approved program of study with at least 18 credits from 6000-level or higher courses with an ECON/FIN prefix

Plan A

Earn at least 6 credits from the following:

- ECON6970 - Thesis Research - 1cr.

Plan B

Earn at least 3 credits from the following:

- ECON6970 - Thesis Research - 1cr.

Program Learning Outcomes

Program Learning Outcomes

https://huntsman.usu.edu/assessment/assessment-plan

Economics: Econometrics and Data Analytics Emphasis - BS

Program Overview

College
Jon M. Huntsman School of Business

Department
Economics and Finance

Program Level
Undergraduate

About this Degree

Economics is the social science that analyzes the production, distribution, and consumption of goods and services in order to explain how economies work. Students in the economics major learn how to think critically, solve problems, work with numbers, in addition to a variety of other skills. The program also provides a strong grounding in economic theory, which helps open unique career opportunities that involve policy analysis. Students pursuing economics gain valuable research experience that prepares them for graduate school or various careers in business.

- For more information about Economics, see the website
- Admitted and current students must meet with an advisor
- Log on to Degree Works to check student-specific program progress

Admission Requirements for this Program

First-Year and Transfer Students are admitted to the Huntsman School of Business based on USU's Admission Requirements.

Current USU Students in good standing qualify for admission into a Huntsman School major.

Huntsman School Admission Details: https://huntsman.usu.edu/undergraduate/apply

Program Requirements

Total Credits Required In Program Coursework
43

Total Credits Required To Earn This Credential
120

No Requirements

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Bachelor's Degree)

Suggested Degree Maps

Degree Map Name
Suggested Degree Map - Economics: Econometrics and Data Analytics Emphasis, BA, BS

Total Degree Map Credits
106 - 144

Degree Map Effective Catalog Year
2027 -

Degree Map Narrative

- Following is a sample four-year plan. Please note that student-specific plans may differ.

- Meet with an academic advisor to create a specific plan that best fits your academic needs.
- The student is ultimately responsible for knowing and completing all degree requirements.
- Make sure you meet the registration requirements for each class by clicking the course link and checking any prerequisites or corequisites.
- Consultation with an advisor may result in an altered plan customized for an individual student.
- Check your Degree Works for requirements and completion.

Students who have not attended any school beyond high school and have a declared major in the Huntsman School of Business are expected to enroll in BUS1000 HSB FRESHMEN ACADEMY during their first year at USU. This course is intended to acculturate students to college life, and is therefore not relevant for internal or external transfer students and online students

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	16	0

Requirement Select
- ECON2020 - Introduction to Macroeconomics (BAI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- ENGL1010 - Writing as Inquiry (CL1)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- MATH1050 - College Algebra (QL)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- USU1010 - University Connections

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select
- BUS1000 - HSB Freshmen Academy

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- Breadth Humanities (BHU) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Minimum grade of C required in ECON2020 (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	16 - 17	0

Requirement Select

- ECON2020 - Introduction to Macroeconomics (BAI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- ENGL2010 - Research and Argument Across Perspectives (CL2)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Breadth Creative Arts (BCA) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Breadth Life Sciences (BLS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- General Elective Course (4 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- A minimum grade of C is required in ECON2010, ENGL2010, the BCA, BLS, and General electives (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	12 - 16	0

Requirement Select

- ECON3050 - Foundations of Business: Capitalism, Markets, and Innovation

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- ECON3000 - Quantitative Methods in Economics

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Breadth Physical Sciences (BPS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	0 - 4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Integrated Studies course (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- General Electives (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- A minimum grade of C is required in ECON3050 and ECON3000 (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	9 - 24	0

Requirement Select

- Communications Intensive (CI) Courses

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	0 - 15
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Upper-division electives (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- General electives (6 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Fall	14 - 16	0

Requirement Select

- ECON5000 - Econometrics (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Depth Humanities and Creative Arts (DHA) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1 - 3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Upper-Division Electives (2 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- General Electives (8 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	8
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- A minimum grade of C is required in ECON5000 (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Spring	12 - 27	0

Requirement Select

- ECON3610 - Sports Economics

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Communications Intensive (CI) Courses

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	0 - 15
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Approved Economics elective (3 credits) minimum C grade required (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- General electives (6 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- A minimum grade of C is required in ECON3610 (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Fall	13 - 14	0

Requirement Select

- Depth Life and Physical Sciences (DSC) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2 - 3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Approved Economics elective (3 credits) minimum C grade required (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- General Elective courses (8 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	8
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Spring	14	0

Requirement Select

- Approved Economics Elective (3 credits) minimum C grade required (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- General Elective courses (11 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	11
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Program Learning Outcomes

Program Learning Outcomes

https://www.usu.edu/oda/assessment/

Economics: International Economics and Trade Emphasis - BA, BS

Program Overview

College
Jon M. Huntsman School of Business

Department
Economics and Finance

Program Level
Undergraduate

About this Degree

Economics is the social science that analyzes the production, distribution, and consumption of goods and services in order to explain how economies work. Students in the economics major learn how to think critically, solve problems, work with numbers, in addition to a variety of other skills. The program also provides a strong grounding in economic theory, which helps open unique career opportunities that involve policy analysis. Students pursuing economics gain valuable research experience that prepares them for graduate school or various careers in business.

Multiple emphasis options are available in Economics: International Economics and Trade and Econometrics and Data Analysis.

- For more information about Economics, see the website
- Admitted and current students must meet with an advisor
- Log on to Degree Works to check student-specific program progress

Admission Requirements for this Program

First-Year and Transfer Students are admitted to the Huntsman School of Business based on USU's Admission Requirements.

Current USU Students in good standing qualify for admission into a Huntsman School major.

Huntsman School Admission Details: https://huntsman.usu.edu/undergraduate/apply

Program Requirements

Total Credits Required In Program Coursework
40

Total Credits Required To Earn This Credential
120

Simple Requisites

Program Requirements

- Elective credits needed will be determined on an individual basis (a student with continuing education, AP credits, and Language credits may not require additional elective credits).
- Completing a minor is recommended to fulfill elective credits.
- Individual and professional development opportunities are encouraged, see http://huntsman.usu.edu/programs/ for specific information.
- Huntsman School of Business courses are limited to one repeat.

Completion with at least 2.5 GPA in major courses and 2.0 overall GPA is required for graduation. All major courses require a grade of C or better. Courses *may not* be taken on a pass/fail basis.

Economics - International Economics and Trade Emphasis - BS Required Courses

Type
Completion Requirement

Economics Major Requirements (30-34 credits)

Complete ALL of the following Courses:

- ECON2010 - Introduction to Microeconomics (BSS) - 3cr.
- ECON2020 - Introduction to Macroeconomics (BAI) - 3cr.
- ECON2250 - Economics Professional Development - 1cr.
- ECON3000 - Quantitative Methods in Economics - 3cr. **OR** DATA3100 - Making Decisions with Data - 3cr.
- ECON3010 - Intermediate Microeconomics (DSS) - 3cr. **OR** ECON5010 - Microeconomic Theory - 3cr.
- ECON3020 - Intermediate Macroeconomics - 3cr. **OR** ECON5020 - Macroeconomic Theory - 3cr.
- ECON3050 - Foundations of Business: Capitalism, Markets, and Innovation - 3cr.

International Economics and Trade Emphasis Required Courses

Complete ALL of the following Courses:

- ECON3500 - Introduction to International Business and Economics (DSS) - 3cr.
- ECON5000 - Econometrics (QI) - 3cr.

International Economics and Trade Emphasis Electives

Complete at least 2 of the following courses:

- ECON3550 - Law and Economics - 3cr.
- ECON5500 - Behavioral Economics and Finance (QI) - 3cr.
- FIN3200 - Corporate Finance (QI) - 3cr.
- FIN3300 - Investments - 3cr.
- FIN4300 - International Finance - 3cr.
- FIN5600 - Introduction to Financial Economics - 3cr.

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Bachelor's Degree)

Suggested Degree Maps

Degree Map Name
Suggested Degree Map - Economics: International Economics and Trade Emphasis, BS

Total Degree Map Credits
106 - 144

Degree Map Effective Catalog Year
2027 -

Degree Map Narrative

- Following is a sample four-year plan. Please note that student-specific plans may differ.
- Meet with an academic advisor to create a specific plan that best fits your academic needs.
- The student is ultimately responsible for knowing and completing all degree requirements.
- Make sure you meet the registration requirements for each class by clicking the course link and checking any prerequisites or corequisites.
- Consultation with an advisor may result in an altered plan customized for an individual student.
- Check your Degree Works for requirements and completion.

Students who have not attended any school beyond high school and have a declared major in the Huntsman School of Business are expected to enroll in BUS1000 HSB FRESHMEN ACADEMY during their first year at USU. This course is intended to acculturate students to college life, and is therefore not relevant for internal or external transfer students and online students.

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	16	0

Requirement Select
- ECON2020 - Introduction to Macroeconomics (BAI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- ENGL1010 - Writing as Inquiry (CL1)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- MATH1050 - College Algebra (QL)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- USU1010 - University Connections

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select
- BUS1000 - HSB Freshmen Academy

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- Breadth Humanities (BHU) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Minimum grade of C required in ECON2020 (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	16 - 17	0

Requirement Select
- ECON2010 - Introduction to Microeconomics (BSS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- ENGL2010 - Research and Argument Across Perspectives (CL2)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Breadth Creative Arts (BCA) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Breadth Life Sciences (BLS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- General Elective Course (4 credits) minimum C grade required (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- A minimum grade of C is required in ECON2010, ENGL2010, the BCA, BLS, and General electives (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	12 - 16	0

Requirement Select

- ECON3050 - Foundations of Business: Capitalism, Markets, and Innovation

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- ECON3000 - Quantitative Methods in Economics

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Breadth Physical Sciences (BPS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	0 - 4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Integrated Studies course (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- General Electives (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- A minimum grade of C is required in ECON3050 and ECON3000 (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	9 - 24	0

Requirement Select

- Communications Intensive (CI) Courses

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	0 - 15
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Upper-division electives (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- General electives (6 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Fall	14 - 16	0

Requirement Select

- ECON5000 - Econometrics (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Depth Humanities and Creative Arts (DHA) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1 - 3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Upper-Division Electives (2 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- General Electives (8 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	8
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- A minimum grade of C is required in ECON 5000 (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Spring	12 - 27	0

Requirement Select

- ECON3610 - Sports Economics

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Communications Intensive (CI) Courses

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	0 - 15
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Approved Economics elective (3 credits) minimum C grade required (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- General electives (6 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- A minimum grade of C is required in ECON 3610 (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Fall	13 - 14	0

Requirement Select

- Depth Life and Physical Sciences (DSC) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2 - 3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Approved Economics elective (3 credits) minimum C grade required (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- General Elective courses (8 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	8
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Spring	14	0

Requirement Select

- Approved Economics Elective (3 credits) minimum C grade required (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- General Elective courses (11 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	11
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	Total Major Credits
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Program Learning Outcomes

Program Learning Outcomes

https://www.usu.edu/oda/assessment/

Economics: Prelaw Emphasis - BA, BS (NOT CURRENTLY OFFERED)

Program Overview

College
Jon M. Huntsman School of Business

Department
Economics and Finance

Program Level
Undergraduate

About this Degree

Economics is the social science that analyzes the production, distribution, and consumption of goods and services in order to explain how economies work. Students in the economics major learn how to think critically, solve problems, work with numbers, in addition to a variety of other skills. The program also provides a strong grounding in economic theory, which helps open unique career opportunities that involve policy analysis. Students pursuing economics gain valuable research experience that prepares them for graduate school or various careers in business.

Multiple emphasis options are available in Economics: Economic Theory (NOT CURRENTLY OFFERED), Managerial Economics (NOT CURRENTLY OFFERED), Prelaw Economics (NOT CURRENTLY OFFERED), and International Economics and Trade, Quantitative Economic History (NOT CURRENTLY OFFERED), Financial Economics (NOT CURRENTLY OFFERED), Business Economics (NOT CURRENTLY OFFERED), Econometrics and Data Analysis.

- For more information about Economics, see the website
- Admitted and current students must meet with an advisor
- Log on to Degree Works to check student-specific program progress
- The highest math requirement for this degree is MATH1100 CALCULUS TECHNIQUES (QL)

Admission Requirements for this Program

First-Year and Transfer Students are admitted to the Huntsman School of Business based on USU's Admission Requirements.

Current USU Students in good standing qualify for admission into a Huntsman School major.

Huntsman School Admission Details: https://huntsman.usu.edu/undergraduate/apply

Program Requirements

Total Credits Required To Earn This Credential

120

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Bachelor's Degree)

Program Learning Outcomes

Program Learning Outcomes

https://www.usu.edu/oda/assessment/

Aquatic Ecosystem Restoration - Post-Bachelor's Certificate

Program Overview

College
College of Agriculture & Natural Resources

Department
Watershed Sciences

Program Level
Graduate

About this Degree

The purpose of the Post Bachelor's Certificate in Aquatic Ecosystem Restoration is to provide training for graduate students wishing to gain depth in techniques and principles for restoration of riverine habitats and environments.

Please visit the certificate requirements page for more information.

Program Requirements

Total Credits Required In Program Coursework

12-14

Total Credits Required To Earn This Credential

12-14

Simple Requisites

Program Requirements

Course Requirements

Type
Completion Requirement

Required Courses

Complete ANY of the following Courses:

- WATS4300 - Principles of Ecosystem Restoration - 3cr.
  OR WATS5305 - Ecology and Restoration of Plants - 3cr.
  OR WATS6700 - Restoration Ecology - 4cr.
- ***Students who choose to take WATS5300 RESTORATION PRINCIPLES or WATS5305 PLANT ECOL RESTORATION will need to take additional credits from the Additional Certificate Requirements course list for a total of 12 credits for the certificate.***

Additional required courses

Take 2 credits from the following course options:

Earn at least 2 credits from the following:

- WATS5620 - Intro to Low-Tech Process-Based Restoration of Riverscapes - 1cr.
- WATS5622 - Planning Low-Tech Process-Based Restoration of Riverscapes - 1cr.
- WATS5623 - Designing Low-Tech Process-Based Restoration of Riverscapes - 1cr.

Additional Certificate Requirements (6-8 credits)

Select 6-8 credits from the following courses:

Earn at least 6 credits from the following:

- WATS5305 - Ecology and Restoration of Plants - 3cr.
- WATS5621 - Science and Case Studies of Low-Tech Process-Based Restoration of Riverscapes - 1cr.
- WATS5624 - Implementation of Low-Tech Process-Based Restoration of Riverscapes - 1cr.
- WATS5625 - Adaptive Management and Monitoring of

Low-Tech Process-Based Restoration of Riverscapes - 1cr.
- WATS6050 - Aquatic Ecosystems and Water Resources Systems Modeling - 2cr.
- WATS6150 - Fluvial Geomorphology - 3cr.
- WATS6360 - Wetland Ecology and Management - 3cr.
- WATS6530 - Water Quality and Pollution - 3cr.
- WATS6600 - Environmental Water Management - 3cr.
- WATS6900 - Graduate Special Topics - 1cr.
- ENVS6410 - Translational Ecology - 3cr.
- ENVS6320 - Water Law and Policy in the United States - 3cr.
- ENVS6530 - Natural Resources Administration - 3cr.
- NR6910 - Geographic Information Systems for Natural Resource Applications - 3cr.
- NR6940 - Principles of Remote Sensing of Natural Resources - 3cr.
- NR6950 - Geospatial Analysis for Natural Resource Management - 3cr.

Program Learning Outcomes

Program Learning Outcomes

https://qcnr.usu.edu/wats/assessment/graduate

Economics and Statistics - MS

Program Overview

College
College of Agriculture & Natural Resources

Department
Applied Economics, Mathematics & Statistics

Program Level
Graduate

About this Degree

College of Agriculture and Natural Resources; College of Science

Department of Applied Economics; Department of Mathematics and Statistics

The master's degree in economics and statistics is a flexible, versatile degree that focuses both on gaining extensive quantitative economics knowledge and applying statistics skills to social science.

Note: This program only accepts students in odd years.

The Master of Science (MS) degree in Economics and Statistics is primarily intended to prepare students for subsequent doctoral study in Economics. Consequently, students are required to take the same first-year core theory and econometrics courses as the PhD students.

Graduates in Economics and Statistics are well-prepared to continue their studies at the doctoral level, particularly in programs with a strong quantitative emphasis. Graduates have recently continued their studies at a variety of institutions, including Brown University, the University of Oregon, Harvard Law School, University of California at Irvine, and George Mason University

For More Information
Man-Keun Kim
Director of Graduate Programs
Department of Applied Economics
3530 Old Main Hill, Logan, Utah 84322-3530
Phone: 435-797-2359, email: mk.kim@usu.edu website: apec.usu.edu

Admission Requirements for this Program

Admission to this master's program requires a minimum grade point average (GPA) of 3.0 (4.0 = A) for the last 60 semester credits earned prior to applying for the program. Educational requirements include previous bachelors (BA or BS) level (or above) courses in intermediate microeconomic theory, econometrics/statistics, and mathematical economics/calculus. Students whose prior academic performance warrants admission, although some of these courses have not been taken, may be admitted provisionally. These students will be required to make up deficiencies by enrolling in appropriate courses prior to beginning the master's program.
The Graduate Record Examination (GRE) is required. GRE scores should be included with the application. Scores must be at or above the 40th percentile for both the quantitative and verbal portions of the examination. A TOEFL score is also required of all students whose native tongue is not English. Application forms and more information about application requirements (such as GRE and TOEFL scores) can be found online at www.usu.edu/graduateschool/ or by phoning 435-797-1189.

Program Requirements

Total Credits Required In Program Coursework
30-33

Total Credits Required To Earn This Credential
30-33

Simple Requisites

Program Requirements

Degree Verification

A bachelor's degree from an accredited U.S. college or university or a similarly recognized international university is required for admission to and completion of a graduate program.

Overall Graduate GPA at least 3.0 and no grades of C- or lower;
Graduate students are required to maintain at least a 3.0 GPA for degree-program courses. Grades of C-or lower will not be accepted for a graduate degree.

Course Number Acceptability
The Program of Study for a master's degree must include at least 18 semester credits at the level of 6000 or above.

Courses numbered 5000-5990 are advanced, upper-division courses and a maximum of 12 credits can be used towards a master's degree.

Credits in the following areas are not acceptable in a degree program: foreign languages (unless included in an approved Program of Study), continuing graduate advisement, individual home study, military science, and courses numbered below 5000.

Matriculation Start Semester
A master's degree must be completed within six years of entering the degree program. Additional time may be requested by the student's committee and submitted to the Vice Provost of Graduate Studies for review.

Coursework Validity
Coursework over eight years old at the time of degree completion may not be used for a graduate degree unless it is revalidated by the Vice Provost of Graduate Studies.

Master's Plan A students:
The Plan A option requires the preparation and defense of a thesis. Students are required to complete a minimum of 6 credits of thesis research (APEC6970 THESIS RESEARCH) for a Program of Study.

Master's Plan B students:
A Plan B option requires the production and defense of a paper or project. Students are required to complete a minimum of 2 credits of thesis research (APEC6970 THESIS RESEARCH) with a maximum of 3 thesis research credits applied toward a Program of Study.

Master's forms: Approval of the following academic forms is required for master's students by the School of Graduate Studies (SGS):

- Supervisory Committee
- Program of Study
- Thesis/Project Approval
- Appointment for Examination
- Record of Examination
- SGS and library review and approval (Plan A)
- Library review and approval (Plan B)

Economics and Statistics - MS

Type
Completion Requirement

Required Courses (24 credits)

Complete ALL of the following Courses:

- APEC7130 - Microeconomic Theory I - 3cr.
- APEC7140 - Microeconomic Theory II - 3cr.
- APEC7310 - Econometrics I - 3cr.
- APEC7320 - Econometrics II - 3cr.
- APEC7350 - Mathematical Economics I - 3cr.
- APEC7360 - Mathematical Economics II - 3cr.
- MATH5710 - Introduction to Probability - 3cr.
- MATH5720 - Introduction to Mathematical Statistics - 3cr.

See program coordinator for plan of study for these courses.

NOTE:

1. APEC7350 MATHEMATICAL ECON I - Taught in a 3 week intensive course just prior to fall semester.

Thesis/Research Paper

Complete (6 credits for Plan A) or (3 credits for Plan B)

Complete ALL of the following Courses:

- APEC6970 - Thesis Research - 1cr.

Plan B only

Earn at least 3 credits

- Elective course must be in APEC, ECN, MATH, or STAT

Additional Comments:

NOTE:

For students who are majoring under the Math and Statistics department, those Plan B and C students interested in studying Macroeconomic Theory, the Department of Economics and Finance in the Huntsman School of Business offers two courses at the master's/PhD level (cross-listed as APEC7240 MACROECONOMIC THEORY II that can be taken during the Second Fall Semester. Also, the two Math courses taken during the first fall and spring semesters (MATH5710 INTRO TO PROBABILITY and MATH5720 INTRO TO MATH STATISTICS) are prerequisites for higher-level math and statistics courses offered through the Mathematics and Statistics Department. These higher-level math courses can therefore be taken during the Second Fall Semester as well.

Program Learning Outcomes

Program Learning Outcomes
https://caas.usu.edu/apec/assessment

https://www.usu.edu/math/assessment/Statistics

Engineering Drafting and Design Technology - Technical Certificate

Program Overview

College
College of Agriculture & Natural Resources

Department
Technology, Design & Technical Ed

Program Level
Undergraduate

About this Degree

Federal Gainful Employment Information

Bring ideas to life with the Engineering, Drafting and Design program! Through a hands-on, project-based curriculum, students dive into architectural, mechanical, and civil drafting, mastering industry-standard techniques and best practices. With one-on-one guidance from experienced instructors, students will develop the skills to create precise technical drawings using cutting-edge software. Every course is computer-intensive and competency-based, ensuring they gain real-world experience that employers value. Whether a student is aiming for entry-level employment or planning to continue their education, this program equips them with the knowledge and skills to succeed in the dynamic world of drafting and design.

Program Requirements

Total Credits Required In Program Coursework
30

Total Credits Required To Earn This Credential
30

Simple Requisites

Program Requirements

Engineering Drafting and Design Technology Course Requirements

Type
Completion Requirement

The following courses are required:

Complete ALL of the following Courses:

- EDDT1010 - Technical Drafting - 4cr.
- EDDT1040 - CAD Level I: Intro to CAD - 3cr.
- EDDT1070 - CAD Level II: Intro to 3-D - 3cr.
- EDDT1100 - Residential Architectural Drafting - 3cr.
- EDDT1200 - 3D Modeling - 3cr.
- EDDT2650 - Mechanical Blueprint Reading - 2cr.
- ELET1110 - Technical Mathematics - 3cr.
- MACH1010 - Machine Tool Technology I - 3cr.
- ***5 credits minimum in elective coursework***

Program Learning Outcomes

Program Learning Outcomes

https://caas.usu.edu/tdte/assessment/

Education Paraprofessional - Certificate (NOT CURRENTLY OFFERED)

Program Overview

College
College of Education & Human Services

Department
School of Teacher Education & Leadership

Program Level
Undergraduate

About this Degree

The Education Paraprofessional Certificate is intended to prepare individuals who have graduated from high school and who have been hired as paraprofessional in the public schools to improve their practice as a paraprofessional and to move toward teacher licensure if they so choose. Students are admitted to the program as a cohort and move through the program on a cohort basis. The schedule requires approximately 6-9 credits per semester to accommodate the paraprofessionals' work schedules. The program is offered entirely online.

- For more information about Elementary Education, see the website.
- Admitted students must meet with an advisor (435-797-0391). Current students should also meet with an advisor (435-797-0391).
- Log on to Degree Works to check student-specific program progress.
- The highest math course for this certificate is MATH1050 COLLEGE ALGEBRA (QL) or MATH1051 CLASSIC ALGEBRA TEACHERS (QL).

Admission Requirements for this Program

- New freshmen must be admitted to USU in Good Standing.
- High School Diploma & hiring as a paraprofessional in a participating school district.

Program Requirements

Total Credits Required In Program Coursework
33

Total Credits Required To Earn This Credential
33

Simple Requisites

Program Requirements

- Program may be taken totally online.
- Students complete the program as a cohort from a participating school district.
- This program requires an overall **GPA of 3.0** as well as a **GPA of 3.0** in major requirements.
- Program requirements **may *not*** be taken on a pass/fail basis, **unless** the course is only taught pass/fail.
- Total Credits: 33
- Credits of C- or better: 33
- General Education Requirements: 19
- Grade Point Average (most majors require higher GPA): 3.0
- Total USU Credits: 33
- Credits in American Institutions (BAI) (Elective): 3

Education Paraprofessional - Certificate

Type
Completion Requirement

Paraprofessional Sequence (5 credits)

Complete ALL of the following Courses:

- TEAL1001 - Professional Relationships - 1cr. (Inactive)
- TEAL1002 - Assessment for Parprofessionals - 1cr. (Inactive)
- TEAL1003 - Instructional Strategies for Paraprofessionals - 1cr. (Inactive)
- TEAL1004 - Safe Schools - 1cr. (Inactive)
- TEAL1005 - Educator Self-Awareness - 1cr. (Inactive)

Education Requirements

Complete ALL of the following Courses:

- ENGL1010 - Writing as Inquiry (CL1) - 3cr.
- HDFS1500 - Human Development Across the Lifespan (BSS) - 3cr.
- SPED1010 - Disability and Society (BSS) - 3cr.
- MATH1050 - College Algebra (QL) - 4cr.
  OR MATH1051 - Classical Algebra for Teachers (QL) - 4cr.
- TEAL1010 - Introduction to Education - 3cr.

Breadth Education Required Courses (12 credits)

Earn at least 12 credits

- 12 credits (4 courses) of Breadth Education courses are required. There are five categories of Breadth Education courses from which the student may choose: BAI, BCA, BHU, BLS, and BPS. Only one course per category will be applied toward credit for the certification.

Minimum University Requirements

Minimum University Requirements

- Minimum University Requirements (Undergraduate Academic or Technical Certificates)

Program Learning Outcomes

Program Learning Outcomes

https://cehs.usu.edu/about/assessment

Education - Curriculum and Instruction Specialization - EdD

Program Overview

College
College of Education & Human Services

Department
School of Teacher Education & Leadership

Program Level
Graduate

About this Degree

The School of Teacher Education and Leadership (TEAL), in the Emma Eccles Jones College of Education and Human Services (CEHS), offers a doctoral program to earn a Doctor of Education (Ed.D.) in Curriculum& Instruction (C & I). As a professional doctorate for practitioners, the Doctor of Education (Ed.D.) equips educators with the tools to implement tangible changes within their professional environments, enhancing educational outcomes. Please review the TEAL Ed.D. website for more information.

Degrees offered: Doctor of Education (Ed.D.)

Graduate specialization: Curriculum and Instruction

Admission Requirements for this Program

For additional admission information, including, contact information, please refer to the TEAL admissions for doctoral program website.

Please follow the 5 steps for admissions:

1. Complete USU Graduate School Application
2. Three letters of recommendation. All letters should address the student's potential for successful graduate study.
3. A copy of an official transcript from each previously attended college and/or university (except Utah State University). The official transcript must show the master's degree verified (the degree has been awarded and shows the award/conferral date on the transcript). A Master's degree in education or closely related field (e.g., Instructional Technology and Learning Sciences) is preferred. A minimum, cumulative GPA 3.0 or above for highest degree verified.
4. A Curriculum Vitae that shows evidence of at least two years of successful experience in teaching.
5. Statement of purpose essay (500 words). Please review the TEAL admissions website for directions.

International applicants are expected to follow the School of Graduate Studies application requirements, including completion of the English Language Proficiency Test.

Deadline for applications: December 1st

Program Requirements

Total Credits Required In Program Coursework
46

Total Credits Required To Earn This Credential
46

Simple Requisites

Program Requirements

General Information About Doctorate in Curriculum and Instruction (C & I)

Planned Program

To complete an Ed.D. degree, a minimum of 46 total credits (6000 level or above) is required for students with a Master's degree. A student must:

- Complete (a) Curriculum and Instruction Core (10 semester credits), (b) Research Methods Core (9 semester credits), (c) Electives (15 credits), and (d) Capstone Project (12 credits), approved by the student's Supervisory Committee.
- Pass a doctoral capstone project proposal defense directed and evaluated by a Supervisory Committee of graduate faculty. The committee consists of 3 USU Graduate Faculty members, which may include 1 Outside Member (and 2 TEAL faculty).
- Complete and satisfactorily defend a doctoral capstone project directed and evaluated by a Supervisory Committee of graduate faculty.
- Complete all final requirements, as specified by the Curriculum and Instruction specialization, the Emma Eccles Jones College of Education and Human Services, and the School of Graduate Studies.

School of Graduate Studies Requirements

- Degree Verification: A master's degree from an accredited U. S. college or university or a similarly recognized international university is required for admission.
- Overall Graduate GPA at least 3.0 and no grades of C- or lower;
- Graduate students are required to maintain at least a 3.0 GPA. Grades of C- or lower will not be accepted for a graduate degree.
- Course Number Acceptability: The program of study for a doctoral degree cannot include courses at the 5000 level. Credits of courses at the 6000 level or above are required.
- Matriculation Start Semester: A doctoral degree must be completed within eight years of entering the degree program. Additional time may be requested by the student's committee and submitted to the Vice Provost of Graduate Studies for review.
- Required Forms: Ed.D. program forms are available on the School of Graduate Studies forms website and the TEAL Service Now forms website.
    - Supervisory Committee Form
    - Program of Study
    - Title Page
    - Graduation Application
    - TEAL Thesis/Dissertation Credit Request Form
    - TEAL Annual Review
    - TEAL Dissertation Proposal/Defense Request Form

Students are expected to consult with their advisor for course enrollment.

Requirements

Type
Completion Requirement

Required Courses (10 credits)

Complete ALL of the following Courses:

- TEAL7015 - Orientation to Educational Research - 1cr.
- TEAL7150 - Curriculum Theory - 3cr.
- TEAL7300 - Historical, Social, and Cultural Foundations of Education - 3cr.
- TEAL7310 - Teaching-Learning Foundations in Education - 3cr.

Research Core Requirements (9 credits minimum)

A student must take 9 credits of research methods courses from the list below. EDUC6570 INTRO ED/PSY RESEARCH is required. The student can select six credits of research methods courses.

Fulfill ALL of the following requirements:

Required Courses (3 credits)

Complete ALL of the following Courses:

- EDUC6570 - Introduction to Educational and Psychological Research - 3cr.

AND

Six credits from research methods cluster (6 credits)

Complete at least 6 of the following courses:

- EDUC6050 - Applied Statistical Analysis - 3cr.
- EDUC6010 - Introduction to Program Evaluation: Evaluation Models and Practical Guidelines - 3cr.
- EDUC6770 - Qualitative Research Methods - 3cr.
- TEAL7675 - Discourse Analysis in Education - 3cr.
- TEAL7545 - Research for Teachers - 3cr.
- TEAL7549 - Autoethnography as Research MethodologyMethodology - 3cr.
- TEAL7820 - Seminar: Special Topics in Teacher Education and Leadership - 1cr.
- TEAL7324 - Advanced Studies in Literacy Assessment and Intervention - 3cr.

NOTE:

TEAL7820 ST: TEAL - Is a rotating special topics course.

Doctoral Electives (15 credits)

A student must take 15 credits from the list below. Substitutions can be made by the supervisory committee.

Complete ANY of the following Courses:

- TEAL6710 - Diversity in Education - 3cr.
- TEAL6755 - Family and Community Involvement for ELs - 3cr.
- TEAL7050 - Theories of Instructional Supervision - 3cr.
- TEAL7060 - Assessment and Data Issues for Instructional Leaders - 3cr.
- TEAL7090 - Theories of Organizational Leadership in Education - 3cr.
- TEAL7320 - Theories and Models of Reading - 3cr.
- TEAL7321 - Foundations of Literacy and Oral Language Development - 3cr.
- TEAL7322 - Research in Literacy - 3cr.
- TEAL7323 - Literacy Education Teacher Training and Development - 3cr.
- TEAL7324 - Advanced Studies in Literacy Assessment and Intervention - 3cr.
- TEAL7325 - Instructional Leadership - 3cr.
- TEAL7380 - Writing Research and Instruction - 3cr.
- TEAL7415 - History of Policy Change in US Schools - 3cr.
- TEAL7545 - Research for Teachers - 3cr.
- TEAL7551 - Mathematics Education Research Foundations - 3cr.
- TEAL7552 - Mathematics Education Learning Theory - 3cr.
- TEAL7553 - Mathematics Education Curriculum Content and

Evaluation - 3cr.
- TEAL7554 - Mathematics Education Teacher Preparation and Pedagogy - 3cr.
- TEAL7555 - Mathematics Education Current Issues and Policy - 3cr.
- TEAL7556 - Mathematics Education Research Design and Assessment - 3cr.
- TEAL7557 - Advanced Research Design in Mathematics Education and Leadership - 3cr.
- TEAL7710 - History of Science Education - 3cr.
- TEAL7712 - STEM Education: Research Development - 3cr.
- TEAL7713 - Nature of Science Research - 3cr.
- TEAL7714 - Misconceptions in Science Education - 3cr.
- TEAL7715 - Research Practices for Science Educators - 3cr.
- TEAL7810 - Research Seminar - 1cr.
- TEAL7820 - Seminar: Special Topics in Teacher Education and Leadership - 1cr.
- ITLS6545 - Socio-Cultural Learning Theory - 3cr.
- SOC6480 - Seminar in Race and Ethnicity - 3cr.
- SOC6760 - Theory and Research in Social Inequality - 3cr.

Doctoral Capstone Project (12 credits)

Complete ALL of the following Courses:
- TEAL7010 - Critical Issues in Education - 3cr.
- TEAL7670 - Education Literature Reviews - 3cr.
- TEAL7810 - Research Seminar - 1cr.
- TEAL7970 - Dissertation Research in Curriculum and Instruction - 1cr.

NOTE:

TEAL7970 DISSERTATION RESEARCH IN C&I - Register for 3 credits

Program Learning Outcomes

Program Learning Outcomes
https://www.usu.edu/oda/assessment/

Education: Curriculum and Instruction Specialization - PhD

Program Overview

College	Department	Program Level
College of Education & Human Services	School of Teacher Education & Leadership	Graduate

About this Degree
The School of Teacher Education and Leadership (TEAL), in the Emma Eccles Jones College of Education and Human Services (CEHS), offers a doctoral program to earn a Doctor of Philosophy (Ph.D.) in Education specializing in Curriculum & Instruction (C & I) with a concentration area (see areas below). The C & I specialization prepares graduates for leadership, teaching, and research positions in curriculum and instruction. Please review the TEAL Ph. D. website for more information.

Degree offered: Doctor of Philosophy (Ph.D.)

Graduate specialization: Curriculum and Instruction

Concentration Areas:
- Science Education
- Literacy Education and Leadership
- Cultural Studies in Education
- Mathematics Education and Leadership
- School Leadership

Admission Requirements for this Program
For additional admission information, including contact information, please refer to the TEAL admissions for doctoral program website.

Please follow the 5 steps for admissions:

1. Complete USU Graduate School Application
2. Three letters of recommendation. All letters should address the student's potential for successful graduate study.
3. A copy of an official transcript from each previously attended college and/or university (except Utah State University). The official transcript must show the master's degree verified (the degree has been awarded and shows the award/conferral date on the transcript). A Master's degree in education or closely related field (e.g., Instructional Technology and Learning Sciences) is preferred. A minimum, cumulative GPA 3.0 or above for highest degree verified.
4. A Curriculum Vitae that shows evidence of at least two years of successful experience in teaching.
5. Statement of purpose essay (500 words). Please review the TEAL admissions website for directions.

International applicants are expected to follow the School of Graduate Studies application requirements, including completion of the English Language Proficiency Test.

Deadline for applications: December 1st

Program Requirements

Total Credits Required In Program Coursework	Total Credits Required To Earn This Credential
60	60

Simple Requisites

Program Requirements

Planned Program

To complete a Ph.D. degree, a minimum of 60 total credits (6000 level or above) is required for students who previously earned a Master's degree. A student must:

1. Complete (a) Curriculum and Instruction Core (10 semester credits), (b) Research Methods Core (12 semester credits), and Concentration Area Core (12-21 credits), approved by the student's Supervisory Committee.
2. Pass a written Comprehensive Examination. This exam must be satisfactorily completed before the student advances to candidacy. Advancement to candidacy also requires an approved dissertation proposal.
3. Complete and satisfactorily defend a doctoral research study directed and evaluated by a Supervisory Committee of USU Graduate Faculty.
4. Complete all degree requirements, as specified by the Curriculum and Instruction specialization, the Emma Eccles Jones College of Education and Human Services, and the School of Graduate Studies.

Ph.D. Residency Professional Requirements

The Ph.D. prepares candidates for careers in university settings, school districts, or research institutes. It is designed for graduates who will have significant leadership, research and/or higher education teaching responsibilities.

All PhD students must:

- Present once at a state, regional, or national professional conference
- Submit a manuscript to a peer-reviewed professional journal

PhD students participate with faculty to extend their immersion in academia in a number of ways:

Research and creative endeavors: (e. g., participate in a research project; participate in a grant-funded project; apply for graduate student funding; write/co-write a grant to fund a research project; publish an article in professional organization's newsletter; publish a book review)

- Immersion in the culture of graduate education: (e. g., participate in scholarly discussion of writing groups; participate in graduate student organizations and events; serve on committees within the department, college, or university; complete coursework or immersion in literature beyond program requirements)
- Engagement in professional activities: (e. g., teach a college course; work as a research or teaching assistant at the college level; conduct a guest lecture or workshop; attend local, regional, or national scholarly professional meetings; hold office in local, regional, or national scholarly professional meetings; organize informal seminars, consortia, or orientation programs; serve as a reviewer for a professional conference or journal)

School of Graduate Studies Requirements

- Degree Verification: A Master's degree from an accredited U. S. college or university or a similarly recognized international university is required for admission. An official transcript must be sent directly to the School of Graduate Studies.
- Overall Graduate GPA at least 3.0 and no grades of C- or lower; Graduate students are required to maintain at least a 3.0 GPA. Grades of C- or lower will not be accepted for a graduate degree.
- Course Number Acceptability: The program of study for a doctoral degree cannot include courses at the 5000 level. Credits **.** Credits of courses at the 6000 level or above are required
- Matriculation Start Semester**:** A doctoral degree must be completed within eight years of entering the degree program. Additional time may be requested by the student's committee and submitted to the Vice Provost of Graduate Studies for review.
- Coursework Validity: Coursework over eight years old at the time of degree completion may not be used for a graduate degree unless it is revalidated by the Vice Provost of Graduate Studies.
- Required Forms:

Ph.D. program forms are available on the School of Graduate Studies forms website and the TEAL Service Now forms website.

- Supervisory Committee Form
- Program of Study
- Application for Candidacy
- Appointment for Exam
- Record of Exam
- Authorship & Copyright
- Format and Style
- Title Page
- Graduation Application
- TEAL Thesis/Dissertation Credit Request Form
- TEAL Annual Review
- TEAL Dissertation Proposal/Defense Request Form
- TEAL Professional Requirements From
- TEAL Comprehensive Exam Request Form

Curriculum and Instruction Specialization - Ph.D.

Type
Completion Requirement

Concentration Areas

All Ph.D. in Education students must complete the required Curriculum & Instruction Specialization Core and Research Methods coursework. Additionally, the Ph.D. in Education program offers coursework across five concentration areas for fulfilling requirements for an area of Concentration. Please review the most current planning guides on the TEAL concentration area websites.

The following are concentration options:

- Science Education
- Literacy Education
- Cultural Studies
- Mathematics Education
- School Leadership

Science Education Concentration

Type
Completion Requirement

Science Education

Fulfill ALL of the following requirements:

Core Courses (10 credits)

Complete ALL of the following Courses:

- TEAL7015 - Orientation to Educational Research - 1cr.
- TEAL7150 - Curriculum Theory - 3cr.
- TEAL7300 - Historical, Social, and Cultural Foundations of Education - 3cr.
- TEAL7310 - Teaching-Learning Foundations in Education - 3cr.

Recommended:

1. TEAL7670 EDUCATION LITERATURE REVIEWS - Education Literature Reviews 3 credit(s)

AND

Research Methods Courses (15 credits)

Two research methods courses, EDUC6800 MIXED METHODS RESEARCH and EDUC7610 REGRESSION ANALYSIS, are required for Science Education concentration area students.

Complete ALL of the following Courses:

- EDUC6570 - Introduction to Educational and Psychological Research - 3cr.
- EDUC6600 - Statistical Foundations - 3cr.
- EDUC6770 - Qualitative Research Methods - 3cr.
- EDUC6800 - Mixed Methods Research - 3cr.
- EDUC7610 - Regression Analysis - 3cr.

AND

Science Concentration Required Courses (15 credits)

Complete ALL of the following Courses:

- TEAL7710 - History of Science Education - 3cr.
- TEAL7712 - STEM Education: Research Development - 3cr.
- TEAL7713 - Nature of Science Research - 3cr.
- TEAL7714 - Misconceptions in Science Education - 3cr.
- TEAL7715 - Research Practices for Science Educators - 3cr.

AND

Dissertation Credits (12 credits)

Complete ALL of the following Courses:

- TEAL7970 - Dissertation Research in Curriculum and Instruction - 1cr.

NOTE:

TEAL7970 DISSERTATION RESEARCH IN C&I- Register for a total of 12 credits.

AND

Elective Credits (8 credits)

Students must also complete 8 elective credits.
Recommended:

1. TEAL7548 QUAL RESEARCH APPRENTICESHIP - Qualitative Research Apprenticeship (1-3 credits)
2. ITLS7350 ETHNOGRAPHY - Ethnography (3 credits)
3. TEAL7546 QUALITATIVE DATA ANALYSIS - Qualitative Data Analysis (3 credits)

Recommended Research Courses:

1. EDUC6010 INTRO TO PROGRAM EVALUATION - Introduction to Program Evaluation (3 credits)
2. TEAL7545 RESEARCH FOR TEACHERS - Research for Teachers (3 credits)
3. TEAL7549 AUTOETHNOGRAPHY - Autoethnography as Research Methodology (3 credits)
4. TEAL7675 DISCOURSE ANALYSIS - Discourse Analysis in Education (3 credits)
5. TEAL7324 ADVANCED LITERACY ASSESSMENT - Advanced Studies in Literacy Assessment and Intervention (3 credits)
6. SPED7700 SINGLE-SUBJECT RESEARCH - Single Subject Research Methods and Designs (3 credits)

See you Ph.D Advisor for guidance.

Literacy Education and Leadership Concentration

Type
Completion Requirement

Literacy Education

Fulfill ALL of the following requirements:

Core Courses (10 credits)

Complete ALL of the following Courses:

- TEAL7015 - Orientation to Educational Research - 1cr.
- TEAL7150 - Curriculum Theory - 3cr.
- TEAL7300 - Historical, Social, and Cultural Foundations of Education - 3cr.
- TEAL7310 - Teaching-Learning Foundations in Education - 3cr.

Recommended:

1. TEAL7670 EDUCATION LITERATURE REVIEWS - Education Literature Reviews 3 credit(s)

AND

Required Research Methods Courses (12 credits)

Complete ALL of the following Courses:

- EDUC6570 - Introduction to Educational and Psychological Research - 3cr.
- EDUC6600 - Statistical Foundations - 3cr.
- EDUC6770 - Qualitative Research Methods - 3cr.
- TEAL7324 - Advanced Studies in Literacy Assessment and Intervention - 3cr.

AND

Advanced Research Methods Course (3 credits)

Complete at least 1 of the following courses:

- EDUC6800 - Mixed Methods Research - 3cr.
- EDUC7610 - Regression Analysis - 3cr.
- TEAL7546 - Qualitative Data Analysis - 3cr.
- TEAL7547 - Thinking with Theory in Qualitative Research - 3cr.
- EDUC6010 - Introduction to Program Evaluation: Evaluation Models and Practical Guidelines - 3cr.
- TEAL7548 - Qualitative Research Apprenticeship - 1cr.

AND

Literacy Concentration Required Courses (18 credits)

Complete ALL of the following Courses:

- TEAL7320 - Theories and Models of Reading - 3cr.
- TEAL7321 - Foundations of Literacy and Oral Language Development - 3cr.
- TEAL7322 - Research in Literacy - 3cr.
- TEAL7570 - K-12 Comprehension Research - 3cr.
- TEAL7380 - Writing Research and Instruction - 3cr.
- TEAL7326 - Designing and Conducting Literacy Research: A Capstone Experience - 3cr.

AND

Dissertation Credits (12 credits)

Complete ALL of the following Courses:

- TEAL7970 - Dissertation Research in Curriculum and Instruction - 1cr.

NOTE:

TEAL7970 DISSERTATION RESEARCH IN C&I- Register for a total of 12 credits.

AND

Elective Credits (5 credits)

Students must also complete additional elective credits.
Recommended:

1. TEAL7327 LITERACY RESEARCH APPRENT - Literacy Research Apprenticeship (1 credit) (can be repeated for a total of 2 credits)
2. TEAL7390 RSRCH K12 LIT FIC NONFIC TXTS - Researching K-12 Literacy through Fiction and Non-Fiction Texts (3 credits)
3. TEAL7323 LITERACY TEACHER EDUCATION - Literacy Education Teacher Preparation and Development (3 credits)

Recommended Research Courses:

1. EDUC6010 INTRO TO PROGRAM EVALUATION - Introduction to Program Evaluation (3 credits)
2. TEAL7545 RESEARCH FOR TEACHERS - Research for Teachers (3 credits)
3. TEAL7548 QUAL RESEARCH APPRENTICESHIP - Qualitative Research Apprenticeship (1 credit)
4. TEAL7549 AUTOETHNOGRAPHY - Autoethnography as Research Methodology (3 credits)
5. TEAL7675 DISCOURSE ANALYSIS - Discourse Analysis in Education (3 credits)
6. SPED7700 SINGLE-SUBJECT RESEARCH - Single Subject Research Methods and Designs (3 credits)
7. ITLS7350 ETHNOGRAPHY - Ethnography (3 credits)

See you Ph.D Advisor for guidance.

Cultural Studies in Education Concentration

Type
Completion Requirement

Cultural Studies

Fulfill ALL of the following requirements:

Core Courses (10 credits)

Complete ALL of the following Courses:

- TEAL7015 - Orientation to Educational Research - 1cr.
- TEAL7150 - Curriculum Theory - 3cr.
- TEAL7300 - Historical, Social, and Cultural Foundations of Education - 3cr.
- TEAL7310 - Teaching-Learning Foundations in Education - 3cr.

Recommended:

1. TEAL7670 EDUCATION LITERATURE REVIEWS - Education Literature Reviews 3 credit(s)

AND

Required Research Methods Courses (9 credits)

Complete ALL of the following Courses:

- EDUC6570 - Introduction to Educational and Psychological Research - 3cr.
- EDUC6600 - Statistical Foundations - 3cr.
- EDUC6770 - Qualitative Research Methods - 3cr.

AND

Elective Research Methods Courses (3 credits)

Earn at least 3 credits from the following:

- TEAL7547 - Thinking with Theory in Qualitative Research - 3cr.
- TEAL7546 - Qualitative Data Analysis - 3cr.
- EDUC6800 - Mixed Methods Research - 3cr.
- EDUC7610 - Regression Analysis - 3cr.
- TEAL7675 - Discourse Analysis in Education - 3cr.

AND

Additional Elective Research Methods Courses (3 credits)

Earn at least 3 credits from the following:

- TEAL7547 - Thinking with Theory in Qualitative Research - 3cr.
- TEAL7546 - Qualitative Data Analysis - 3cr.
- EDUC6800 - Mixed Methods Research - 3cr.
- EDUC7610 - Regression Analysis - 3cr.
- TEAL7675 - Discourse Analysis in Education - 3cr.

- TEAL7548 - Qualitative Research Apprenticeship - 1cr.
- TEAL7545 - Research for Teachers - 3cr.

AND

Cultural Studies Required Courses (6 credits)

Complete ALL of the following Courses:

- TEAL7200 - Advanced Review of Cultural Studies Research - 3cr.
- TEAL7800 - Advanced Review of Research in Social Studies - 3cr.

AND

Cultural Studies Elective Courses (9 credits)

Earn at least 9 credits from the following:

- TEAL6710 - Diversity in Education - 3cr.
- TEAL7820 - Seminar: Special Topics in Teacher Education and Leadership - 1cr.
- TEAL7830 - Queer and Transgender Studies in Education - 3cr.
- TEAL6530 - Anthropology of Education - 3cr.
- TEAL6755 - Family and Community Involvement for ELs - 3cr.
- TEAL7415 - History of Policy Change in US Schools - 3cr.

NOTE:

1. TEAL7820 ST: TEAL - **Register for 3 credits.** This is a special topics course that changes topics.

AND

Dissertation (12 credits)

Complete ALL of the following Courses:

- TEAL7970 - Dissertation Research in Curriculum and Instruction - 1cr.

NOTE:

TEAL7970 DISSERTATION RESEARCH IN C&I- Register for a total of 12 credits.

AND

Elective Credits (8 credits)

Students must also complete additional elective credits.
Recommended:

1. TEAL7415 HIST POLICY CHANGE US SCHOOLS - History of Policy and Change in US Schools (3)
2. TEAL7820 ST: TEAL - Diversity Issues in Instructional Leadership (3)
3. TEAL6560 SPECIAL TOPICS - Special Topics: Education in Refugee Populations – Jordan (3)
4. TEAL7900 INDEPENDENT STUDY/TEAL7910 INDEPENDENT RESEARCH (1-3 credits) (No more than 5 credits of TEAL7900 INDEPENDENT STUDY and TEAL7910 INDEPENDENT RESEARCH)
5. ITLS7545 SOCIO-CULTURAL LEARNING THEORY - Socio-Cultural Learning Theory (3)

   or ITLS7340 BUILD COMM PARTNER RESEARCH - Community Partnerships (3)

   or SOC6760 THEORY/RESEARCH IN INEQUALITY - Theory and Research in Social Inequality (3)

   or SOC6480 RACE AND ETHNICITY - Race and Ethnicity (3)

Recommended Research Courses:

1. EDUC6010 INTRO TO PROGRAM EVALUATION - Introduction to Program Evaluation (3 credits)
2. TEAL7545 RESEARCH FOR TEACHERS - Research for Teachers (3 credits)
3. TEAL7548 QUAL RESEARCH APPRENTICESHIP - Qualitative Research Apprenticeship (1 credit)
4. TEAL7549 AUTOETHNOGRAPHY - Autoethnography as Research Methodology (3 credits)
5. TEAL7675 DISCOURSE ANALYSIS - Discourse Analysis in Education (3 credits)
6. TEAL7324 ADVANCED LITERACY ASSESSMENT - Advanced Studies in Literacy Assessment and Intervention (3 credits)
7. SPED7700 SINGLE-SUBJECT RESEARCH - Single Subject Research Methods and Designs (3 credits)
8. ITLS7350 ETHNOGRAPHY - Ethnography (3 credits)

   See you Ph.D Advisor for guidance.

Mathematic Education and Leadership Concentration

Type
Completion Requirement

Mathematic Education

Fulfill ALL of the following requirements:

Core Courses (10 credits)

Complete ALL of the following Courses:

- TEAL7015 - Orientation to Educational Research - 1cr.
- TEAL7150 - Curriculum Theory - 3cr.
- TEAL7300 - Historical, Social, and Cultural Foundations of Education - 3cr.
- TEAL7310 - Teaching-Learning Foundations in Education - 3cr.

Recommended Course:
● TEAL7670 EDUCATION LITERATURE REVIEWS - Education Literature Reviews 3 credit(s)

AND

Required Research Methods Courses (9 credits)

Complete ALL of the following Courses:

- EDUC6570 - Introduction to Educational and Psychological Research - 3cr.
- EDUC6600 - Statistical Foundations - 3cr.

- EDUC6770 - Qualitative Research Methods - 3cr.

AND

Elective Research Methods Courses (3 credits)

Earn at least 3 credits from the following:

- EDUC6800 - Mixed Methods Research - 3cr.
- EDUC7610 - Regression Analysis - 3cr.
- TEAL7546 - Qualitative Data Analysis - 3cr.
- TEAL7547 - Thinking with Theory in Qualitative Research - 3cr.

AND

Additional Elective Research Methods Courses (3 credits)

Earn at least 3 credits from the following:

- EDUC6800 - Mixed Methods Research - 3cr.
- EDUC7610 - Regression Analysis - 3cr.
- TEAL7546 - Qualitative Data Analysis - 3cr.
- TEAL7547 - Thinking with Theory in Qualitative Research - 3cr.
- EDUC6010 - Introduction to Program Evaluation: Evaluation Models and Practical Guidelines - 3cr.
- TEAL7548 - Qualitative Research Apprenticeship - 1cr.

AND

Mathematics Education Required Courses (18 credits)

Earn at least 18 credits from the following:

- TEAL7551 - Mathematics Education Research Foundations - 3cr.
- TEAL7552 - Mathematics Education Learning Theory - 3cr.
- TEAL7553 - Mathematics Education Curriculum Content and Evaluation - 3cr.
- TEAL7554 - Mathematics Education Teacher Preparation and Pedagogy - 3cr.
- TEAL7555 - Mathematics Education Current Issues and Policy - 3cr.
- TEAL7556 - Mathematics Education Research Design and Assessment - 3cr.
- TEAL7557 - Advanced Research Design in Mathematics Education and Leadership - 3cr.

NOTE:

1. Work with your Ph.D. Advisor to determine which 18 credits to register for

AND

Dissertation (12 credits)

Complete ALL of the following Courses:

- TEAL7970 - Dissertation Research in Curriculum and Instruction - 1cr.

NOTE:

TEAL7970 DISSERTATION RESEARCH IN C&I- Register for a total of 12 credits.

AND

Elective Credits (5 credits)

Students must also complete additional elective credits.
Recommended:

1. Additional math or research courses are highly recommended.
2. **Recommended Research Courses:**
    1. EDUC6010 INTRO TO PROGRAM EVALUATION - Introduction to Program Evaluation (3 credits)
    2. TEAL7545 RESEARCH FOR TEACHERS - Research for Teachers (3 credits)
    3. TEAL7548 QUAL RESEARCH APPRENTICESHIP - Qualitative Research Apprenticeship (1 credit)
    4. TEAL7549 AUTOETHNOGRAPHY - Autoethnography as Research Methodology (3 credits)
    5. TEAL7675 DISCOURSE ANALYSIS - Discourse Analysis in Education (3 credits)
    6. TEAL7324 ADVANCED LITERACY ASSESSMENT - Advanced Studies in Literacy Assessment and Intervention (3 credits)
    7. SPED7700 SINGLE-SUBJECT RESEARCH - Single Subject Research Methods and Designs (3 credits)
    8. ITLS7350 ETHNOGRAPHY - Ethnography (3 credits)

    See your Ph.D. Advisor for guidance.

School Leadership Concentration

Type
Completion Requirement

School Leadership

Fulfill ALL of the following requirements:

Core Courses (10 credits)

Complete ALL of the following Courses:

- TEAL7015 - Orientation to Educational Research - 1cr.
- TEAL7150 - Curriculum Theory - 3cr.
- TEAL7300 - Historical, Social, and Cultural Foundations of Education - 3cr.
- TEAL7310 - Teaching-Learning Foundations in Education - 3cr.

Recommended:

1. TEAL7670 EDUCATION LITERATURE REVIEWS - Education Literature Reviews 3 credit(s)

AND

Required Research Methods Courses (9 credits)

Complete ALL of the following Courses:

- EDUC6570 - Introduction to Educational and

Psychological Research - 3cr.
- EDUC6600 - Statistical Foundations - 3cr.
- EDUC6770 - Qualitative Research Methods - 3cr.

AND

Elective Research Methods Courses (3 credits)

Earn at least 3 credits from the following:
- EDUC6800 - Mixed Methods Research - 3cr.
- EDUC7610 - Regression Analysis - 3cr.
- TEAL7546 - Qualitative Data Analysis - 3cr.
- TEAL7547 - Thinking with Theory in Qualitative Research - 3cr.

AND

Additional Elective Research Methods Courses (3 credits)

Earn at least 3 credits from the following:
- EDUC6800 - Mixed Methods Research - 3cr.
- EDUC7610 - Regression Analysis - 3cr.
- TEAL7546 - Qualitative Data Analysis - 3cr.
- TEAL7547 - Thinking with Theory in Qualitative Research - 3cr.
- EDUC6010 - Introduction to Program Evaluation: Evaluation Models and Practical Guidelines - 3cr.
- TEAL7548 - Qualitative Research Apprenticeship - 1cr.

AND

School Leadership Required Courses (12 credits)

Complete ALL of the following Courses:
- TEAL7050 - Theories of Instructional Supervision - 3cr.
- TEAL7060 - Assessment and Data Issues for Instructional Leaders - 3cr.
- TEAL7090 - Theories of Organizational Leadership in Education - 3cr.
- TEAL7325 - Instructional Leadership - 3cr.

AND

Dissertation (12 credits)

Complete ALL of the following Courses:
- TEAL7970 - Dissertation Research in Curriculum and Instruction - 1cr.

NOTE:

TEAL7970 DISSERTATION RESEARCH IN C&I- Register for a total of 12 credits.

AND

Elective Credits (11 credits)

Students must also complete additional elective credits.
Recommended:

1. EDUC6010 INTRO TO PROGRAM EVALUATION - Introduction to Program Evaluation (3 credits)
2. TEAL7545 RESEARCH FOR TEACHERS - Research for Teachers (3 credits)
3. TEAL7548 QUAL RESEARCH APPRENTICESHIP - Qualitative Research Apprenticeship (1 credit)
4. TEAL7549 AUTOETHNOGRAPHY - Autoethnography as Research Methodology (3 credits)
5. TEAL7675 DISCOURSE ANALYSIS - Discourse Analysis in Education (3 credits)
6. TEAL7324 ADVANCED LITERACY ASSESSMENT - Advanced Studies in Literacy Assessment and Intervention (3 credits)
7. SPED7700 SINGLE-SUBJECT RESEARCH - Single Subject Research Methods and Designs (3 credits)
8. ITLS7350 ETHNOGRAPHY - Ethnography (3 credits)

See you Ph.D Advisor for guidance.

Program Learning Outcomes

Program Learning Outcomes

https://cehs.usu.edu/teal/assessment/doctoral-aaa

Environmental Geoscience - BA, BS

Program Overview

College
College of Agriculture & Natural Resources

Department
Geosciences

Program Level
Undergraduate

About this Degree

Students pursuing this degree will obtain a core understanding of physical and historical geology, earth materials, and geomorphology. In addition, there are multiple added skills and knowledge sets that build usefully upon this core in Geology, as well as in Biology, Chemistry, and Mathematics and/or Statistics. The degree also allows flexibility for students to tailor their course work plan and specializations toward their interests, as the series of elective and required elective courses is intentionally broad and includes courses offered by the Plants, Soils and Climate, Watershed Sciences, and Environment and Society Departments.

Program Requirements

Total Credits Required In Program Coursework
80

Total Credits Required To Earn This Credential
120

Simple Requisites

Program Requirements

Required Core Courses

Type
Completion Requirement

Required Core Courses (60-62 credits)

Complete ALL of the following Courses:

- GEO1060 - Introduction to Environmental Geoscience (BPS) - 3cr.
- GEO1115 - Physical Geology Laboratory - 1cr.
- GEO2200 - The Earth Through Time - 3cr.
- GEO2205 - Earth Through Time Laboratory - 1cr.
- GEO2800 - Minerals and Rocks - 4cr.
- GEO3400 - Communicating Geoscience (CI/DSC) - 3cr.
- GEO3550 - Sedimentation and Stratigraphy - 4cr.
- GEO3600 - Geomorphology - 4cr.
- GEO3800 - Applied Geoscience Techniques - 3cr.
- GEO3900 - Geologic Field Methods (CI) - 3cr.
- GEOG2800 - Introduction to Geographic Information Sciences - 4cr.
- BIOL1610 - Biology I - 3cr.
- BIOL1615 - Biology I Laboratory - 1cr.
- BIOL1620 - Biology II (BLS) - 3cr.
- BIOL1625 - Biology II Laboratory - 1cr.
- BIOL2220 - General Ecology - 3cr.
- CHEM1210 - Principles of Chemistry I - 4cr.
- CHEM1215 - Chemical Principles Laboratory I - 1cr.
- CHEM1220 - Principles of Chemistry II (BPS) - 4cr.
- CHEM1225 - Chemical Principles Laboratory II - 1cr.
- MATH1100 - Calculus Techniques (QL) - 3cr.
  OR MATH1210 - Calculus I (QL) - 4cr.
- STAT2000 - Statistical Methods (QI) - 4cr.
  OR STAT3000 - Statistics for Scientists (QI) - 3cr.
  OR STAT3080 - Data Science for Scientists - 3cr.

Required Elective Courses

Type
Completion Requirement

Required Elective Courses (10-12 credits)

Complete ALL of the following Courses:

- GEO5600 - Geochemistry - 4cr.
  OR CHEM3650 - Environmental Chemistry (DSC) - 3cr.
- PSC3000 - Fundamentals of Soil Science - 4cr.
  OR WATS3700 - Fundamentals of Watershed Science (CI) - 3cr.
- PSC5130 - Soil Genesis, Morphology, and Classification - 4cr.
  OR WATS5490 - Small Watershed Hydrology (QI) - 4cr.

Additional Required Elective Courses

Type
Completion Requirement

Additional Required Elective Courses (5 credits)

Earn at least 5 credits from the following:

- GEO5210 - GeoProfessional Field Practicum - 3cr.
- GEO5520 - Techniques of Groundwater Investigations (CI) - 3cr.
- GEO5630 - Remote Sensing for Geoscientists - 3cr.
- ENVS5300 - Natural Resources Law and Policy - 2cr.
- ENVS5550 - Sustainability: Concepts and Measurement - 3cr.
- PSC5000 - Environmental Instrumentation - 2cr.
- PSC5500 - Environmental Physics of Land Ecosystems & Climate - 3cr.
- PSC5740 - Environmental Quality: Soil and Water (CI) - 2cr.
- WATS4300 - Principles of Ecosystem Restoration - 3cr.
- WATS5350 - Capstone and Professional Practice - 2cr.

Elective Courses

Type
Completion Requirement

Elective Courses (5 credits)

Earn at least 5 credits from the following:

- GEO5420 - Ore Deposits - 3cr.
- PSC4810 - Climate and Climate Change (DSC)(QI) - 3cr.
- WATS5500 - Limnology: Ecology of Inland Waters - 3cr.
- WATS5530 - Water Quality and Pollution - 3cr.
- WATS5720 - Drone Data Analysis for Environmental Restoration - 2cr.

Open Electives

Complete the following as needed:
Total elective credit is determined by General Education courses taken, degree type selected, additional credits earned, and any additional math or other prerequisite courses needed. Please consult your Academic Advisor for details.

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Bachelor's Degree)

Suggested Degree Maps

Degree Map Name
Suggested Degree Map - Environmental Geoscience - BA, BS
Total Degree Map Credits
105 - 122
Degree Map Effective Catalog Year
2027 -

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	16	0

Requirement Select
- GEO1060 - Introduction to Environmental Geoscience (BPS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- GEO1115 - Physical Geology Laboratory

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- CHEM1210 - Principles of Chemistry I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- CHEM1215 - Chemical Principles Laboratory I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- MATH1100 - Calculus Techniques (QL)
  OR
- MATH1210 - Calculus I (QL)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	3 - 4
Clinical	-
Criticality	No

Requirement Select
- ENGL1010 - Writing as Inquiry (CL1)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	15 - 16	0

Requirement Select
- GEO2200 - The Earth Through Time

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- GEO2205 - Earth Through Time Laboratory

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- CHEM1220 - Principles of Chemistry II (BPS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- CHEM1225 - Chemical Principles Laboratory II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- STAT2000 - Statistical Methods (QI)

  OR
- STAT3000 - Statistics for Scientists (QI)

  OR
- STAT3080 - Data Science for Scientists

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 4
Progress Credits	-
Contact Hours	3 - 4
Clinical	-
Criticality	No

Requirement Select
- ENGL2020 - Professional Communication (CL2)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	14	0

Requirement Select
- GEOG2800 - Introduction to Geographic Information Sciences

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- BIOL1610 - Biology I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- BIOL1615 - Biology I Laboratory

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- Breadth American Institutions (BAI) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Breadth Creative Arts (BCA) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	14	3

Requirement Select
- GEO2800 - Minerals and Rocks

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- BIOL1620 - Biology II (BLS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	3
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- BIOL1625 - Biology II Laboratory

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- BIOL2220 - General Ecology

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Breadth Humanities (BHU) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Fall	16 - 18	0

Requirement Select
- GEO3550 - Sedimentation and Stratigraphy

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- GEO3600 - Geomorphology

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- GEO3800 - Applied Geoscience Techniques

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- CHEM3650 - Environmental Chemistry (DSC)
  OR
- GEO5600 - Geochemistry

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 4
Progress Credits	-
Contact Hours	3 - 4
Clinical	-
Criticality	No

Requirement Select

- GEO5210 - GeoProfessional Field Practicum
  OR
- GEO5520 - Techniques of Groundwater Investigations (CI)
  OR
- GEO5630 - Remote Sensing for Geoscientists
  OR
- ENVS5300 - Natural Resources Law and Policy
  OR
- ENVS5550 - Sustainability: Concepts and Measurement
  OR
- PSC5000 - Environmental Instrumentation
  OR
- PSC5500 - Environmental Physics of Land Ecosystems & Climate
  OR
- PSC5740 - Environmental Quality: Soil and Water (CI)
  OR
- WATS4300 - Principles of Ecosystem Restoration
  OR
- WATS5350 - Capstone and Professional Practice

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2 - 3
Progress Credits	-
Contact Hours	2 - 3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Spring	13 - 18	0

Requirement Select

- GEO3400 - Communicating Geoscience (CI/DSC)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- PSC3000 - Fundamentals of Soil Science
  OR
- WATS3700 - Fundamentals of Watershed Science (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 4
Progress Credits	-
Contact Hours	3 - 4
Clinical	-
Criticality	No

Requirement Select

- GEO5210 - GeoProfessional Field Practicum
  OR
- GEO5500 - Advanced Igneous Petrology
  OR
- GEO5630 - Remote Sensing for Geoscientists
  OR
- ENVS5300 - Natural Resources Law and Policy
  OR
- ENVS5550 - Sustainability: Concepts and Measurement
  OR
- PSC5000 - Environmental Instrumentation
  OR
- PSC5500 - Environmental Physics of Land Ecosystems & Climate
  OR
- PSC5740 - Environmental Quality: Soil and Water (CI)
  OR
- WATS4300 - Principles of Ecosystem Restoration
  OR
- WATS5350 - Capstone and Professional Practice

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2 - 4
Progress Credits	-
Contact Hours	2 - 4
Clinical	-
Criticality	No

Requirement Select

- GEO5420 - Ore Deposits
  OR
- PSC4810 - Climate and Climate Change (DSC)(QI)
  OR
- WATS5500 - Limnology: Ecology of Inland Waters
  OR
- WATS5530 - Water Quality and Pollution
  OR
- WATS5720 - Drone Data Analysis for Environmental Restoration

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2 - 3
Progress Credits	-
Contact Hours	2 - 3
Clinical	-
Criticality	No

Requirement Select

- Breadth Social Sciences (BSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Fall	9 - 12	0

Requirement Select

- GEO3900 - Geologic Field Methods (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- GEO5510 - Groundwater Geology (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- GEO5210 - GeoProfessional Field Practicum
  OR
- GEO5520 - Techniques of Groundwater Investigations (CI)
  OR
- GEO5630 - Remote Sensing for Geoscientists
  OR
- ENVS5300 - Natural Resources Law and Policy
  OR
- ENVS5550 - Sustainability: Concepts and Measurement
  OR
- PSC5000 - Environmental Instrumentation
  OR
- PSC5500 - Environmental Physics of Land Ecosystems & Climate
  OR
- PSC5740 - Environmental Quality: Soil and Water (CI)
  OR
- WATS4300 - Principles of Ecosystem Restoration
  OR
- WATS5350 - Capstone and Professional Practice

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2 - 3
Progress Credits	-
Contact Hours	2 - 3
Clinical	-
Criticality	No

Requirement Select

- Depth Humanities and Creative Arts (DHA) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1 - 3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Spring	8 - 14	0

Requirement Select

- WATS4490 - Small Watershed Hydrology (QI)
  OR
- PSC5130 - Soil Genesis, Morphology, and Classification

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- GEO5210 - GeoProfessional Field Practicum
  OR
- GEO5520 - Techniques of Groundwater Investigations (CI)
  OR
- GEO5630 - Remote Sensing for Geoscientists
  OR
- ENVS5300 - Natural Resources Law and Policy
  OR
- ENVS5550 - Sustainability: Concepts and Measurement
  OR
- PSC5000 - Environmental Instrumentation
  OR
- PSC5500 - Environmental Physics of Land Ecosystems & Climate
  OR
- PSC5740 - Environmental Quality: Soil and Water (CI)
  OR
- WATS4300 - Principles of Ecosystem Restoration
  OR
- WATS5350 - Capstone and Professional Practice

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2 - 3
Progress Credits	-
Contact Hours	2 - 3
Clinical	-
Criticality	No

Requirement Select

- GEO5420 - Ore Deposits
  OR
- PSC4810 - Climate and Climate Change (DSC)(QI)
  OR
- WATS4530 - Water Quality and Pollution
  OR
- WATS5500 - Limnology: Ecology of Inland Waters
  OR
- WATS5720 - Drone Data Analysis for Environmental Restoration

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2 - 3
Progress Credits	-
Contact Hours	2 - 3
Clinical	-
Criticality	No

Requirement Select
- Depth Social Sciences (DSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	0 - 4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Program Learning Outcomes

Program Learning Outcomes

1) Science fundamentals: Apply principles from geology, biology, ecology, chemistry and mathematics to understand Earth's diverse environments as interrelated systems.

2) Experiment: Apply field, lab and data-driven observations and quantitative approaches to interpret environments and processes within the Earth's critical zone and hydrologic systems.

3) Connect: Analyze and interpret general patterns in Earth's systems using geological records and recognize the natural and anthropogenic drivers of Earths' systems, including global climate change.

4) Communicate: Develop skills to communicate environmental geoscience concepts to a wide range of audiences through written, oral and graphical representation.

5) Teamwork: Collaborate with peers to characterize and address environmental problems using scientific expertise and input from stakeholders.

6) Ethics: Recognize ethical responsibilities in professional setting and make informed judgments that consider the impact of environmental solutions.

Environmental Geosciences - Certificate

Program Overview

College
College of Agriculture & Natural Resources

Department
Geosciences

Program Level
Undergraduate

About this Degree

The Environmental Geosciences - Certificate is an option that allows undergraduate students to obtain employable skills without having to complete an entire bachelor's degree program. To be proficient in environmental geosciences, students need a core understanding of physical and environmental geology, applied geoscience techniques, Earth materials, and Earth surface processes. In addition, there are multiple added skills and knowledge sets that build usefully upon this core in Geology. The series of elective courses is intentionally broad, including courses offered by the Environment & Society, Plants, Soils and Climate, and Watershed Sciences Departments.

Program Requirements

Total Credits Required In Program Coursework
20

Total Credits Required To Earn This Credential
20

Simple Requisites

Program Requirements

Required Courses (11 credits)

Type
Completion Requirement

Required Courses

Complete ALL of the following Courses:
- GEO1060 - Introduction to Environmental Geoscience (BPS) - 3cr.
- GEO1115 - Physical Geology Laboratory - 1cr.
- GEO3800 - Applied Geoscience Techniques - 3cr.
- GEO2800 - Minerals and Rocks - 4cr.
  OR GEO3600 - Geomorphology - 4cr.

Elective Courses (9 credits)

Type
Completion Requirement

Elective Credits

Earn at least 9 credits from the following:
- GEO2800 - Minerals and Rocks - 4cr.
- GEO3600 - Geomorphology - 4cr.
- GEO5510 - Groundwater Geology (QI) - 3cr.
- GEO5600 - Geochemistry - 4cr.
- GEOG2800 - Introduction to Geographic Information Sciences - 4cr.
- PSC4810 - Climate and Climate Change (DSC)(QI) - 3cr.
- PSC5130 - Soil Genesis, Morphology, and Classification - 4cr.
- WATS5530 - Water Quality and Pollution - 3cr.
- WATS5490 - Small Watershed Hydrology (QI) - 4cr.

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Undergraduate Academic or Technical Certificates)

Program Learning Outcomes

Program Learning Outcomes

Science Fundamentals: Apply principles from geology, biology, ecology, chemistry and mathematics to understand Earths' diverse environments as interrelated systems.

Experiment: Apply field, lab and data-driven observations and quantitative approaches to interpret environments and processes within the Earth's critical zone and hydrologic systems.

Connect: Analyze and interpret general patterns in Earth's systems using geological records and recognize the natural and anthropogenic drivers of Earth's systems, including global climate change.

Communicate: Develop skills to communicate environmental geoscience concepts to a wide range of audiences through written, oral and graphical representation.

Teamwork: Collaborate with peers to characterize and address environmental problems using scientific expertise and input from stakeholders.

Ethics: Recognize ethical responsibilities in professional setting and make informed judgments that consider the impact of environmental solutions.

Elementary Education - AS

Program Overview

College
College of Education & Human Services

Department
School of Teacher Education & Leadership

Program Level
Undergraduate

About this Degree

An Associate of Science (AS) degree in Elementary Education prepares a student interested in a career in education to obtain a degree as they determine the role that best suits their career goals.

This degree can stack into a BA or BS in a chosen teaching major (e.g. Elementary Education or Early Childhood education), transfer into another major, or allow movement into the workforce. The future BA or BS degree leads to a recommendation for Professional License from the Utah State Board of Education to teach in the grade-level or content of the chosen degree.

For more information about this degree, visit our AS in Elementary Education website.

Admission Requirements for this Program

Students will need to hold a high school diploma. This is the usual minimum requirement for being hired by a school district as a paraprofessional, which is the audience in which most of the recruiting will occur.

Program Requirements

Total Credits Required In Program Coursework
46-48

Total Credits Required To Earn This Credential
60

Simple Requisites

Program Requirements

A GPA of 3.0 is required in major courses. Program requirements may not be taken for a pass/fail grade, except for those courses that are only taught pass/fail. Students in this major must receive a grade of C+ or better in **both** Communications Literacy (CL1) and Communications Literacy (CL2) general education requirements.

Program Requirements

Type
Completion Requirement

Required Courses (20 credits)

Unless otherwise noted, these courses require a grade of B- or better.

Complete ALL of the following Courses:

- ELED1010 - Orientation to Elementary Education - 3cr.
  OR TEAL1010 - Introduction to Education - 3cr.
- HDFS1500 - Human Development Across the Lifespan (BSS) - 3cr.
  OR PSY1100 - Lifespan Development - 3cr.
- TEAL2660 - Educational Psychology for Teachers - 2cr.
- ENGL1010 - Writing as Inquiry (CL1) - 3cr.
- ENGL2010 - Research and Argument Across Perspectives (CL2) - 3cr.
  OR ENGL2020 - Professional Communication (CL2) - 3cr.
- ELED2620 - Early Childhood Education Kindergarten Through Grade 3 - 3cr.
- ITLS2500 - Technology Enabled Instruction - 3cr.

NOTE:

1. HDFS1500 HUMAN DEV LIFESPAN (BSS) or PSY1100 LIFESPAN DEVELOPMENT- Minimum grade of C or higher.
2. ENGL1010 WRITING AS INQUIRY (CL1) - Minimum grade of C+ or higher.
3. ENGL2010 RSRCH&ARGUMENT PRSPCTVES (CL2) or ENGL2020 PROFESSNL COMMUNICATION (CL2) - Minimum grade of C+ or higher.

Mathematics Requirements

Type
Completion Requirement

Required Mathematics Courses (9-10 credits)

Fulfill ALL of the following requirements:

Math Requirement One (3-4 credits)

A grade of C- or better is required in one of the following courses.

Complete at least 1 course in the following course sets:

- Quantitative Literacy (QL) Course

AND

Math Requirement Two (6 credits)

A grade of C or better is required in the following courses.

Complete ALL of the following Courses:

- MATH2010 - Algebraic Thinking & Number Sense for Elementary Education School Teachers (QI) - 3cr.
- MATH2020 - Euclidean Geometry & Statistics for Elementary Education School Teachers (QI) - 3cr.

Electives

Type
Completion Requirement

Elective Credit (14-15 Credits)

Earn at least 14 credits from the following:

- SPED1010 - Disability and Society (BSS) - 3cr.
- ENGL1410 - Elements of Grammar - 3cr.
- ENGL2060 - Reading Across Borders (BHU) - 3cr.
- ENGL2200 - Understanding Literature (BHU) - 3cr.
- ENGL2330 - Introduction to Children's Literature (BHU) - 3cr.
- ENGL2340 - Navajo Literature and Philosophy - 3cr.
- PSY1010 - General Psychology (BSS) - 3cr.
- PSY1100 - Lifespan Development - 3cr.
- PSY2100 - Developmental Psychology: Adolescence - 3cr.
- HDFS2660 - Parenting and Child Guidance - 3cr.
- LING2100 - Languages in Global and Historical Context (BSS) - 3cr.
- SHS2600 - Introduction to Communication Disorders - 3cr.
- USU1010 - University Connections - 2cr.
- USU1020 - Personal Productivity - 1cr.
- USU1030 - Resilience - 1cr.
- USU1040 - Learning Techniques - 1cr.
- USU1050 - Navigating College: Aggie First Scholars - 1cr.
- USU1060 - Reading College Texts - 1cr.
- USU1070 - Growth Mindset in STEM - 1cr.
- USU1150 - Leadership Development of First-generation College Students - 1cr.
- USU1340 - Social Systems and Issues (BSS) - 3cr.
- USU2170 - Community Voices and Engagement - 1cr.
- USU1120 - Habits for Academic Success - 3cr.

Other Electives may be used with approval.

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Associate Degrees)

Suggested Degree Maps

Degree Map Name
Suggested 2-Year Degree Map: Elementary Education - AS
Total Degree Map Credits
58 - 63
Degree Map Effective Catalog Year
2027 -

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	15 - 17	0

Requirement Select

- Breadth American Institutions (BAI) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Breadth Creative Arts (BCA) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Breadth Physical Sciences (BPS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Communications Literacy (CL1) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Electives (3 Credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	14 - 16	0

Requirement Select
- Quantitative Literacy (QL) Course
  OR
- An ACT Score of 26 or Higher (Generic)
  OR
- A RSAT Score of 610 or Higher (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Breadth Humanities (BHU) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Communications Literacy (CL2) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- ELED1010 - Orientation to Elementary Education
  OR
- TEAL1010 - Introduction to Education

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Electives (2-3 Credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2 - 3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	15	0

Requirement Select
- Breadth Life Sciences (BLS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- HDFS1500 - Human Development Across the Lifespan (BSS)
  OR
- PSY1100 - Lifespan Development

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- TEAL2660 - Educational Psychology for Teachers

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select
- MATH2010 - Algebraic Thinking & Number Sense for Elementary Education School Teachers (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Electives (4 Credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	14 - 15	0

Requirement Select
- ITLS2500 - Technology Enabled Instruction

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- ELED2620 - Early Childhood Education Kindergarten Through Grade 3

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- MATH2020 - Euclidean Geometry & Statistics for Elementary Education School Teachers (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Electives (5-6) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	5 - 6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Elementary Education - BA, BS

Program Overview

College	Department	Program Level
College of Education & Human Services	School of Teacher Education & Leadership	Undergraduate

About this Degree

A degree in Elementary Education prepares a student to receive a Professional License from the Utah State Board of Education to teach in grades K-6. Utah State's program in elementary education is unique in that students have the opportunity to be in the classroom starting their first year in the program rather than waiting until their junior year, which is typical at other universities. By the time students graduate, they will have spent more than 400 hours in the classroom or working with children through a variety of field experiences.

The major in elementary education is particularly well suited to students transferring with an associate's degree because the curriculum is designed so students can easily transition into the program and finish on time.

- For more information about Elementary Education, see the website.
- Admitted and current students must meet with an advisor (435-797-0391).
- Log on to Degree Works to check student-specific program progress.
- The highest math requirement for this degree is MATH2020 GEOMETRY/STAT ELED TEACH(QI).

Bachelor of Arts Degree Requirement

In addition to completion of the requirements for a bachelor's degree, a Bachelor of Arts (BA) degree signifies proficiency in one or more foreign languages. Please see Minimum University Requirements (Bachelor's Degree) for more information about the language requirements.

Admission Requirements for this Program

- New freshmen must be admitted to USU in Good Standing.
- Transfer students from other institutions or other programs at USU must have a 2.0 overall GPA.

Program Requirements

Total Credits Required In Program Coursework	Total Credits Required To Earn This Credential
84	120

Simple Requisites

Program Requirements

A GPA of 3.0 is required in major courses. Program requirements may not be taken for a pass/fail grade, except for those courses that are only taught pass/fail. Students in this major must receive a grade of C+ or better in **both** Communications Literacy 1 (CL1) and Communications Literacy 2 (CL2).

Preparation Courses

Type
Completion Requirement

Required Courses (15 credits)

Unless otherwise noted, these courses require a grade of B- or better.

Complete ALL of the following Courses:

- ELED1010 - Orientation to Elementary Education - 3cr. **OR** TEAL1010 - Introduction to Education - 3cr.
- ELED2620 - Early Childhood Education Kindergarten Through Grade 3 - 3cr.
- HDFS1500 - Human Development Across the Lifespan (BSS) - 3cr.
- TEAL2660 - Educational Psychology for Teachers - 2cr.
- ITLS2500 - Technology Enabled Instruction - 3cr.

NOTE:

1. HDFS1500 HUMAN DEV LIFESPAN (BSS) - Minimum grade of C or higher.

Mathematic Requirement (9-11 credits)

Type
Completion Requirement

QL Mathematic Requirement (3-5 Credits)

Quantitative Literacy (QL) requires a grade of **C-** or better.

Complete ALL of the following Course Sets:

- Quantitative Literacy (QL) Course

Mathematic Requirement (6 Credits)

MATH2010 ALG/NUMER FOR ELED TEACH (QI) and MATH2020 GEOMETRY/STAT ELED TEACH(QI) require a grade of **C** or better.

Complete ALL of the following Courses:

- MATH2010 - Algebraic Thinking & Number Sense for Elementary Education School Teachers (QI) - 3cr.
- MATH2020 - Euclidean Geometry & Statistics for Elementary Education School Teachers (QI) - 3cr.

Arts Methods

Type
Completion Requirement

Art Requirement (3 Credits)

A grade of B- or better is required for any Arts Methods course.

Complete at least 1 of the following courses:

- ART3700 - Elementary Art Methods - 3cr.
- MUSC3260 - Elementary School Music - 3cr.
- THEA3320 - Movement Exploration for Elementary Education Majors - 3cr.
- THEA3330 - Drama for Classroom Teachers - 3cr.
- THEA3340 - Methods of Teaching Drama, Grades K-6 - 3cr.

Foundations Block

Type
Completion Requirement

Level II (12 Credits)

A grade of B- or better is required for all Level II courses.

Complete ALL of the following Courses:

- ELED3000 - Historical, Social, and Cultural Foundations of Education (CI) - 3cr.
- ELED3002 - Foundations Practicum - 1cr.
- ELED3050 - PE and Health in the Elementary Classroom - 2cr.
- ELED3100 - Classroom Reading Instruction - 3cr.
- ELED4061 - Teaching Elementary School Mathematics I: Rational Numbers, Operations, and Proportional Reasoning - 3cr.

NOTE:

1. ELED3000 HIST/SOC/CULTR FOUND EDUC (CI), ELED3002 FOUNDATIONS PRACTICUM, and ELED3100 CLASSROOM READING INSTRUCTION **must be taken together.**

Literacy Block

Type
Completion Requirement

Level II B&C (16 Credits)

A grade of B- or better is required for all Level II B&C courses.

Complete ALL of the following Courses:

- ELED4040 - Reading Assessment and Intervention (CI) - 2cr.
- ELED4042 - Reading Assessment and Intervention Practicum - 1cr.
- ELED4049 - Foundations of Reading Review - 1cr.
- ELED4150 - Assessment and Differentiation Across the Curriculum - 3cr.
- SPED4000 - Education of Students with Disabilities - 3cr.
- TEAL3080 - Integrating Arts into Academic Learning (DHA) - 3cr.
- TEAL5710 - Instruction for Linguistically and Culturally Diverse Learners - 3cr.

NOTE:

1. ELED4040 READ ASSESS AND INTERVENT (CI), ELED4042 READ ASSESS INTERVENT PRACT and ELED4049 FOUNDATIONS OF READING REVIEW **must be taken together.**
2. SPED4000 EDUCATION STUD W/DISABILITIES - Students are strongly encouraged to take this course with ELED4150 ASSESSMENT AND DIFFERENTIATION and ELED4040 READ ASSESS AND INTERVENT (CI).
3. TEAL3080 INTEGRATING ARTS INTO ACA(DHA) - Students are strongly encouraged to take this course with ELED4040 READ ASSESS AND INTERVENT (CI) and ELED4042 READ ASSESS INTERVENT PRACT.

Content Pedagogy Block

Type
Completion Requirement

Level III (15 Credits)

A grade of B- or better is required for all Level III courses.

Complete ALL of the following Courses:

- ELED5020 - Teaching Science in Elementary School - 2cr.
- ELED5030 - Teaching Language Arts (CI) - 2cr.
- ELED5010 - Teaching Social Studies in Elementary School - 2cr.
- ELED5040 - Teaching Elementary School Mathematics II: Number, Operations, and Algebraic Reasoning - 2cr.
- ELED5060 - Elementary Content Practicum - 4cr.
- ELED5105 - Motivation and Classroom Management - 3cr.

NOTE:

1. ELED5020 TEACHING SCIENCE ELEM, ELED5030 TEACHING LANG ARTS (CI), ELED5010 TEACHING SOC STUDIES ELEM, ELED5040 TEACHING ELEMENTARY MATH II, ELED5060 ELEM CONTENT PRACTICUM and ELED5105 MOTIVATION CLASSROOM MANAGE **must be taken together.**

Student Teaching

Type
Completion Requirement

Program Requirement (12 Credits)

Complete ALL of the following Courses:

- ELED5150 - Student Teaching: Elementary - 3cr.
- ELED5250 - Elementary Education Student Teaching Seminar - 3cr.

NOTE:

1. ELED5150 STUDENT TEACHING: ELEMENTARY - Register for 9 credits.
2. ELED5250 ELED STUDENT TEACHING SEMINAR - Register for 3 credits.

Open Electives

Type
Completion Requirement

Electives

Complete the following as needed:
Sufficient credits of electives to meet 120 total credits for graduation (usually 15). All courses must have a grade of C- or P or better. Please see advisor for details.

Additional Comments:

Licensure Notification

This program typically leads to licensure and was designed to meet licensing qualifications in the state of Utah. If students wish to work in another state within the United States, they should review the qualifications for that state and the Education Licensure Compliance Table provided by School of Teacher Education and Leadership.

For more information, please contact the School of Teacher Education and Leadership at https://cehs.usu.edu/teal/.

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Bachelor's Degree)

Suggested Degree Maps

Degree Map Name
Suggested Degree Map - Elementary Education BA, BS
Total Degree Map Credits
118 - 122
Degree Map Effective Catalog Year
2027 -

Degree Map Narrative

- Following is a sample four-year plan. Please note that student-specific plans may differ.
- Meet with an academic advisor to create a specific plan that best fits your academic needs.
- The student is ultimately responsible for knowing and completing all degree requirements.
- Make sure you meet the registration requirements for each class by clicking the course link and checking any prerequisites or corequisites.
- Consultation with an advisor may result in an altered plan customized for an individual student.
- Check your Degree Works for requirements and completion.

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	15 - 18	0

Requirement Select

- Students must receive a grade of C+ or better in either CL1 or CL2 to fulfill major requirements. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- HDFS1500 - Human Development Across the Lifespan (BSS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Communications Literacy (CL1) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	C+
Area	-
Actual Credits	3 - 4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- ELED1010 - Orientation to Elementary Education
  OR
- TEAL1010 - Introduction to Education

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Quantitative Literacy (QL) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 5
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Breadth American Institutions (BAI) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	14 - 15	0

Requirement Select

- PHYS 1200 is recommended for the Breadth Physical Sciences (BPS) Course. Students must receive a grade of C+ or better in either CL1 or CL2 to fulfill major requirements. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Communications Literacy (CL2) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	C+
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- MATH2010 - Algebraic Thinking & Number Sense for Elementary Education School Teachers (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- TEAL2660 - Educational Psychology for Teachers

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select

- Breadth Creative Arts (BCA) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Breadth Physical Sciences (BPS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	15	0

Requirement Select

- See advisor for options for elective courses. Students may wish to delay taking electives so they can take advantage of enrolling in more advanced endorsement courses later (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- ELED2620 - Early Childhood Education Kindergarten Through Grade 3

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- MATH2020 - Euclidean Geometry & Statistics for Elementary Education School Teachers (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Breadth Humanities (BHU) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Breadth Life Sciences (BLS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Elective (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	15	0

Requirement Select

- See advisor for options. Students may wish to delay taking Professional Anchor courses so they can take advantage of enrolling in more advanced endorsement courses later. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- ITLS2500 - Technology Enabled Instruction

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Arts Methods Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Fall	15	0

Requirement Select
- ELED3000 - Historical, Social, and Cultural Foundations of Education (CI)
- **AND** ELED3002 - Foundations Practicum
- **AND** ELED3100 - Classroom Reading Instruction

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	7
Progress Credits	-
Contact Hours	7
Clinical	-
Criticality	No

Requirement Select
- ELED3050 - PE and Health in the Elementary Classroom

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select
- ELED4061 - Teaching Elementary School Mathematics I: Rational Numbers, Operations, and Proportional Reasoning

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Depth Life and Physical Sciences (DSC) Course
  OR
- Depth Social Sciences (DSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Spring	16	0

Requirement Select

- ELED 4040, ELED 4042 and ELED 4049 must be taken together. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- ELED4040 - Reading Assessment and Intervention (CI)
- **AND** ELED4042 - Reading Assessment and Intervention Practicum
- **AND** ELED4049 - Foundations of Reading Review

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- ELED4150 - Assessment and Differentiation Across the Curriculum

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- SPED4000 - Education of Students with Disabilities

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- TEAL3080 - Integrating Arts into Academic Learning (DHA)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- TEAL5710 - Instruction for Linguistically and Culturally Diverse Learners

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Fall	15	0

Requirement Select

- ELED5010 - Teaching Social Studies in Elementary School

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select

- ELED5020 - Teaching Science in Elementary School

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select

- ELED5030 - Teaching Language Arts (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select

- ELED5040 - Teaching Elementary School Mathematics II: Number, Operations, and Algebraic Reasoning

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select

- ELED5060 - Elementary Content Practicum

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- ELED5105 - Motivation and Classroom Management

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Spring	13	0

Requirement Select

- Register for 9 credits of ELED 5150. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- ELED5150 - Student Teaching: Elementary

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	9
Progress Credits	-
Contact Hours	3 - 9
Clinical	-
Criticality	No

Requirement Select

- ELED5250 - Elementary Education Student Teaching Seminar

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Program Learning Outcomes

Program Learning Outcomes
https://cehs.usu.edu/teal/assessment/undergrad-aaa

Electrical Engineering - Minor

Program Overview

College
College of Engineering

Department
Electrical & Computer Engineering

Program Level
Undergraduate

Program Requirements

Total Credits Required In Program Coursework
17-19

Total Credits Required To Earn This Credential
17-19

Simple Requisites

Program Requirements

Requirements for a minor in Electrical Engineering (EE) are listed below. General requirements are:

- Students may declare the minor at any time.
- Students must maintain a GPA of 3.0 in their minor coursework.
- No course with an earned grade less than C- may be applied to the minor.
- Before taking 3000-level and above elective courses, students must:
  - complete minor required courses, AND
  - complete at least 30 credits in their declared major with a minimum GPA of 3.0
- No more than one repeat is allowed in the minor. Audits are counted as a repeat.
- Courses for the minor may not be taken on a pass/fail basis.

Section 1

Type
Completion Requirement

Required Courses (11 credits)

Complete ALL of the following Courses:
- ECE1400 - Computer Programming for Electrical and Computer Engineers I - 4cr.
  OR ECE1410 - Computer Programming for Electrical and Computer Engineers II - 3cr.
- ECE3620 - Continuous - Time Systems and Signals - 3cr.
  OR ECE3610 - Continuous and Discrete-Time Systems and Signals - 4cr.
- ECE3710 - Microcontroller Hardware and Software - 4cr.

Section 2

Type
Completion Requirement

Elective Courses (6-8 credits)

Two additional ECE classes must be selected from the following:

Complete at least 2 of the following courses:
- ECE2290 - Electrical Circuits II - 4cr.

- ECE2700 - Digital Circuits - 4cr.
- ECE3410 - Microelectronics I - 4cr.
- ECE3640 - Discrete - Time Systems and Signals - 3cr.
- ECE3700 - Digital System Design - 3cr.
- ECE3870 - Electromagnetics I - 4cr.
- ECE5120 - Introduction to Power Electronics - 3cr.
- ECE5230 - Spacecraft Systems Engineering - 3cr.
- ECE5250 - Photonics Laboratory - 3cr.
- ECE5235 - Space System Design - 3cr.
  OR MAE5530 - Space System Design - 3cr.
- ECE5310 - Control Systems - 4cr.
  OR MAE5310 - Control Systems - 4cr.
- ECE5320 - Mechatronics - 4cr.
  OR MAE5320 - Mechatronics - 4cr.
- ECE5330 - Small Unmanned Aircraft Systems - 3cr.
  OR MAE5330 - Small Unmanned Aircraft Systems - 3cr.
- ECE5235 - Space System Design - 3cr.
  OR MAE5340 - Introduction to Planning and Control for Mobile Robots - 3cr.
- ECE5345 - Introduction to the Robot Operating System (ROS) - 1cr.
- ECE5420 - Microelectronics II - 3cr.
- ECE5460 - VLSI Design Automation - 3cr.
- ECE5600 - Introduction to Computer Networks - 3cr.
- ECE5610 - Wireless Communication Networks - 3cr.
- ECE5630 - Digital Signal and Image Processing - 3cr.
- ECE5640 - Real-Time Processors - 4cr.
- ECE5660 - Communication Systems 1 - 3cr.
- ECE5720 - Computer Systems Programming and Architecture - 3cr.
- ECE5730 - Reconfigurable Computing - 3cr.
- ECE5750 - Computer Architecture - 3cr.
- ECE5780 - Embedded Real-Time Systems - 4cr.
- ECE5800 - Electromagnetics II - 3cr.
- ECE5810 - Microwave Circuits I - 3cr.
- ECE5850 - Antennas I - 3cr.
- ECE5930 - Special Topics in Electrical and Computer Engineering - 1cr.

Take ECE5930 ST: ELECTRICAL/COMPUTER ENGR for 3 credits

Program Learning Outcomes

Program Learning Outcomes

https://engineering.usu.edu/

Engineering - Electrical Engineering Specialization - ME

Program Overview

College
College of Engineering

Department
Electrical & Computer Engineering

Program Level
Graduate

About this Degree

The ME degree is based on coursework and is designed to give graduates a strong practical foundation. The degree is designed for students with a Bachelor of Science degree in Electrical or Computer Engineering who would like to increase their *technical depth* in engineering. To obtain the specialization in Electrical Engineering, at least nine credits of ECE coursework must be taken in the desired specialization.

Program Requirements

Total Credits Required In Program Coursework
30

Total Credits Required To Earn This Credential
30

Simple Requisites

Program Requirements

School of Graduate Studies Requirements

1. A bachelor's degree from an accredited U.S. college or university or a similarly recognized international university is required for admission to and completion of a graduate program.
2. Graduate students are required to maintain at least a 3.0 GPA for degree-program courses. Grades of C- or lower will not be accepted for a graduate degree.
3. The Program of Study for master's degree must include at least 18-semester credits at the level of 6000 or above.
4. A master's degree must be completed within six years of entering the program. Additional time may be requested by the student's committee and submitted to the Vice Provost of Graduate Studies for review.
5. Coursework over eight years old at the time of degree completion may not be used for a graduate degree unless it is revalidated.

Master of Engineering (Electrical Engineering)

- A minimum of 30 credits of technical and scientific coursework is required.
- At least one ECE depth course (having a graduate-level prerequisite) is required.
- At least 18 credits of ECE coursework must be completed at or above the 5000-level.
- No more than 12 credits of ECE 5000-level or non-ECE 5000-level courses may be applied towards the ME degree
- A maximum of 12 credits outside of the Electrical and Computer Engineering Department may be allowed based upon a comprehensive academic plan.
- School of Graduate Studies form:
  - Program of Study

- At least three credits of Professional Experience (ECE6250 GRAD INTERN/COOP) ***or*** substantial lab-intensive courses listed below) are required. Only three credits of ECE6250 GRAD INTERN/COOP are allowed.

Program Requirements

Type
Completion Requirement

Program Requirements

Complete at least 1 of the following courses:

- ECE5160 - Electric Vehicle Design Laboratory - 4cr.
- ECE5320 - Mechatronics - 4cr.
- ECE5330 - Small Unmanned Aircraft Systems - 3cr.
- ECE5420 - Microelectronics II - 3cr.
- ECE5640 - Real-Time Processors - 4cr.
- ECE5660 - Communication Systems 1 - 3cr.
- ECE5720 - Computer Systems Programming and Architecture - 3cr.
- ECE5730 - Reconfigurable Computing - 3cr.
- ECE5780 - Embedded Real-Time Systems - 4cr.
- ECE6160 - Electric Vehicle Design Laboratory - 4cr.
- ECE6250 - Graduate Internship/Coop - 1cr.
- ECE6730 - Reconfigurable Computing - 3cr.
- ECE6740 - Advanced Reconfigurable Computing - 3cr.
- ECE6780 - Embedded Real-Time Systems - 4cr.

Program Learning Outcomes

Program Learning Outcomes
https://engineering.usu.edu/

Electrical Engineering - BS

Program Overview

College
College of Engineering

Department
Electrical & Computer Engineering

Program Level
Undergraduate

About this Degree
Electrical engineers work with electronics, electricity, and electromagnetism, and electronic devices. Electrical engineering covers a broad range of application areas, including power generation and delivery, transportation (cars and airplanes), communication (radio, TV, wireless, telephones), robotics, computers (memory systems, displays, microprocessors), defense applications (navigation, radar, and secure communication), and consumer electronics (DVD and MP3 players). The Electrical Engineering BS degree program is accredited by the Engineering Accreditation Commission of ABET, http://www.abet.org, under the commission's General Criteria and the Program Criteria for Electrical Engineering and Similarly Named Programs.

- For more information about Electrical Engineering, see the Electrical and Computer Engineering department.
- Admitted and current students must meet with an advisor.
- Log on to Degree Works to check student-specific program progress.
- The highest math requirement for this degree is MATH5710 INTRO TO PROBABILITY

Admission Requirements for this Program

- **New Freshman and Transfer Students (from other institutions or other USU programs)**
    - Admitted to USU in Good Standing

  New Freshman:
    - 2.8 High School GPA or higher
    - 20 ACT or 1030 SAT or higher

Admission Requirements for the Pre-Professional Program:

- Completion of Engineering Foundations courses (listed below)
- MATH1210 CALCULUS I (QL), MATH 1220, CHEM 1210, CHEM 1215, PHYS 2210, PHYS 2215, ENGR 1010, ENGR 1400 completed with a C- or higher
- 2.8 or higher GPA in Engineering Foundations courses

Program Requirements

Total Credits Required In Program Coursework
102

Total Credits Required To Earn This Credential
120

Simple Requisites

Program Requirements

Electrical Engineering - BS Course Requirements

Type
Completion Requirement

Engineering Foundations Courses (25 credits)

- A Cumulative USU GPA of 2.8 or higher is required in Engineering Foundations courses.
- Engineering Foundations courses: Math 1210, Math 1220, ENGR 1010, ENGR 1400, PHYS 2210, PHYS 2215, CHEM 1210, CHEM 1215 require a grade of C- or higher.
- The P/D+, D, F grading option may not be used in required courses completed as part of Engineering Foundations program. (The P/D+, D, F grading option is approved for University Studies Courses.)

Complete ALL of the following Courses:

- ENGR1010 - Engineering Exploration - 3cr.
- ENGR1400 - Computer Programming for Engineers - 4cr.
- CHEM1210 - Principles of Chemistry I - 4cr.
- CHEM1215 - Chemical Principles Laboratory I - 1cr.
- MATH1210 - Calculus I (QL) - 4cr.
- MATH1220 - Calculus II (QL) - 4cr.
- PHYS2210 - Physics for Scientists and Engineers I (QI/BPS) - 4cr.
- PHYS2215 - Physics for Scientists and Engineers Lab I - 1cr.

Required for Admission to the Professional Program (30 credits)

- A Cumulative USU GPA of 2.8 or higher is required in pre-professional courses, NOT including ENGL2010 RSRCH&ARGUMENT PRSPCTVES (CL2) or ENGL2020 PROFESSNL COMMUNICATION (CL2)
- All courses require a grade of C- or higher.
- The P/D+, D, F grading option may not be used in required courses completed as part of Engineering Foundations or a pre-professional program. (The P/D+, D, F grading option is approved for University Studies Courses.)

Complete ALL of the following Courses:

- ECE1410 - Computer Programming for Electrical and Computer Engineers II - 3cr.
- ECE2250 - Electrical Circuits I - 3cr.
- ECE2290 - Electrical Circuits II - 4cr.
- ECE2700 - Digital Circuits - 4cr.
- ENGL2010 - Research and Argument Across Perspectives (CL2) - 3cr.
  OR ENGL2020 - Professional Communication (CL2) - 3cr.
- MATH2210 - Multivariable Calculus (QI) - 3cr.
- MATH2270 - Linear Algebra (QI) - 3cr.
- MATH2280 - Ordinary Differential Equations (QI) - 3cr.
- PHYS2220 - Physics for Scientists and Engineers II (BPS/QI) - 4cr.

Electrical Engineering Required Courses (27 credits)

For Electrical Engineering majors in the professional program the following academic regulations apply, in addition to University regulations:

1. A GPA of 2.0 or higher must be maintained in all upper-division engineering/math/science courses required for, or used as technical electives in, this major. Courses which were part of the pre-professional program requirements and University Studies courses are not included in this GPA calculation.
2. For Electrical Engineering, not more than 10 hours of D or D+ credit may be applied toward meeting graduation requirements in engineering/math/science classes.
3. College of Engineering courses may be repeated only once. Audits count as a time taking a class unless prior written approval is obtained from the department head. A maximum of three required or elective courses completed as part of a professional program can be repeated in order to meet graduation requirements. (Courses completed as part of a pre-professional program are not included in this total of three repeats.)
4. The P/D+, D, F grading option may not be used in required or elective courses completed as part of a professional program. (The P/D+, D, F grading option is approved for University Studies Courses.)

Complete ALL of the following Courses:

- ECE3410 - Microelectronics I - 4cr.
- ECE3610 - Continuous and Discrete-Time Systems and Signals - 4cr.
- ECE3710 - Microcontroller Hardware and Software - 4cr.
- ECE3810 - Engineering Professionalism - 1cr.
- ECE3870 - Electromagnetics I - 4cr.
- ECE4810 - Engineering Design and Communications 1 - 1cr.
- ECE4840 - Engineering Design II (CI) - 2cr.
- ECE4850 - Engineering Communications II (CI) - 1cr.
- ENGR3080 - Creativity and Communication in Design (CI) - 3cr.
- MATH5710 - Introduction to Probability - 3cr.

Electrical Engineering Elective Courses (24 credits)

A GPA of 2.0 or higher must be maintained in all upper-division engineering/math/science courses required for, or used as technical electives in, this major.

Fulfill ALL of the following requirements:

Electrical Engineering Electives (select 20-24 credits)

Earn at least 20 credits from the following:

- ECE3700 - Digital System Design - 3cr.
- ECE5110 - Fundamentals of Electric Power Systems - 3cr.
- ECE5120 - Introduction to Power Electronics - 3cr.
- ECE5150 - Power Electronics for Electric Drive Vehicles - 3cr.
- ECE5160 - Electric Vehicle Design Laboratory - 4cr.
- ECE5210 - Introduction to Photonics and Devices - 3cr.
- ECE5230 - Spacecraft Systems Engineering - 3cr.
- ECE5235 - Space System Design - 3cr.
- ECE5250 - Photonics Laboratory - 3cr.
- ECE5310 - Control Systems - 4cr.
- ECE5320 - Mechatronics - 4cr.
- ECE5330 - Small Unmanned Aircraft Systems - 3cr.
- ECE5340 - Introduction to Planning and Control for Mobile Robots - 3cr.
- ECE5345 - Introduction to the Robot Operating System (ROS) - 1cr.
- ECE5420 - Microelectronics II - 3cr.
- ECE5460 - VLSI Design Automation - 3cr.
- ECE5470 - VLSI Design - 3cr.
- ECE5480 - VLSI Testing and Security - 3cr.
- ECE5510 - Reinforcement Learning - 3cr.
- ECE5520 - Robot Reasoning - 3cr.
- ECE5540 - AI Architecture: Deployment, Systems, and Real-World Const - 3cr.
- ECE5600 - Introduction to Computer Networks - 3cr.
- ECE5610 - Wireless Communication Networks - 3cr.
- ECE5630 - Digital Signal and Image Processing - 3cr.

- ECE5640 - Real-Time Processors - 4cr.
- ECE5660 - Communication Systems 1 - 3cr.
- ECE5700 - Introduction to Microfabrication - 3cr.
- ECE5710 - Advanced Microfabrication - 3cr.
- ECE5720 - Computer Systems Programming and Architecture - 3cr.
- ECE5730 - Reconfigurable Computing - 3cr.
- ECE5750 - Computer Architecture - 3cr.
- ECE5780 - Embedded Real-Time Systems - 4cr.
- ECE5790 - Principles of Cyber-Physical Systems - 3cr.
- ECE5800 - Electromagnetics II - 3cr.
- ECE5810 - Microwave Circuits I - 3cr.
- ECE5850 - Antennas I - 3cr.
- ECE5930 - Special Topics in Electrical and Computer Engineering - 1cr.

AND

Technical Electives (select 0-4 credits)

Complete ANY of the following Courses:

- BIOL1610 - Biology I - 3cr.
- BIOL2420 - Human Physiology - 4cr.
- BIOL3300 - General Microbiology - 3cr.
- CHEM1220 - Principles of Chemistry II (BPS) - 4cr.
- CHEM2310 - Organic Chemistry I - 4cr.
- CHEM3700 - Introductory Biochemistry - 3cr.
- CHEM3710 - Introductory Biochemistry Laboratory - 1cr.
- CS1440 - Software Engineering Fundamentals - 3cr.
- CS2420 - Algorithms and Data Structures--CS 3 (QI) - 3cr.
- CS3100 - Operating Systems and Concurrency - 3cr.
- CS4700 - Programming Languages - 3cr.
- CS5000 - Theory of Computability - 3cr.
- CS5110 - MultiAgent Systems - 4cr.
- CS5300 - Compiler Construction - 4cr.
- CS5400 - Computer Graphics I - 4cr.
- CS5600 - Intelligent Systems - 4cr.
- CS5800 - Introduction to Database Systems - 3cr.
- ECE4250 - Internship/Co-op - 1cr.
- ENGR2010 - Engineering Mechanics Statics - 3cr.
- ENGR2030 - Engineering Mechanics Dynamics - 3cr.
- ENGR2140 - Mechanics of Materials - 3cr.
- ENGR2450 - Numerical Methods for Engineers - 3cr.
- MAE2160 - Material Science - 3cr.
- MAE2300 - Thermodynamics I - 3cr.
- MATH3310 - Discrete Mathematics - 3cr.
- MATH4200 - Foundations of Analysis (CI) - 3cr.
- MATH4310 - Introduction to Algebraic Structures (CI) - 3cr.
- MATH4610 - Fundamentals of Numerical Analysis - 3cr.
- MATH5210 - Introduction to Analysis I - 3cr.
- MATH5220 - Introduction to Analysis II - 3cr.
- MATH5270 - Complex Variables - 3cr.
- MATH5310 - Introduction to Modern Algebra - 3cr.
- MATH5340 - Theory of Linear Algebra - 3cr.
- MATH5410 - Methods of Applied Mathematics - 3cr.
- MATH5420 - Partial Differential Equations - 3cr.
- MATH5460 - Nonlinear Dynamics - 3cr.
- MATH5510 - Introduction to Topology - 3cr.
- MATH5610 - Introduction to Numerical Analysis - 3cr.
- MATH5620 - Numerical Algorithms for Approximate Solutions of DE - 3cr.
- MATH5720 - Introduction to Mathematical Statistics - 3cr.
- MATH5760 - Applied Stochastic Processes - 3cr.
- PHYS2710 - Introductory Modern Physics - 3cr.
- PHYS3550 - Intermediate Classical Mechanics - 3cr.
- PHYS3600 - Electromagnetism I - 3cr.
- PHYS3700 - Thermal Physics - 3cr.
- PHYS3710 - Intermediate Modern Physics - 3cr.
- PHYS3750 - Foundations of Wave Phenomena - 3cr.
- PHYS4600 - Electromagnetism II - 3cr.
- PHYS4700 - Quantum Mechanics I - 3cr.
- PHYS4710 - Quantum Mechanics II - 3cr.
- PHYS5650 - Optics I - 3cr.
- PHYS5700 - Introduction to Microfabrication - 3cr.
- PHYS5710 - Advanced Microfabrication - 3cr.

- ***Credit for AP Biology or AP Chemistry can also be used to fulfill this requirement***
- ***Students cannot receive credit for both ENGR2010 ENGINEERING MECHANICS STATICS and PHYS3550 INTERM CLASSICAL MECHANICS***
- ***Students cannot receive credit for both MAE2300 THERMODYNAMICS I and PHYS3700 THERMAL PHYSICS***
- ***Students cannot receive credit for both ECE5700 INTRO TO MICROFABRICATION and PHYS5700 INTRO TO MICROFABRICATION***
- ***Students cannot receive credit for both ECE5710 ADVANCED MICROFABRICATION and PHYS5710 ADVANCED MICROFABRICATION***

Open Electives

Complete the following as needed:
Total elective credit is determined by General Education courses taken, degree type selected, additional credits earned, and any additional math or other prerequisite courses needed. Please consult your Academic Advisor for details.

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Bachelor's Degree)

Suggested Degree Maps

Degree Map Name
Suggested Degree Map - Electrical Engineering, BS
Total Degree Map Credits
123 - 125
Degree Map Effective Catalog Year
2027 -

Degree Map Narrative

- Following is a sample four-year plan. Please note that student-specific plans may differ.
- Meet with an academic advisor to create a specific plan that best fits your academic needs.
- The student is ultimately responsible for knowing and completing all degree requirements.

- Make sure you meet the registration requirements for each class by clicking the course link and checking any prerequisites or co-requisites.
- Consultation with an advisor may result in an altered plan customized for an individual student.
- Check your Degree Works for requirements and completion.

*Please note: ENGL1010 WRITING AS INQUIRY (CL1) is required by USU but is not included in the degree map because most engineering students satisfy this requirement through an ACT English score, an SAT Critical Reading score , Advanced Placement (AP) Examinations or College-Level Examination Program (CLEP).

Years 1 and 2 are intended to encompass the Pre-Professional program. Years 3 and 4 are intended to encompass the Professional Program.

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	15	0

Requirement Select
- ENGR1010 - Engineering Exploration

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	Major
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- MATH1210 - Calculus I (QL)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	Major
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- Breadth American Institutions (BAI) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	General Education
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- CHEM1210 - Principles of Chemistry I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	Major
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- CHEM1215 - Chemical Principles Laboratory I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	Major
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	16	0

Requirement Select
- MATH1220 - Calculus II (QL)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	Major
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- PHYS2210 - Physics for Scientists and Engineers I (QI/BPS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	Major
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- PHYS2215 - Physics for Scientists and Engineers Lab I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	Major
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- ENGR1400 - Computer Programming for Engineers

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	Major
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- ENGL2010 - Research and Argument Across Perspectives (CL2)

  OR
- ENGL2020 - Professional Communication (CL2)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	General Education
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	15 - 16	0

Requirement Select

- ECE2250 - Electrical Circuits I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	Major
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- MATH2210 - Multivariable Calculus (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	Major
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- MATH2270 - Linear Algebra (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	Major
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- ECE1410 - Computer Programming for Electrical and Computer Engineers II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	Major
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Breadth Life Sciences (BLS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	General Education
Actual Credits	3 - 4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	15	0

Requirement Select

- ECE2290 - Electrical Circuits II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	Major
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- MATH2280 - Ordinary Differential Equations (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	Major
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- PHYS2220 - Physics for Scientists and Engineers II (BPS/QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	Major
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- ECE2700 - Digital Circuits

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	Major
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Fall	14	0

Requirement Select

- ECE3610 - Continuous and Discrete-Time Systems and Signals

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	Major
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- ECE3710 - Microcontroller Hardware and Software

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	Major
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- ENGR3080 - Creativity and Communication in Design (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	Major
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- MATH5710 - Introduction to Probability

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	Major
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Spring	14	0

Requirement Select
- ECE3410 - Microelectronics I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	Major
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- ECE3870 - Electromagnetics I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	Major
Actual Credits	3
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- Breadth Humanities (BHU) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	General Education
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Electrical Engineering Elective (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	Major
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- ECE3810 - Engineering Professionalism

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	Major
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Fall	19 - 20	0

Requirement Select
- ECE4810 - Engineering Design and Communications 1

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	Major
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- Electrical Engineering Elective (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	Major
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Electrical Engineering Elective (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	Major
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Electrical Engineering Elective (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	Major
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Electrical Engineering Elective (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	Major
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Depth Humanities and Creative Arts (DHA) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	General Education
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Depth Social Sciences (DSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Spring	15	0

Requirement Select

- ECE4840 - Engineering Design II (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	Major
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select

- ECE4850 - Engineering Communications II (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	Major
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- Electrical Engineering Elective (3 credit) (Generic)

  OR
- Technical Elective (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	Major
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Electrical Engineering Elective (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	Major
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Electrical Engineering Elective (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	Major
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Breadth Social Sciences (BSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	General Education
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
18 - 19	102
Total Minor Credits	**Total Elective Credits**
0	0

Program Learning Outcomes

Program Learning Outcomes

https://www.usu.edu/oda/assessment/

Engineering - Computer Engineering Specialization - ME

Program Overview

College	Department	Program Level
College of Engineering	Electrical & Computer Engineering	Graduate

About this Degree

The ME degree is based on coursework and is designed to give graduates a strong practical foundation. The degree is designed for students with a Bachelor of Science degree in Electrical or Computer Engineering who would like to increase their *technical depth* in engineering. To obtain the specialization in Computer Engineering, at least nine credits of ECE coursework must be taken in the desired specialization.

Program Requirements

Total Credits Required In Program Coursework	Total Credits Required To Earn This Credential
30	30

Simple Requisites

Program Requirements

School of Graduate Studies Requirements

1. A bachelor's degree from an accredited U.S. college or university or a similarly recognized international university is required for admission to and completion of a graduate program.
2. Graduate students are required to maintain at least a 3.0 GPA for degree-program courses. Grades of C- or lower will not be accepted for a graduate degree.
3. The Program of Study for master's degree must include at least 18-semester credits at the level of 6000 or above.
4. A master's degree must be completed within six years of entering the program. Additional time may be requested by the student's committee and submitted to the Vice Provost of Graduate Studies for review.
5. Coursework over eight years old at the time of degree completion may not be used for a graduate degree unless it is revalidated.

Master of Engineering (Computer Engineering)

- A minimum of 30 credits of technical and scientific coursework is required.
- At least one ECE depth course (having a graduate-level prerequisite) is required.
- At least 18 credits of ECE coursework must be completed at or above the 5000-level.
- No more than 12 credits of ECE 5000-level or non-ECE 5000-level courses may be applied towards the ME degree
- A maximum of 12 credits outside of the Electrical and Computer Engineering Department may be allowed based upon a comprehensive academic plan.
- School of Graduate Studies form:
    - Program of Study

- At least three credits of Professional Experience (ECE6250 GRAD INTERN/COOP) ***or*** substantial lab-intensive courses listed below) are required. Only three credits of ECE6250 GRAD INTERN/COOP are allowed.

Computer Engineering ME Program Requirements

Type
Completion Requirement

Program Requirements

Complete at least 1 of the following courses:

- ECE5160 - Electric Vehicle Design Laboratory - 4cr.
- ECE5320 - Mechatronics - 4cr.
- ECE5330 - Small Unmanned Aircraft Systems - 3cr.
- ECE5420 - Microelectronics II - 3cr.
- ECE5640 - Real-Time Processors - 4cr.
- ECE5660 - Communication Systems 1 - 3cr.
- ECE5720 - Computer Systems Programming and Architecture - 3cr.
- ECE5730 - Reconfigurable Computing - 3cr.
- ECE5780 - Embedded Real-Time Systems - 4cr.
- ECE6160 - Electric Vehicle Design Laboratory - 4cr.
- ECE6250 - Graduate Internship/Coop - 1cr.
- ECE6730 - Reconfigurable Computing - 3cr.
- ECE6740 - Advanced Reconfigurable Computing - 3cr.
- ECE6780 - Embedded Real-Time Systems - 4cr.

Program Learning Outcomes

Program Learning Outcomes
https://engineering.usu.edu/

Electrical Engineering - MS

Program Overview

College
College of Engineering

Department
Electrical & Computer Engineering

Program Level
Graduate

About this Degree
The MS degree requires substantial thesis or project work in a specific area and prepares students for advanced study or advanced work in that area. The MS degree has two options. Under Plan A, the student completes a thesis. Under Plan B, the student prepares an engineering project report

Program Requirements

Total Credits Required In Program Coursework
30

Total Credits Required To Earn This Credential
30

Simple Requisites

Program Requirements

School of Graduate Studies Requirements

- A bachelor's degree from an accredited U.S. college or university or a similarly recognized international university is required for admission to and completion of a graduate program.
- Graduate students are required to maintain at least a 3.0 GPA for degree-program courses. Grades of C- or lower will not be accepted for a graduate degree.
- The Program of Study for master's degree must include at least 18-semester credits at the level of 6000 or above.
- A master's degree must be completed within six years of entering the program. Additional time may be requested by the student's committee and submitted to the Vice Provost of Graduate Studies for review.
- Coursework over eight years old at the time of degree completion may not be used for a graduate degree unless it is revalidated.

Electrical Engineering - MS
Two program plans are available for the Electrical Engineering MS degree.

The ***Plan A*** Thesis requires 30 credits (minimum). The degree is based on coursework and research and requires a formal thesis. It is designed to prepare graduates for entering a PhD program or performing research in industry or government labs.

- A minimum of 24 credits of technical and scientific coursework and at least 6 credits of ECE6970 THESIS RESEARCH, MS
- At least 3 credits must be completed at the 7000-level.
- At least 12 credits (excluding ECE6970 THESIS RESEARCH, MS) of Electrical or Computer Engineering courses must be completed at or above the 6000-level.
- No more than 6 credits of ECE6970 THESIS RESEARCH, MS can be applied to the Plan A degree.
- No more than 12 credits of ECE 5000-level or non-ECE 5000- to 7000-level may be applied towards the Plan A degree.
- Responsible Conduct of Research (RCR) Training

- Must submit School of Graduate Studies forms
    - Supervisory Committee
    - Program of Study
    - Thesis/Project Approval
    - Appointment for Exam
    - Record of Examination
    - SGS and library review approval
- The Plan A option requires the submission of a written proposal.
- The Plan A option requires the preparation of a thesis as well as the successful defense and submission of the thesis to the library.

The ***Plan B*** Report requires 30 credits (minimum). The degree is based on coursework and engineering design and requires a formal design project report. It is designed to prepare graduates for employment requiring advanced design in industry.

- A minimum of 24 credits of technical and scientific coursework and at least 3 credits of ECE6950 DESIGN PROJECT and 3 credits of ECE6970 THESIS RESEARCH, MS.
- At least 3 credits must be completed at the 7000-level.
- At least 12 credits (excluding ECE6970 THESIS RESEARCH, MS) of Electrical or Computer Engineering courses must be completed at or above the 6000-level.
- No more than 3 credits of ECE6950 DESIGN PROJECT and 3 credits of ECE6970 THESIS RESEARCH, MS can be applied to the Plan B degree.
- No more than 12 credits of ECE 5000-level or non-ECE 5000- to 7000-level may be applied towards the Plan B degree.
- Responsible Conduct of Research (RCR) Training
- Must submit School of Graduate Studies forms
    - Supervisory Committee
    - Program of Study
    - Thesis/Project Approval
    - Appointment for Exam
    - Record of Examination
    - Committee review and library approvall
- The Plan B option requires the submission of a written proposal.
- The Plan B option requires the preparation of a report as well as the successful defense and submission of the report to the library.

Required Courses

Type
Completion Requirement

Plan A

Complete ALL of the following Courses:
- ECE6970 - Thesis Research, MS - 1cr.

This degree is based on coursework and research and requires a formal thesis.

Plan B

Complete ALL of the following Courses:
- ECE6950 - Design Project - 3cr.
- ECE6970 - Thesis Research, MS - 1cr.

This degree is based on coursework and engineering design and requires a formal design project report.

Program Learning Outcomes

Program Learning Outcomes
https://engineering.usu.edu/

Electrical Engineering - PhD

Program Overview

College
College of Engineering

Department
Electrical & Computer Engineering

Program Level
Graduate

About this Degree

A PhD degree in Electrical Engineering prepares students for a professional engineering career. The PhD degree represents high scholarly achievement demonstrated by independent research and competence in an area of specialization approved by the student's supervisory committee. For the PhD program, each student plans an individualized course to study with the assistance of their supervisory committee. The degree requires the successful completion of a comprehensive exam, a successful dissertation proposal defense, and a final dissertation oral defense.

Program Requirements

Total Credits Required In Program Coursework
42-72

Total Credits Required To Earn This Credential
42-72

Simple Requisites

Program Requirements

School of Graduate Studies Requirements

- A bachelor's degree from an accredited U.S. college or university or a similarly recognized international university is required for admission to and completion of a graduate program.
- Graduate students are required to maintain at least a 3.0 GPA for degree-program courses. Grades of C- or lower will not be accepted for a graduate degree.
- The Program of Study for doctoral degree must include at least 18-semester credits at the level of 6000 or above. A maximum of 12 credits from courses at the level of 5000 may be used on an approved program of study.
- A doctorate must be completed within eight years of entering the program. Additional time may be requested by the student's committee and submitted to the Vice Provost of Graduate Studies for review.
- Coursework over eight years old at the time of degree completion may not be used for a graduate degree unless it is revalidated.

Electrical Engineering - PhD

- Responsible Conduct of Research (RCR) Training
- School of Graduate Studies forms:
  - Supervisory Committee
  - Program of Study
  - Application for Doctoral Degree Candidacy
  - Appointment for Exam
  - Record of Examination
  - SGS and library review and approval
- PhD Comprehensive Exam
  - Taken after at least 33 hours of coursework for PhD degree beyond a Bachelor's
  - Taken after at least 9 hours of coursework for PhD degree beyond a Master's
- A proposal defense
- Formal final defense and submission of the dissertation to the library.

Electrical Engineering -PHD

Type
Completion Requirement

The PhD degree beyond a Bachelor's requires at least 72 credits:

Earn at least 18 credits from the following:

- ECE7970 - Dissertation Research - 1cr.

Additionally:

- 42 credits of 5000-7000 level coursework
- Up to 18 credits can be taken outside of the ECE Department
- Only 12 credits of 5000-level coursework may be taken

The PhD degree beyond a Master's requires at least 42 credits:

Earn at least 12 credits from the following:

- ECE7970 - Dissertation Research - 1cr.

Additionally:

- 18 credits of 5000-7000 level coursework
- Up to 9 credits can be taken outside of the ECE Department
- Only 12 credits of 5000-level coursework may be taken

Program Learning Outcomes

Program Learning Outcomes

https://engineering.usu.edu/

Elementary Mathematics Specialist (EMS) - Post-Bachelor's Certificate

Program Overview

College
College of Education & Human Services

Department
School of Teacher Education & Leadership

Program Level
Graduate

About this Degree

Utah State University's online Elementary Mathematics Specialist (EMS) Certificate is designed for graduate students and professionals to strengthen their mathematics content, pedagogy and leadership knowledge and expertise to serve as leaders in elementary mathematics. As outlined in the Association of Mathematics Teacher Educators (AMTE) standards, Elementary Mathematics Specialists are "teachers, teacher leaders, or coaches who are responsible for supporting effective mathematics instruction and student learning at the classroom, school, district, or state levels."

Program Requirements

Total Credits Required In Program Coursework
24

Total Credits Required To Earn This Credential
24

Simple Requisites

Program Requirements

24 credits

Elementary Mathematics Specialist (EMS) - Post-Bachelor's Certificate

Type
Completion Requirement

Courses Required for the EMS Certificate

Complete ALL of the following Courses:

- TEAL6300 - Workshop in Mathematics Education - 1cr.
- TEAL6521 - Mathematics for Teaching K-8 - Numbers and Operations - 3cr.
- TEAL6522 - Mathematics for Teaching K-8 - Rational Numbers and Proportional Reasoning - 3cr.
- TEAL6523 - Mathematics for Teaching K-8 - Algebraic Reasoning - 3cr.
- TEAL6524 - Mathematics for Teaching K-8 - Geometry and Measurement - 3cr.
- TEAL6525 - Mathematics for Teaching K-8 - Data Analysis and Problem Solving - 3cr.
- TEAL6551 - Mathematics for Teaching K - 8: Assessment and Intervention - 3cr.
- TEAL6552 - Mathematics Education Leadership Knowledge and Skills - 3cr.

Program Learning Outcomes

Program Learning Outcomes

https://cehs.usu.edu/about/assessment

Master in Elementary Teaching - MET

Program Overview

College
College of Education & Human Services

Department
School of Teacher Education & Leadership

Program Level
Graduate

About this Degree

The School of Teacher Education and Leadership (TEAL) offers a Master in Elementary Teaching (MET) degree that is designed for persons seeking educator licensing following a previous undergraduate degree. The MET (Plan C) degree is available for students both at the Logan campus and at Statewide Campuses. The basic elements of the MET coursework option include completion of 33 credits in an approved program of study. An additional 30 credits of coursework may be necessary to meet licensure requirements of the Utah State Board of Education (USBE).

This program is specifically designed to provide an avenue for education degree seekers and job changers to become licensed educators. Upon degree completion, USU will be able to recommend licensure.

This program leads to a recommendation for teaching licensure from USU. However, licensure is granted by the Utah State Board of Education.

For additional admission information, including contact information, visit the School of Teacher Education & Leadership MET website.

Admission Requirements for this Program

A bachelor's degree from an accredited U. S. college or university or a similarly recognized international university is required for admission to and completion of a graduate program.

- At minimum 3.0 GPA will be required for admission over the last 30 credits taken prior to the application.
- Official transcripts (not needed if degree is from USU)
- 3 letters of recommendation
- Acceptance to the Elementary Education (ELED) program, which includes MATH 2010 & MATH 2020.
- Approved FBI/BCI background fingerprint check cleared through the Utah State Board of Education (USBE).

Deadline for applications: March 1st, June 1st, and November 1st

Program Requirements

Total Credits Required In Program Coursework
33

Total Credits Required To Earn This Credential
33

Simple Requisites

Program Requirements

School of Graduate Studies General Graduation Guidelines:

Degree Verification: A bachelor's degree from an accredited U. S. college or university or a similarly recognized international university is required for admission to and completion of a graduate program.
Overall Graduate GPA: At least 3.0 and no grades of C- or lower. Graduate students are required to maintain at least a 3.0 GPA for degree-program courses. Grades of C- or lower will not be accepted for a graduate degree.
Course Number Acceptability: The Program of Study for a master's degree must include at least 18 semester credits at the level of 6000 or above. The program of study may include up to 12 semester credits of 5000 level courses.

Matriculation Start Semester: A master's degree must be completed within six years of entering the degree program. Additional time may be requested and submitted to the Vice Provost of Graduate Studies for review.
Coursework Validity: Coursework over eight years old at the time of degree completion may not be used for a graduate degree unless it is revalidated.
Required Master's Forms (Professional/Plan C): Approval of academic forms required for master's students by the School of Graduate Studies:

- Program of Study
- Graduation Application

Department Requirements:

A grade of B- or better is required on all major courses and pedagogical content knowledge courses. Students must maintain an overall GPA of 3.0 or higher.

At the conclusion of the program, each student must complete/submit the following:

- Exit interview
- Exit survey

Licensure Information:

See the Teacher Education and Leadership Advisor with the MET advising area for more information.

The content/pedagogy courses are required for USU to recommend teaching licensure to the USBE, however, they do not fulfill requirements toward the master's degree.

Elementary Content/Pedagogy Courses:

- ITLS2500 TECHNOLOGY ENABLED INSTRUCTION
- ELED3050 PE/HEALTH ELEM METHODS
- ELED3100 CLASSROOM READING INSTRUCTION
- One of: ART3700 ELEMENTARY ART METHODS, MUSC3260 ELEMENTARY SCHOOL MUSIC, THEA3320 MOVEMENT EXPLORATION ELED, THEA3330 DRAMA FOR CLASSROOM TEACHERS, or THEA3340 DRAMA TEACHING METHODS K-6
- SPED4000 EDUCATION STUD W/DISABILITIES
- Literacy Block (Level II): must be taken together
    1. ELED4040 READ ASSESS AND INTERVENT (CI)
    2. ELED4042 READ ASSESS INTERVENT PRACT
    3. ELED4049 FOUNDATIONS OF READING REVIEW
- ELED4061 TEACHING ELEMENTARY MATH I
- ELED4150 ASSESSMENT AND DIFFERENTIATION
- TEAL3080 INTEGRATING ARTS INTO ACA(DHA)
- ELED5105 MOTIVATION CLASSROOM MANAGE

Teaching Required Courses (33 Credits)

Type
Completion Requirement

Program Requirements

A grade of B- or better is required in all major courses and pedagogical content knowledge courses.

Fulfill ALL of the following requirements:

Content Block (Level III) (12 credits)

Complete ALL of the following Courses:

- ELED5010 - Teaching Social Studies in Elementary School - 2cr.
- ELED5020 - Teaching Science in Elementary School - 2cr.
- ELED5030 - Teaching Language Arts (CI) - 2cr.
- ELED5040 - Teaching Elementary School Mathematics II: Number, Operations, and Algebraic Reasoning - 2cr.
- ELED5060 - Elementary Content Practicum - 4cr.

AND

Required Courses (12 credits)

Complete ALL of the following Courses:

- TEAL6190 - Theories of Learning and Models of Teaching - 3cr.
- TEAL6410 - Social Foundations of Education - 3cr.
- TEAL6710 - Diversity in Education - 3cr.
- TEAL6770 - Content Based Instruction for Dual Language Immersion/English as a Second Language - 3cr.

AND

Student Teaching (9 credits)

TEAL6211 GRAD STUDENT TEACHING SEMINAR and TEAL6210 GRAD STUDENT TEACHING must be taken together.

Complete ALL of the following Courses:

- TEAL6210 - Graduate Student Teaching - 3cr.
- TEAL6211 - Graduate Student Teaching Seminar - 3cr.

NOTE:

1. TEAL6210 GRAD STUDENT TEACHING - Register for 6 credits

Additional Comments:

Licensure Notification

This program, combined with content and pedagogy courses, may lead to licensure and was designed to meet licensing qualifications in the state of Utah. If students wish to work in another state within the United States, they should review the qualifications for that state and the Education Licensure Compliance Table provided by School of Teacher Education and Leadership.

For more information, please contact the School of Teacher Education and Leadership at https://cehs.usu.edu/teal/.

Program Learning Outcomes

Program Learning Outcomes

Learners & Learning
Effective teachers exhibit knowledge, skills and dispositions that demonstrate an awareness of and sensitivity toward diversity in learner development and student individualities.

Instructional Clarity
Effective teachers exhibit knowledge, skills, and dispositions that demonstrate clarity regarding the content they teach and how to organize and sequence it to effectively facilitate learning and drive student engagement.

Instructional Practice
Effective teachers exhibit knowledge, skills, and dispositions that support instructional practices that drive high-quality instruction, demonstrate a data-driven and cooperative approach to teaching and learning, and meet the diverse needs of all learners.

Classroom Climate
Effective teachers exhibit the knowledge, skills, and dispositions that enable them to create appropriate physical, social, and emotional environments to support learning.

Professional Responsibility
Effective teachers exhibit the knowledge, skills, and dispositions that demonstrate awareness of and adherence to professional and ethical standards personally, within their school community, with parents, and within their local community.

Emergency Medical Technician - Technical Certificate

Program Overview

College
College of Agriculture & Natural Resources

Department
Technology, Design & Technical Ed

Program Level
Undergraduate

About this Degree

Federal Gainful Employment Information

The Emergency Medical Technician program provides training for out-of-hospital emergency medical care and transportation of critical and emergent patients who access the emergency medical services (EMS) system. Emergency Medical Technicians (EMTs) have basic knowledge and skills necessary to stabilize and safely transport patients ranging from non-emergency and routine medical transports to life threatening emergencies. EMTs function as part of a comprehensive EMS response system, under medical oversight. EMTs perform interventions with the basic equipment typically found on an ambulance. EMTs are a critical link between the scene of an emergency and the health care system.

Admission Requirements for this Program

Student must obtain a healthcare provider CPR Certification prior to enrolling in course.

EMT certification requires applicants to be at least 18 years old to be licensed by the State of Utah.

Program Requirements

Total Credits Required In Program Coursework
6

Total Credits Required To Earn This Credential
6

Simple Requisites

Program Requirements

Emergency Medical Technician Requirements

Type
Completion Requirement

Required Course (6 Credits)

Complete ALL of the following Courses:

- TEEM1011 - Emergency Medical Technician - 6cr.

Program Learning Outcomes

Program Learning Outcomes

- Apply fundamental knowledge of the anatomy and function of all human systems to the practice of EMS.
- Use foundational anatomical and medical terms and abbreviations in written and oral communication with colleagues and other health care professionals.
- Apply fundamental knowledge of the pathophysiology of respiration and perfusion to patient assessment and management.
- Apply fundamental knowledge of lifespan development to patient assessment and management.

- Properly administer or assist in administering medications to a patient during an emergency.
- Utilize fundamental knowledge of the EMS system, safety/well-being of the EMT, and medical/legal and ethical issues to the provision of emergency care.
- Apply knowledge (fundamental depth, foundational breadth) of anatomy and physiology to patient assessment and management to assure a patent airway, adequate mechanical ventilation, and respiration for patients of all ages.
- Interpret scene information and patient assessment findings (scene size-up, primary and secondary assessment, patient history, reassessment) to guide emergency management.
- Provide basic emergency care and transportation based on assessment findings for an acutely ill patient.
- Apply a fundamental knowledge of the causes, pathophysiology, and management of shock, respiratory failure or arrest

Environmental Advocacy - Certificate

Program Overview

College
College of Arts & Sciences

Department
School of Social Sciences

Program Level
Undergraduate

Program Requirements

Total Credits Required In Program Coursework
18

Total Credits Required To Earn This Credential
18

Simple Requisites

Program Requirements

Environmental Advocacy - Certificate

Type
Completion Requirement

Required Courses (9 credits)

Complete ALL of the following Courses:

- CMST3280 - Organizations and Social Change - 3cr.
- TCR4220 - Technology and Activism - 3cr.
- ENVS5000 - Environmental Nonprofit and Volunteer Management - 3cr.

Electives (select 3 courses)

Select 3 courses from the following Topical Areas:

Fulfill ANY of the following requirements:

Social Change and Management

Complete ANY of the following Courses:

- ENVS4030 - Building Community Environmental Resilience - 3cr.
- PUBH3610 - Environmental Management - 3cr.
- SOC3340 - Activism, Protest, and Social Movements (DSS) - 3cr.
- SW5350 - Social Policy and Social Justice (CI) - 3cr.

OR

Tribal Nations/Indigenous Wisdom

Complete ANY of the following Courses:

- SOC3310 - Environmental Justice - 3cr.
- SOC3400 - Tribal Criminal Justice Systems - 3cr.

OR

International/Intercultural

Complete ANY of the following Courses:

- CMST3730 - Culture and Global Intervention (DHA) - 3cr.

OR

Sustainability

Complete ANY of the following Courses:

- ENVS4200 - Sustainability Metrics - 3cr.
- ENVS5350 - Ecological Economics - 3cr.
- ENVS5550 - Sustainability: Concepts and Measurement - 3cr.

OR

Sciences

Complete ANY of the following Courses:

- ENVS1350 - Introduction to Environmental Science (BLS) - 3cr.
- GEO1060 - Introduction to Environmental Geoscience (BPS) - 3cr.
- GEO3150 - Energy in the Twenty-first Century (DSC/QI) - 3cr.
  OR PHYS3150 - Energy in the Twenty-first Century (DSC/QI) - 3cr.
- PSC1050 - Plants, Soils, and Climate Orientation - 1cr.
- PSC2010 - Soils, Waters, and the Environment (BPS) - 3cr.

OR

Climate Change

Complete ANY of the following Courses:

- PSC2700 - Climate Change Impacts (BPS) - 3cr.
- PSC4810 - Climate and Climate Change (DSC)(QI) - 3cr.
- PLSC3300 - Residential Landscapes - 3cr.

OR

Critical Thinking

Complete ANY of the following Courses:

- ARTH4725 - Contemporary Land, Earth, and Eco Art (CI) - 3cr.
- CMST4260 - Environmental Communication - 3cr.
- CMST4270 - Communication, Culture, and Power - 3cr.
- ENGL3640 - Nature Writing (DHA) - 3cr.
- ENVS2340 - Environment, Natural Resources, and Society (BSS) - 3cr.
  OR GEOG2340 - Environment, Natural Resources, and Society (BSS) - 3cr.
- ENVS5200 - Anthropological Perspectives on Conservation - 3cr.
- ENVS4000 - Human Dimensions of Natural Resource Management (DSS) - 3cr.
- GEOG3100 - Human-Environment Geography (CI) - 3cr.
- HIST3840 - The Modern American West (DHA) - 3cr.
- HIST3950 - Environmental History (DHA/CI) - 3cr.
- PHIL3530 - Environmental Ethics (DHA) - 3cr.
- SOC3310 - Environmental Justice - 3cr.
- SOC4620 - Sociology of the Environment and Natural Resources (DSS) - 3cr.

OR

Agriculture and Food Systems

Complete ANY of the following Courses:

- ASTE2900 - Food Matters: Ethics, Economics, and the Environment (BSS) - 3cr.
- ASTE5260 - Environmental Impacts of Agricultural Systems (CI) - 3cr.

OR

Fieldwork & Internships

Complete ANY of the following Courses:

- CMST4250 - Advanced Internship/Co-op - 1cr.

NOTE:

1. CMST4250 ADV INTERNSHIP/COOP with permission.

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Undergraduate Academic or Technical Certificates)

Program Learning Outcomes

Program Learning Outcomes

https://chass.usu.edu/assessments/

Engineering Education - MS

Program Overview

College
College of Engineering

Department
Engineering Education

Program Level
Graduate

About this Degree

The Master of Science in Engineering Education is a 30-credit program offered through the Engineering Education Department. The program is a face-to-face program (rather than an online program) and is delivered on the Logan campus of Utah State University. The program offers Plan A (thesis) and Plan B (research project) options. It prepares students to be engineering instructors, engineering education researchers and specialists with solid knowledge and skills in 1) designing and assessing engineering curriculum and engineering knowledge, 2) implementing evidence-based instructional approaches in student-centered engineering learning environments, 3) identifying and synthesizing relevant theories to frame the research problem, and 4) applying appropriate and creative research methods to studies in engineering education. Detailed program requirements, including courses, can be found on this weblink.

Program Requirements

Total Credits Required In Program Coursework
30

Total Credits Required To Earn This Credential
30

Simple Requisites

Program Requirements

Plan A students must take a minimum of 6 research credit hours (EED6970 MASTER'S THESIS RESEARCH) to complete their master's thesis and be consistent with the Graduate School requirements. They must write a thesis research proposal, successfully complete the thesis research proposal defense, write a thesis, and successfully complete the final thesis defense.

Plan B students must take a minimum of 3 research credit hours (EED6960 MASTER'S RESEARCH PROJECT) to complete their master's research project and be consistent with the Graduate School requirements. They must write a research project proposal, successfully complete the research project proposal defense, write a research project report, and successfully complete the final research project defense.

Additional Degree Requirements by the School of Graduate Studies

- Must maintain a minimum 3.0 GPA
- A minimum cumulative GPA of 3.0 required for graduation
- Grades of C- or lower are not permitted on the program of study
- A master's degree must be completed within six years of entering the degree program.
- Coursework over eight years old at the time of degree completion may not be used for a graduate degree unless it is revalidated.

Plan A:

- Approval of academic forms required for master's students by the School of Graduate Studies

1. Supervisory Committee
2. Program Of Study
3. Thesis Project Approval
4. Appointment for Examination
5. Record of Examination
6. SGS and library review and approval

Plan B:

- Approval of academic forms required for master's students by the School of Graduate Studies

1. Supervisory Committee
2. Program Of Study
3. Appointment for Examination
4. Record of Examination
5. Report submission through DigitalCommons@USU

Program Requirements

Type
Completion Requirement

Engineering Education (6 credits)

Complete ALL of the following Courses:

- EED6090 - Developing an Engineering Education Curriculum - 3cr.
- EED6150 - Teaching, Learning & Assessment in Engineering Education - 3cr.

Elective-Area of Specialization (12-15 credits)

- ***Plan A (Thesis): minimum 12 credits***
- ***Plan B (Research Project): minimum 15 credits***

Elective courses can be at 6000- or 5000-level offered by the College of Engineering or by the Emma Eccles Jones College of Education and Human Services at USU. No courses below 5000-level are allowed. No more than 12 credits of 5000-level courses are allowed. All elective courses and associated Program of Study must be approved by the student's supervisory committee. Students may choose from the following options:

Complete ALL of the following Courses:

- ITLS6540 - Learning Theory - 3cr.
- PSY6350 - Introduction to Theories of Intervention in Psychology - 3cr.
- TEAL6190 - Theories of Learning and Models of Teaching - 3cr.
- TEAL6545 - Research For Teachers - 3cr.

Research Theory (6 credits)

Complete ALL of the following Courses:

- EDUC6040 - Applied Research Methods - 3cr.
- EDUC6050 - Applied Statistical Analysis - 3cr.
  OR STAT5200 - Analysis of Designed Experiments - 3cr.

Program Learning Outcomes

Program Learning Outcomes

https://engineering.usu.edu/

Engineering Education - PhD

Program Overview

College
College of Engineering

Department
Engineering Education

Program Level
Graduate

About this Degree

The Doctorate of Philosophy in Engineering Education is a 42-credit program offered through the Engineering Education Department. The program is a face-to-face program (rather than an online program) and is delivered on the Logan campus of Utah State University. The program prepares students to be engineering instructors, engineering education researchers and specialists with solid knowledge and skills in 1) designing and assessing engineering curriculum and engineering knowledge, 2) implementing evidence-based instructional approaches in student-centered engineering learning environment, 3) identifying and synthesizing relevant theories to frame the research problem, 4) applying appropriate and creative research methods to studies in engineering education, 5) understanding engineering education foundations and the role of cognition in engineering education, and 6) developing competitive grant proposals for improving engineering education. Detailed program requirements, including courses, can be found at this weblink.

Program Requirements

Total Credits Required In Program Coursework
42

Total Credits Required To Earn This Credential
42

Simple Requisites

Program Requirements

Additional Degree Requirements by the Department

1. Successful Comprehensive exam
2. Successful Dissertation Research Proposal Defense
3. Successful Final Dissertation Defense
4. One peer-reviewed, first-author journal paper submission or conference presentation with a peer-reviewed, first-author paper per 12 dissertation credits. The publication should be generated from the research under the supervision of the student's Faculty Advisor during the course of graduate study at USU.
5. EED7810 RESEARCH SEMINAR: This course is offered each spring semester. Attendance is required throughout *the entire PhD program*. However, students are required to register for this course only once while in the PhD program.
6. Teaching experience including one or more of the following:
    - Two semesters of guided teaching experience
    - Experience as a K-12 teacher
    - Experience as university/college/community college faculty
    - Other equivalent experience approved by the Department Head and the student's graduate committee

Additional Degree Requirements by the School of Graduate Studies

- Must maintain a minimum of 3. 0 term GPA for each semester
- A minimum of 3. 0 cumulative GPA is required for graduation
- Grades of C- or lower are not permitted on the program of study
- A doctorate must be completed within eight years of entering the degree program.
- Coursework over eight years old at the time of degree completion may not be used for a graduate degree unless it is revalidated
- Approval of academic forms required for doctoral students by the School of Graduate Studies

1. Supervisory Committee
2. Program Of Study
3. Application for Candidacy
4. Appointment for Examination
5. Record of Examination
6. SGS and library review and approval

Engineering Education

Type
Completion Requirement

Engineering Education Core (16 Credits)

Complete ALL of the following Courses:

- EED6090 - Developing an Engineering Education Curriculum - 3cr.
- EED6150 - Teaching, Learning & Assessment in Engineering Education - 3cr.
- EED7010 - The Role of Cognition in Engineering Education - 3cr.
- EED7230 - Foundations of Engineering Education - 3cr.
- EED7460 - Finance and Grant Writing - 3cr.
- EED7810 - Research Seminar - 1cr.

EED7810 RESEARCH SEMINAR is offered each spring semester. Attendance is required throughout the entire Ph.D. program. However, students are required to register for this course only once while in the Ph.D. program.

Research Theory Core (9 Credits)

Complete ALL of the following Courses:

- EDUC6570 - Introduction to Educational and Psychological Research - 3cr.
  OR PSY6560 - Introduction to Educational and Psychological Research - 3cr.
- EDUC6600 - Statistical Foundations - 3cr.
  OR PSY6600 - Statistical Foundations - 3cr.
  OR STAT5200 - Analysis of Designed Experiments - 3cr.
- EED7040 - Qualitative Methods in Engineering Education - 3cr.

Elective-Area of Specialization (Minimum 5 Credits)

Complete ALL of the following Courses:

- EDUC7610 - Regression Analysis - 3cr.
- EED6910 - Special Topics in Engineering Education - 1cr.
- PSY7070 - Advanced Measurement Theories and Practice - 3cr.
- PSY7650 - Multilevel and Marginal Models for the Social Sciences - 3cr.
- SPED7700 - Single-Subject Research Methods and Designs - 3cr.
- TEAL6150 - Foundations of Curriculum - 3cr.
- TEAL6410 - Social Foundations of Education - 3cr.

- TEAL7300 - Historical, Social, and Cultural Foundations of Education - 3cr.

Other alternative elective courses (including 5000-level courses) must be approved by your Faculty Advisor.

Dissertation (Minimum 12 Credits)

Ph.D. Dissertation: Students must take an appropriate number of research credit hours to complement their graduate program and be consistent with the Graduate School requirements.

Program Learning Outcomes

Program Learning Outcomes

https://engineering.usu.edu/

Environmental Equity - Post-Bachelor's Certificate

Program Overview

College
College of Arts & Sciences

Department
School of Social Sciences

Program Level
Graduate

About this Degree

The Environmental Equity Post-Bachelor's Certificate (NRECE) Program is administered by the Sociology Program, College of Arts and Sciences. The certificate will provide rigorous social science training and education in environmental and natural resources equity and inequality. The target of this program is twofold: 1) current graduate students at USU and 2) professionals engaged in human or social dimensions of environment or natural resources work.

Students who complete the program receive a certificate in Environmental Equity. Notification of this certificate appears on the student's transcript.

Graduate students seeking to complete the Environmental Equity Certificate will work with their major faculty advisor, as well as with the Program Director, for support in understanding and meeting the requirements of the certificate.

Admission Requirements for this Program

For admittance into the Environmental Equity Post-Bachelor's Certificate Program, a graduate student must: (1) be accepted by the School of Graduate Studies at Utah State University for graduate study (current or provisional); and (2) meet with the Program Director to discuss personal interest in completing the Certificate with respect to professional goals.

Program Requirements

Total Credits Required In Program Coursework
9

Total Credits Required To Earn This Credential
9

Simple Requisites

Program Requirements

Certificate completion will require a minimum of nine credit hours. This includes a minimum of two environment/natural resources related courses (6 credit hours) and one social inequality-based course (3 credit hours), and a maximum of 15 credit hours. While only three courses are required for certificate completion, students will be welcome and invited to take an additional two courses (6 credit hours) of electives if they wish to expand the breadth and/or depth of their experience.

The two environment-related courses will provide students with training and education in the sociology of natural resources/environmental sociology, environmental justice, social change, community sociology, and community-based or -engaged research methods. Students can select two courses that most closely align with their research, training and/or professional goals. For example, a graduate researcher conducting research on environmental justice in relation to Great Salt Lake may select the most relevant courses (e.g., Environmental & Climate Justice, Multispecies Justice & Indigenous Approaches to the Environment), while practitioners seeking to understand the social wellbeing implications of natural amenity development may select courses focused more on rural natural resource use and social change (e.g., Social & Community Dimensions of Natural Resources, Environment, Technology, & Social Change).

A social inequality course will provide students with more depth regarding the history of inequality and factors that shape unequal social outcomes. As with the environment-related requirements, students can select a course that best aligns with their goals. For instance, students seeking a broad overview of the mechanisms that shape inequality can select a general inequality course (e.g.,

Theory & Research on Inequality) while students seeking a deeper focus on particular populations can select more targeted courses (e.g., Sociology of Race & Ethnicity or Sociology of Sexuality & Gender).

Environmental Equity - Post-Bachelor's Certificate

Type
Completion Requirement

Environment/Natural Resources Cluster (6 credits)

Graduate students are required to maintain at least a 3.0 GPA for degree-program courses. Grades of C- or lower will not be accepted for a graduate degree. Additional courses options may be approved by the Program Director.

Complete at least 2 of the following courses:

- SOC6620 - Environment, Technology, and Social Change - 3cr.
- SOC6630 - Social and Community Dimensions of Natural Resources - 3cr.
- SOC6640 - Multispecies Justice and Indigenous Environmentalisms - 3cr.
- SOC6800 - Seminar in Sociology - 1cr.

Social Inequality Cluster (3 credits)

Take at least one course from the following list, for a total of 3 credits. Additional courses options may be approved by the Program Director.

Earn at least 3 credits from the following:

- SOC6270 - Global Migration - 3cr.
- SOC6310 - Sociology of Work and Occupations - 3cr.
- SOC6420 - Gender, Sexuality, and Social Inequality - 3cr.
- SOC6460 - Sociology of Health, Illness, and Disability - 3cr.
- SOC6480 - Seminar in Race and Ethnicity - 3cr.
- SOC6760 - Theory and Research in Social Inequality - 3cr.

Program Learning Outcomes

Program Learning Outcomes

Upon successful completion of this certificate, students will be able to:

1. Demonstrate a deep understanding of the social, human, and other drivers and consequences of environmental issues.
2. Apply diverse perspectives, solutions, and methods to understand and address social-environmental issues.
3. Explain the importance of approaches to addressing environmental issues that incorporate equity and justice.

English - Minor

Program Overview

College
College of Arts & Sciences

Department
English

Program Level
Undergraduate

Program Requirements

Total Credits Required In Program Coursework
12

Total Credits Required To Earn This Credential
12

Simple Requisites

Program Requirements

The standard nonteaching minor consists of 12 credits of various courses, 6 of which must be in upper-division coursework. Students must have a 2.5 Overall GPA to declare the English minor and must maintain a minimum 2.5 GPA within the minor courses with no grade lower than a C.

Required Courses

Type
Completion Requirement

Required English Major Core Course (3 credits)

Complete at least 1 of the following courses:

- ENGL2020 - Professional Communication (CL2) - 3cr.
- ENGL2010 - Research and Argument Across Perspectives (CL2) - 3cr.
- ENGL2600 - Literary Analysis - 3cr.
- ENGL3420 - Fiction Writing - 3cr.
- ENGL3430 - Poetry Writing - 3cr.
- ENGL3440 - Creative Nonfiction Writing - 3cr.

Eelectives

Type
Completion Requirement

Electives (9 credits)

Complete 9 credits in the following:

- Select 9 elective credits from ENGL courses. Six credits must be upper division.
- No more than three elective credits may be taken as ENGL4900 INTERN AND COOP EXPER: Internship/ Cooperative Work Experience.
- Up to three elective credits can be taken in TCR courses.

Program Learning Outcomes

Program Learning Outcomes

https://chass.usu.edu/assessments/

English - BA, BS

Program Overview

College
College of Arts & Sciences

Department
English

Program Level
Undergraduate

About this Degree

If desired, students may choose a particular emphasis in Creative Writing, English Teaching, or Literature.

- For more information about the English major, see the Department of English website.
- Admitted and current students must meet with an academic advisor.
- Log on to Degree Works to check student-specific program progress.
- The highest math requirement for this degree is Quantitative Literacy (QL) of the student's choice.

For Bachelor of Arts Degree language requirements see Undergraduate Academic Credential Requirements.

Admission Requirements for this Program

- New freshmen must be admitted to USU in Good Standing.
- 2.5 GPA within all English courses (other than ENGL1010 WRITING AS INQUIRY (CL1), ENGL2010 RSRCH&ARGUMENT PRSPCTVES (CL2), CLEP, AP, etc.); 2.5 USU cumulative GPA (including courses taken for another USU major); 2.5 career total GPA (including transfer credits) for new transfer students.

Program Requirements

Total Credits Required In Program Coursework
37

Total Credits Required To Earn This Credential
120-122

Simple Requisites

Program Requirements

- Students may register for an internship for elective credit (ENGL 4900) that combines their academic skills with their professional interests and allows them to develop valuable workplace skills. This program allows up to three credits of internship.
- **Minimum GPA for Graduation:** 2.5 within major courses; 2.0 USU cumulative; 2.0 career total
- **Minimum Grade Accepted:** C within major courses (no grades of pass/fail)
- **Number of required credits:** 37
- **Credits in Residence:** Students must complete 18 credits of major-applicable coursework at Utah State University.

English Department Requirements

Type
Completion Requirement

A. English Major Core (10 credits)

ENGL2000 DEG/CARREER PLNG FOR ENGL MJRS and ENGL2600 LITERARY ANALYSIS are required. Students may fulfill the remaining six credits by selecting one course from the Writing core requirement and one course from the Creative Writing core requirement listed below.

Fulfill ALL of the following requirements:

English Core requirements

Complete ALL of the following Courses:

- ENGL2000 - Degree and Career Planning for English Majors - 1cr.
- ENGL2600 - Literary Analysis - 3cr.

AND

Writing Core requirements

Complete at least 1 of the following courses:

- ENGL2010 - Research and Argument Across Perspectives (CL2) - 3cr.
- ENGL2020 - Professional Communication (CL2) - 3cr.

AND

Creative Writing Core requirements

Complete at least 1 of the following courses:

- ENGL3320 - Resistance and Literature II - 3cr.
- ENGL3330 - Literary Theory - 3cr.
- ENGL3440 - Creative Nonfiction Writing - 3cr.

B. Craft Courses (6 credits)

Students develop specific skills, competencies, and points of view needed by professionals in the fields of creative writing, teaching, and/or literary studies.

Complete at least 2 of the following courses:

- ENGL3160 - AI and Writing Across Disciplines (CI) - 3cr.
- ENGL3170 - Legal Writing (CI) - 3cr.
- ENGL3175 - Healthcare and Medical Writing - 3cr.
- ENGL3180 - Writing for the Public - 3cr.
- ENGL3185 - Writing for Peace - 3cr.
- ENGL3190 - Data Storytelling (CI) - 3cr.
- ENGL3220 - Romance Novels (DHA) - 3cr.
- ENGL3260 - Adapted: Page, Stage, Song, and Screen - 3cr.
- ENGL3280 - Graphic Novels - 3cr.
- ENGL3270 - Funny Business (DHA) - 3cr.
- ENGL3420 - Fiction Writing - 3cr.
- ENGL3240 - Writing Family Stories (DHA) - 3cr.
- ENGL3430 - Poetry Writing - 3cr.
- ENGL3440 - Creative Nonfiction Writing - 3cr.
- ENGL3470 - Approaches to Research (QI) - 3cr.
- ENGL3510 - Teaching Young Adult Literature - 3cr.
- ENGL4250 - Playwriting - 3cr.
- ENGL4340 - Studies in Fiction - 3cr.
- ENGL4345 - Studies in Nonfiction - 3cr.
- ENGL4350 - Studies in Poetry - 3cr.
- ENGL4360 - Studies in Drama - 3cr.
- ENGL4365 - Studies in Film - 3cr.
- ENGL4420 - Advanced Fiction Writing (CI) - 3cr.
- ENGL4430 - Advanced Poetry Writing (CI) - 3cr.
- ENGL4440 - Advanced Nonfiction Writing (CI) - 3cr.

C. Context Courses (6 credits)

Students learn to analyze and critically evaluate ideas, arguments, and points of view that inform the production and interpretation of literature and cultural works.

Complete at least 2 of the following courses:

- ENGL3070 - Digital Folklore (DHA) - 3cr.
- ENGL3300 - Special Topics in Literary History - 3cr.
- ENGL3305 - Medieval Literary History - 3cr.
- ENGL3310 - Resistance and Literature I - 3cr.
- ENGL3315 - Early Modern British Literary History - 3cr.
- ENGL3320 - Resistance and Literature II - 3cr.
- ENGL3325 - Eighteenth-Century British Literary History - 3cr.
- ENGL3335 - Nineteenth-Century British Literary History - 3cr.
- ENGL3345 - Literary History of the British Isles Since 1900 - 3cr.
- ENGL3355 - Literary History of the Early Americas - 3cr.
- ENGL3365 - Nineteenth-Century American Literary History - 3cr.
- ENGL3375 - Literary History of the Americas Since 1900 - 3cr.
- ENGL3385 - Postcolonial World Literature - 3cr.
- ENGL3620 - Native American Studies - 3cr.
- ENGL3830 - The History of Yoga - 3cr.
- ENGL4200 - Linguistic Structures - 3cr.
- ENGL4210 - History of English: Change and Diversity - 3cr.
- ENGL4220 - Language and Writing: A History - 3cr.
- ENGL4390 - Contemporary Literature (CI) - 3cr.
- ENGL4650 - Utah's Public Lands: Past, Present, Future (DHA/HASS) - 3cr.

D. Community Courses (6 credits)

Students gain a broader understanding and appreciation of intellectual-cultural activity (music, science, literature, etc.) in relation to specific communities.

Complete at least 2 of the following courses:

- ENGL2800 - Utah Stories - 3cr.
- ENGL3140 - Introduction to LGBTQ+ Literature (DHA) - 3cr.
- ENGL3150 - Science Fiction (DHA) - 3cr.
- ENGL3230 - Young Adult Literature (DHA) - 3cr.
- ENGL3250 - Travel the World through Literature and Writing (DHA) - 3cr.
- ENGL3395 - World Literature in Translation - 3cr.
- ENGL3610 - Multicultural American Literature - 3cr.
- ENGL3630 - The Farm in Literature and Culture (CI/DHA) - 3cr.
- ENGL3640 - Nature Writing (DHA) - 3cr.
- ENGL3700 - Regional Folklore (DHA) - 3cr.
- ENGL3720 - Children's Folklore (DHA) - 3cr.
- ENGL4230 - Language and Culture (DSS) - 3cr.
- ENGL4310 - American Writers - 3cr.
- ENGL4320 - British Writers - 3cr.
- ENGL4330 - World Writers - 3cr.
- ENGL4370 - Native American Literature - 3cr.
- ENGL4375 - U.S. Latinx Literature - 3cr.
- ENGL4380 - African American Literature - 3cr.
- ENGL4610 - Western American Literature (CI/DHA) - 3cr.
- ENGL4630 - Environmental Justice Literature - 3cr.
- ENGL4700 - Folk Material Culture (DHA) - 3cr.
- ENGL5700 - Folk Narrative - 3cr.

Open Electives (9 credits)

Earn at least 9 credits

Students may select any ENGL or TCR courses for elective credit. Only 3 credits of TCR courses count for an elective. Six credits must be upper-division (3000 or 4000 level).

Students may register for an internship for elective credit (ENGL 4900) that combines their academic skills with their professional interests and allows them to develop valuable workplace skills. This program allows up to three credits of internship.

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Bachelor's Degree)

Suggested Degree Maps

Degree Map Name
Suggested Degree Map - English BA, BS
Total Degree Map Credits
120
Degree Map Effective Catalog Year
2027 -

Degree Map Narrative

- Following is a sample four-year plan. Please note that student-specific plans may differ.
- Meet with an academic advisor to create a specific plan that best fits your academic needs.
- The student is ultimately responsible for knowing and completing all degree requirements.
- Make sure you meet the registration requirements for each class by clicking the course link and checking any prerequisites or corequisites.
- Consultation with an advisor may result in an altered plan customized for an individual student.
- Check your Degree Works for requirements and completion.

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	15	0

Requirement Select

- ENGL1010 - Writing as Inquiry (CL1)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- ENGL2600 - Literary Analysis

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Breadth Humanities (BHU) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Breadth Physical Sciences (BPS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Breadth American Institutions (BAI) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	15	0

Requirement Select
- STAT1040, STAT1045, OR STAT1080 is recommended for QL. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- ENGL2010 - Research and Argument Across Perspectives (CL2)

  OR
- ENGL2020 - Professional Communication (CL2)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- ENGL2000 - Degree and Career Planning for English Majors

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- ENGL3420 - Fiction Writing

  OR
- ENGL3430 - Poetry Writing

  OR
- ENGL3440 - Creative Nonfiction Writing

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Breadth Requirement (Generic)

OR

- Breadth Life Sciences (BLS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Elective course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	15	0

Requirement Select

- English Craft, Community, or Context Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- English Craft, Context or Community Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Breadth Creative Arts (BCA) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Breadth Social Sciences (BSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	15	0

Requirement Select

- English Craft, Community, or Context Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- English Elective (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Depth Social Sciences (DSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Fall	15	0

Requirement Select
- English Craft, Context, or Community Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Upper-Division English Elective (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Spring	15	0

Requirement Select
- Upper-Division English Elective (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Depth Life and Physical Sciences (DSC) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Upper-Division Elective (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Fall	15	0

Requirement Select
- English Craft, Community, or Context Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Upper-Division Elective (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Communications Intensive (CI) Courses

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Spring	15	0

Requirement Select
- English Craft, Context, or Community Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Quantitative Intensive (QI) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Communications Intensive (CI) Courses

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	Total Major Credits
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Program Learning Outcomes

Program Learning Outcomes
https://artsci.usu.edu/assessments/

English: Creative Writing Emphasis - BA, BS

Program Overview

College	Department	Program Level
College of Arts & Sciences	English	Undergraduate

About this Degree
With its small class sizes and nationally recognized faculty members, the English Department helps students develop skills in analysis, production, and understanding of texts in the English language. Students learn to write, think, and communicate effectively in a technologically and culturally complex world. Students develop skills in the areas most valued by employers, including critical thinking, teamwork, and oral and written communication, which will prepare them to enter into a wide range of career options.

Because the English Department is home to faculty involved in research, our students are provided with numerous opportunities to pursue undergraduate research projects and creative projects with individual attention from professors.

Students receive a BA or BS by completing all required courses in the major. To receive a BA, students must also gain proficiency in one or more foreign languages, see Undergraduate Academic Credential Requirements for requirements.

Creative Writing Emphasis: The creative writing program gives students exposure to poetry, fiction, and creative nonfiction writing and then allows them to specialize in their chosen area(s). Through literature and writing courses, students develop critical and cognitive writing skills applicable in numerous professional fields

- For more information about English, Creative Writing Emphasis, please see the Department of English website.
- Admitted and current students must meet with an academic advisor.
- Log on to Degree Works to check student-specific program progress.
- The highest math requirement for this degree is Quantitative Literacy (QL) of the student's choice.

Admission Requirements for this Program
Minimum GPA for Admission: 2.5 GPA within all English courses (other than ENGL 1010, ENGL 2010, CLEP, AP, etc.); 2.5 USU cumulative GPA (including courses taken for another USU major); 2.5 career total GPA (including transfer credits) for new transfer students

Program Requirements

Total Credits Required In Program Coursework	Total Credits Required To Earn This Credential
45	120

Simple Requisites

Program Requirements

Minimum GPA for Graduation: 2.5 within major courses; 2.0 USU cumulative; 2.0 career total

Minimum Grade Accepted: C in major courses (no pass/fail.)

Number of required credits: 40

Credits in Residence: Students must complete 21 credits of major-applicable coursework at Utah State University. Students completing the Creative Writing emphasis must also complete two of the three Advanced Creative Writing classes at Utah State University.

This emphasis is devoted to the art of literary writing: fiction, poetry, and creative nonfiction. Through practice in specific genres and a comprehensive study of literature, students learn the craft of literary writing as discovered and

practiced over the last three thousand years of written human culture. The emphasis prepares undergraduates for graduate work in creative writing and develops critical, cognitive, and writing skills applicable in numerous professional fields.

Since creative writers must have a broad knowledge of literature, students complete ENGL2600 LITERARY ANALYSIS, as well as 12 credits of Literature courses numbered 3000 and above.

Also at the 3000 level, students begin their work as creative writers, taking three introductory writing courses in three genres: fiction, poetry, and creative nonfiction.

At the 4000- and 5000-level, students concentrate their training as creative writers, taking three courses in advanced fiction, poetry, and creative nonfiction writing, which can be repeated, as well as the Special Topics in Creative Writing course.

English Department Requirements

Type
Completion Requirement

English Major Core (10 credits)

ENGL2000 DEG/CARREER PLNG FOR ENGL MJRS and ENGL2600 LITERARY ANALYSIS are required. Students may fulfill the remaining six credits by selecting one course from the Writing Core Requirement and one course from the Creative Writing Core Requirement listed below.

Fulfill ALL of the following requirements:

English Core requirements

Complete ALL of the following Courses:

- ENGL2000 - Degree and Career Planning for English Majors - 1cr.
- ENGL2600 - Literary Analysis - 3cr.

AND

Writing Core requirements

Complete at least 1 of the following courses:

- ENGL2010 - Research and Argument Across Perspectives (CL2) - 3cr.
- ENGL2020 - Professional Communication (CL2) - 3cr.

AND

Creative Writing Core requirements

Complete at least 1 of the following courses:

- ENGL3320 - Resistance and Literature II - 3cr.
- ENGL3330 - Literary Theory - 3cr.
- ENGL3440 - Creative Nonfiction Writing - 3cr.

Emphasis Requirements (30 credits)

Type
Completion Requirement

Creative Writing Courses (21 credits)

Fulfill ALL of the following requirements:

Introductory Creative Writing Courses (9 credits)

Earn a minimum grade of C in the following:

- ENGL3420 - Fiction Writing - 3cr.
- ENGL3430 - Poetry Writing - 3cr.
- ENGL3440 - Creative Nonfiction Writing - 3cr.

AND

Advanced Creative Writing Courses (9 credits)

ENGL4420 ADV FICTION WRITING (CI), ENGL4430 ADV POETRY WRITING (CI), and ENGL4440 ADV NONFICTION WRITING (CI) are repeatable and can be taken more than once for this requirement. However, students must complete courses in at least two genres from the following list.

Earn at least 9 credits from the following:

- ENGL4420 - Advanced Fiction Writing (CI) - 3cr.
- ENGL4430 - Advanced Poetry Writing (CI) - 3cr.
- ENGL4440 - Advanced Nonfiction Writing (CI) - 3cr.

AND

Special Topics in Creative Writing

The Special Topics course varies according to the specialty of the faculty member teaching the course.

Complete ALL of the following Courses:

- ENGL5450 - Special Topics in Creative Writing - 3cr.

Literary Studies (12 credits)

Complete at least 4 of the following courses:

- ENGL3140 - Introduction to LGBTQ+ Literature (DHA) - 3cr.
- ENGL3150 - Science Fiction (DHA) - 3cr.
- ENGL3220 - Romance Novels (DHA) - 3cr.
- ENGL3240 - Writing Family Stories (DHA) - 3cr.
- ENGL3250 - Travel the World through Literature and Writing (DHA) - 3cr.
- ENGL3270 - Funny Business (DHA) - 3cr.
- ENGL3280 - Graphic Novels - 3cr.
- ENGL3300 - Special Topics in Literary History - 3cr.
- ENGL3305 - Medieval Literary History - 3cr.
- ENGL3310 - Resistance and Literature I - 3cr.
- ENGL3315 - Early Modern British Literary History - 3cr.
- ENGL3320 - Resistance and Literature II - 3cr.
- ENGL3325 - Eighteenth-Century British Literary History - 3cr.
- ENGL3335 - Nineteenth-Century British Literary History - 3cr.
- ENGL3345 - Literary History of the British Isles Since 1900 - 3cr.
- ENGL3355 - Literary History of the Early Americas - 3cr.
- ENGL3365 - Nineteenth-Century American Literary History - 3cr.
- ENGL3375 - Literary History of the Americas Since 1900 - 3cr.
- ENGL3385 - Postcolonial World Literature - 3cr.
- ENGL3395 - World Literature in Translation - 3cr.
- ENGL3610 - Multicultural American Literature - 3cr.
- ENGL3620 - Native American Studies - 3cr.
- ENGL4300 - Shakespeare - 3cr.
- ENGL4310 - American Writers - 3cr.
- ENGL4320 - British Writers - 3cr.
- ENGL4330 - World Writers - 3cr.
- ENGL4340 - Studies in Fiction - 3cr.

- ENGL4345 - Studies in Nonfiction - 3cr.
- ENGL4350 - Studies in Poetry - 3cr.
- ENGL4360 - Studies in Drama - 3cr.
- ENGL4365 - Studies in Film - 3cr.
- ENGL4370 - Native American Literature - 3cr.
- ENGL4375 - U.S. Latinx Literature - 3cr.
- ENGL4380 - African American Literature - 3cr.
- ENGL4390 - Contemporary Literature (CI) - 3cr.
- ENGL4630 - Environmental Justice Literature - 3cr.
- ENGL5300 - Special Topics in Literature (CI) - 3cr.
- ENGL5320 - Gender and Sexuality in Literature (CI) - 3cr.
- ENGL5330 - Race and Ethnicity in Literature (CI) - 3cr.
- ENGL5340 - Multimedia Literature (CI) - 3cr.

Open Electives

Complete the following as needed:
Total elective credit is determined by General Education courses taken, degree type selected, additional credits earned, and any additional math or other prerequisite courses needed. Please consult your Academic Advisor for details.

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Bachelor's Degree)

Suggested Degree Maps

Degree Map Name
Suggested Degree Map - English: Creative Writing Emphasis BA, BS
Total Degree Map Credits
120 - 122
Degree Map Effective Catalog Year
2027 -

Degree Map Narrative

- Following is a sample four-year plan. Please note that student-specific plans may differ.
- Meet with an academic advisor to create a specific plan that best fits your academic needs.
- The student is ultimately responsible for knowing and completing all degree requirements.
- Make sure you meet the registration requirements for each class by clicking the course link and checking any prerequisites or corequisites.
- Consultation with an advisor may result in an altered plan customized for an individual student.
- Check your Degree Works for requirements and completion.

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	15 - 17	0

Requirement Select
- STAT1040, STAT1045, or STAT108 is recommended for QL. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Quantitative Literacy (QL) Course
  OR
- STAT1040 - Introduction to Statistics (QL)
  OR
- STAT1045 - Introduction to Statistics with Elements with Algebra (QL)
  OR
- STAT1080 - Foundations of Data Science (QL)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 5
Progress Credits	-
Contact Hours	3 - 5
Clinical	-
Criticality	No

Requirement Select
- ENGL Culture Exploration Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Breadth American Institutions (BAI) Course
  OR
- Breadth Creative Arts (BCA) Course
  OR
- Breadth Humanities (BHU) Course
  OR
- Breadth Life Sciences (BLS) Course
  OR
- Breadth Physical Sciences (BPS) Course
  OR
- Breadth Social Sciences (BSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Breadth American Institutions (BAI) Course
  OR
- Breadth Creative Arts (BCA) Course
  OR
- Breadth Humanities (BHU) Course
  OR
- Breadth Life Sciences (BLS) Course
  OR
- Breadth Physical Sciences (BPS) Course
  OR
- Breadth Social Sciences (BSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	15	0

Requirement Select

- ENGL1010 - Writing as Inquiry (CL1)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- ENGL1410 - Elements of Grammar

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Breadth American Institutions (BAI) Course
  OR
- Breadth Creative Arts (BCA) Course
  OR
- Breadth Humanities (BHU) Course
  OR
- Breadth Life Sciences (BLS) Course
  OR
- Breadth Physical Sciences (BPS) Course
  OR
- Breadth Social Sciences (BSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Breadth American Institutions (BAI) Course
  OR
- Breadth Creative Arts (BCA) Course
  OR
- Breadth Humanities (BHU) Course
  OR
- Breadth Life Sciences (BLS) Course
  OR
- Breadth Physical Sciences (BPS) Course
  OR
- Breadth Social Sciences (BSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Breadth American Institutions (BAI) Course
  OR
- Breadth Creative Arts (BCA) Course
  OR
- Breadth Humanities (BHU) Course
  OR
- Breadth Life Sciences (BLS) Course
  OR
- Breadth Physical Sciences (BPS) Course
  OR
- Breadth Social Sciences (BSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	15	0

Requirement Select

- ENGL2010 - Research and Argument Across Perspectives (CL2)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- ENGL2600 - Literary Analysis

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- ENGL3430 - Poetry Writing

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Breadth American Institutions (BAI) Course
  OR
- Breadth Creative Arts (BCA) Course
  OR
- Breadth Humanities (BHU) Course
  OR
- Breadth Life Sciences (BLS) Course
  OR
- Breadth Physical Sciences (BPS) Course
  OR
- Breadth Social Sciences (BSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	15	0

Requirement Select

- ENGL3440 - Creative Nonfiction Writing

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- ENGL Literary Studies Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Breadth American Institutions (BAI) Course
  OR
- Breadth Creative Arts (BCA) Course
  OR
- Breadth Humanities (BHU) Course
  OR
- Breadth Life Sciences (BLS) Course
  OR
- Breadth Physical Sciences (BPS) Course
  OR
- Breadth Social Sciences (BSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Fall	15	0

Requirement Select
- ENGL3420 - Fiction Writing

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- ENGL Literary Studies Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Depth Social Sciences (DSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- ENGL Upper-Division Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Spring	15	0

Requirement Select
- ENGL4420 - Advanced Fiction Writing (CI)
  OR
- ENGL4430 - Advanced Poetry Writing (CI)
  OR
- ENGL4440 - Advanced Nonfiction Writing (CI)
  OR
- other Advanced Creative Writing Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- ENGL Literary Studies Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Quantitative Intensive (QI) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Fall	15	0

Requirement Select
- ENGL4420 - Advanced Fiction Writing (CI)

  OR
- ENGL4430 - Advanced Poetry Writing (CI)

  OR
- ENGL4440 - Advanced Nonfiction Writing (CI)

  OR
- other Advanced Creative Writing Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- ENGL5450 - Special Topics in Creative Writing

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Depth Life and Physical Sciences (DSC) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Spring	15	0

Requirement Select
- ENGL Literary Studies Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- ENGL Diversity Requirement or Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- ENGL4420 - Advanced Fiction Writing (CI)
  OR
- ENGL4430 - Advanced Poetry Writing (CI)
  OR
- ENGL4440 - Advanced Nonfiction Writing (CI)
  OR
- other Advanced Creative Writing Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Total General Education Credits	Total Major Credits
0	0
Total Minor Credits	**Total Elective Credits**

0	0

Program Learning Outcomes

Program Learning Outcomes

https://artsci.usu.edu/assessments/

English: Teaching Emphasis - BA, BS

Program Overview

College
College of Arts & Sciences

Department
English

Program Level
Undergraduate

About this Degree

With its small class sizes and nationally published faculty members, the English Department helps students develop skills in analysis, production, and understanding of texts in the English language. Students learn to write, think, and communicate effectively in a technologically and culturally complex world. Students develop skills in the areas most valued by employers, including critical thinking, teamwork, and oral and written communication, which will prepare them to enter into a wide range of career options.

Because the English Department is home to faculty that are heavily involved in research, students are provided with numerous opportunities to pursue undergraduate research projects and creative projects with individual attention from professors.

Students receive a degree by completing all required courses in the major. To receive a BA, students must also gain proficiency in one or more foreign languages.

English Teaching Emphasis: Students emphasizing in English teaching prepare to teach secondary level English in the public school system. Students take a wide range of literature, writing, and teaching courses that prepare them to teach language arts in secondary education classrooms.

- For more information about English Teaching Emphasis, see the Department of English website. As an English major with an emphasis in English Teaching, you will receive your BA/BS through the Department of English in the College of Humanities and Social Sciences.
- Teacher licensure is earned through the College of Education and Human Services.
- Admitted and current students must meet with an academic advisor.
- Log on to Degree Works to check student-specific program progress.
- The highest math requirement for this degree is Quantitative Literacy (QL) of the student's choice. STAT1040 INTRO TO STATISTICS (QL) or STAT1045 INTRO STAT WITH ALGEBRA (QL) or STAT1080 FOUNDATIONS OF DATA SCI (QL) is recommended.

Admission Requirements for this Program

- New freshmen must be admitted to USU in Good Standing.
- Transfer students from other institutions or other programs at USU: 2.5 GPA Overall, 2.5 GPA at USU, 3.0 GPA for STEP

Additional Information

- For language requirements for a Bachelor of Arts degree, please see Minimum University Requirements (Bachelor's Degree) for more details.
- In addition to the required Exploratory courses, students take 18 credits in literature courses in order to acquire an understanding of the traditional literary canon, literary diversity, and current theoretical approaches to understanding literature. Students take 16 credits in pedagogy to learn about curriculum, planning, instructional delivery, assessment, and related topics. ENGL3500 TEACHING ENGLISHand ENGL4520 TEACHING LITERACY require admission to the STEP program. Students also take three credits of linguistics coursework.
- To obtain professional licensure at graduation, students must fulfill the requirements of the Secondary Teacher Education Program (STEP) prescribed by the Secondary Education Program of the School of Teacher Education and Leadership (TEAL).
- This is for the English teaching emphasis only. To obtain a secondary teaching license for grades 6-12, students must complete the 35-credit Secondary Teacher Education Program (STEP), which includes one semester of student teaching in a public school. This program is administered by USU's School of Teacher Education and Leadership (TEAL) within the Emma Eccles Jones College of Education and Human Services. Students must apply to the School of TEAL the semester before taking STEP courses. This is usually the fall of their junior year. Students learn subject content through the English Department and spend the last year or two studying education techniques through the STEP program.

  Students in the English teaching program are required to select an approved teaching minor to expand their career options.

Program Requirements

Total Credits Required In Program Coursework
40 + 29 for STEP

Total Credits Required To Earn This Credential
120

Simple Requisites

Program Requirements

Minimum GPA for Graduation: 2.5 within major courses; 2.0 USU cumulative (3.0 USU cumulative required for admission to STEP); 2.5 career total (for licensure)

Minimum Grade Accepted: C (no pass/fail) in major courses; C in STEP courses

Credits in Residence: Students must complete 18 credits of major-applicable coursework at Utah State University.

Other Requirements: STEP (typically requires three semesters; see TEAL website and advisors for STEP advising) required for licensure.

English Department Requirements

Type
Completion Requirement

English Major Core (10 credits)

ENGL2000 DEG/CARREER PLNG FOR ENGL MJRS and ENGL2600 LITERARY ANALYSIS are required. Students may fulfill the remaining six credits by selecting one course from the Writing Core Requirement and one course from the Creative Writing Core Requirement listed below.

Fulfill ALL of the following requirements:

English Core requirements

Complete ALL of the following Courses:

- ENGL2000 - Degree and Career Planning for English Majors - 1cr.
- ENGL2600 - Literary Analysis - 3cr.

AND

Writing Core requirements

Complete at least 1 of the following courses:

- ENGL2010 - Research and Argument Across Perspectives

(CL2) - 3cr.
- ENGL2020 - Professional Communication (CL2) - 3cr.

AND

Creative Writing Core requirements

Complete at least 1 of the following courses:
- ENGL3320 - Resistance and Literature II - 3cr.
- ENGL3330 - Literary Theory - 3cr.
- ENGL3440 - Creative Nonfiction Writing - 3cr.

Emphasis Requirements

Fulfill ALL of the following requirements:

B. Literary History (9 credits)

Distribution: Among the literature courses selected there must be one course in either British or American Literature and one course that is either World or Contemporary Literature.

Fulfill ALL of the following requirements:

American or British Literature (3 credits)

Complete at least 1 of the following courses:
- ENGL3300 - Special Topics in Literary History - 3cr.
- ENGL3305 - Medieval Literary History - 3cr.
- ENGL3310 - Resistance and Literature I - 3cr.
- ENGL3315 - Early Modern British Literary History - 3cr.
- ENGL3320 - Resistance and Literature II - 3cr.
- ENGL3325 - Eighteenth-Century British Literary History - 3cr.
- ENGL3335 - Nineteenth-Century British Literary History - 3cr.
- ENGL3345 - Literary History of the British Isles Since 1900 - 3cr.
- ENGL3355 - Literary History of the Early Americas - 3cr.
- ENGL3365 - Nineteenth-Century American Literary History - 3cr.
- ENGL3375 - Literary History of the Americas Since 1900 - 3cr.
- ENGL3610 - Multicultural American Literature - 3cr.
- ENGL4370 - Native American Literature - 3cr.
- ENGL4375 - U.S. Latinx Literature - 3cr.
- ENGL4380 - African American Literature - 3cr.

AND

World or Contemporary Literature (3 credits)

Complete at least 1 of the following courses:
- ENGL3385 - Postcolonial World Literature - 3cr.
- ENGL3395 - World Literature in Translation - 3cr.
- ENGL4370 - Native American Literature - 3cr.
- ENGL4375 - U.S. Latinx Literature - 3cr.
- ENGL4380 - African American Literature - 3cr.
- ENGL4390 - Contemporary Literature (CI) - 3cr.

AND

Shakespeare Course (3 credits)

Complete ALL of the following Courses:
- ENGL4300 - Shakespeare - 3cr.

AND

C. English Teaching Courses (15 credits)

Complete ALL of the following Courses:
- ENGL3500 - Teaching English - 2cr.
- ENGL3510 - Teaching Young Adult Literature - 3cr.
- ENGL4500 - Teaching Writing (CI) - 3cr.
- ENGL4510 - Teaching Literature (CI) - 3cr.
- ENGL4520 - Teaching Literacy in English Language Arts Classrooms - 2cr.

AND

D. Linguistics Requirement (3 credits)

Complete at least 1 of the following courses:
- ENGL4200 - Linguistic Structures - 3cr.
- ENGL4210 - History of English: Change and Diversity - 3cr.

AND

E. Additional Literature Courses (3 credits)

Complete at least 1 of the following courses:
- ENGL3150 - Science Fiction (DHA) - 3cr.
- ENGL3140 - Introduction to LGBTQ+ Literature (DHA) - 3cr.
- ENGL3210 - Classical Mythology - 3cr.
- ENGL3230 - Young Adult Literature (DHA) - 3cr.
- ENGL3260 - Adapted: Page, Stage, Song, and Screen - 3cr.
- ENGL3270 - Funny Business (DHA) - 3cr.
- ENGL3280 - Graphic Novels - 3cr.
- ENGL3305 - Medieval Literary History - 3cr.
- ENGL3315 - Early Modern British Literary History - 3cr.
- ENGL3325 - Eighteenth-Century British Literary History - 3cr.
- ENGL3335 - Nineteenth-Century British Literary History - 3cr.
- ENGL3345 - Literary History of the British Isles Since 1900 - 3cr.
- ENGL3355 - Literary History of the Early Americas - 3cr.
- ENGL3365 - Nineteenth-Century American Literary History - 3cr.
- ENGL3375 - Literary History of the Americas Since 1900 - 3cr.
- ENGL3385 - Postcolonial World Literature - 3cr.
- ENGL3395 - World Literature in Translation - 3cr.
- ENGL3610 - Multicultural American Literature - 3cr.
- ENGL3620 - Native American Studies - 3cr.
- ENGL3630 - The Farm in Literature and Culture (CI/DHA) - 3cr.
- ENGL4310 - American Writers - 3cr.
- ENGL4320 - British Writers - 3cr.
- ENGL4330 - World Writers - 3cr.
- ENGL4340 - Studies in Fiction - 3cr.
- ENGL4345 - Studies in Nonfiction - 3cr.
- ENGL4350 - Studies in Poetry - 3cr.
- ENGL4360 - Studies in Drama - 3cr.
- ENGL4365 - Studies in Film - 3cr.
- ENGL4370 - Native American Literature - 3cr.
- ENGL4375 - U.S. Latinx Literature - 3cr.
- ENGL4380 - African American Literature - 3cr.
- ENGL4630 - Environmental Justice Literature - 3cr.

G. Secondary Teacher Education Program (STEP) (29 Credits)

English Teaching students must complete the STEP program to be eligible for graduation and to receive a license to teach in the public school system. The STEP program is administered through the Secondary Education Program of the School of TEAL, Emma Eccles Jones College of Education and Human Services. Students must be admitted to STEP before taking many STEP courses. Among the requirements for admission is a Criminal Background Check. While completing student teaching, students must pass the required PPAT assessment. STEP requirements are subject to change based on changes in state licensure. Students should meet with an advisor in the School of TEAL for further information regarding this program.

Fulfill ALL of the following requirements:

STEP Requirements

ITLS 2500 may be taken prior to STEP admission:

Complete ALL of the following Courses:

- ITLS2500 - Technology Enabled Instruction - 3cr.

AND

Additional Required Courses

Complete ALL of the following Courses:

- SCED3300 - Clinical Experience I - 1cr.
- SCED4300 - Clinical Experience II - 1cr.
- SCED5100 - Motivation and Classroom Management - 3cr.
- SCED5210 - Learning Theory, Curriculum, and Assessment - 3cr.
- SCED5500 - Student Teaching Seminar - 2cr.
- SCED5630 - Student Teaching in Secondary Schools - 10cr.

NOTE: Students are required to register for a clinical and a methods course together. See below for the suggested registration.

1. SCED3300 CLINICAL EXPERIENCE I - Students are encouraged to also register for ENGL3500 TEACHING ENGLISH.
2. SCED4300 CLINICAL EXPERIENCE II - Students are encouraged to also register for ENGL4520 TEACHING LITERACY.

Open Electives

Complete the following as needed:
Total elective credit is determined by General Education courses taken, degree type selected, additional credits earned, and any additional math or other prerequisite courses needed. Please consult your Academic Advisor for details.

Additional Comments:

Licensure Notification

This program typically leads to licensure and was designed to meet licensing qualifications in the state of Utah. If students wish to work in another state within the United States, they should review the qualifications for that state and the Education Licensure Compliance Table provided by School of Teacher Education and Leadership.

For more information, please contact the School of Teacher Education and Leadership at https://cehs.usu.edu/teal/.

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Bachelor's Degree)

Suggested Degree Maps

Degree Map Name
Suggested Degree Map - English: Teaching Emphasis BA, BS
Total Degree Map Credits
115 - 126
Degree Map Effective Catalog Year
2027 -

Degree Map Narrative

- Following is a sample four-year plan. Please note that student-specific plans may differ.
- Meet with an academic advisor to create a specific plan that best fits your academic needs.
- The student is ultimately responsible for knowing and completing all degree requirements.
- Make sure you meet the registration requirements for each class by clicking the course link and checking any prerequisites or corequisites.
- Consultation with an advisor may result in an altered plan customized for an individual student.
- Check your Degree Works for requirements and completion.

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	15 - 17	0

Requirement Select

- ENGL1010 - Writing as Inquiry (CL1)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Breadth Physical Sciences (BPS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Breadth Humanities (BHU) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Breadth American Institutions (BAI) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 5
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- ENGL2600 - Literary Analysis

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	16 - 18	0

Requirement Select

- Students should start background check and apply for admission to STEP program by March 1. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- ENGL2010 - Research and Argument Across Perspectives (CL2)

  OR

- ENGL2020 - Professional Communication (CL2)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- ENGL2000 - Degree and Career Planning for English Majors

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- ENGL3420 - Fiction Writing

  OR

- ENGL3430 - Poetry Writing

  OR

- ENGL3440 - Creative Nonfiction Writing

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Breadth Life Sciences (BLS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- STAT1040, 1045, or 1080 is recommended for QL (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- STAT1040 - Introduction to Statistics (QL)
  OR
- STAT1045 - Introduction to Statistics with Elements with Algebra (QL)
  OR
- STAT1080 - Foundations of Data Science (QL)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 5
Progress Credits	-
Contact Hours	3 - 5
Clinical	-
Criticality	No

Requirement Select

- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	15 - 16	0

Requirement Select

- ENGL 3500 and SCED 3300 requires admission to STEP program and must be taken together. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- ENGL3500 - Teaching English
- **AND** SCED3300 - Clinical Experience I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Breadth Creative Arts (BCA) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Breadth Social Sciences (BSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- American or British Literature course at 3300 level or higher (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- STEP Requirement: ITLS 2500 (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- ITLS2500 - Technology Enabled Instruction

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	15	0

Requirement Select
- World or Contemporary Literature Course at 3300 level or higher (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- ENGL3510 - Teaching Young Adult Literature

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- ENGL4200 - Linguistic Structures

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- STEP Requirement: SCED 3210 (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- SCED3210 - Educational and Multicultural Foundations (DSS/CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Fall	11 - 12	0

Requirement Select

- ENGL4500 - Teaching Writing (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Literature course (ENGL) at the 3300 level or higher (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Depth Life and Physical Sciences (DSC) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2 - 3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- STEP Requirement: SCED 5100 (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- SCED5100 - Motivation and Classroom Management

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Spring	15	0

Requirement Select

- ENGL4510 - Teaching Literature (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- ENGL4300 - Shakespeare

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- STEP Requirement: SPED 4000 (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- SPED4000 - Education of Students with Disabilities

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Fall	16 - 21	0

Requirement Select
- ENGL4520 - Teaching Literacy in English Language Arts Classrooms

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select
- SCED4300 - Clinical Experience II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- SCED5210 - Learning Theory, Curriculum, and Assessment

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Literature course (ENGL) at 3300-level or higher (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Quantitative Intensive (QI) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2 - 7
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Spring	12	0

Requirement Select

- SCED5500 - Student Teaching Seminar

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select

- SCED5630 - Student Teaching in Secondary Schools

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	10
Progress Credits	-
Contact Hours	10
Clinical	-
Criticality	No

Total General Education Credits	Total Major Credits
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Program Learning Outcomes

Program Learning Outcomes

https://artsci.usu.edu/assessments/

English: Literature Emphasis - BA, BS

Program Overview

College	Department	Program Level
College of Arts & Sciences	English	Undergraduate

About this Degree

With its small class sizes and nationally published faculty members, the English Department helps students develop skills in analysis, production, and understanding of texts in the English language. Students learn to write, think, and communicate effectively in a technologically and culturally complex world. Students develop skills in the areas most valued by employers, including critical thinking, teamwork, and oral and written communication, which will prepare them to enter into a wide range of career options.

Because the English Department is home to faculty that are heavily involved in research, students are provided with numerous opportunities to pursue undergraduate research projects and creative projects with individual attention from professors.

Students receive a by completing all required courses in the major. To receive a BA, students must also gain proficiency in one or more foreign languages.

Literature Emphasis: Literary studies students read, analyze, and research texts and writers in American, British, and other world literatures as well as their cultural contexts. Students in literary studies develop critical thinking and communication skills that prepare them for a variety of careers.

- For more information about English Teaching Composite: Literature, see the Department of English website.
- Admitted and current students must meet with an advisor.
- Log on to Degree Works to check student-specific program progress.
- The highest math requirement for this degree is Quantitative Literacy (QL) of the student's choice.

Additional Information

Students in this emphasis learn the value of literature as they practice important career skills: writing, speaking, researching, collaborating, and thinking critically.

Literature students learn to solve problems both logically and creatively, both independently and in teams. Graduates will thus be well prepared to pursue their individual goals in a wide variety of educational and professional paths, including (but not limited to) business and marketing, publishing, teaching, museum and library work, arts organizations, and in the law–in short, any field that requires strong communication skills, cultural awareness, and critical thinking. Literature graduates can also look forward to a lifetime of intellectual curiosity and cultural enrichment.

ENGL2600 LITERARY ANALYSIS: Teaches students to read closely, and appreciate literary art, draw connections between form and content, and make interpretive claims.

Students in 3000-level and 4000-level courses learn to draw connections between literature and its historical, cultural, social, and biographical contexts. These courses put texts in conversation with one another and with the conventions of different genres.

The emphasis includes six elective credits in English. Students may devote three of these credits to an internship that combines their academic skills with their professional interests.

Admission Requirements for this Program

- New freshmen must be admitted to USU in Good Standing.
- Transfer students from other institutions or other programs at USU: 2.5 GPA

Program Requirements

Total Credits Required In Program Coursework
40

Total Credits Required To Earn This Credential
120

Simple Requisites

Program Requirements

Minimum GPA for Graduation: 2.5 within major courses; 2.0 USU cumulative; 2.0 career total

Minimum Grade Accepted: C within major courses (no grades of pass/fail)

Credits in Residence: Students must complete 18 credits of major-applicable coursework at Utah State University.

English Department Requirements

Type
Completion Requirement

English Major Core (10 credits)

ENGL2000 DEG/CARREER PLNG FOR ENGL MJRS and ENGL2600 LITERARY ANALYSIS are required. Students must fill the remaining six credits by taking one course from the Writing Core Requirement and one course from the Creative Writing Core Requirement.

Fulfill ALL of the following requirements:

Core requirements

Complete ALL of the following Courses:

- ENGL2000 - Degree and Career Planning for English Majors - 1cr.
- ENGL2600 - Literary Analysis - 3cr.

AND

Writing Core requirements

Complete at least 1 of the following courses:

- ENGL2010 - Research and Argument Across Perspectives (CL2) - 3cr.
- ENGL2020 - Professional Communication (CL2) - 3cr.

AND

Creative Writing Core requirements

Complete at least 1 of the following courses:

- ENGL3320 - Resistance and Literature II - 3cr.
- ENGL3330 - Literary Theory - 3cr.
- ENGL3440 - Creative Nonfiction Writing - 3cr.

Emphasis Requirements (30 credits)

Type
Completion Requirement

B. Literature Courses (9 credits)

Select 3 courses (9 credits) from the following:

Fulfill ALL of the following requirements:

Courses Focused on Literature Before 1900

Complete at least 1 of the following courses:

- ENGL3305 - Medieval Literary History - 3cr.
- ENGL3310 - Resistance and Literature I - 3cr.
- ENGL3315 - Early Modern British Literary History - 3cr.
- ENGL3325 - Eighteenth-Century British Literary History - 3cr.
- ENGL3335 - Nineteenth-Century British Literary History - 3cr.
- ENGL3355 - Literary History of the Early Americas - 3cr.
- ENGL3365 - Nineteenth-Century American Literary History - 3cr.

AND

Courses Focused on Literature After 1900

Complete at least 1 of the following courses:

- ENGL3320 - Resistance and Literature II - 3cr.
- ENGL3345 - Literary History of the British Isles Since 1900 - 3cr.
- ENGL3375 - Literary History of the Americas Since 1900 - 3cr.
- ENGL3385 - Postcolonial World Literature - 3cr.
- ENGL4390 - Contemporary Literature (CI) - 3cr.

AND

Additional Literature Courses

The following courses may apply to either of the above requirements depending on course content, at the judgment of the advisor

Complete ANY of the following Courses:

- ENGL3300 - Special Topics in Literary History - 3cr.
- ENGL3395 - World Literature in Translation - 3cr.

C. Literature (12 credits)

Select four additional Literature courses at the 3000 or 4000 level. At least two of those courses must be selected from the 4000-level courses listed below; the remaining two can be selected from those or the 3000-level courses listed above.

Earn at least 12 credits from the following:

- ENGL3140 - Introduction to LGBTQ+ Literature (DHA) - 3cr.
- ENGL3150 - Science Fiction (DHA) - 3cr.
- ENGL3220 - Romance Novels (DHA) - 3cr.
- ENGL3250 - Travel the World through Literature and Writing (DHA) - 3cr.
- ENGL3260 - Adapted: Page, Stage, Song, and Screen - 3cr.
- ENGL3270 - Funny Business (DHA) - 3cr.
- ENGL3280 - Graphic Novels - 3cr.
- ENGL3630 - The Farm in Literature and Culture (CI/DHA) - 3cr.
- ENGL3640 - Nature Writing (DHA) - 3cr.
- ENGL4300 - Shakespeare - 3cr.
- ENGL4310 - American Writers - 3cr.
- ENGL4320 - British Writers - 3cr.
- ENGL4330 - World Writers - 3cr.
- ENGL4340 - Studies in Fiction - 3cr.
- ENGL4345 - Studies in Nonfiction - 3cr.
- ENGL4350 - Studies in Poetry - 3cr.
- ENGL4360 - Studies in Drama - 3cr.
- ENGL4365 - Studies in Film - 3cr.
- ENGL4370 - Native American Literature - 3cr.

- ENGL4375 - U.S. Latinx Literature - 3cr.
- ENGL4380 - African American Literature - 3cr.
- ENGL4390 - Contemporary Literature (CI) - 3cr.
- ENGL4630 - Environmental Justice Literature - 3cr.

E. Electives (9 credits)

Complete the following:
Select 9 elective credits from ENGL courses numbered 3000 and higher or TCR courses numbered 2000 and higher. Students may register for an internship for elective credit (ENGL 4900) that combines their academic skills with their professional interests and allows them to develop valuable workplace skills. This program allows up to three credits of internship. No more than three elective credits may be taken as ENGL4900 INTERN AND COOP EXPER.

Open Electives

Complete the following as needed:
Total elective credit is determined by General Education courses taken, degree type selected, additional credits earned, and any additional math or other prerequisite courses needed. Please consult your Academic Advisor for details.

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Bachelor's Degree)

Suggested Degree Maps

Degree Map Name
Suggested Degree Map - English: Literature Emphasis BA, BS
Total Degree Map Credits
117 - 119
Degree Map Effective Catalog Year
2027 -

Degree Map Narrative

- Following is a sample four-year plan. Please note that student-specific plans may differ.
- Meet with an academic advisor to create a specific plan that best fits your academic needs.
- The student is ultimately responsible for knowing and completing all degree requirements.
- Make sure you meet the registration requirements for each class by clicking the course link and checking any prerequisites or corequisites.
- Consultation with an advisor may result in an altered plan customized for an individual student.
- Check your Degree Works for requirements and completion.

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	15 - 17	0

Requirement Select
- ENGL1010 - Writing as Inquiry (CL1)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Breadth Physical Sciences (BPS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 5
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Breadth Humanities (BHU) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Breadth American Institutions (BAI) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- ENGL2600 - Literary Analysis

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	18	0

Requirement Select

- ENGL2010 - Research and Argument Across Perspectives (CL2)
  OR
- ENGL2020 - Professional Communication (CL2)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- ENGL2000 - Degree and Career Planning for English Majors

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- ENGL3420 - Fiction Writing
  OR
- ENGL3430 - Poetry Writing
  OR
- ENGL3440 - Creative Nonfiction Writing

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Breadth Life Sciences (BLS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Quantitative Literacy (QL) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	9	0

Requirement Select

- Pre-1900 Literature Course at 3300 level (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Literature course (ENGL) at 3300 level (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Post-1900 Literature Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Breadth Creative Arts (BCA) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Literature course (ENGL) at 3300 level or higher (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Breadth Social Sciences (BSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Depth Social Sciences (DSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	15	0

Requirement Select
- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Fall	15	0

Requirement Select
- Literature course (ENGL) at 4000-level (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Literature course (ENGL) at 3300-level (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Spring	15	0

Requirement Select
- Literature Course (ENGL) at 4000 level (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Depth Life and Physical Sciences (DSC) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Upper-Division Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Fall	15	0

Requirement Select
- Upper Division English Elective (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Literature course (ENGL) 3300-level or higher (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Upper-Division Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Communications Intensive (CI) Courses

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Spring	15	0

Requirement Select
- English Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Quantitative Intensive (QI) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Communications Intensive (CI) Courses

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Program Learning Outcomes

Program Learning Outcomes

https://artsci.usu.edu/assessments/

English - MA

Program Overview

College
College of Arts & Sciences

Department
English

Program Level
Graduate

About this Degree

The English Department at Utah State University offers a master's degree (MA or MS) that allows students to do advanced work in the fields of Literature, Culture, and Composition or in the field of Creative Writing. The aim is to professionalize students and to help them to become scholars and teachers of English. Any student with a strong undergraduate education in English or related fields and a desire to pursue that education further is welcome to pursue the master's degree in English. The degree caters directly to future Ph.D. students in English, future two-year college instructors, and secondary educators. For up-to-date information, including advice for submitting a competitive application, refer to the English Graduate Program web page. For more comprehensive information about graduate programs in the English Department, refer to the Graduate Program Handbook. To apply, go to the graduate school admission page.

Applicants will be admitted to either the specialization in Literature, Culture, and Composition (LCC) or the Specialization in Creative Writing (SCW). The GRE, MAT, or GMAT are not required to be considered for the English graduate program. Applicants need to have a minimum GPA of 3.00 on a 4.00 scale in the last 60 credits taken in order to be considered. International applicants from non-English-speaking countries should see the additional requirements described on the Graduate School Admissions Policies. Applications are due January 15th.

All coursework can be completed within the English Department. However, students may take one course outside the department if it is relevant to their Program of Study and they have received permission from both the DGS and their Supervisory Committee chair to take it.

The MA/MS in English is an on-campus degree.

Program Requirements

Total Credits Required In Program Coursework
30

Total Credits Required To Earn This Credential
30

Simple Requisites

Program Requirements

Graduate students are required to maintain at least a 3.0 GPA for degree-program courses. Grades lower than a B- will not be accepted for an English graduate degree.

The Program of Study for the English master's degree, if the student has a master's degree, must include at least 15 semester credits at the level of 6000 or above. Refer to degree requirements above for more information. To count toward degree requirements, courses numbered below 6000 must be approved by the Director of Graduate Studies and Supervisory Committee chair.

Credits in the following areas are not acceptable in a degree program: foreign languages (unless included in an approved Program of Study), continuing graduate advisement, individual home study, military science, and courses numbered below 5000.

A master's degree must be completed within six years of entering the degree program. Additional time may be requested by the student's committee and submitted to the Vice Provost of Graduate Studies for review.

Coursework over eight years old at the time of degree completion may not be used for a graduate degree unless it is revalidated.

Students may take a one-week ENGL summer credit workshop at the master's (6000) level with the approval of their supervisory committee; however, summer workshops are not covered by tuition waiver.

All English graduate students must successfully defend their thesis and submit the thesis to the library. An oral defense typically takes place in the last semester of study. For details on the thesis writing and defense process, refer to the Graduate Student Handbook.

An English graduate student writing a Plan A Thesis will also be required to complete the following academic forms during their time of study:

- Supervisory Committee
- Program of Study
- Thesis/Project Approval
- Appointment for Examination
- Record of Examination
- Format and Style
- Authorship and Copyright
- Possibly an Embargo Form
- SGS and library review and approval
- Other forms may be required; for details refer to the Graduate Student Handbook.

An English graduate student writing a Plan B Thesis will also be required to complete the following academic forms during their time of study:

- Supervisory Committee
- Program of Study
- Thesis/Project Approval
- Appointment for Examination
- Record of Examination
- Possibly an Embargo Form
- SGS and library review and approval
- Other forms may be required; for details refer to the Graduate Student Handbook.

Specialization in Literature, Culture, and Composition (LCC)

Type
Completion Requirement

Requirements

The MA in English with the specialization in Literature, Culture, and Composition (LCC) study subjects as varied as Nordic mythology, the influence of reggae in contemporary world literature, and agency in the teaching of composition. Students with a strong background and interest in critical thinking, reading, and writing are encouraged to apply.

In this specialization, students are required to take at least one course in each area—literature, culture, and composition—and concentrate in one area for their thesis, which they develop in collaboration with a faculty mentor and a thesis committee. In addition to traditional projects, students have written theses on the intersection of Harry Potter and social media, Star Wars as it moves from the screen to the page, and how race factors into writing instruction. The degree caters especially to those who plan to continue their studies by seeking a Ph.D. in English education, rhetoric and composition, literature, or cultural studies, as well as to future two-year college instructors and secondary educators.

Students are required to complete a minimum of 30 credits (including thesis credits) for the Master of Arts or the Master of Science degree.

Students' Program of Study should include at least one in-person course in each area: one Literature class (3 credits), one Culture class (3 credits), and one Composition class (3 credits). Courses may not be double-counted. For instance, American Literature and Culture can count for the "Literature" category requirement but not also for the "Culture" category requirement, even though the course is classified in both categories. The Practicum in Teaching English (a pedagogy class for new Graduate Instructors) does not count for the "Composition" category requirement.

Students must complete a thesis project. Most students complete a Plan B thesis project, a scholarly exploration of an applicable topic that may come in a variety of forms, such as a journal-length essay, a review of literature, a personal essay, or a combination of several forms (e.g., multimedia) that are the equivalent of 30–50 pages of writing. However, a predominantly creative work such as a collection of poems or a creative nonfiction essay, while acceptable in the Creative Writing specialization, would not be appropriate for the Plan B thesis in the LCC specialization.

Depending on their project, a student's Supervisory Committee chair may encourage them to do a Plan A project, a critical study of 50–100 pages in length that involves 3 additional credits of Thesis and one fewer seminar.

Students should take coursework that supports the topic of their thesis. For example, if they want to write a thesis on science fiction literature, they should take as many literature courses as possible.

Fulfill ANY of the following requirements:

Literature Courses

Courses with a central objective to examine literature, literary traditions, or literary criticism and theory:

Complete ANY of the following Courses:

- ENGL6320 - Literary Theory - 3cr.
- ENGL6330 - Topics in Literary Study - 3cr.
- ENGL6340 - British Literature and Culture - 3cr.
- ENGL6350 - American Literature and Culture - 3cr.
- ENGL6360 - World Literature and Culture - 3cr.

OR

Culture Courses

Courses with a central objective to examine the interactions of culture, identity, and power within the English field framework:

Complete ANY of the following Courses:

- ENGL6340 - British Literature and Culture - 3cr.
- ENGL6350 - American Literature and Culture - 3cr.
- ENGL6360 - World Literature and Culture - 3cr.
- ENGL6620 - Seminar in Native American Studies - 3cr.
- ENGL6840 - Multilingual Writing and Pedagogies - 3cr.
- ENGL6895 - Critical Rhetorics and Pedagogies - 3cr.

OR

Composition Courses

Courses with a central objective to examine composition& rhetorical theory and practice:

Complete ANY of the following Courses:

- ENGL6810 - Introduction to Composition Studies - 3cr.
- ENGL6815 - Writing Studies Research Methods - 3cr.
- ENGL6840 - Multilingual Writing and Pedagogies - 3cr.
- ENGL6890 - Studies in Writing and Rhetoric - 3cr.
- ENGL6895 - Critical Rhetorics and Pedagogies - 3cr.

Specialization in Creative Writing (SCW)

Type

Completion Requirement

MA in English with a Specialization in Creative Writing

The MA/MS in English with a Specialization in Creative Writing allows students to do advanced work in creative writing, concentrating on poetry, fiction, and/or creative nonfiction. Students with a strong background in creative writing who desire to continue on that path are encouraged to apply. In this specialization, students take creative-writing workshops in all three of the genres before concentrating on one genre for their thesis on which they work closely with a faculty member and their thesis committee. Hybrid theses that cross genre boundaries are also welcome. The aim of this specialization is to allow students additional time after their undergraduate work to hone their craft, continue their apprenticeship as a writer, complete a substantial body of work, and pursue publication. The degree caters especially to those who plan to continue their studies in creative writing by seeking a Ph. D. or MFA in creative writing, as well as to future two-year college instructors and secondary educators. For more details, refer to the Creative Writing Specialization.

Students should take graduate creative writing workshops in poetry, fiction, and nonfiction (one workshop per semester) as well as other coursework that supports their theses. For example, if students want to write a poetry thesis, they will benefit from enrolling in as many poetry-oriented literature courses as possible.

Complete at least 4 of the following courses:

- ENGL6880 - Topics in Creative Writing - 3cr.
- ENGL6882 - Fiction Writing Workshop - 3cr.
- ENGL6883 - Poetry Writing Workshop - 3cr.
- ENGL6884 - Creative Nonfiction Writing Workshop - 3cr.

Additional Requirements for MA Degree

Type

Completion Requirement

Additional Comments:

To obtain an MA (Master of Arts) degree, students must demonstrate proficiency in one or more foreign languages. Students in English must pass a language requirement in order to receive an MA degree. Without a foreign language, students will receive an MS (Master of Science).

The language requirement for the MA degree may be completed in the following ways:

Test: Pass a test of written and oral comprehension in an approved foreign language through the Department of World Languages and Cultures at Utah State University.

Coursework: Students may satisfy the requirement through one of the following forms of coursework:

- Demonstrate proficiency in one foreign language by successful completion of one course at the 2020 level or higher (or its equivalent)
- Demonstrate proficiency in two foreign languages by successful completion of the 1020 course level (or its equivalent) in one language and the 2020-level (or its equivalent) for the other

- Complete an upper-division (3000-level or higher or the equivalent) in a foreign language grammar or literature course requiring the 2020 level (or its equivalent) as a prerequisite. Note: Conversation courses do not satisfy this requirement.

Students who have earned a Bachelor of Arts degree or who have passed coursework in a foreign language within the past five years from the date of matriculation into the English graduate program may petition for acceptance of coursework to fulfill the language requirement for the MA degree. Please see the English Department's Director of Graduate Studies for more information.

Program Learning Outcomes

Program Learning Outcomes

https://www.usu.edu/oda/assessment/

English - MS

Program Overview

College
College of Arts & Sciences

Department
English

Program Level
Graduate

About this Degree

The English Department at Utah State University offers a master's degree (MA or MS) that allows students to do advanced work in the fields of Literature, Culture, and Composition or in the field of Creative Writing. The aim is to professionalize students and to help them to become scholars and teachers of English. Any student with a strong undergraduate education in English or related fields and a desire to pursue that education further is welcome to pursue the master's degree in English. The degree caters directly to future Ph.D. students in English, future two-year college instructors, and secondary educators. For up-to-date information, including advice for submitting a competitive application, refer to the English Graduate Program web page. For more comprehensive information about graduate programs in the English Department, refer to the Graduate Program Handbook. To apply, go to the graduate school admission page.

Applicants will be admitted to either the specialization in Literature, Culture, and Composition (LCC) or the Specialization in Creative Writing (SCW). The GRE, MAT, or GMAT are not required to be considered for the English graduate program. Applicants need to have a minimum GPA of 3.00 on a 4.00 scale in the last 60 credits taken in order to be considered. International applicants from non-English-speaking countries should see the additional requirements described on the Graduate School Admissions Policies. Applications are due January 15th.

All coursework can be completed within the English Department. However, students may take one course outside the department if it is relevant to their Program of Study and they have received permission from both the DGS and their Supervisory Committee chair to take it.

The MA/MS in English is an on-campus degree.

Program Requirements

Total Credits Required In Program Coursework
30

Total Credits Required To Earn This Credential
30

Simple Requisites

Program Requirements

Graduate students are required to maintain at least a 3.0 GPA for degree-program courses. Grades lower than a B- will not be accepted for an English graduate degree.

The Program of Study for the English master's degree, if the student has a master's degree, must include at least 18 semester credits at the level of 6000 or above. Refer to degree requirements for more information. To count toward degree requirements, courses numbered below 6000 must be approved by the Director of Graduate Studies and Supervisory Committee chair.

Credits in the following areas are not acceptable in a degree program: foreign languages (unless included in an approved Program of Study), continuing graduate advisement, individual home study, military science, and courses numbered below 5000. No more than 12 credits of 5000-level courses may be applied to a graduate program.

A master's degree must be completed within six years of entering the degree program. Additional time may be requested by the student's committee and submitted to the Vice Provost of Graduate Studies for review.

Coursework over eight years old at the time of degree completion may not be used for a graduate degree unless it is revalidated.

Students may take a one-week ENGL summer credit workshop at the master's (6000) level with the approval of their supervisory committee; however, summer workshops are not covered by tuition waiver.

All English graduate students must successfully defend their thesis and submit the thesis to the library. An oral defense typically takes place in the last semester of study. For details on the thesis writing and defense process, refer to the Graduate Student Handbook.

An English graduate student writing a Plan A Thesis will also be required to complete the following academic forms during their time of study:

- Supervisory Committee
- Program of Study
- Thesis/Project Approval
- Appointment for Examination
- Record of Examination
- Format and Style
- Authorship and Copyright
- Possibly an Embargo Form
- SGS and library review and approval
- Other forms may be required; for details refer to the Graduate Student Handbook.

An English graduate student writing a Plan B Thesis will also be required to complete the following academic forms during their time of study:

- Supervisory Committee
- Program of Study
- Thesis/Project Approval
- Appointment for Examination
- Record of Examination
- Possibly an Embargo Form
- SGS and library review and approval
- Other forms may be required; for details refer to the Graduate Student Handbook.

Specialization in Literature, Culture, and Composition (LCC)

Type
Completion Requirement

Requirements

The MS in English with the specialization in Literature, Culture, and Composition (LCC) study subjects as varied as Nordic mythology, the influence of reggae in contemporary world literature, and agency in the teaching of composition. Students with a strong background and interest in critical thinking, reading, and writing are encouraged to apply.

In this specialization, students are required to take at least one course in each area—literature, culture, and composition—and concentrate in one area for their thesis, which they develop in collaboration with a faculty mentor and a thesis committee. In addition to traditional projects, students have written theses on the intersection of Harry Potter and social media, Star Wars as it moves from the screen to the page, and how race factors into writing instruction. The degree caters especially to those who plan to continue their studies by seeking a Ph.D. in English education, rhetoric and composition, literature, or cultural studies, as well as to future two-year college instructors and secondary educators.

Students are required to complete a minimum of 30 credits (including thesis credits) for the Master of Arts or the Master of Science degree.

Students' Program of Study should include at least one in-person course in each area: one Literature class (3 credits), one Culture class (3 credits), and one Composition class (3 credits). Courses may not be double-counted. For instance, American Literature and Culture can count for the "Literature" category requirement but not also for the "Culture" category requirement, even though the course is classified in both categories. The Practicum in Teaching English (a pedagogy class for new Graduate Instructors) does not count for the "Composition" category requirement.

Students must complete a thesis project. Most students complete a Plan B thesis project, a scholarly exploration of an applicable topic that may come in a variety of forms, such as a journal-length essay, a review of literature, a personal essay, or a combination of several forms (e.g., multimedia) that are the equivalent of 30–50 pages of writing. However, a predominantly creative work such as a collection of poems or a creative nonfiction essay, while acceptable in the Creative Writing specialization, would not be appropriate for the Plan B thesis in the LCC specialization.

Depending on their project, a student's Supervisory Committee chair may encourage them to do a Plan A project, a critical study of 50–100 pages in length that involves 3 additional credits of Thesis and one fewer seminar.

Students should take coursework that supports the topic of their thesis. For example, if they want to write a thesis on science fiction literature, they should take as many literature courses as possible.

Fulfill ANY of the following requirements:

Literature Courses

Courses with a central objective to examine literature, literary traditions, or literary criticism and theory:

Complete ANY of the following Courses:

- ENGL6320 - Literary Theory - 3cr.
- ENGL6330 - Topics in Literary Study - 3cr.
- ENGL6340 - British Literature and Culture - 3cr.
- ENGL6350 - American Literature and Culture - 3cr.
- ENGL6360 - World Literature and Culture - 3cr.

OR

Culture Courses

Complete ANY of the following Courses:

- ENGL6340 - British Literature and Culture - 3cr.
- ENGL6350 - American Literature and Culture - 3cr.
- ENGL6360 - World Literature and Culture - 3cr.
- ENGL6620 - Seminar in Native American Studies - 3cr.
- ENGL6840 - Multilingual Writing and Pedagogies - 3cr.
- ENGL6895 - Critical Rhetorics and Pedagogies - 3cr.

OR

Composition Courses

Courses with a central objective to examine composition& rhetorical theory and practice:

Complete ANY of the following Courses:

- ENGL6810 - Introduction to Composition Studies - 3cr.
- ENGL6815 - Writing Studies Research Methods - 3cr.
- ENGL6840 - Multilingual Writing and Pedagogies - 3cr.
- ENGL6890 - Studies in Writing and Rhetoric - 3cr.
- ENGL6895 - Critical Rhetorics and Pedagogies - 3cr.

Specialization in Creative Writing (SCW)

Type
Completion Requirement

MS in English with a Specialization in Creative Writing

The MA/MS in English with a Specialization in Creative Writing allows students to do advanced work in creative writing, concentrating on poetry, fiction, and/or creative nonfiction. Students with a strong background in creative writing who desire to continue on that path are encouraged to apply. In this specialization, students take creative-writing workshops in all three of the genres before concentrating on one genre for their thesis on which they work closely with a faculty member and their thesis committee. Hybrid theses that cross genre boundaries are also welcome. The aim of this specialization is to allow students additional time after their undergraduate work to hone their craft, continue their apprenticeship as a writer, complete a substantial body of work, and pursue publication. The degree caters especially to those who plan to continue their studies in creative writing by seeking a PhD or MFA in creative writing, as well as to future two-year college instructors and secondary educators. For more details, refer to the Creative Writing Specialization.

Students should take graduate creative writing workshops in poetry, fiction, and nonfiction (one workshop per semester) as well as other coursework that supports their theses. For example, if students want to write a poetry thesis, they will benefit from enrolling in as many poetry-oriented literature courses as possible.

Complete at least 4 of the following courses:

- ENGL6880 - Topics in Creative Writing - 3cr.
- ENGL6882 - Fiction Writing Workshop - 3cr.
- ENGL6883 - Poetry Writing Workshop - 3cr.
- ENGL6884 - Creative Nonfiction Writing Workshop - 3cr.

Program Learning Outcomes

Program Learning Outcomes
https://www.usu.edu/oda/assessment/

English Teaching - Minor

Program Overview

College
College of Arts & Sciences

Department
English

Program Level
Undergraduate

Program Requirements

Total Credits Required In Program Coursework
30

Total Credits Required To Earn This Credential
30

Simple Requisites

Program Requirements

English Teaching minor students must meet and maintain a 2.5 GPA for admission and graduation. This minor is available only to students completing a teaching major. Students may not use the *P/D/F* option, and grades *C-* and below must be repeated.

Section 1

Type
Completion Requirement

Core Requirement (3 credits)

Complete ALL of the following Courses:

- ENGL2600 - Literary Analysis - 3cr.

Section 2

Type
Completion Requirement

Literature Courses (9 credits)

Fulfill ALL of the following requirements:

British Literary History courses:

Complete at least 1 of the following courses:

- ENGL3305 - Medieval Literary History - 3cr.
- ENGL3315 - Early Modern British Literary History - 3cr.
- ENGL3325 - Eighteenth-Century British Literary History - 3cr.
- ENGL3335 - Nineteenth-Century British Literary History - 3cr.
- ENGL3345 - Literary History of the British Isles Since 1900 - 3cr.

AND

American Literary History courses:

Complete at least 1 of the following courses:

- ENGL3355 - Literary History of the Early Americas - 3cr.
- ENGL3365 - Nineteenth-Century American Literary History - 3cr.
- ENGL3375 - Literary History of the Americas Since 1900 - 3cr.
- ENGL3610 - Multicultural American Literature - 3cr.
- ENGL3620 - Native American Studies - 3cr.
- ENGL4370 - Native American Literature - 3cr.

- ENGL4375 - U.S. Latinx Literature - 3cr.
- ENGL4380 - African American Literature - 3cr.

AND

World Literary History Courses

Complete at least 1 of the following courses:

- CLAS3210 - Classical Mythology - 3cr.
- ENGL3210 - Classical Mythology - 3cr.
- ENGL3385 - Postcolonial World Literature - 3cr.
- ENGL3395 - World Literature in Translation - 3cr.
- ENGL4330 - World Writers - 3cr.

Section 3

Type
Completion Requirement

Shakespeare Course (3 credits)

Complete ALL of the following Courses:

- ENGL4300 - Shakespeare - 3cr.

Section 4

Type
Completion Requirement

Writing Course (3 credits)

Complete at least 1 of the following courses:

- ENGL2160 - AI and Writing: Cultural and Historical Perspectives - 3cr.
- ENGL3180 - Writing for the Public - 3cr.
- ENGL3190 - Data Storytelling (CI) - 3cr.
- ENGL3160 - AI and Writing Across Disciplines (CI) - 3cr.
- ENGL3240 - Writing Family Stories (DHA) - 3cr.
- ENGL3420 - Fiction Writing - 3cr.
- ENGL3430 - Poetry Writing - 3cr.
- ENGL3440 - Creative Nonfiction Writing - 3cr.

Section 5

Type
Completion Requirement

English Teaching Courses (9 credits)

Complete ALL of the following Courses:

- ENGL3510 - Teaching Young Adult Literature - 3cr.
- ENGL4500 - Teaching Writing (CI) - 3cr.
- ENGL4510 - Teaching Literature (CI) - 3cr.

English Teaching Clinical Requirement (3 credits)

Students must be admitted to STEP before taking ENGL3500 TEACHING ENGLISH and ENGL4520 TEACHING LITERACY. ENGL3500 TEACHING ENGLISH and SCED3300 CLINICAL EXPERIENCE I must be taken together. ENGL4520 TEACHING LITERACY and SCED4300 CLINICAL EXPERIENCE II must be taken together. Students only need to complete one of these pairings for the English Teaching minor.

Complete ANY of the following Courses:

- ENGL4520 - Teaching Literacy in English Language Arts Classrooms - 2cr.
  AND SCED4300 - Clinical Experience II - 1cr.
- ENGL3500 - Teaching English - 2cr.
  AND SCED3300 - Clinical Experience I - 1cr.

Additional Comments:

Licensure Notification

This program typically leads to licensure and was designed to meet licensing qualifications in the state of Utah. If students wish to work in another state within the United States, they should review the qualifications for that state and the Education Licensure Compliance Table provided by School of Teacher Education and Leadership.

For more information, please contact the School of Teacher Education and Leadership at https://cehs.usu.edu/teal/.

Program Learning Outcomes

Program Learning Outcomes

https://chass.usu.edu/assessments/

Environmental Justice - Institutional Certificate of Proficiency

Program Overview

College
College of Arts & Sciences

Department
School of Social Sciences

Program Level
Undergraduate

About this Degree

This is a 9-credit micro certificate in Environmental Justice. Environmental justice approaches focus on fair and equitable outcomes and meaningful involvement and participation in processes of environmental decision-making. Environmental justice is intersectional and interdisciplinary and relates to inequality based on class, gender, race, ethnicity, Indigeneity, sexuality, disability, etc., and spans local to global scales. This micro certificate in Environmental Justice prepares students to understand and, if desired, support environmental justice efforts in their personal and professional lives.

Students learn about environmental justice theories, efforts, and case studies from the local to the global level and will gain a deeper understanding of the related processes of inequality. Students who complete this micro certificate are knowledgeable about and prepared to support environmental justice efforts in their communities and work in environmental justice-related fields, including government, nonprofit, and corporate positions.

Program Requirements

Total Credits Required In Program Coursework
9

Total Credits Required To Earn This Credential
9

Simple Requisites

Program Requirements

Required credits: 9

Maximum credits: 15

Required course: 1 (3 credits)

Elective courses: 2 (6 credits)

The micro certificate requires the completion of 9 credits with a grade of C or better, at least 50% of which must be completed at USU. Courses taken pass/fail will not count towards the micro certificate. Courses more than 10 years old will not count towards the micro certificate. To enroll in the micro certificate, students must have a GPA of 2.5 at USU and 2.5 overall. GPA required to earn the certificate is 2.25 in the courses applying toward the certificate.

This certificate must be attached to a bachelor's degree.

Environmental Justice - ICP

Type
Completion Requirement

Required course (3 credits)

Complete ALL of the following Courses:

- SOC3310 - Environmental Justice - 3cr.

Elective Courses (6 credits minimum)

Select one elective from Axes of Inequality Courses (3 credits minimum) and one elective from Social Change Courses (3 credits minimum).

Fulfill ALL of the following requirements:

Course options for Axes of Inequality

Complete at least 1 of the following courses:

- CJ4200 - Criminal Justice Ethics - 3cr.
- CJ4440 - The Origins of the United States Criminal Justice System (DSS) - 3cr.
- SOC2370 - Sociology of Gender (BSS) - 3cr.
- SOC2630 - Sociology of Race and Ethnicity (BSS) - 3cr.
- SOC2650 - Globalization and International Development (BSS) - 3cr.
- SOC3010 - Social Inequality (DSS) - 3cr.
- SOC3330 - Medical Sociology (DSS) - 3cr.
- SOC3520 - Sociology of Mental Illness - 3cr.
- SOC3610 - Rural People and Places (DSS) - 3cr.
- SOC3750 - Sociology of Aging (DSS) - 3cr.
- SOC4410 - Race and Crime (CI) - 3cr.

AND

Course options for Social Change

Complete at least 1 of the following courses:

- CJ3400 - Tribal Criminal Justice Systems - 3cr.
- CMST3280 - Organizations and Social Change - 3cr.
- CMST4260 - Environmental Communication - 3cr.
- ENVS3010 - Natural Resource and Environmental Policy - 3cr.
- ENVS4030 - Building Community Environmental Resilience - 3cr.
- ENVS6030 - Building Community Environmental Resilience - 3cr.
- GEOG3100 - Human-Environment Geography (CI) - 3cr.
- GEOG4120 - Environment and Development in Latin America (CI) - 3cr.
- GEOG5400 - Natural Hazards and Society - 3cr.
- POLS3400 - United States Foreign Policy (DSS) - 3cr.
- POLS4410 - International Negotiations - 3cr.
- SOC2650 - Globalization and International Development (BSS) - 3cr.
- SOC3300 - Sociology of Climate Change - 3cr.
- SOC3340 - Activism, Protest, and Social Movements (DSS) - 3cr.
- SOC3600 - Finding Community in Today's Society (DSS) - 3cr.
- SOC6640 - Multispecies Justice and Indigenous Environmentalisms - 3cr.
- SOC6620 - Environment, Technology, and Social Change - 3cr.
- TCR4220 - Technology and Activism - 3cr.

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Undergraduate Academic or Technical Certificates)

Program Learning Outcomes

Program Learning Outcomes

https://chass.usu.edu/assessments/

Environmental Planning - Minor

Program Overview

College
College of Agriculture & Natural Resources

Department
Landscape Architecture & Environmental Planning

Program Level
Undergraduate

About this Degree
The primary goal of the Environmental Planning minor is to provide students with a strong professional education in the core principles of environmental planning.

Program Requirements

Total Credits Required In Program Coursework
16

Total Credits Required To Earn This Credential
16

Simple Requisites

Program Requirements

Section 1

Type
Completion Requirement

Required Courses (10 credits)

Complete ALL of the following Courses:

- LAEP1040 - Introduction to Environmental Planning and Sustainable Development (BLS) - 3cr.
- LAEP5300 - GIS for Environmental Planning - 4cr.
- LAEP5380 - Planning Methods - 3cr.

Elective Courses (6 credits)

Earn at least 6 credits from the following:

- APEC3012 - Introduction to Natural Resource Economics (DSS) - 3cr.
- CMST4260 - Environmental Communication - 3cr.
- ENVS3010 - Natural Resource and Environmental Policy - 3cr.
- ENVS4020 - Foundations of Environmental Thought (DHA/CI) - 3cr.
- LAEP5370 - City and Regional Planning (CI) - 3cr.
- LAEP6750 - Implementation and Regulatory Techniques in Planning - 3cr.
- PHIL3530 - Environmental Ethics (DHA) - 3cr.
- PSC4810 - Climate and Climate Change (DSC)(QI) - 3cr.
- SOC4620 - Sociology of the Environment and Natural Resources (DSS) - 3cr.

Program Learning Outcomes

Program Learning Outcomes
https://caas.usu.edu/laep/assessment/

Environmental Planning - BS

Program Overview

College
College of Agriculture & Natural Resources

Department
Landscape Architecture & Environmental Planning

Program Level
Undergraduate

About this Degree
The Bachelor of Science in Environmental Planning prepares future professionals to recognize the reciprocal relationship between the biophysical attributes of a region and the human dimensions of settlement and culture; build expertise in large-scale landscape level analysis and planning, and serve as leaders within a transdisciplinary environment to develop better alternatives for land-use decisions and policy.

The program produces highly skilled environmental planners for multiple levels of professional practice while actively engaging and benefitting communities with landscape-scale planning projects.

- For more information about Environmental Planning, see the website.
- Please note that LAEP students have specific computer requirements.
- Admitted and current students must meet with an academic advisor.
- Log on to Degree Works to check student-specific program progress.
- The highest Math Requirement for this degree is: MATH1100 CALCULUS TECHNIQUES (QL) and STAT1040 INTRO TO STATISTICS (QL) or STAT2000 STATISTICAL METHODS (QI)

Admission Requirements for this Program
- New freshmen: Admitted to USU in Good Standing
- Transfer students from other institutions or other programs at USU: 2.50 GPA

Program Requirements

Total Credits Required In Program Coursework
77

Total Credits Required To Earn This Credential
120

Simple Requisites

Program Requirements

A minimum overall GPA of 3.0 is required in LAEP-prefix courses, with no individual LAEP-prefix course grade less than a C-. No pass/fail grades are accepted to fulfill LAEP-prefix courses. A minimum USU overall GPA of 2.5 is required for all other courses used to fulfill major requirements.

All general education requirements set forth by the University are to be met. Some of the core Environmental Planning coursework fulfills General Education Requirements, such as BLS, BAI, QI, and CI requirements, while 15 credits of other general education courses are not. Students should consult with their Academic Advisor and make a plan to complete all general education requirements.

Required Courses (77 credits)

Type
Completion Requirement

Environmental Planning Core (38 credits)

Complete ALL of the following Courses:

- LAEP1040 - Introduction to Environmental Planning and Sustainable Development (BLS) - 3cr.
- LAEP1300 - Digital Drafting, Illustration, and Modeling - 3cr.
- LAEP5200 - Bioregional Analysis and Planning - 5cr.
- LAEP2700 - Analysis Design I - 5cr.
- LAEP5210 - Bioregional Management and Policy - 5cr.
- LAEP5300 - GIS for Environmental Planning - 4cr.
- LAEP5370 - City and Regional Planning (CI) - 3cr.
- LAEP5380 - Planning Methods - 3cr.
- LAEP5400 - Advanced Geospatial Analysis and Visualization for Environmental Planning - 4cr.
- LAEP6750 - Implementation and Regulatory Techniques in Planning - 3cr.

Economic Development Core (15 credits)

Complete ALL of the following Courses:

- APEC1600 - Natural Resources and American Economic Institutions (BAI) - 3cr.
  OR ECON2020 - Introduction to Macroeconomics (BAI) - 3cr.
- APEC2010 - Introduction to Microeconomics (BSS) - 3cr.
  OR ECON2010 - Introduction to Microeconomics (BSS) - 3cr.
- APEC5560 - Natural Resource and Environmental Economics - 3cr.
- APEC5700 - Regional and Community Economic Development - 3cr.
- APEC5950 - Applied Economics Policy Analysis - 3cr.

Natural Resources (9 credits)

Complete ALL of the following Courses:

- ENVS3010 - Natural Resource and Environmental Policy - 3cr.
- ENVS4020 - Foundations of Environmental Thought (DHA/CI) - 3cr.
  OR PHIL3530 - Environmental Ethics (DHA) - 3cr.
- GEO3100 - Natural Disasters (DSC) - 3cr.
  OR GEO3000 - Epic Earth - Geoscience of National Parks (DSC) - 3cr.
  OR PSC3100 - Soils and Civilization (DSC) - 3cr.
  OR ENVS3600 - Living with Wildlife (DSC) - 3cr.
  OR PSC5760 - Climate and Climate Change (DSC)(QI) - 3cr.

Other (15 credits)

Complete ALL of the following Courses:

- DATA2100 - Data and Information in Business - 3cr.
- MATH1170 - Modeling Change: Calculus in Life and Society - 4cr.
- SOC3610 - Rural People and Places (DSS) - 3cr.
  OR SOC4620 - Sociology of the Environment and Natural Resources (DSS) - 3cr.
  OR ANTH5650 - Developing Societies (DSS) - 3cr.
  OR ENVS4000 - Human Dimensions of Natural Resource Management (DSS) - 3cr.
  OR POLS4820 - Natural Resources and Environmental Policy: Political Economy of Environmental Quality (DSS) - 3cr.
- STAT1040 - Introduction to Statistics (QL) - 3cr.
  OR STAT1080 - Foundations of Data Science (QL) - 3cr.
  OR STAT2000 - Statistical Methods (QI) - 4cr.
- LAEP4910 - Foundations of Business in Design and Planning (CI) - 3cr.

See below

Optional Elective Courses (27 credits)

In addition to the core coursework required to develop the professional skills and competency to practice Environmental Planning, the degree program is structured to provide students with opportunities to differentiate themselves in the professional marketplace according to their interests and aptitudes. Students seeking a Bachelor of Science in Environmental Planning degree should complete a Certificate of Proficiency or Minor. The following are suggested LAEP certificates and minors which may be completed within the 120 credit requirement for the degree:

- Advanced Design, Geospatial, and Visualization Technologies
- Design Entrepreneurship
- Digital Modeling and Visualization
- Landscape Architecture - Minor
- Sustainable Systems – Minor

Other certificates and minors may potentially be completed within the 120 credit requirement for the degree, including:

- Environmental Justice
- Social Dimensions of Climate Change
- Social Dimensions of Climate Change and Environmental Justice - Minor
- Climate Change Solutions
- Anticipatory Intelligence – Minor
- Community Development Economics – Minor
- Environmental and Natural Resource Economics – Minor
- Geographic Information Science – Minor or applied Certificate

Students seeking an alternate Certificate of Proficiency or Minor from the USU Catalog should consult with their Academic Advisor to declare a certificate or minor and make a plan to complete all degree requirements without extending beyond the 120 credits required to earn the Bachelor of Science in Environmental Planning degree.

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Bachelor's Degree)

Suggested Degree Maps

Degree Map Name
Suggested Degree Map - Environmental Planning, BS
Total Degree Map Credits
117 - 122
Degree Map Effective Catalog Year
2027 -

Degree Map Narrative

- Following is a sample four-year plan. Please note that student-specific plans may differ.
- Meet with an academic advisor to create a specific plan that best fits your academic needs.

- The student is ultimately responsible for knowing and completing all degree requirements.
- Make sure you meet the registration requirements for each class by clicking the course link and checking any prerequisites or corequisites.
- Consultation with an advisor may result in an altered plan customized for an individual student.
- Check your Degree Works for requirements and completion.

Suggested electives listed above are recommended to fulfill General Elective courses

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	15	0

Requirement Select
- ENGL1010 - Writing as Inquiry (CL1)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- LAEP1040 - Introduction to Environmental Planning and Sustainable Development (BLS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Breadth Creative Arts (BCA) Course

Course Requirement Group	
Course Requirement Group (Free Text)	CIVC 1610 Design Thinking (BCA) recommended
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- General Elective course (6 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	13 - 17	0

Requirement Select
- APEC1600 - Natural Resources and American Economic Institutions (BAI)

  OR
- ECON2020 - Introduction to Macroeconomics (BAI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- LAEP1300 - Digital Drafting, Illustration, and Modeling

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- MATH1170 - Modeling Change: Calculus in Life and Society

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- Breadth Physical Sciences (BPS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	0 - 4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- General Elective course (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- PSC2010 recommended to fulfill the BPS requirement (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	14	0

Requirement Select
- APEC2010 - Introduction to Microeconomics (BSS)

OR
- ECON2010 - Introduction to Microeconomics (BSS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- ENGL2010 - Research and Argument Across Perspectives (CL2)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- LAEP2700 - Analysis Design I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	5
Progress Credits	-
Contact Hours	5
Clinical	-
Criticality	No

Requirement Select
- DATA2100 - Data and Information in Business

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	15 - 16	0

Requirement Select
- STAT1040 - Introduction to Statistics (QL)

OR
- STAT1080 - Foundations of Data Science (QL)

OR
- STAT2000 - Statistical Methods (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 4
Progress Credits	-
Contact Hours	3 - 4
Clinical	-
Criticality	No

Requirement Select

- ENVS3010 - Natural Resource and Environmental Policy

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Breadth Humanities (BHU) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- General Elective courses (6 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- CMST1020 is recommended to fulfill the BHU requirement (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Fall	16	0

Requirement Select

- APEC5700 - Regional and Community Economic Development

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- LAEP5300 - GIS for Environmental Planning

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- LAEP5370 - City and Regional Planning (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- General Elective courses (6 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Spring	16	0

Requirement Select

- LAEP4910 - Foundations of Business in Design and Planning (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- LAEP5380 - Planning Methods

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- LAEP5400 - Advanced Geospatial Analysis and Visualization for Environmental Planning

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- SOC3610 - Rural People and Places (DSS)
  OR
- SOC4620 - Sociology of the Environment and Natural Resources (DSS)
  OR
- ANTH5650 - Developing Societies (DSS)
  OR
- ENVS4000 - Human Dimensions of Natural Resource Management (DSS)
  OR
- POLS4820 - Natural Resources and Environmental Policy: Political Economy of Environmental Quality (DSS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- General Elective course (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Fall	14	0

Requirement Select

- LAEP5200 - Bioregional Analysis and Planning

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	5
Progress Credits	-
Contact Hours	5
Clinical	-
Criticality	No

Requirement Select

- PHIL3530 - Environmental Ethics (DHA)
  OR
- ENVS4020 - Foundations of Environmental Thought (DHA/CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- GEO3000 - Epic Earth - Geoscience of National Parks (DSC)
  OR
- GEO3100 - Natural Disasters (DSC)
  OR
- PSC3100 - Soils and Civilization (DSC)
  OR
- PSC4810 - Climate and Climate Change (DSC)(QI)
  OR
- ENVS3600 - Living with Wildlife (DSC)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- General Elective course (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Advisor approval is needed for LAEP5200 (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Spring	14	0

Requirement Select

- APEC5560 - Natural Resource and Environmental Economics

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- APEC5950 - Applied Economics Policy Analysis

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- LAEP5210 - Bioregional Management and Policy

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	5
Progress Credits	-
Contact Hours	5
Clinical	-
Criticality	No

Requirement Select

- LAEP6750 - Implementation and Regulatory Techniques in Planning

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Advisor approval is needed for LAEP5210 (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Program Learning Outcomes

Program Learning Outcomes

https://www.usu.edu/oda/assessment/

Environmental Planning - Institutional Certificate of Proficiency

Program Overview

College	Department	Program Level
College of Agriculture & Natural Resources	Landscape Architecture & Environmental Planning	Undergraduate

About this Degree

The Certificate in Environmental Planning at Utah State University (USU) provides students with an introductory professional education in the core principles of environmental planning. The Certificate in Environmental Planning complements multiple majors within USU by offering a planning component through professional education in the core principles of environmental planning. Students benefit by earning a directly applicable credential to be more competitive in the marketplace.

Program Requirements

Total Credits Required In Program Coursework	Total Credits Required To Earn This Credential
16	16

Simple Requisites

Program Requirements

A minimum overall GPA of 3.0 is required in LAEP-prefix courses, with no individual LAEP-prefix course grade less than a C-. No pass/fail grades are accepted to fulfill LAEP-prefix courses. A minimum USU overall GPA of 2.5 is required for all other courses used to fulfill certificate requirements.

Section 1

Type
Completion Requirement

Required Environmental Planning Professional Foundation Courses (10 credits)

Complete ALL of the following Courses:

- LAEP1040 - Introduction to Environmental Planning and Sustainable Development (BLS) - 3cr.
- LAEP5300 - GIS for Environmental Planning - 4cr.
- LAEP5380 - Planning Methods - 3cr.

Section 2

Type
Completion Requirement

Elective Courses (6 credits minimum)

Complete ALL of the following Courses:

- APEC3012 - Introduction to Natural Resource Economics (DSS) - 3cr.
- CMST4260 - Environmental Communication - 3cr.
- ENVS3010 - Natural Resource and Environmental Policy - 3cr.
- ENVS4020 - Foundations of Environmental Thought (DHA/CI) - 3cr.
- LAEP5370 - City and Regional Planning (CI) - 3cr.
- LAEP6750 - Implementation and Regulatory Techniques in Planning - 3cr.
- PHIL3530 - Environmental Ethics (DHA) - 3cr.
- SOC4620 - Sociology of the Environment and Natural

Resources (DSS) - 3cr.
- PSC5760 - Climate and Climate Change (DSC)(QI) - 3cr.

Program Learning Outcomes

Program Learning Outcomes
https://caas.usu.edu/laep/assessment/

Environmental Planning - MS

Program Overview

College
College of Agriculture & Natural Resources

Department
Landscape Architecture & Environmental Planning

Program Level
Graduate

About this Degree
Informed planning and management of natural resources and systems supersede individual disciplines, requiring an interdisciplinary approach for the successful resolution of environmental issues. The intent of this program's curriculum is to integrate the biophysical disciplines more closely while also addressing the social and political sciences. This degree program is offered by the Department of Landscape Architecture and Environmental Planning in the College of Agriculture and Applied Sciences.

Program Requirements

Total Credits Required In Program Coursework
42

Total Credits Required To Earn This Credential
42

Simple Requisites

Program Requirements

This two-year MS program is comprised of an interdisciplinary core of courses and faculty for addressing complex issues in the areas of bioregional planning and management. Emphasis is placed on four problematic content areas: biophysical, social/demographic, economic, and public policy. The spatial focus is on planning for large landscape areas with dispersed populations with a primary economic base in agriculture, energy development, tourism/ recreation, communities, and natural resources.

The program requires a minimum of 42 graduate-level credits, including eight credits of work on a thesis or paper/project. Six of the required credits are electives in an area of concentration. These credits are to be negotiated with the candidate's major professor and supervisory committee. Requirements for the MS in Environmental Planning are as follows:

Required Courses

Type
Completion Requirement

LAEP Courses (28 credits)

Complete ALL of the following Courses:
- LAEP5380 - Planning Methods - 3cr.
- LAEP6110 - Landscape Ecology for Planning - 3cr.
- LAEP6200 - Bioregional Analysis and Planning - 5cr.
- LAEP6210 - Bioregional Management and Policy - 5cr.
- LAEP6300 - GIS for Environmental Planning - 4cr.
- LAEP6740 - Planning Theory and Implementation Issues - 3cr.
- LAEP6750 - Implementation and Regulatory Techniques in Planning - 3cr.
- LAEP6860 - Faculty/Interdisciplinary Seminar I - 1cr.
- LAEP6930 - Readings in Environmental Planning - 1cr.

Thesis (8 credits)

A Plan A thesis or Plan B paper/project option is required and is to be negotiated with the candidate, major professor, and supervisory committee. Every graduate student is required to complete 2 credits of

LAEP6970 THESIS RESEARCH and an additional 3 credits of LAEP6970 THESIS RESEARCH **or** 3 credits in LAEP6960 MASTER'S PROJECT depending on plan type.

Complete ALL of the following Courses:

- LAEP6880 - Landscape Architecture Research Methods - 2cr.
- LAEP6890 - Seminar on Thesis Proposals and Procedures - 1cr.
- LAEP6970 - Thesis Research - 1cr.

all students must complete 2 credits in LAEP6970 THESIS RESEARCH

Plan A Thesis

Earn at least 3 credits from the following:

- LAEP6970 - Thesis Research - 1cr.

Plan B Thesis

Earn at least 3 credits from the following:

- LAEP6960 - Master's Project - 1cr.

Elective Courses (6 credits)

The following are suggested electives:

Complete ANY of the following Courses:

- ENVS6310 - Introduction to Environmental Laws and Policy - 3cr.
- LAEP6160 - Foundations of Business in Design and Planning - 3cr.
- LAEP6400 - Advanced Geospatial Analysis and Visualization for Environmental Planning - 3cr.

Program Learning Outcomes

Program Learning Outcomes

https://qcnr.usu.edu/envs/about/assessment

Environmental and Natural Resource Economics - Minor

Program Overview

College
College of Agriculture & Natural Resources

Department
Applied Economics

Program Level
Undergraduate

Program Requirements

Total Credits Required To Earn This Credential

15

Simple Requisites

Program Requirements

To graduate with a minor in Environmental and Natural Resource Economics, a student must have an overall GPA of 2.5 or higher.

Section 1

Type
Completion Requirement

A minimum of 9 credits of Applied Economics courses must be taken, including the following courses:

Complete ALL of the following Courses:

- APEC2010 - Introduction to Microeconomics (BSS) - 3cr.
- APEC3012 - Introduction to Natural Resource Economics (DSS) - 3cr.
- APEC5560 - Natural Resource and Environmental Economics - 3cr.

Select the balance of credits from the following courses:

Complete ANY of the following Courses:

- APEC5700 - Regional and Community Economic Development - 3cr.
- ENVS3010 - Natural Resource and Environmental Policy - 3cr.
- ENVS3500 - Environmental Data Science (QI) - 3cr.
- SOC3610 - Rural People and Places (DSS) - 3cr.
- SOC4620 - Sociology of the Environment and Natural Resources (DSS) - 3cr.
- SOC5640 - Managing Community Conflict (CI) - 3cr.
- WILD4000 - Principles of Rangeland Management - 3cr.

Program Learning Outcomes

Program Learning Outcomes

https://caas.usu.edu/psc/assessment

Environmental and Natural Resource Law and Policy - Certificate

Program Overview

College
College of Agriculture & Natural Resources

Department
Environment & Society

Program Level
Undergraduate

About this Degree

The Undergraduate Certificate in Environmental and Natural Resource Law and Policy provides students with (1) a broad introduction to, and overview of, environmental and natural resource law and policy and associated processes, including existing legal and policy structures and frameworks; and (2) additional law and policy knowledge and policy analysis skills based on student selection among complementary courses offered at Utah State University. Adding the certificate on to a major in various different fields can provide valuable skills and knowledge, including for jobs and careers in natural resources, the environment, agriculture, community and city planning, business, law, and public policy, among others. Certificate completion also can assist students in preparation for an advanced professional degree in law.

Admission Requirements for this Program

To be admitted to this program, students must be pursuing BS or BA degree at Utah State University. Students should make an appointment with an academic advisor in the S. J. and Jessie E. Quinney College of Agriculture and Natural Resources to add this certificate: https://qanr.usu.edu/advising/.

Program Requirements

Total Credits Required In Program Coursework
9

Total Credits Required To Earn This Credential
9

Simple Requisites

Program Requirements

Required program coursework consists of 9 total credits, most commonly taken as three 3-credit courses.

Environmental and Natural Resource Law and Policy - Certificate (9 credits)

Type
Completion Requirement

Certificate Core

Complete ALL of the following Courses:

- ENVS3010 - Natural Resource and Environmental Policy - 3cr.

Certificate Electives

Complete at least 2 of the following courses:

- APEC1600 - Natural Resources and American Economic Institutions (BAI) - 3cr.
- APEC2900 - Agricultural and Natural Resource Law - 3cr.
- ENVS5320 - Water Law and Policy in the United States - 3cr.
- POLS4820 - Natural Resources and Environmental Policy: Political Economy of Environmental Quality (DSS) - 3cr.

Students can propose other appropriate courses for potential approval by the Department to meet the electives requirements, including internship experiences or directed projects completed with academic credit.

Program Learning Outcomes

Program Learning Outcomes

Upon completing this certificate, students will be able to:

1. Demonstrate a basic understanding of environmental and natural resource law and policy processes and outcomes.
2. Demonstrate expanded understanding of environmental or natural resource policy from multidisciplinary and/or specific application area perspectives.

Environmental Studies - Minor

Program Overview

College
College of Agriculture & Natural Resources

Department
Environment & Society

Program Level
Undergraduate

Program Requirements

Total Credits Required In Program Coursework
18

Total Credits Required To Earn This Credential
18

Simple Requisites

Program Requirements

The Environmental Studies minor is open to all majors. All courses required for the minor must be taken on an *A-B-C-D-F* basis. A grade of *C-* or better is required for all courses taken to meet the requirements for the minor. The grade point average for all courses with ENVS, GEOG, WATS, or WILD prefixes must be a 2.5 or higher.

Students should make an appointment with an academic advisor in the S.J. and Jessie E. Quinney College of Agriculture and Natural Resources to add this minor: qanr.usu.edu/advising/.

Minor Core

Type
Completion Requirement

Required Courses (12 credits)

Complete ALL of the following Courses:

- ENVS1350 - Introduction to Environmental Science (BLS) - 3cr.
- ENVS2340 - Environment, Natural Resources, and Society (BSS) - 3cr.
- ENVS3010 - Natural Resource and Environmental Policy - 3cr.
- WILD2200 - Ecology of Our Changing World (BLS) - 3cr. **OR** WATS2220 - General Ecology - 3cr.

Minor Electives

Type
Completion Requirement

Electives (6 credits)

Complete at least 2 of the following courses:

- APEC3012 - Introduction to Natural Resource Economics (DSS) - 3cr.
- ENVS3300 - Fundamentals of Natural Resource Recreation Management - 3cr.
- ENVS3320 - Archaeology of Climate Change (DSS) - 3cr.
- ENVS3400 - Fundamentals of Tourism - 3cr.
- ENVS3500 - Environmental Data Science (QI) - 3cr.
- ENVS3600 - Living with Wildlife (DSC) - 3cr.
- ENVS4000 - Human Dimensions of Natural Resource Management (DSS) - 3cr.
- ENVS4020 - Foundations of Environmental Thought (DHA/CI) - 3cr.
- ENVS4030 - Building Community Environmental Resilience - 3cr.
- ENVS4130 - Natural Resource Recreation Policy and Planning - 3cr.
- ENVS4200 - Sustainability Metrics - 3cr.
- ENVS4250 - Advanced Internship/Co-op - 1cr.
- ENVS4500 - Advanced Natural Resource Recreation Management (CI) - 3cr.
- ENVS4700 - Communicating Sustainability (CI) - 3cr.
- ENVS4950 - Special Topics - 1cr.
- ENVS4960 - Directed Readings - 1cr.
- ENVS5000 - Environmental Nonprofit and Volunteer Management - 3cr.
- ENVS5020 - Human Dimensions of Fire Management - 3cr.
- ENVS5100 - Introduction to Modeling Human-Environment Systems - 3cr.
- ENVS5200 - Anthropological Perspectives on Conservation - 3cr.
- ENVS5320 - Water Law and Policy in the United States - 3cr.
- ENVS5350 - Ecological Economics - 3cr.
- ENVS5550 - Sustainability: Concepts and Measurement - 3cr.
- ENVS5600 - Natural Resource Interpretation - 3cr.
- ENVS5750 - Global Change Ecology - 3cr.
- ENVS5800 - Environment and Society Departmental Colloquium - 1cr.
- GEOG2800 - Introduction to Geographic Information Sciences - 4cr.
- GEOG3100 - Human-Environment Geography (CI) - 3cr.
- GEOG3200 - Principles of Remote Sensing - 3cr.
- GEOG5120 - Environment and Development in Latin America (CI) - 3cr.
- GEOG4210 - Geography of Utah - 3cr.
- GEOG5400 - Natural Hazards and Society - 3cr.

Program Learning Outcomes

Program Learning Outcomes

https://qanr.usu.edu/envs/about/assessment

Environmental Studies - BS

Program Overview

College
College of Agriculture & Natural Resources

Department
Environment & Society

Program Level
Undergraduate

About this Degree

Environmental studies majors learn about the ecology of natural areas and about the political, economic, geographic, and social aspects of nature and its management.

Students focus on natural resource and environmental issues confronting society as they look for solutions that can sustain both the natural environment and human communities.

Compared to the Environmental Science and Sustainability BS, the Environmental Studies BS places greater emphasis on the social and behavioral sciences for an understanding of human attitudes, perceptions, and behavior, as well as economic, legal, and policy systems, for addressing the environmental challenges facing human societies.

- Admitted and current students must meet with an academic advisor for help with semester-by-semester planning, connections to co-curricular experiences, understanding of USU policies, and accessing USU resources.
- Log on to Degree Works to check student-specific program progress.
- The highest math requirement for this degree is STAT1040 INTRO TO STATISTICS (QL), STAT1045 INTRO STAT WITH ALGEBRA (QL), or STAT1080 FOUNDATIONS OF DATA SCI (QL)

Admission Requirements for this Program

- New freshmen: Admitted to USU in Good Standing
- Transfer students from other institutions or other programs at USU: 2.5 GPA

Program Requirements

Total Credits Required In Program Coursework
65-68

Total Credits Required To Earn This Credential
120

Simple Requisites

Program Requirements

All courses required for the major must be taken on an A-B-C-D-F basis. A grade of C- or better and a grade point average of 2.5 or higher is required for all ENVS, GEOG, WATS, or WILD courses used to meet requirements for the major.

Course Requirements

Type
Completion Requirement

Disciplinary Foundations (12-14 credits)

Complete ALL of the following Courses:

- ENVS1350 - Introduction to Environmental Science (BLS) - 3cr.
- ENVS2340 - Environment, Natural Resources, and Society (BSS) - 3cr.
- STAT1040 - Introduction to Statistics (QL) - 3cr.
  OR STAT1045 - Introduction to Statistics with Elements with Algebra (QL) - 5cr.
  OR STAT1080 - Foundations of Data Science (QL) - 3cr.
- WATS2220 - General Ecology - 3cr.
  OR WILD2200 - Ecology of Our Changing World (BLS) - 3cr.

Physical Science Course Options in the Disciplinary Foundation (3-4 credits)

Fulfill ANY of the following requirements:

Option 1

Complete ALL of the following Courses:

- GEOG1000 - Physical Geography (BPS) - 3cr.

OR

Option 2

Complete ALL of the following Courses:

- GEO1360 - Planet Earth (BPS) - 3cr.

OR

Option 3

Complete ALL of the following Courses:

- CHEM1010 - Introduction to Chemistry (BPS) - 3cr.

OR

Option 4

Complete ALL of the following Courses:

- GEO1110 - Physical Geology (BPS) - 3cr.
  AND GEO1115 - Physical Geology Laboratory - 1cr.

Professional Coursework (20 credits)

Complete ALL of the following Courses:

- APEC1600 - Natural Resources and American Economic Institutions (BAI) - 3cr.
  OR APEC3012 - Introduction to Natural Resource Economics (DSS) - 3cr.
- ENVS2000 - Natural Resource Professional Orientation - 1cr.
  OR WATS2000 - Natural Resource Professional Orientation - 1cr.
  OR WILD2000 - Natural Resource Professional Orientation - 1cr.
- GEOG2800 - Introduction to Geographic Information Sciences - 4cr.
  OR WILD2800 - Introduction to Geographic Information Sciences - 4cr.
- ENVS3500 - Environmental Data Science (QI) - 3cr.
- ENVS4020 - Foundations of Environmental Thought (DHA/CI) - 3cr.
- ENVS4700 - Communicating Sustainability (CI) - 3cr.
- ENVS3600 - Living with Wildlife (DSC) - 3cr.
  OR PSC4810 - Climate and Climate Change (DSC)(QI) - 3cr.

Professional Coursework Options (12 credits):

Any of these courses taken in excess of the required 12 credits of Professional Coursework will count towards the student's Degree Electives.

Earn at least 12 credits from the following:

- ENVS3010 - Natural Resource and Environmental Policy - 3cr.
- ENVS3300 - Fundamentals of Natural Resource Recreation Management - 3cr.
- ENVS3600 - Living with Wildlife (DSC) - 3cr.
- ENVS4000 - Human Dimensions of Natural Resource Management (DSS) - 3cr.
- ENVS4030 - Building Community Environmental Resilience - 3cr.
- ENVS4200 - Sustainability Metrics - 3cr.
- ENVS5020 - Human Dimensions of Fire Management - 3cr.
- ENVS5000 - Environmental Nonprofit and Volunteer Management - 3cr.
- ENVS5100 - Introduction to Modeling Human-Environment Systems - 3cr.
- ENVS5350 - Ecological Economics - 3cr.
- ENVS5750 - Global Change Ecology - 3cr.
- ENVS5550 - Sustainability: Concepts and Measurement - 3cr.
- GEOG3100 - Human-Environment Geography (CI) - 3cr.
- GEOG3800 - Geospatial Data Visualization - 3cr.

Degree Electives (18 credits)

Complete the remaining Environmental Studies degree credits from the following list. Courses taken to fulfill the 12 credits of Professional Coursework above will not *also* count as degree electives.

Earn at least 18 credits from the following:

- ANTH2010 - Peoples of the Contemporary World (BSS) - 3cr.
- APEC5560 - Natural Resource and Environmental Economics - 3cr.
- BIOL5010 - Biogeography - 3cr.
- CMST4260 - Environmental Communication - 3cr.
- ECON3550 - Law and Economics - 3cr.
  OR POLS3170 - Law and Economics - 3cr.
- ENGL3440 - Creative Nonfiction Writing - 3cr.
- ENGL3640 - Nature Writing (DHA) - 3cr.
- ENGL4440 - Advanced Nonfiction Writing (CI) - 3cr.
- ENGL4630 - Environmental Justice Literature - 3cr.
- ENGL4650 - Utah's Public Lands: Past, Present, Future (DHA/HASS) - 3cr.
- ENVS3010 - Natural Resource and Environmental Policy - 3cr.
- ENVS3300 - Fundamentals of Natural Resource Recreation Management - 3cr.
- ENVS3320 - Archaeology of Climate Change (DSS) - 3cr.
- ENVS3600 - Living with Wildlife (DSC) - 3cr.
- ENVS4000 - Human Dimensions of Natural Resource Management (DSS) - 3cr.
- ENVS4030 - Building Community Environmental Resilience - 3cr.
- ENVS4130 - Natural Resource Recreation Policy and Planning - 3cr.
- ENVS4200 - Sustainability Metrics - 3cr.
- ENVS4350 - Ecological Economics - 3cr.
- ENVS4500 - Advanced Natural Resource Recreation Management (CI) - 3cr.
- ENVS4950 - Special Topics - 1cr.
- ENVS4960 - Directed Readings - 1cr.
- ENVS4970 - Undergraduate Research - 1cr.
- ENVS5000 - Environmental Nonprofit and Volunteer Management - 3cr.
- ENVS5020 - Human Dimensions of Fire Management - 3cr.
- ENVS5100 - Introduction to Modeling Human-Environment Systems - 3cr.
- ENVS5200 - Anthropological Perspectives on Conservation - 3cr.
- ENVS5320 - Water Law and Policy in the United States - 3cr.
- ENVS5350 - Ecological Economics - 3cr.
- ENVS5550 - Sustainability: Concepts and Measurement - 3cr.
- ENVS5600 - Natural Resource Interpretation - 3cr.
- ENVS5750 - Global Change Ecology - 3cr.
- ENVS5800 - Environment and Society Departmental Colloquium - 1cr.
- GEO3100 - Natural Disasters (DSC) - 3cr.
- GEOG1300 - World Geography: Human and Environmental Dynamics (BSS) - 3cr.
- GEOG3100 - Human-Environment Geography (CI) - 3cr.
- GEOG3200 - Principles of Remote Sensing - 3cr.
- GEOG3700 - Python Programming for GIS - 3cr.
- GEOG3800 - Geospatial Data Visualization - 3cr.
- GEOG4210 - Geography of Utah - 3cr.
- GEOG4900 - GIS Individual Projects - 1cr.
- GEOG4950 - Special Topics - 1cr.
- GEOG5120 - Environment and Development in Latin America (CI) - 3cr.
- GEOG5300 - Geospatial Analysis with R - 3cr.
- GEOG5400 - Natural Hazards and Society - 3cr.
- GEOG5500 - Advanced Geographic Information Sciences (GIS) - 3cr.
- HIST3950 - Environmental History (DHA/CI) - 3cr.
- LAEP2039 - Foundations of Sustainable Systems - 3cr.
- LAEP5370 - City and Regional Planning (CI) - 3cr.
- POLS2430 - Contemporary Geopolitics (BSS) - 3cr.
- PSC2010 - Soils, Waters, and the Environment (BPS) - 3cr.
- PSC2700 - Climate Change Impacts (BPS) - 3cr.
- PSC3000 - Fundamentals of Soil Science - 4cr.
- PSC4810 - Climate and Climate Change (DSC)(QI) - 3cr.
- SOC3010 - Social Inequality (DSS) - 3cr.
- SOC3200 - Population and Society (DSS) - 3cr.
- SOC3300 - Sociology of Climate Change - 3cr.
- SOC3310 - Environmental Justice - 3cr.
- SOC3340 - Activism, Protest, and Social Movements (DSS) - 3cr.
- SOC3600 - Finding Community in Today's Society (DSS) - 3cr.
- SOC3610 - Rural People and Places (DSS) - 3cr.
- SOC4350 - People, Power, and the Political - 3cr.
- SOC4620 - Sociology of the Environment and Natural Resources (DSS) - 3cr.
- SOC4640 - Managing Community Conflict (CI) - 3cr.
- SOC4720 - Effective Community Engagement - 3cr.
- WATS2050 - Data Management for Natural Resources – Cleaning and Shaping Data - 1cr.
- WATS2060 - Data Management for Natural Resources – Data Display and Analysis - 1cr.
- WATS2500 - Introduction to Marine Biology (BLS) - 3cr.
- WATS3000 - Oceanography (DSC) - 3cr.
- WATS3450 - Introduction to Coral Reefs-Field Course (DSC) - 3cr.
- WATS4100 - Climate Adaptation Intern Program - 3cr.
- WATS5110 - Environmental Biogeochemistry - 3cr.
- WATS5210 - The Secret Life of Elements on Earth - 2cr.
- WILD2400 - Wildland Resource Techniques - 3cr.
- WILD4600 - Conservation Biology - 3cr.
- WILD5320 - Wildland Field Skills I - 1cr.
- WILD5321 - Wildland Field Skills II - 1cr.
- WILD5322 - Wildland Field Skills III - 1cr.
- WATS5530 - Water Quality and Pollution - 3cr.

Other appropriate courses not listed above may be approved by the student's faculty advisor.

Open Electives

Complete the following as needed:
Students may take the remainder of the 120 credits from any department. The guidelines described under "Breadth Requirements" and "Depth Education Requirements" should be consulted to ensure meeting University Studies Requirements. Total elective credit is determined by General Education courses taken, degree type selected, additional credits earned, and any additional math or other prerequisite courses needed. Please consult your Academic Advisor for details.

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Bachelor's Degree)

Suggested Degree Maps

Degree Map Name
Suggested Degree Map - Environmental Studies, BS
Total Degree Map Credits
118 - 124
Degree Map Effective Catalog Year
2027 -

Degree Map Narrative

- Following is a sample four-year plan. Please note that student-specific plans may differ.
- Meet with an academic advisor to create a specific plan that best fits your academic needs.
- The student is ultimately responsible for knowing and completing all degree requirements.
- Make sure you meet the registration requirements for each class by clicking the course link and checking any prerequisites or corequisites.
- Consultation with an advisor may result in an altered plan customized for an individual student.
- Check your Degree Works for requirements and completion.

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	15 - 16	0

Requirement Select
- ENGL1010 - Writing as Inquiry (CL1)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- ENVS2000 - Natural Resource Professional Orientation
  OR
- WATS2000 - Natural Resource Professional Orientation
  OR
- WILD2000 - Natural Resource Professional Orientation

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- GEOG1000 - Physical Geography (BPS)
  OR
- GEO1360 - Planet Earth (BPS)
  OR
- CHEM1010 - Introduction to Chemistry (BPS)
  OR
- GEO1110 - Physical Geology (BPS)
- **AND** GEO1115 - Physical Geology Laboratory

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 4
Progress Credits	-
Contact Hours	3 - 4
Clinical	-
Criticality	No

Requirement Select
- USU1010 - University Connections

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select

- Breadth Creative Arts (BCA) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Elective or Other Program course (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	13 - 17	0

Requirement Select

- ENVS1350 - Introduction to Environmental Science (BLS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- STAT1040 - Introduction to Statistics (QL)
  OR
- STAT1045 - Introduction to Statistics with Elements with Algebra (QL)
  OR
- STAT1080 - Foundations of Data Science (QL)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 5
Progress Credits	-
Contact Hours	3 - 5
Clinical	-
Criticality	No

Requirement Select

- WILD2200 - Ecology of Our Changing World (BLS)
  OR
- WATS2220 - General Ecology

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Breadth Humanities (BHU) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Elective or Other Program course (1 or 3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1 - 3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	15 - 16	0

Requirement Select

- ENVS2340 - Environment, Natural Resources, and Society (BSS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- GEOG2800 - Introduction to Geographic Information Sciences
  OR
- WILD2800 - Introduction to Geographic Information Sciences
  OR
- WATS2800 - Introduction to Geographic Information Sciences

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- Breadth American Institutions (BAI) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Professional coursework (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Elective or Other Program course (2 or 3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2 - 3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- APEC1600 recommended to fulfill the BAI requirement (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	12	0

Requirement Select

- APEC1600 - Natural Resources and American Economic Institutions (BAI)
  OR
- APEC3012 - Introduction to Natural Resource Economics (DSS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- ENGL2010 - Research and Argument Across Perspectives (CL2)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Professional coursework (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Elective or Other Program course (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Fall	18	0

Requirement Select

- ENVS3500 - Environmental Data Science (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- ENVS3600 - Living with Wildlife (DSC)

  OR
- PSC4810 - Climate and Climate Change (DSC)(QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Professional Coursework (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Degree Electives (6 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Elective or Other Program course (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Spring	15	0

Requirement Select

- ENVS4700 - Communicating Sustainability (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Professional Coursework (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Degree Electives (6 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective or Other Program course (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Fall	15	0

Requirement Select
- Professional Coursework or Degree Electives (6 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- General Elective or Minor Courses (9 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	9
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Spring	15	0

Requirement Select
- ENVS4020 - Foundations of Environmental Thought (DHA/CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Professional Coursework or Degree Electives (6 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- General Elective or Other Program courses (6 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Program Learning Outcomes

Program Learning Outcomes

Upon completing their program, students will be able to:

- Describe and explain environmental issues from a rigorous interdisciplinary perspective by integrating insights based on principles, theories, and information from the natural sciences, social sciences, and humanities
- Demonstrate understanding of ethical dimensions of environmental issues

- Apply, evaluate, and interpret appropriate quantitative methods (e.g. geographic information systems, statistics, and systems modeling) to gain information and understanding of environmental problems
- Synthesize and integrate material in interdisciplinary team-structured activities
- Communicate information necessary to understand environmental problems and solutions in written, oral, and visual formats to professional and lay audiences in a manner that is both scientifically accurate, relatable and understandable by the audience
- Demonstrate understanding of how the interactions between humans and the environment affect human health, ecosystem health, resource availability, sustainability, and political stability
- Demonstrate understanding of how environmental policy is made and how, together with economic incentives, it structures people's use of environmental resources

https://qanr.usu.edu/envs/about/assessment

English Teaching Composite - Literature Emphasis - BS (NOT CURRENTLY OFFERED)

Program Overview

College	Department	Program Level
College of Arts & Sciences	English	Undergraduate

About this Degree

With its small class sizes and nationally published faculty members, the English Department helps students develop skills in analysis, production, and understanding of texts in the English language. Students learn to write, think, and communicate effectively in a technologically and culturally complex world. Students develop skills in the areas most valued by employers, including critical thinking, teamwork, and oral and written communication, which will prepare them to enter into a wide range of career options.

Because the English Department is home to faculty that are heavily involved in research, students are provided with numerous opportunities to pursue undergraduate research projects and creative projects with individual attention from professors.

Students receive a by completing all required courses in the major. To receive a BA, students must also gain proficiency in one or more foreign languages. See Undergraduate Academic Credential Requirements for required language credit.

English Teaching Composite: Students emphasizing in English teaching prepare to teach secondary level English in the public school system. Students take a wide range of literature, writing, and teaching courses that prepare them to teach language arts in secondary education classrooms.

Literature Emphasis: Literary studies students read, analyze, and research texts and writers in American, British, and other world literatures as well as their cultural contexts. Students in literary studies develop critical thinking and communication skills that prepare them for a variety of careers.

- For more information about English Teaching Composite: Literature, see the Department of English website.
- As an English major with an emphasis in English Teaching, you will receive your BA/BS through the Department of English in the College of Humanities and Social Sciences. Teacher licensure is earned through the College of Education and Human Services.
- Admitted and current students must meet with an advisor.
- Log on to Degree Works to check student-specific program progress.
- The highest math requirement for this degree is Quantitative Literacy (QL) Quantitative Literacy (QL) of the student's choice. STAT1040 INTRO TO STATISTICS (QL), STAT1045 INTRO STAT WITH ALGEBRA (QL), or STAT1080 FOUNDATIONS OF DATA SCI (QL) is recommended.

Admission Requirements for this Program

- New freshmen must be admitted to USU in Good Standing.
- Transfer students from other institutions or other programs at USU: 2.5 GPA*

  ***Minimum GPA for Admission:** 2.5 USU cumulative GPA (including courses taken for another USU major); 2.5 career total GPA (including transfer credits) for new transfer students. 2.5 GPA within all English courses (other than ENGL 1010, ENGL 2010, CLEP, AP, etc.); 2.5 USU cumulative (including courses taken for another USU major); 2.5 career total (including transfer credits) for new transfer students.

Program Requirements

Total Credits Required In Program Coursework
62

Total Credits Required To Earn This Credential
120

Simple Requisites

Program Requirements

English Teaching Emphasis

- **Minimum GPA for Graduation:** 2.75 within major courses; 2.0 USU cumulative (3.0 USU cumulative required for admission to STEP); 2.75 career total (for licensure)
- **Number of Required Credits:** 62
- **Credits in Residence:** Students must complete 21 credits of major-applicable coursework at Utah State University.
- **Other Requirements:**
    - To obtain professional licensure at graduation, students must fulfill the requirements of the Secondary Teacher Education Program (STEP) prescribed by the School of Teacher Education and Leadership (TEAL). STEP (typically requires 3 semesters; see TEAL website and advisor for STEP advising) is required for licensure, and ENGL1410 ELEMENTS OF GRAMMAR.
    - The English Teaching Composite: American Studies program prepares students towards professional licensure in the teaching of secondary-level English, with additional preparation in American Studies. Students become versed in their academic subject matter (the language arts, emphasizing writing); skilled in the methods of teaching the various components of the English curriculum and classroom management techniques; and committed to the achievement of all students. The English Teaching Composite: American Studies offers a robust menu of courses, recognizing the complexity and depth of English studies.
    - In addition to the required exploratory courses and content-focused courses in English and American Studies, students take classes in pedagogy to learn about curriculum, planning, instructional delivery, assessment, and related topics. Two clinical experiences provide in-school experiences before student teaching. Admission to STEP is required for clinical experiences.
    - Students are urged to complete the required Exploratory courses early in their program of study and to complete an additional 6 credits of English before taking ENGL4500 TEACHING WRITING (CI) and ENGL4510 TEACHING LITERATURE (CI). When possible, students should complete all of their required 3000-level courses before taking 4000-level courses.

English Department Requirements

Type
Completion Requirement

Minimum University Requirements

Minimum University Requirements
Minimum University Requirements (Bachelor's Degree)

Program Learning Outcomes

Program Learning Outcomes
https://artsci.usu.edu/assessments/

English Teaching Composite: Writing Emphasis - BA, BS (NOT CURRENTLY OFFERED)

Program Overview

College
College of Arts & Sciences

Department
English

Program Level
Undergraduate

About this Degree

With its small class sizes and nationally published faculty members, the English Department helps students develop skills in analysis, production, and understanding of texts in the English language. Students learn to write, think, and communicate effectively in a technologically and culturally complex world. Students develop skills in the areas most valued by employers, including critical thinking, teamwork, and oral and written communication, which will prepare them to enter into a wide range of career options.

Because the English Department is home to faculty that are heavily involved in research, students are provided with numerous opportunities to pursue undergraduate research projects and creative projects with individual attention from professors.

Students receive a BS by completing all required courses in the major. To receive a BA, students must also gain proficiency in one or more foreign languages. See Undergraduate Academic Credential Requirements for language credit requirements.

English Teaching Composite: Students emphasizing in English teaching prepare to teach secondary level English in the public school system. Students take a wide range of literature, writing, and teaching courses that prepare them to teach language arts in secondary education classrooms.

Writing Emphasis: The creative writing program gives students exposure to poetry, nonfiction, and creative nonfiction writing and then allows them to specialize in their chosen area(s). Through literature and writing courses, students develop critical and cognitive writing skills applicable in numerous professional fields.

- For more information about English Teaching Composite: Writing, see the Department of English website.
- As an English major with an emphasis in English Teaching, you will receive your BA/BS through the Department of English in the College of Humanities and Social Sciences.
- Teacher licensure is earned through the College of Education and Human Services.
- Admitted and current students must meet with an advisor.
- Log on to Degree Works to check student-specific program progress.
- The highest math requirement for this degree is Quantitative Literacy (QL) of the student's choice. STAT1040 INTRO TO STATISTICS (QL), STAT1045 INTRO STAT WITH ALGEBRA (QL), or STAT1080 FOUNDATIONS OF DATA SCI (QL) is recommended.

Admission Requirements for this Program

- New freshmen must be admitted to USU in Good Standing.
- Transfer students from other institutions or other programs at USU: 2.5 GPA*

  ***Minimum GPA for Admission:** 2.5 USU cumulative GPA (including courses taken for another USU major); 2.5 career total GPA (including transfer credits) for new transfer students; 2.5 GPA within all English courses (other than ENGL1010 WRITING AS INQUIRY (CL1), ENGL2010 RSRCH&ARGUMENT PRSPCTVES (CL2), CLEP, AP, etc.).

Program Requirements

Total Credits Required In Program Coursework
62

Total Credits Required To Earn This Credential
120

Simple Requisites

Program Requirements

- **Minimum GPA for Graduation:** 2.75 GPA within major courses; 2.0 USU cumulative GPA (3.0 USU cumulative required for admission to STEP); 2.75 career total GPA (for licensure)
- **Minimum Grade Accepted:** C (no pass/fail) in major courses; C in STEP courses
- **Number of Required Credits:** 62 credits
- **Credits in Residence:** Students must complete 21 credits of major-applicable coursework at Utah State University.
- **Other Requirements:** STEP (typically requires 3 semesters; see TEAL website and advisors for STEP advising) required for licensure, and ENGL1410 ELEMENTS OF GRAMMAR.
- To obtain professional licensure at graduation, students must fulfill the requirements of the Secondary Teacher Education Program (STEP) prescribed by the School of Teacher Education and Leadership (TEAL).

English Department Requirements

Type
Completion Requirement

English Major Core (9 credits)

ENGL2600 LITERARY ANALYSIS is required. Students may fulfill the rest of the core credits from the following courses. Students should take note of the superscripts to find emphasis-specific requirements.

Earn at least 9 credits from the following:

- ENGL2040 - Introduction to Writing Studies (BHU) - 3cr.
- ENGL2600 - Literary Analysis - 3cr.
- ENGL2050 - Literature by Women (BHU) - 3cr.
- ENGL2060 - Reading Across Borders (BHU) - 3cr.
- ENGL2070 - Introduction to Digital Humanities (BHU) - 3cr.
- ENGL2160 - AI and Writing: Cultural and Historical Perspectives - 3cr.
- ENGL2200 - Understanding Literature (BHU) - 3cr.
- ENGL2210 - Introduction to Folklore (BHU) - 3cr.
- ENGL2220 - Introduction to Fiction (BHU) - 3cr.
- ENGL2230 - Introduction to Film (BHU) - 3cr.
- ENGL2240 - Introduction to Poetry (BHU) - 3cr.
- ENGL2250 - Introduction to Creative Writing (BHU) - 3cr.
- ENGL2300 - Introduction to Shakespeare (BHU) - 3cr.
- ENGL2330 - Introduction to Children's Literature (BHU) - 3cr.
- ENGL2350 - Indigenous Voices (BHU) - 3cr.
- ENGL2630 - Introduction to American Studies (BHU) - 3cr.
- ENGL2640 - Race and Ethnicity in the United States (BHU) - 3cr.
- ENGL2720 - Survey of American Folklore - 3cr.
- ENGL3140 - Introduction to LGBTQ+ Literature (DHA) - 3cr.
- ENGL3150 - Science Fiction (DHA) - 3cr.
- TCR2100 - Introduction to Technical Communication - 3cr.
- TCR2110 - Digital Writing Technologies - 3cr.

Emphasis Requirements (53 credits)

Type
Completion Requirement

B. Literature Courses (12 credits)

Select four courses. One course must focus on American literature content and one must focus on world literature content.

Complete at least 4 of the following courses:

- CLAS3210 - Classical Mythology - 3cr.
  OR ENGL3210 - Classical Mythology - 3cr.
- ENGL3305 - Medieval Literary History - 3cr.
- ENGL3315 - Early Modern British Literary History - 3cr.
- ENGL3325 - Eighteenth-Century British Literary History - 3cr.
- ENGL3335 - Nineteenth-Century British Literary History - 3cr.
- ENGL3345 - Literary History of the British Isles Since 1900 - 3cr.
- ENGL3355 - Literary History of the Early Americas - 3cr.
- ENGL3365 - Nineteenth-Century American Literary History - 3cr.
- ENGL3375 - Literary History of the Americas Since 1900 - 3cr.
- ENGL3385 - Postcolonial World Literature - 3cr.
- ENGL3395 - World Literature in Translation - 3cr.
- ENGL3610 - Multicultural American Literature - 3cr.
- ENGL3620 - Native American Studies - 3cr.
- ENGL3630 - The Farm in Literature and Culture (CI/DHA) - 3cr.
- ENGL4310 - American Writers - 3cr.
- ENGL4320 - British Writers - 3cr.
- ENGL4330 - World Writers - 3cr.
- ENGL4340 - Studies in Fiction - 3cr.
- ENGL4345 - Studies in Nonfiction - 3cr.
- ENGL4350 - Studies in Poetry - 3cr.
- ENGL4360 - Studies in Drama - 3cr.
- ENGL4365 - Studies in Film - 3cr.
- ENGL4370 - Native American Literature - 3cr.
- ENGL4375 - U.S. Latinx Literature - 3cr.
- ENGL4380 - African American Literature - 3cr.
- ENGL4390 - Contemporary Literature (CI) - 3cr.
- ENGL4610 - Western American Literature (CI/DHA) - 3cr.
- ENGL4630 - Environmental Justice Literature - 3cr.
- ENGL5300 - Special Topics in Literature (CI) - 3cr.
- ENGL5320 - Gender and Sexuality in Literature (CI) - 3cr.
- ENGL5330 - Race and Ethnicity in Literature (CI) - 3cr.
- ENGL5340 - Multimedia Literature (CI) - 3cr.

C. Shakespeare Course (3 credits)

Complete ALL of the following Courses:

- ENGL4300 - Shakespeare - 3cr.

D. Linguistics Course (3 credits)

Complete at least 1 of the following courses:

- ENGL4200 - Linguistic Structures - 3cr.
- ENGL4210 - History of English: Change and Diversity - 3cr.

E. Writing Courses (15 credits)

Select five of the following courses (selected courses may not also be used for the Writing Exploratory requirement). ENGL4540 TEACHING CREATIVE WRITING is recommended.

Complete at least 5 of the following courses:

- ENGL3040 - Perspectives in Writing and Rhetoric (DHA) - 3cr.
- ENGL3420 - Fiction Writing - 3cr.
- ENGL3430 - Poetry Writing - 3cr.
- ENGL3440 - Creative Nonfiction Writing - 3cr.
- ENGL4540 - Teaching Creative Writing - 3cr.
- TCR2100 - Introduction to Technical Communication - 3cr.
- TCR2110 - Digital Writing Technologies - 3cr.
- TCR3220 - Technical Editing (CI) - 3cr.
- TCR4210 - Visual Communication Design - 3cr.
- TCR4250 - Careers in Professional Communication (CI) - 3cr.

F. English Education Courses (17 credits)

Complete ALL of the following Courses:

- ENGL3470 - Approaches to Research (QI) - 3cr.
- ENGL3500 - Teaching English - 2cr.
- ENGL3510 - Teaching Young Adult Literature - 3cr.
- ENGL4500 - Teaching Writing (CI) - 3cr.
- ENGL4510 - Teaching Literature (CI) - 3cr.
- ENGL4520 - Teaching Literacy in English Language Arts Classrooms - 2cr.

NOTE:

1. ENGL3500 TEACHING ENGLISH - Students must also register for SCED3300 CLINICAL EXPERIENCE I when taking ENGL3500 TEACHING ENGLISH.
2. ENGL4520 TEACHING LITERACY - Students must also register for SCED4300 CLINICAL EXPERIENCE II when taking ENGL4520 TEACHING LITERACY.

G. Grammar Requirement (3 credits)

Complete ALL of the following Courses:

- ENGL1410 - Elements of Grammar - 3cr.

H. Secondary Teacher Education Program (STEP)

English Teaching students must complete the STEP program to be eligible for graduation and to receive a license to teach in the public school system. The STEP program is administered through the Secondary Education Program of the School of TEAL, Emma Eccles Jones College of Education and Human Services. Students must be admitted to STEP before taking many STEP courses. Among the requirements for admission is a Criminal Background Check. While completing student teaching, students must pass the required PPAT assessment. STEP requirements are subject to change based on changes in state licensure. Students should meet with an advisor in the School of TEAL for further information regarding this program.

Fulfill ALL of the following requirements:

STEP Requirements (29 credits)

These three courses may be taken prior to admission.

Complete ALL of the following Courses:

- SCED3210 - Educational and Multicultural Foundations (DSS/CI) - 3cr.
- SPED4000 - Education of Students with Disabilities - 3cr.
- ITLS2500 - Technology Enabled Instruction - 3cr.

AND

STEP Requirements

Complete ALL of the following Courses:

- SCED3300 - Clinical Experience I - 1cr.
- SCED4300 - Clinical Experience II - 1cr.
- SCED5100 - Motivation and Classroom Management - 3cr.
- SCED5210 - Learning Theory, Curriculum, and Assessment - 3cr.
- SCED5500 - Student Teaching Seminar - 2cr.
- SCED5630 - Student Teaching in Secondary Schools - 10cr.

NOTE:

1. SCED3300 CLINICAL EXPERIENCE I - Students must also register for ENGL3500 TEACHING ENGLISH when taking SCED3300 CLINICAL EXPERIENCE I.
2. SCED4300 CLINICAL EXPERIENCE II - Students must also register for ENGL4520 TEACHING LITERACY when taking SCED4300 CLINICAL EXPERIENCE II.

Open Electives

Complete the following as needed:
Total elective credit is determined by General Education courses taken, degree type selected, additional credits earned, and any additional math or other prerequisite courses needed. Please consult your Academic Advisor for details.

Additional Comments:

Licensure Notification

This program typically leads to licensure and was designed to meet licensing qualifications in the state of Utah. If students wish to work in another state within the United States, they should review the qualifications for that state and the Education Licensure Compliance Table provided by School of Teacher Education and Leadership.

For more information, please contact the School of Teacher Education and Leadership at https://cehs.usu.edu/teal/

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Bachelor's Degree)

Suggested Degree Maps

Degree Map Name
Suggested Degree Map - English Teaching Composite: Writing BA, BS
Total Degree Map Credits
120 - 122
Degree Map Effective Catalog Year
2027 -

Degree Map Narrative

- Following is a sample four-year plan. Please note that student-specific plans may differ.
- Meet with an academic advisor to create a specific plan that best fits your academic needs.
- The student is ultimately responsible for knowing and completing all degree requirements.
- Make sure you meet the registration requirements for each class by clicking the course link and checking any prerequisites or corequisites.
- Consultation with an advisor may result in an altered plan customized for an individual student.
- Check your Degree Works for requirements and completion.

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	15 - 17	0

Requirement Select
- ENGL1010 - Writing as Inquiry (CL1)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- STAT1040, STAT1045, or STAT1080 preferred. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Quantitative Literacy (QL) Course
  OR
- STAT1040 - Introduction to Statistics (QL)
  OR
- STAT1045 - Introduction to Statistics with Elements with Algebra (QL)
  OR
- STAT1080 - Foundations of Data Science (QL)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 5
Progress Credits	-
Contact Hours	3 - 5
Clinical	-
Criticality	No

Requirement Select

- ENGL Culture Exploration Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Breadth American Institutions (BAI) Course
  OR
- Breadth Creative Arts (BCA) Course
  OR
- Breadth Humanities (BHU) Course
  OR
- Breadth Life Sciences (BLS) Course
  OR
- Breadth Physical Sciences (BPS) Course
  OR
- Breadth Social Sciences (BSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Breadth American Institutions (BAI) Course
  OR
- Breadth Creative Arts (BCA) Course
  OR
- Breadth Humanities (BHU) Course
  OR
- Breadth Life Sciences (BLS) Course
  OR
- Breadth Physical Sciences (BPS) Course
  OR
- Breadth Social Sciences (BSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	15	0

Requirement Select

- Students should start background check and apply for admission to STEP program by March 1. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- ENGL2010 - Research and Argument Across Perspectives (CL2)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- ENGL2600 - Literary Analysis

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Breadth American Institutions (BAI) Course
  OR
- Breadth Creative Arts (BCA) Course
  OR
- Breadth Humanities (BHU) Course
  OR
- Breadth Life Sciences (BLS) Course
  OR
- Breadth Physical Sciences (BPS) Course
  OR
- Breadth Social Sciences (BSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Breadth American Institutions (BAI) Course
  OR
- Breadth Creative Arts (BCA) Course
  OR
- Breadth Humanities (BHU) Course
  OR
- Breadth Life Sciences (BLS) Course
  OR
- Breadth Physical Sciences (BPS) Course
  OR
- Breadth Social Sciences (BSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Breadth American Institutions (BAI) Course
  OR
- Breadth Creative Arts (BCA) Course
  OR
- Breadth Humanities (BHU) Course
  OR
- Breadth Life Sciences (BLS) Course
  OR
- Breadth Physical Sciences (BPS) Course
  OR
- Breadth Social Sciences (BSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	15	0

Requirement Select

- ENGL 3500 requires admission to STEP program and must be taken with SCED 3300. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- ENGL Writing Exploration Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- #1 of 5 ENGL Writing Classes (see list) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- ENGL3500 - Teaching English
- **AND** SCED3300 - Clinical Experience I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- ENGL1410 - Elements of Grammar

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- ENGL Literature Course (see list) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	15	0

Requirement Select

- #2 of 5 ENGL Writing Classes (see list) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Breadth American Institutions (BAI) Course
  OR
- Breadth Creative Arts (BCA) Course
  OR
- Breadth Humanities (BHU) Course
  OR
- Breadth Life Sciences (BLS) Course
  OR
- Breadth Physical Sciences (BPS) Course
  OR
- Breadth Social Sciences (BSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- ENGL3510 - Teaching Young Adult Literature

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- ENGL Literature Course (see list) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- ENGL Linguistics Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Fall	15	0

Requirement Select
- ENGL3470 - Approaches to Research (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- ENGL4510 - Teaching Literature (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- ENGL4300 - Shakespeare

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- #3 of 5 ENGL Writing Classes (see list) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- ENGL Literature Course (see list) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Spring	15	0

Requirement Select
- ENGL 4520 Requires admission to STEP program and must be taken with SCED 4300. Students must consult a TEAL advisor when they are admitted to STEP. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- SCED3210 - Educational and Multicultural Foundations (DSS/CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- STEP Courses (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- #4 of 5 ENGL Writing Classes (see list) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- ENGL4500 - Teaching Writing (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- ENGL4520 - Teaching Literacy in English Language Arts Classrooms
- **AND** SCED4300 - Clinical Experience II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Fall	18	0

Requirement Select

- Students must consult a TEAL advisor when they are admitted to STEP. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- ENGL Literature Course (see list) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- #5 of 5 ENGL Writing Classes (see list) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Depth Life and Physical Sciences (DSC) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- STEP Courses (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	9
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Spring	12	0

Requirement Select

- SCED5500 - Student Teaching Seminar

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select

- SCED5630 - Student Teaching in Secondary Schools

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	10
Progress Credits	-
Contact Hours	10
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Program Learning Outcomes

Program Learning Outcomes

https://artsci.usu.edu/assessments/

Engineering Technology - AAS

Program Overview

College
College of Agriculture & Natural Resources

Department
Technology, Design & Technical Ed

Program Level
Undergraduate

About this Degree

The Engineering Technology - AAS degree offers an immersive, hands-on learning experience designed to cultivate practical skills and innovative thinking. Emphasizing laboratory work and project-based learning, this program allows students to engage directly with cutting-edge technology and real-world applications. From designing and building prototypes to working on interdisciplinary projects, students can design and build solutions to technical problems in various lab spaces while gaining a robust understanding of engineering technology principles. Graduates are well-prepared for dynamic careers in engineering technology fields, ready to solve complex problems with practical, innovative solutions.

- For more information about Engineering Technology, see the website.
- Following is a sample two-year plan. Please note that student-specific plans may differ.
- Admitted students must meet with an advisor. Current students should also meet with an advisor and log on to Degree Works to check student-specific program progress.
- The highest math requirement for this degree is MATH1060 TRIGONOMETRY

Admission Requirements for this Program

- New freshmen: Admitted to USU in Good Standing
- Transfer students from other institutions or other programs at USU: 2.2 GPA

Program Requirements

Total Credits Required In Program Coursework
63

Total Credits Required To Earn This Credential
63

Simple Requisites

Program Requirements

Engineering Technology - AAS Course Requirements

Type
Completion Requirement

Required Core Courses (44 - 46 credits)

Students will need to complete the following courses with a C- or better:

Complete ALL of the following Courses:

- DATA1100 - Excel for Business Analysis - 1cr.
- ETEC1000 - Introduction to Engineering Technology - 1cr.
- ETEC1010 - Engineering Technology Principles - 3cr.
  OR TESY1020 - Energy, Power, Transportation Systems Control Technology - 3cr.
- PHYS1200 - Introduction to Physics by Hands-on Exploration (BPS) - 4cr.
  OR PHYS1800 - Physics of Technology (BPS) - 4cr.
  OR PHYS2210 - Physics for Scientists and Engineers I (QI/ BPS) - 4cr.
- ETEC2020 - Introduction to Automation - 3cr.
  OR CS1410 - Introduction to Computer Science--CS 2 (QI) - 3cr.
- ETEC2200 - Engineering Technology Communications - 3cr.
- ETEC2300 - Introduction to Electronics - 4cr.
  OR TEE2300 - Electronic Fundamentals (QI) - 3cr.
- ETEC2310 - Electronics Systems - 3cr.
  OR CS1400 - Introduction to Computer Science--CS 1 - 4cr.
- MATH1050 - College Algebra (QL) - 4cr.
- MATH1060 - Trigonometry - 2cr.
- TESY1200 - Computer-Aided Drafting and Design - 3cr.
- TESY2200 - Intermediate CAD - 3cr.
- TESY1030 - Material Processing Systems - 3cr.
- CHEM1110 - General Chemistry I (BPS) - 4cr.
  OR CHEM1210 - Principles of Chemistry I - 4cr.
- STAT2000 - Statistical Methods (QI) - 4cr.

Technical Electives (3-4 credits)

Students must take 3-4 credits of technical elective. Students looking to pursue the BAS in Engineering Technology, it is recommended that MATH 1210 be taken to fulfill the technical elective requirements. Students should choose from the following courses:

Earn at least 3 credits from the following:

- ASTE2100 - Personal and Team Leadership - 3cr.
- BCIS1300 - Website Design - 3cr.
- BUSN2390 - Organizational Behavior - 3cr.
- CMST1020 - Public Speaking (BHU) - 3cr.
- MATH1210 - Calculus I (QL) - 4cr.
- NDFS1250 - Sanitation and Safety - 3cr.
- TEE1010 - Graphic Communication Technologies - 3cr.
- TEE1040 - Construction and Estimating - 3cr.
- TEE2030 - Wood-Based Manufacturing Systems - 3cr.
- UAS1010 - Unmanned Aircraft Systems - Remote Pilot - 3cr.
- UAS1100 - Introduction to Unmanned Aircraft Systems - 1cr.
- UAS1200 - Unmanned Aircraft Systems Introduction to Fixed-Wings - 3cr.
- UAS1300 - Unmanned Aircraft Systems Introduction to Multirotor - 3cr.
- UAS1500 - Introduction to Unmanned Aircraft Systems Maintenance and Components - 3cr.
- UAS2100 - Unmanned Aircraft Systems Flight Lab - Patterns and Maneuvers - 3cr.
- UAS2300 - Unmanned Aircraft Systems Multirotor Autonomy - 3cr.

Minimum University Requirements

Minimum University Requirements

Undergraduate Academic Credential Requirements

Suggested Degree Maps

Degree Map Name
Suggested Degree Map - Engineering Technology: AAS
Total Degree Map Credits
62 - 65
Degree Map Effective Catalog Year
2027 -

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	15	0

Requirement Select

- DATA1100 - Excel for Business Analysis

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- ENGL1010 - Writing as Inquiry (CL1)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- ETEC1000 - Introduction to Engineering Technology

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- MATH1050 - College Algebra (QL)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- TESY1200 - Computer-Aided Drafting and Design

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Breadth Creative Arts (BCA) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	14 - 15	0

Requirement Select

- ETEC1010 - Engineering Technology Principles
  OR
- TESY1020 - Energy, Power, Transportation Systems Control Technology

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- TEE2300 - Electronic Fundamentals (QI)
  OR
- ETEC2300 - Introduction to Electronics

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 4
Progress Credits	-
Contact Hours	3 - 4
Clinical	-
Criticality	No

Requirement Select
- MATH1060 - Trigonometry

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select
- TESY1030 - Material Processing Systems

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Breadth Humanities (BHU) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	16 - 18	0

Requirement Select
- CHEM1110 - General Chemistry I (BPS)
  OR
- CHEM1210 - Principles of Chemistry I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- ENGL2020 - Professional Communication (CL2)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- ETEC2310 - Electronics Systems
  OR
- CS1400 - Introduction to Computer Science--CS 1

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 4
Progress Credits	-
Contact Hours	3 - 4
Clinical	-
Criticality	No

Requirement Select
- TESY2200 - Intermediate CAD

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Technical Elective (3-4 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	17	0

Requirement Select
- Breadth American Institutions (BAI) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- ETEC2020 - Introduction to Automation
  OR
- CS1410 - Introduction to Computer Science--CS 2 (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- ETEC2200 - Engineering Technology Communications

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- PHYS1200 - Introduction to Physics by Hands-on Exploration (BPS)
  OR
- PHYS1800 - Physics of Technology (BPS)
  OR
- PHYS2210 - Physics for Scientists and Engineers I (QI/BPS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- STAT2000 - Statistical Methods (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Program Learning Outcomes

Program Learning Outcomes
https://www.usu.edu/oda/assessment/

Engineering Technology - BAS

Program Overview

College
College of Agriculture & Natural Resources

Department
Technology, Design & Technical Ed

Program Level
Undergraduate

About this Degree

The Engineering Technology program offers an immersive, hands-on learning experience designed to cultivate practical skills and innovative thinking. Emphasizing laboratory work and project-based learning, this program allows students to engage directly with cutting-edge technology and real-world applications. From designing and building prototypes to working on interdisciplinary projects, students have the opportunity to design and build solutions to technical problems in a variety of lab spaces, while gaining a robust understanding of engineering technology principles. Graduates are well-prepared for dynamic careers in engineering technology fields, ready to solve complex problems with practical, innovative solutions.

- For more information about Engineering Technology, see the website.
- Following is a sample four-year plan. Please note that student-specific plans may differ.
- Admitted students must meet with an advisor. Current students should also meet with an advisor and log on to Degree Works to check student-specific program progress.

Admission Requirements for this Program

- New Freshman: Admitted to USU in Good Standing
- Transfer students from other institutions or other programs at USU: 2.2 GPA

Program Requirements

Total Credits Required In Program Coursework
94-95

Total Credits Required To Earn This Credential
120

Simple Requisites

Program Requirements

Engineering Technology - BAS Course Requirements

Type
Completion Requirement

Required Core Courses (88-89 credits)

Students will need to complete the following courses with a C- or better:

Complete ALL of the following Courses:

- CHEM1110 - General Chemistry I (BPS) - 4cr.
  OR CHEM1210 - Principles of Chemistry I - 4cr.
- DATA1100 - Excel for Business Analysis - 1cr.
- ETEC1000 - Introduction to Engineering Technology - 1cr.
- ETEC1010 - Engineering Technology Principles - 3cr.
  OR TESY1020 - Energy, Power, Transportation Systems Control Technology - 3cr.
- ETEC2020 - Introduction to Automation - 3cr.
  OR CS1410 - Introduction to Computer Science--CS 2 (QI) - 3cr.
- ETEC2200 - Engineering Technology Communications - 3cr.
- ETEC2300 - Introduction to Electronics - 4cr.
  OR TEE2300 - Electronic Fundamentals (QI) - 3cr.
- ETEC2310 - Electronics Systems - 3cr.
  OR CS1400 - Introduction to Computer Science--CS 1 - 4cr.
- ETEC3010 - Materials Sciences for Engineering Technology - 3cr.
- ETEC3020 - Energy Systems - 3cr.
- ETEC3130 - Manufacturing and Quality Systems - 3cr.
- ETEC3850 - Statics and Strengths of Materials - 3cr.
- ETEC4200 - Professional Communication and Documentation for Engineering Technology - 3cr.
- ETEC4900 - Senior Capstone I - 3cr.
- ETEC4910 - Senior Capstone II - 3cr.
- MATH1050 - College Algebra (QL) - 4cr.
- MATH1060 - Trigonometry - 2cr.
- MATH1210 - Calculus I (QL) - 4cr.
- MGT3600 - Project Management - 2cr.
- MGT3700 - Operations Management - 3cr.
  OR TESY4520 - Statistical Quality Control w/SPC - 3cr.
- MGT5730 - Lean Continuous Improvement - 3cr.
  OR TESY4530 - Principles of Lean Manufacturing - 3cr.
- MSLE3110 - Managing Organizations and People (DSS) - 3cr.
- PHYS1200 - Introduction to Physics by Hands-on Exploration (BPS) - 4cr.
  OR PHYS1800 - Physics of Technology (BPS) - 4cr.
  OR PHYS2210 - Physics for Scientists and Engineers I (QI/BPS) - 4cr.
- STAT2000 - Statistical Methods (QI) - 4cr.
- TESY1030 - Material Processing Systems - 3cr.
- TESY1200 - Computer-Aided Drafting and Design - 3cr.
- TESY2200 - Intermediate CAD - 3cr.
- TESY3000 - Hazard Recognition & Control - 3cr.
  OR PUBH3310 - Occupational Health and Safety - 3cr.
- TESY3270 - Advanced Computer-Aided Drafting - 3cr.
- TESY3030 - Computer-Integrated Manufacturing Systems - 3cr.
  OR TESY4510 - Quality Root Cause Analysis Methods and Applications - 3cr.
- TESY3200 - Additive Manufacturing I - 3cr.
  OR TESY4500 - Quality Management Systems - 3cr.

Technical Electives (6 credits required)

Earn at least 6 credits from the following:

- ASTE3030 - Metal Fabrication for Agriculture and Natural Resource Industries - 3cr.
- AV3900 - Aviation Independent Study - 1cr.
- AV4250 - Internship - 1cr.
- BCIS1300 - Website Design - 3cr.
- BUSN2390 - Organizational Behavior - 3cr.
- CMST1020 - Public Speaking (BHU) - 3cr.
- DATA2100 - Data and Information in Business - 3cr.
- MGT4250 - Management Internship - 1cr.
- MGT4720 - Sales and Operations Planning - 2cr.
- MGT4740 - Quality Management - 2cr.
- MGT4760 - Services Management - 2cr.
- MGT4790 - Managing Global Value Chains - 2cr.
- MGT5730 - Lean Continuous Improvement - 3cr.
- NDFS1010 - Chocolate: Science, History, and Society (BPS) - 3cr.
- NDFS1250 - Sanitation and Safety - 3cr.
- NDFS3110 - Food, Technology, Sustainability and Health (DSC) - 3cr.
- NDFS5030 - Dairy Technology and Processing - 3cr.
- NDFS5020 - Meat Science and Technology - 4cr.
- NDFS5040 - Dairy Foods Processing Laboratory - 1cr.

- NDFS5110 - Food Microbiology (CI) - 3cr.
- NDFS5111 - Food Microbiology Laboratory - 1cr.
- NDFS5500 - Food Analysis (QI) - 4cr.
- NDFS5560 - Food Chemistry - 4cr.
- TEE1010 - Graphic Communication Technologies - 3cr.
- TEE1040 - Construction and Estimating - 3cr.
- TEE2030 - Wood-Based Manufacturing Systems - 3cr.
- TESY3030 - Computer-Integrated Manufacturing Systems - 3cr.
- TESY3200 - Additive Manufacturing I - 3cr.
- TESY4230 - Advanced Materials and Processing Systems - 3cr.
- TESY4300 - Intellectual Property for Product Developers - 3cr.
- TESY4330 - Product Innovation Processes, Tools, and Strategies - 3cr.
- TESY4500 - Quality Management Systems - 3cr.
- TESY4510 - Quality Root Cause Analysis Methods and Applications - 3cr.
- TESY4520 - Statistical Quality Control w/SPC - 3cr.
- TESY4530 - Principles of Lean Manufacturing - 3cr.
- TESY4540 - Quality Management Systems II - 3cr.
- UAS1010 - Unmanned Aircraft Systems - Remote Pilot - 3cr.
- UAS1100 - Introduction to Unmanned Aircraft Systems - 1cr.
- UAS1200 - Unmanned Aircraft Systems Introduction to Fixed-Wings - 3cr.
- UAS1300 - Unmanned Aircraft Systems Introduction to Multirotor - 3cr.
- UAS2100 - Unmanned Aircraft Systems Flight Lab - Patterns and Maneuvers - 3cr.
- UAS3010 - Unmanned Aircraft System Introduction to Remote Pilot Certification - 3cr.
- UAS3020 - Part 61 Introduction to Unmanned Aircraft Systems and Flight Lab - 3cr.
- UAS3200 - Fixed-wing Design and Construction Essentials - 3cr.
- UAS3360 - UAS First Person View (FPV) Fundamentals - 3cr.
- UAS3700 - Unmanned Aircraft Systems Video Production - 3cr.

Open Electives

Complete the following as needed:
Total elective credit is determined by General Education courses taken, degree type selected, additional credits earned, and any additional math or other prerequisite courses needed. Please consult your Academic Advisor for details.

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Bachelor's Degree)

Suggested Degree Maps

Degree Map Name
Suggested Degree Map - Engineering Technology - BAS - 4 Year Degree Map
Total Degree Map Credits
119 - 121
Degree Map Effective Catalog Year
2027 -

Degree Map Narrative

- Following is a sample four-year plan. Please note that student-specific plans may differ.
- Meet with an academic advisor to create a specific plan that best fits your academic needs.
- The student is ultimately responsible for knowing and completing all degree requirements.
- Make sure you meet the registration requirements for each class by clicking the course link and checking any prerequisites or corequisites.
- Consultation with an advisor may result in an altered plan customized for an individual student.
- Check your Degree Works for requirements and completion.

Students need a minimum grade of C- in required core classes.

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	15	0

Requirement Select
- DATA1100 - Excel for Business Analysis

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- ENGL1010 - Writing as Inquiry (CL1)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- ETEC1000 - Introduction to Engineering Technology

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- MATH1050 - College Algebra (QL)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- TESY1200 - Computer-Aided Drafting and Design

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Breadth Creative Arts (BCA) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	14 - 15	0

Requirement Select

- ETEC1010 - Engineering Technology Principles
  OR
- TESY1020 - Energy, Power, Transportation Systems Control Technology

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- ETEC2300 - Introduction to Electronics
  OR
- TEE2300 - Electronic Fundamentals (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 4
Progress Credits	-
Contact Hours	3 - 4
Clinical	-
Criticality	No

Requirement Select

- MATH1060 - Trigonometry

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select

- TESY1030 - Material Processing Systems

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Breadth Humanities (BHU) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	17 - 18	0

Requirement Select
- ENGL2020 - Professional Communication (CL2)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- CHEM1210 - Principles of Chemistry I
  OR
- CHEM1110 - General Chemistry I (BPS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- ETEC2310 - Electronics Systems
  OR
- CS1400 - Introduction to Computer Science--CS 1

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 4
Progress Credits	-
Contact Hours	3 - 4
Clinical	-
Criticality	No

Requirement Select
- MATH1210 - Calculus I (QL)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- TESY2200 - Intermediate CAD

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	17	0

Requirement Select
- Breadth American Institutions (BAI) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- PHYS1200 - Introduction to Physics by Hands-on Exploration (BPS)
  OR
- PHYS1800 - Physics of Technology (BPS)
  OR
- PHYS2210 - Physics for Scientists and Engineers I (QI/BPS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- ETEC2020 - Introduction to Automation
  OR
- CS1410 - Introduction to Computer Science--CS 2 (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- ETEC2200 - Engineering Technology Communications

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- STAT2000 - Statistical Methods (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Fall	15	0

Requirement Select

- ETEC3130 - Manufacturing and Quality Systems

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- ETEC3850 - Statics and Strengths of Materials

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- TESY3030 - Computer-Integrated Manufacturing Systems

OR

- TESY4510 - Quality Root Cause Analysis Methods and Applications

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- TESY3200 - Additive Manufacturing I

OR

- TESY4500 - Quality Management Systems

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Breadth Social Sciences (BSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Spring	15	0

Requirement Select

- ETEC3010 - Materials Sciences for Engineering Technology

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- ETEC3020 - Energy Systems

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- MGT3700 - Operations Management
  OR
- TESY4520 - Statistical Quality Control w/SPC

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- TESY3270 - Advanced Computer-Aided Drafting

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Breadth Life Sciences (BLS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Fall	14	0

Requirement Select

- ETEC4200 - Professional Communication and Documentation for Engineering Technology

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- ETEC4900 - Senior Capstone I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- MGT3600 - Project Management

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select

- MGT5730 - Lean Continuous Improvement
  OR
- TESY4530 - Principles of Lean Manufacturing

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Technical Elective (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Spring	12	0

Requirement Select

- ETEC4910 - Senior Capstone II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- MSLE3110 - Managing Organizations and People (DSS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- TESY3000 - Hazard Recognition & Control
  OR
- PUBH3310 - Occupational Health and Safety

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Technical Elective (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	Total Major Credits
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Program Learning Outcomes

Program Learning Outcomes

https://www.usu.edu/oda/assessment/

Entrepreneurship - Minor

Program Overview

College
Jon M. Huntsman School of Business

Department
Marketing and Strategy

Program Level
Undergraduate

Admission Requirements for this Program
No prerequisite courses are required to complete this minor.

Program Requirements

Total Credits Required In Program Coursework
12

Total Credits Required To Earn This Credential
12

Simple Requisites

Program Requirements

An Entrepreneurship Minor is available to all majors at the university. Students are responsible for completing prerequisite courses where applicable. A minimum, average 2.5 GPA must be obtained in the Minor for the Minor to be awarded at graduation. Courses for the minor *may not* be taken on a pass/fail basis. At least nine (9) of the credits for the minor must be completed through USU.

It is recommended to complete the following courses in sequential order.

Section 1

Type
Completion Requirement

Required Courses

Complete ALL of the following Courses:

- MSLE3530 - New Venture Marketing - 3cr.
  OR MSLE3200 - Adobe Graphic Design - 3cr.
- MSLE3540 - New Venture Finance - 3cr.
- MSLE3580 - New Venture Execution - 3cr.
  OR MSLE3555 - Applied Artificial Intelligence in Entrepreneurship - 3cr.

For students interested in pursuing marketing related entrepreneurial ventures, MSLE3200 ADOBE GRAPHIC DESIGN can be taken as substitute for MSLE3530 NEW VENTURE MARKETING.

MSLE3555 AI IN ENTREPRENEURSHIPcan be taken as a substitute for MSLE3580 NEW VENTURE EXECUTION course. MSLE3555 AI IN ENTREPRENEURSHIP is focused on developing entrepreneurial ventures using AI technologies.

Entrepreneurship Options

Fulfill ANY of the following requirements:

Option 1

Complete ALL of the following Courses:

- MSLE3510 - New Venture Creation - 3cr.

Students who did not take MSLE2600 INTRO ENTREPRENEURSHIP in high school for university credit should enroll in MSLE3510 NEW VENTURE CREATION

OR

Option 2

Complete ALL of the following Courses:

- MSLE2600 - Introduction to Entrepreneurship - 3cr.

MSLE2600 INTRO ENTREPRENEURSHIP is intended as a Concurrent Enrollment (high school enrollment) substitute for MSLE3510 NEW VENTURE CREATION in the Minor. Students who did not take MSLE2600 in high school for university credit should enroll in MSLE3510 NEW VENTURE CREATION.

OR

Option 3

Complete ALL of the following Courses:

- MSLE3590 - Small Business Consulting - 2cr.
- MSLE2550 - Entrepreneur Leadership Series - 1cr.

MSLE3590 SMALL BUSINESS CONSULTING (SEED program) can be taken as a substitute for MSLE3510 in the Minor. MSLE3590 SMALL BUSINESS CONSULTING is by advanced application approval and requires prework. Please see the Center for Entrepreneurship for more details.

Note: The Minor requires a minimum of 12 credit hours. If students take MSLE3590 SMALL BUSINESS CONSULTING (2cr) instead of MSLE3510 NEW VENTURE CREATION (3cr), they also need to enroll in the online, instructor approval required, section of MSLE2550 ENTREPRENEUR LEADERSHIP SERIES (1cr) so they fulfill the 12 credit hours of entrepreneurship courses for a Minor.

Program Learning Outcomes

Program Learning Outcomes
https://huntsman.usu.edu/assessment/assessment-plan

Environment and Society - MS

Program Overview

College
College of Agriculture & Natural Resources

Department
Environment & Society

Program Level
Graduate

About this Degree

The MS in Environment and Society is an interdisciplinary master's degree with both Plan A (thesis) and Plan B (paper/project) options. It allows for a personalized program of study built around a core of environmental social and behavioral science, with additional work drawn from the biophysical and geospatial sciences as appropriate to the student's research and professional goals. Focus is on policy and management as well as on contribution to basic scientific understanding of socio-environmental systems and human-environment interactions. For additional degree information, see the program page on the Department of Environment and Society website. Students may complete the Graduate Specialization in Climate Adaptation Science Specialization as a part of this degree.

Program Requirements

Total Credits Required In Program Coursework
30

Total Credits Required To Earn This Credential
30

Simple Requisites

Program Requirements

Requirements for this degree include the graduate school and program requirements outlined below.

Graduate School and Home Department Requirements:

- **Degree Verification:** A bachelor's degree from an accredited U.S. college or university or a similarly recognized international university is required for admission to and completion of a graduate program. An official transcript must be sent directly to the School of Graduate Studies.
- **Overall Graduate GPA at least 3.0 and no grades of C- or lower:** Graduate students are required to maintain at least a 3.0 GPA for degree-program courses. Grades of C- or lower will not be accepted for a graduate degree.
- **Course Number Acceptability:** The program of study for a master's degree cannot include more than 12 semester credits of courses below the 6000 level. Credits in the following areas are not acceptable in a degree program: foreign languages (unless included in an approved Program of Study), continuing graduate advisement, individual home study, military science, and courses numbered below 5000.
- **Matriculation Start Semester:** A master's degree must be completed within six years of entering the degree program. Additional time may be requested by the student's advisor and submitted to the Vice Provost of Graduate Studies for review.
- **Coursework Validity:** Coursework over eight years old at the time of degree completion may not be used for a graduate degree unless it is revalidated.
- **Thesis Research Credits 6970:** Plan A students must take at least 6 thesis (ENVS 6970) credits/Plan B students must take a minimum of 2 credits of thesis research (ENVS 6970) but no more than 3 can be included on an approved Program of Study.
- Presentation at the Department's Pre-Project Graduate Research Symposium.
- Completion of the Responsible Conduct of Research (*RCR*) Training
- Approval of a thesis (Plan A) or paper/project (Plan B) proposal.
- Successful defense of the thesis (Plan A) or paper/project (Plan B).
- Submission of thesis to the School of Graduate Studies and library for review and approval, or of the paper/project to the library.
- Completion of academic forms required by the School of Graduate Studies.
    - Supervisory Committee Approval
    - Program of Study
    - Master's Thesis Proposal/Project Approval
    - Appointment for Examination
    - Record of Examination
    - Application for Graduation

Requirements

Type
Completion Requirement

A. Complete the Required Core (4 credits):

Complete ALL of the following Courses:

- ENVS6800 - Environment and Society Departmental Colloquium - 1cr.
- ENVS6840 - Graduate Orientation Seminar for Environment and Society - 1cr.
- ENVS6841 - The Socio-Environmental Research Process - 1cr.
- ENVS6842 - Methodology for Socio-Environmental Research - 1cr.

B. Complete a Committee-Approved Plan of Study (minimum of 26 additional credits) that includes:

1. Theory coursework (at least 3 credits)

2. Methods/analysis coursework (at least 3 credits)

3. Thesis research (Plan A) or a paper/project (Plan B)

ENVS6970 THESIS RESEARCH (6 credits for Plan A or 2-3 credits for Plan B)

4. Elective courses (14 credits Plan A or 17-18 credits Plan B)

Complete ALL of the following Courses:

- ENVS6970 - Thesis Research - 1cr.

Program Learning Outcomes

Program Learning Outcomes

https://qanr.usu.edu/envs/about/assessment

Environment and Society - PhD

Program Overview

College
College of Agriculture & Natural Resources

Department
Environment & Society

Program Level
Graduate

About this Degree

The PhD in Environment and Society is an interdisciplinary doctoral degree. It allows for a personalized program of study built around a core of environmental social and behavioral science, with additional work drawn from the biophysical and geospatial sciences as appropriate to the student's research and professional goals. Focus is on policy and management as well as on contribution to basic scientific understanding of socio-environmental systems and human-environment interactions. For additional degree information, see the program page on the Department of Environment and Society website. Students may complete the Graduate Specialization in Climate Adaptation Science Specialization as a part of this degree.

Program Requirements

Total Credits Required In Program Coursework
30-60

Total Credits Required To Earn This Credential
30-60

Simple Requisites

Program Requirements

Requirements for this degree include graduate school and program requirements outlined below.

Graduate School and Department of Environment & Society Requirements:

- **Degree Verification:** A bachelor's degree from an accredited U.S. college or university or a similarly recognized international university is required for admission to and completion of a graduate program. An official transcript must be sent directly to the School of Graduate Studies.
- **Overall Graduate GPA at least 3.0 and no grades of C- or lower:** Graduate students are required to maintain at least a 3.0 GPA for degree-program courses. Grades of C- or lower will not be accepted for a graduate degree.
- **Course Number Acceptability:** The program of study for a doctoral degree cannot include more than 12 semester credits of courses below the 6000 level. Credits in the following areas are not acceptable in a degree program: foreign languages (unless included in an approved Program of Study), continuing graduate advisement, individual home study, military science, and courses numbered below 5000.
- **Matriculation Start Semester:** A doctoral degree must be completed within eight years of entering the degree program. Additional time may be requested by the student's advisor and submitted to the Vice Provost of Graduate Studies for review.
- **Coursework Validity:** Coursework over eight years old at the time of degree completion may not be used for a graduate degree unless it is revalidated.
- **Dissertation Research Credits 7970:** A minimum of 12 dissertation credits (7970) is required if the student has a master's degree and a minimum of 18 dissertation credits (7970) is required if the student has a bachelor's degree.
- Presentation at the Department's Pre-Project Graduate Research Symposium.
- Completion of the Responsible Conduct of Research (*RCR*) Training.
- Successful defense of the dissertation.
- Submission of the dissertation to the School of Graduate Studies and library for review and approval.
- Completion of academic forms required by the School of Graduate Studies.
    - Supervisory Committee Approval
    - Program of Study
    - Application for Candidacy
    - Appointment for Examination
    - Record of Examination
    - Application for Graduation

Required Courses

Type
Completion Requirement

A. Complete the Required Core (4 credits):

Complete ALL of the following Courses:

- ENVS7800 - Environment and Society Departmental Colloquium - 1cr.
- ENVS7840 - Graduate Orientation Seminar for Environment and Society - 1cr.
- ENVS7841 - The Socio-Environmental Research Process - 1cr.
- ENVS7842 - Methodology for Socio-Environmental Research - 1cr.

B. Complete a Committee-Approved Plan of Study (minimum of 26 additional credits with an approved MS and 56 additional credits without an approved MS) that Includes:

1. Theory coursework (at least 3 credits)
2. Methods/analysis coursework (at least 3 credits)
3. Dissertation (ENVS7970 DISSERTATION RESEARCH) (12 credits with approved MS or 18 credits without an approved MS)
4. Elective courses (8 credits with approved MS or 32 credits without an approved MS)

Complete ALL of the following Courses:

- ENVS7970 - Dissertation Research - 1cr.

Program Learning Outcomes

Program Learning Outcomes

https://qanr.usu.edu/envs/about/assessment

Equine Assisted Services - Institutional Certificate of Proficiency

Program Overview

College
College of Agriculture & Natural Resources

Department
Animal, Dairy & Veterinary Sciences

Program Level
Undergraduate

About this Degree

The Equine-Assisted Services Institutional Certificate of Proficiency (ICP) is a 12-credit program that provides a foundational overview of the field of Equine-Assisted Services (EAS). In EAS, horses are incorporated into various therapies, learning environments, and adaptive equestrian sports and/or recreational lessons to benefit humans' mental, physical, and emotional health. Through the required courses, students will gain an understanding of the principles of EAS, how to train and assess horses for EAS, and the fundamentals of instructing horsemanship skills. Students will choose an additional course to enhance their learning in topics such as the human-animal bond, teaching, management, or leadership. Hands-on labs are provided to enhance student learning. With this foundational knowledge of EAS, students will be prepared to pursue industry certifications.

Admission Requirements for this Program

Students must be in good standing (2.0 GPA or higher) to be admitted to the program.

Program Requirements

Total Credits Required In Program Coursework
12

Total Credits Required To Earn This Credential
12

Simple Requisites

Program Requirements

1. Attain a grade point average of at least 2.50 across all courses applied toward this certificate.
2. Courses required for the certificate may *not* be taken for a *pass/fail* grade except for courses that are only offered as pass/fail.
3. A minimum grade of C is required in all courses applied toward this certificate.

Equine-Assisted Services Course Requirements

Type
Completion Requirement

Required Courses (12 credits)

Complete ALL of the following Courses:

- ADVS2800 - Riding Fundamentals for Instructors - 3cr.
- ADVS3150 - Principles of Equine-Assisted Services - 3cr.
- ADVS3610 - Training and Conditioning of the Lesson Horse - 3cr.
- ADVS5710 - Conceptualizing the Human-Animal Bond - 3cr.
  OR ASTE2100 - Personal and Team Leadership - 3cr.
  OR ASTE4155 - Nonformal Teaching Methods - 3cr.
  OR ASTE4215 - Community Programming and Evaluation - 3cr.
  OR ASTE5220 - Volunteer Programs and Partnerships - 3cr.
  OR MSLE3110 - Managing Organizations and People (DSS) - 3cr.

NOTE:

1. ADVS2800 RIDING FUND FOR INSTRUCTORS has a prerequisite of ADVS1200 BASIC HORSEMANSHIP SKILLS.

Program Learning Outcomes

Program Learning Outcomes

https://qanr.usu.edu/advs/assessment/

Equine Science and Management - BS

Program Overview

College
College of Agriculture & Natural Resources

Department
Animal, Dairy & Veterinary Sciences

Program Level
Undergraduate

About this Degree

The Equine Science and Management BS degree includes the core scientific disciplines of animal science while focusing on the biological, behavioral, and management principles central to the equine industry. Students gain a broad understanding of current scientific applications in equine health, performance, welfare, and management practices.

Students in this program will not only explore these areas in the classroom, but will also engage in applied experiences in areas such as equine nutrition, reproduction and physiology, behavior and training, facility and herd management, and equine industry operations.

- For more information about the Department of Animal, Dairy & Veterinary Sciences, see the website.
- If you are a new/entering student, we strongly recommend reviewing the suggested degree map.
- Admitted and current students must meet with an advisor (see below).
- Log on to Degree Works to check student-specific program progress.
- The highest math requirement for this degree is MATH1050 COLLEGE ALGEBRA (QL).

Contact Caisa Shoop at caisa.shoop@usu.edu, 435-797-4275, or here for advising.

Admission Requirements for this Program

- New freshmen: Admitted to USU in Good Standing
- Transfer students from other institutions or other programs at USU: 2.75 GPA

Program Requirements

Total Credits Required In Program Coursework
89

Total Credits Required To Earn This Credential
120

Simple Requisites

Program Requirements

1. Attain a grade point average of at least 2.50 across all ADVS courses.
2. Courses required for the major may *not* be taken for a *pass/fail* grade, except for courses that are only offered as pass/fail.
3. To graduate with a degree in this major, students must attain a GPA of at least 2.25 for all required courses for the major.

Contact Caisa Shoop at caisa.shoop@usu.edu, 435-797-4275, or here for advising.

Requirements

Type
Completion Requirement

Required Courses (80 credits)

Complete ALL of the following Courses:

- ADVS1050 - Animal, Dairy and Veterinary Science Academic and Career Orientation I - 1cr.
- ADVS1060 - Animal, Dairy, and Veterinary Science Academic and Career Orientation II - 1cr.
- ADVS1110 - Introduction to Animal Science (BLS) - 3cr.
- ADVS1200 - Basic Horsemanship Skills - 3cr.
- ADVS1600 - Riding Fundamentals I - 3cr.
  OR ADVS2400 - Riding Fundamentals II - Intermediate - 3cr.
  OR ADVS2800 - Riding Fundamentals for Instructors - 3cr.
- ADVS2190 - Horse Production Practices - 3cr.
- ADVS2200 - Anatomy and Physiology of Animals - 3cr.
- ADVS2203 - Anatomy and Physiology of Animals: Exploratory Laboratory - 1cr.
  OR ADVS2205 - Anatomy and Physiology of Animals: Applied Laboratory - 1cr.
- ADVS2300 - Horse Health Care - 2cr.
- ADVS2500 - Feeds and Feeding - 3cr.
- ADVS3000 - Animal Health and Hygiene - 3cr.
- ADVS3100 - Equine Evaluation and Judging - 3cr.
- ADVS3300 - Equine Lower Limb Form and Function - 3cr.
- ADVS3520 - Equine Nutrition and Exercise Physiology - 3cr.
- ADVS4200 - Physiology of Reproduction and Lactation (CI) - 4cr.
- ADVS4270 - Internship in Equine Industry - 1cr.
- ADVS4560 - Principles of Animal Genetics and Breeding (QI) - 3cr.
- ADVS4920 - Undergraduate Seminar (CI) - 2cr.
- ADVS5190 - Equine Business Management - 2cr.
- APEC2120 - Small Firm Accounting Basics - 3cr.
- APEC2310 - Small Firm Management - 3cr.
- BIOL1610 - Biology I - 3cr.
- BIOL1615 - Biology I Laboratory - 1cr.
- BIOL1620 - Biology II (BLS) - 3cr.
- BIOL1625 - Biology II Laboratory - 1cr.
- CHEM1210 - Principles of Chemistry I - 4cr.
- CHEM1215 - Chemical Principles Laboratory I - 1cr.
- CHEM1220 - Principles of Chemistry II (BPS) - 4cr.
- CHEM1225 - Chemical Principles Laboratory II - 1cr.
- MATH1050 - College Algebra (QL) - 4cr.
- STAT1040 - Introduction to Statistics (QL) - 3cr.

NOTE:

1. A minimum of 3 credits of ADVS4270 INTERNSHIP IN EQUINE INDUSTRY is required.

Directed Electives (9 credits)

Earn at least 9 credits from the following:

- ACCT2010 - Financial Accounting Principles - 3cr.
- ADVS2100 - Weanling Behavior and Handling - 3cr.
- ADVS2150 - Yearling Fitting and Sales Preparation - 3cr.
- ADVS2400 - Riding Fundamentals II - Intermediate - 3cr.
- ADVS2600 - Riding Fundamentals II--Western - 2cr.
- ADVS2800 - Riding Fundamentals for Instructors - 3cr.
- ADVS3150 - Principles of Equine-Assisted Services - 3cr.
- ADVS3280 - Applied Animal Molecular & Cellular Biology - 4cr.
- ADVS3300 - Equine Lower Limb Form and Function - 3cr.
- ADVS3600 - Equine Behavior and Training - 3cr.
- ADVS3610 - Training and Conditioning of the Lesson Horse - 3cr.
- ADVS3750 - Equine Behavior and Training II - 3cr.

- ADVS3920 - Ag Animal Extension Field Experience - 1cr.
- ADVS4220 - Applied Equine Reproduction I - 3cr.
- ADVS4310 - Animal Growth and Development - 3cr.
- ADVS5620 - Advanced Animal Physiology - 3cr.
- ADVS5860 - Poisonous Range Plants Affecting Livestock - 3cr.
- APEC1400 - Introduction to Agriculture Policy (BSS) - 3cr.
- APEC2010 - Introduction to Microeconomics (BSS) - 3cr.
- APEC2500 - Commodity Futures and Options Trading and Analysis - 3cr.
- APEC2830 - Agribusiness Sales and Marketing - 3cr.
- APEC3010 - Agricultural Economics (DSS) - 3cr.
- ASTE3600 - Data Management of Agricultural Systems (QI) - 3cr.
- BUSN2050 - Business Law - 3cr.
- BUSN2320 - Small Business Management - CTE - 3cr.
- DATA2100 - Data and Information in Business - 3cr.
- MSLE3110 - Managing Organizations and People (DSS) - 3cr.
- MSLE3500 - Fundamentals of Marketing - 3cr.
- MSLE3510 - New Venture Creation - 3cr.
- MSLE3530 - New Venture Marketing - 3cr.
- MSLE3540 - New Venture Finance - 3cr.
- MSLE3580 - New Venture Execution - 3cr.
- PSC2010 - Soils, Waters, and the Environment (BPS) - 3cr.
- PSC4320 - Forage Production and Pasture Management - 3cr.
- WILD4000 - Principles of Rangeland Management - 3cr.

NOTE:

1. A maximum of 6 directed elective credits may be experiential learning courses (currently ADVS3920 AG ANIMAL FIELD EXP).

Open Electives

Complete the following as needed:
Total elective credit is determined by General Education courses taken, degree type selected, additional credits earned, and any additional math or other prerequisite courses needed. Please consult your academic advisor for details.

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Bachelor's Degree)

Suggested Degree Maps

Degree Map Name
Suggested Degree Map - Equine Science and Management, BS
Total Degree Map Credits
117 - 123
Degree Map Effective Catalog Year
2027 -

Degree Map Narrative

- Following is a sample four-year plan. Please note that student-specific plans may differ.
- Meet with an academic advisor to create a specific plan that best fits your academic needs.
- The student is ultimately responsible for knowing and completing all degree requirements.
- Make sure you meet the registration requirements for each class by clicking the course link and checking any prerequisites or corequisites.
- Consultation with an advisor may result in an altered plan customized for an individual student.
- Check your Degree Works for requirements and completion.

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	15	0

Requirement Select
- ADVS1050 - Animal, Dairy and Veterinary Science Academic and Career Orientation I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- ADVS1110 - Introduction to Animal Science (BLS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- BIOL1610 - Biology I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- BIOL1615 - Biology I Laboratory

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- ENGL1010 - Writing as Inquiry (CL1)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- MATH1050 - College Algebra (QL)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	14	0

Requirement Select
- ADVS1060 - Animal, Dairy, and Veterinary Science Academic and Career Orientation II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- ADVS1200 - Basic Horsemanship Skills

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- ADVS2190 - Horse Production Practices

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- BIOL1620 - Biology II (BLS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- BIOL1625 - Biology II Laboratory

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- STAT1040 - Introduction to Statistics (QL)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	16	0

Requirement Select

- ADVS1600 - Riding Fundamentals I
  OR
- ADVS2400 - Riding Fundamentals II - Intermediate
  OR
- ADVS2800 - Riding Fundamentals for Instructors

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- ADVS2300 - Horse Health Care

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select

- ADVS2500 - Feeds and Feeding

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- APEC1600 - Natural Resources and American Economic Institutions (BAI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- CHEM1210 - Principles of Chemistry I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- CHEM1215 - Chemical Principles Laboratory I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- Riding Fundamentals choice is dependent upon student's riding ability; APEC1600 is recommended to fulfill the BAI requirement (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	16	0

Requirement Select
- ADVS2200 - Anatomy and Physiology of Animals

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- ADVS2203 - Anatomy and Physiology of Animals: Exploratory Laboratory
  OR
- ADVS2205 - Anatomy and Physiology of Animals: Applied Laboratory

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- APEC2010 - Introduction to Microeconomics (BSS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- CHEM1220 - Principles of Chemistry II (BPS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- CHEM1225 - Chemical Principles Laboratory II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- ENGL2010 - Research and Argument Across Perspectives (CL2)
  OR
- ENGL2020 - Professional Communication (CL2)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- APEC2010 is recommended to fulfill the BSS requirement (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Fall	15 - 19	0

Requirement Select
- ADVS3000 - Animal Health and Hygiene

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- ADVS3300 - Equine Lower Limb Form and Function

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- ADVS3520 - Equine Nutrition and Exercise Physiology

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- APEC2120 - Small Firm Accounting Basics

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Breadth Creative Arts (BCA) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Depth Social Sciences (DSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	0 - 4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Spring	15	0

Requirement Select
- ADVS3100 - Equine Evaluation and Judging

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- APEC2310 - Small Firm Management

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Breadth Humanities (BHU) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Directed elective course (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Directed elective course (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Fall	14	0

Requirement Select

- ADVS4200 - Physiology of Reproduction and Lactation (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- ADVS4270 - Internship in Equine Industry

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	1 - 12
Clinical	-
Criticality	No

Requirement Select

- ADVS4560 - Principles of Animal Genetics and Breeding (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- ADVS4920 - Undergraduate Seminar (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select

- ADVS5190 - Equine Business Management

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select

- Enroll in 3 credits of ADVS4270 (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Spring	12 - 14	0

Requirement Select

- Depth Humanities and Creative Arts (DHA) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1 - 3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Directed elective course (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Directed elective course (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Directed elective course (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- General elective course (2 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Program Learning Outcomes

Program Learning Outcomes

https://qanr.usu.edu/advs/assessment/

Equine - Minor

Program Overview

College	Department	Program Level
College of Agriculture & Natural Resources	Animal, Dairy & Veterinary Sciences	Undergraduate

About this Degree

A minor can be valuable when associated with a major in agricultural education, agricultural economics, plant science, nutrition and food science, business, economics, computer science, rangeland resources, and in other disciplines where the animal industry has direct or indirect involvement.

The Equine minor offers courses that cover equine healthcare and maintenance, basic equine conformation, and topics essential to current equine industry careers. The Equine minor is designed to enrich students' general studies and provide hands-on learning experiences throughout their education. The minor is appropriate for students who are interested in pursuing agriculturally-based careers and would like to broaden their equine knowledge.

Program Requirements

Total Credits Required In Program Coursework	Total Credits Required To Earn This Credential
14	14

Simple Requisites

Program Requirements

1. Attain a grade point average of at least 2.50 across all ADVS courses.
2. Courses required for the minor may *not* be taken for a *pass/fail* grade except for courses that are only offered as pass/fail.
3. A minimum grade of C is required in all courses applied toward this minor.

The following is a listing of courses for the minor. A specific course may not be used to fulfill the requirements of more than one ADVS minor.

Section 1

Type
Completion Requirement

Requirements

Complete ALL of the following Courses:

- ADVS1110 - Introduction to Animal Science (BLS) - 3cr.
- ADVS2190 - Horse Production Practices - 3cr.
- ADVS2300 - Horse Health Care - 2cr.
- ADVS3100 - Equine Evaluation and Judging - 3cr.

Choose one course from the following:

Complete at least 1 of the following courses:

- ADVS1200 - Basic Horsemanship Skills - 3cr.
- ADVS2500 - Feeds and Feeding - 3cr.
- ADVS3520 - Equine Nutrition and Exercise Physiology - 3cr.
- ***Or one other equine-related ADVS course with the approval of the ADVS academic advisor.***

Program Learning Outcomes

Program Learning Outcomes

https://qanr.usu.edu/advs/assessment/

Environmental Science and Sustainability - BS

Program Overview

College
College of Agriculture & Natural Resources

Department
Environment & Society

Program Level
Undergraduate

About this Degree

Environmental Science and Sustainability majors learn foundational knowledge of biological, chemical, and physical principles integrated with environmental social science on human behavior, decision-making, and policy in relation to human interactions with the natural environment. Compared to the Environmental Studies BS, the Environmental Science and Sustainability BS provides a stronger foundation in the natural sciences and opportunities for added natural science depth.

Students integrate across different types of knowledge to prepare to help society face the challenges of environmental change and work towards environmental sustainability.

- Admitted and current students must meet with an academic advisor for help with semester-by-semester planning, connections to co-curricular experiences, understanding of USU policies, and accessing USU resources.
- Log on to Degree Works to check student-specific program progress.
- The highest math requirement for this degree is STAT2000 STATISTICAL METHODS (QI), STAT3000 STATISTICS FOR SCIENTISTS (QI), or STAT3080 DATA SCIENCE FOR SCIENTISTS.

Admission Requirements for this Program

- New freshmen: Admitted to USU in Good Standing
- Transfer students from other institutions or other programs at USU: 2.5 GPA

Program Requirements

Total Credits Required In Program Coursework
72-84

Total Credits Required To Earn This Credential
120

Simple Requisites

Program Requirements

All courses required for the major must be taken on an A-B-C-D-F basis. A grade of *C-* or better and a grade point average of 2.5 or higher is required for all ENVS, GEOG, WATS, or WILD courses used to meet requirements for the major.

Major Requirements

Type
Completion Requirement

A. Professional & Integrative Core (22-23 credits)

Fulfill ALL of the following requirements:

Integrated Introduction (6 credits)

Complete ALL of the following Courses:

- ENVS1350 - Introduction to Environmental Science (BLS) - 3cr.
- ENVS2340 - Environment, Natural Resources, and Society (BSS) - 3cr.

AND

College Professional Orientation and Student Success Course (1 credit)

Complete ANY of the following Courses:

- ENVS2000 - Natural Resource Professional Orientation - 1cr.
  OR WATS2000 - Natural Resource Professional Orientation - 1cr.
  OR WILD2000 - Natural Resource Professional Orientation - 1cr.

AND

Professional Series (9 credits)

Complete ALL of the following Courses:

- ENVS3010 - Natural Resource and Environmental Policy - 3cr.
- ENVS3500 - Environmental Data Science (QI) - 3cr.
- ENVS5750 - Global Change Ecology - 3cr.

AND

Communication Course (2-3 credits)

Complete ANY of the following Courses:

- ENVS5600 - Natural Resource Interpretation - 3cr.
- ENVS4700 - Communicating Sustainability (CI) - 3cr.
- MSLE3855 - Sustainability Marketing - 2cr.

AND

Geospatial Analysis Course (4 credits)

Complete ANY of the following Courses:

- GEOG2800 - Introduction to Geographic Information Sciences - 4cr.
- WILD2800 - Introduction to Geographic Information Sciences - 4cr.

B. Math, Statistics, & Natural Sciences Foundations (30-34 credits)

Fulfill ALL of the following requirements:

Math & Statistics Foundation (6-8 credits)

Complete ALL of the following Courses:

- MATH1050 - College Algebra (QL) - 4cr.
  OR MATH1100 - Calculus Techniques (QL) - 3cr.
  OR MATH1170 - Modeling Change: Calculus in Life and Society - 4cr.
  OR MATH1210 - Calculus I (QL) - 4cr.
- STAT2000 - Statistical Methods (QI) - 4cr.
  OR STAT3000 - Statistics for Scientists (QI) - 3cr.
  OR STAT3080 - Data Science for Scientists - 3cr.

MATH1170 MODELING CHANGE and STAT3080 DATA SCIENCE FOR SCIENTISTS are the preferred options.

AND

Chemistry Foundation (9-10 credits)

Select one chemistry track (1110, 1120, 1125 *OR* 1210, 1215, 1220, 1225) for a total of 9-10 credits. 1210-1225 track is the preferred option for careers in science and to meet prerequisites for some electives

Earn at least 9 credits from the following:

- CHEM1110 - General Chemistry I (BPS) - 4cr.
  AND CHEM1120 - General Chemistry II (BPS) - 4cr.
  AND CHEM1125 - General Chemistry II Laboratory - 1cr.
- CHEM1210 - Principles of Chemistry I - 4cr.
  AND CHEM1215 - Chemical Principles Laboratory I - 1cr.
  AND CHEM1220 - Principles of Chemistry II (BPS) - 4cr.
  AND CHEM1225 - Chemical Principles Laboratory II - 1cr.

AND

Earth Sciences Foundation (6 credits)

Complete at least 1 of the following courses:

- GEOG1000 - Physical Geography (BPS) - 3cr.
- GEO1110 - Physical Geology (BPS) - 3cr.

We additionally strongly recommend that Logan-based students take the accompanying lab course, either GEOG1005 PHYSICAL GEOGRAPHY LAB or GEO1115 PHYSICAL GEOLOGY LAB

AND

Earth Sciences Foundation Electives

Select one additional Earth Sciences Foundation course from the following:

Complete at least 1 of the following courses:

- GEO2200 - The Earth Through Time - 3cr.
- GEO3100 - Natural Disasters (DSC) - 3cr.
- GEO3300 - Geology of the World's Oceans (DSC) - 3cr.
- PSC2010 - Soils, Waters, and the Environment (BPS) - 3cr.
- PSC3000 - Fundamentals of Soil Science - 4cr.
- GEO3600 - Geomorphology - 4cr.

AND

Biology/Ecology Foundation (9 credits)

Complete ALL of the following Courses:

- BIOL1610 - Biology I - 3cr.
- BIOL1620 - Biology II (BLS) - 3cr.
- WATS2220 - General Ecology - 3cr.

C. Systems & Management Directed Electives (20-27 credits)

Fulfill ALL of the following requirements:

Sustainability & Human-Environment Systems Electives (9 credits)

Complete at least 3 of the following courses:

- APEC3012 - Introduction to Natural Resource Economics (DSS) - 3cr.
- ENVS3320 - Archaeology of Climate Change (DSS) - 3cr.
- ENVS4020 - Foundations of Environmental Thought (DHA/CI) - 3cr.
- ENVS5100 - Introduction to Modeling Human-Environment Systems - 3cr.
- ENVS5200 - Anthropological Perspectives on Conservation - 3cr.
- ENVS4970 - Undergraduate Research - 1cr.
- ENVS5350 - Ecological Economics - 3cr.
- ENVS5550 - Sustainability: Concepts and Measurement - 3cr.
- GEOG3100 - Human-Environment Geography (CI) - 3cr.
- GEOG4210 - Geography of Utah - 3cr.
- GEOG5400 - Natural Hazards and Society - 3cr.
- LAEP2039 - Foundations of Sustainable Systems - 3cr.
- SOC3300 - Sociology of Climate Change - 3cr.
- SOC3310 - Environmental Justice - 3cr.
- SOC3610 - Rural People and Places (DSS) - 3cr.
- SOC4620 - Sociology of the Environment and Natural Resources (DSS) - 3cr.

AND

Atmosphere, Geosphere & Hydrosphere Electives (5-8 credits)

Complete at least 2 of the following courses:

- CHEM3650 - Environmental Chemistry (DSC) - 3cr.
- GEO5510 - Groundwater Geology (QI) - 3cr.
- PSC3000 - Fundamentals of Soil Science - 4cr.
- PSC4810 - Climate and Climate Change (DSC)(QI) - 3cr.
- PSC5410 - Hydroclimate - 3cr.
- PSC5500 - Environmental Physics of Land Ecosystems & Climate - 3cr.
- WATS3600 - Geomorphology - 4cr.
- WATS3700 - Fundamentals of Watershed Science (CI) - 3cr.
- WATS5210 - The Secret Life of Elements on Earth - 2cr.
- WATS5500 - Limnology: Ecology of Inland Waters - 3cr.

AND

Environmental Management & Sustainability Techniques Electives (6-10 credits)

Complete at least 2 of the following courses:

- ENVS3300 - Fundamentals of Natural Resource Recreation Management - 3cr.
- ENVS4000 - Human Dimensions of Natural Resource Management (DSS) - 3cr.
- ENVS4030 - Building Community Environmental Resilience - 3cr.
- ENVS4130 - Natural Resource Recreation Policy and Planning - 3cr.
- ENVS4200 - Sustainability Metrics - 3cr.
- ENVS4250 - Advanced Internship/Co-op - 1cr.
- ENVS4500 - Advanced Natural Resource Recreation Management (CI) - 3cr.
- ENVS5020 - Human Dimensions of Fire Management - 3cr.
- GEO3150 - Energy in the Twenty-first Century (DSC/QI) - 3cr.
- GEOG3800 - Geospatial Data Visualization - 3cr.
- LAEP5200 - Bioregional Analysis and Planning - 5cr.
- LAEP5210 - Bioregional Management and Policy - 5cr.
- LAEP5370 - City and Regional Planning (CI) - 3cr.
- LAEP5380 - Planning Methods - 3cr.
- PSC4500 - Urban Soil Management and Reclamation - 3cr.
- WATS4100 - Climate Adaptation Intern Program - 3cr.
- WILD4700 - Ecological Foundations of Restoration - 3cr.
- WATS5360 - Wetland Ecology and Management - 3cr.
- WATS5530 - Water Quality and Pollution - 3cr.
- WATS5600 - Environmental Water Management - 3cr.

Open Electives

Complete the following as needed:
Total elective credit is determined by General Education courses taken, degree type selected, additional credits earned, and any additional math or other prerequisite courses needed. Please consult your Academic Advisor for details.

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Bachelor's Degree)

Suggested Degree Maps

Degree Map Name
Suggested Degree Map - Environmental Science and Sustainability BS
Total Degree Map Credits
110 - 133
Degree Map Effective Catalog Year
2027 -

Degree Map Narrative

- Following is a sample four-year plan. Please note that student-specific plans may differ.
- Meet with an academic advisor to create a specific plan that best fits your academic needs.
- The student is ultimately responsible for knowing and completing all degree requirements.
- Make sure you meet the registration requirements for each class by clicking the course link and checking any prerequisites or corequisites.
- Consultation with an advisor may result in an altered plan customized for an individual student.
- Check your Degree Works for requirements and completion.

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	13 - 14	0

Requirement Select
- ENGL1010 - Writing as Inquiry (CL1)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- ENVS2000 - Natural Resource Professional Orientation
  OR
- WILD2000 - Natural Resource Professional Orientation
  OR
- WATS2000 - Natural Resource Professional Orientation

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- BIOL1610 - Biology I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- MATH1050 - College Algebra (QL)
  OR
- MATH1100 - Calculus Techniques (QL)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 4
Progress Credits	-
Contact Hours	3 - 4
Clinical	-
Criticality	No

Requirement Select
- Breadth Humanities (BHU) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	15 - 16	0

Requirement Select

- ENGL2010 - Research and Argument Across Perspectives (CL2)
  OR
- ENGL2020 - Professional Communication (CL2)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- BIOL1620 - Biology II (BLS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- WATS2220 - General Ecology

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- STAT2000 - Statistical Methods (QI)
  OR
- STAT3000 - Statistics for Scientists (QI)
  OR
- STAT3080 - Data Science for Scientists

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 4
Progress Credits	-
Contact Hours	3 - 4
Clinical	-
Criticality	No

Requirement Select

- Breadth Creative Arts (BCA) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	15	0

Requirement Select

- ENVS1350 - Introduction to Environmental Science (BLS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- ENVS2340 - Environment, Natural Resources, and Society (BSS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- CHEM1210 - Principles of Chemistry I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- CHEM1215 - Chemical Principles Laboratory I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- GEOG1000 - Physical Geography (BPS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- GEOG1005 - Physical Geography Lab

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	15	0

Requirement Select
- GEOG2800 - Introduction to Geographic Information Sciences
  OR
- WILD2800 - Introduction to Geographic Information Sciences
  OR
- WATS2800 - Introduction to Geographic Information Sciences

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- CHEM1220 - Principles of Chemistry II (BPS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- CHEM1225 - Chemical Principles Laboratory II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- Breadth American Institutions (BAI) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective or Other Program Course (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Fall	13 - 15	0

Requirement Select
- ENVS3010 - Natural Resource and Environmental Policy

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- ENVS3500 - Environmental Data Science (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Depth Humanities and Creative Arts (DHA) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1 - 3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Directed Electives (6 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Spring	15	0

Requirement Select
- ENVS4700 - Communicating Sustainability (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- PSC2010 - Soils, Waters, and the Environment (BPS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Directed Electives (7 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	7
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Electives (2 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Fall	9 - 28	0

Requirement Select
- Directed Electives (6 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Communications Intensive (CI) Courses

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	0 - 15
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Depth Social Sciences (DSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	0 - 4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective or Other Program Course (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Spring	15	0

Requirement Select
- ENVS4750 - Global Change Ecology

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Directed Electives (6 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Electives or other Program Courses (6 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Program Learning Outcomes

Program Learning Outcomes

At the end of this program, students will be able to…

1. Articulate basic understanding of chemistry, biology, and the earth sciences.
2. Integrate basic disciplinary science understanding in the context of environmental change.
3. Conceptualize social-environmental systems.
4. Apply systems thinking to understanding and addressing complex environmental problems.
5. Effectively communicate and initiate sustainability behaviors and policies grounded in environmental science.
6. Apply analytical tools to an environmental science context.

https://qanr.usu.edu/envs/about/assessment

Elementary School Music Teaching - Minor

Program Overview

College
College of Arts & Sciences

Department
Music

Program Level
Undergraduate

About this Degree

This minor is for Early Childhood Education or Elementary Education majors only.

Advisor: Cary Youmans, 797-0513, Fine Arts 127

Admission Requirements for this Program

Students wishing to add the Elementary School Music Teaching minor should make an appointment with Cary Youmans.

Program Requirements

Total Credits Required To Earn This Credential

20

Simple Requisites

Program Requirements

At least one-half of the credits taken for the Elementary School Music Teaching minor must be taken at Utah State University.

Section 1

Type

Completion Requirement

Requirements (20)

Complete ALL of the following Courses:

- MUSC1010 - Introduction to Music (BCA) - 3cr.
- MUSC1100 - Fundamentals of Music for Non-Music Majors (BCA) - 3cr.
- MUSC1480 - Individual Piano Instruction for Nonmusic Majors - 1cr.
- MUSC1550 - Beginning Group Guitar - 1cr.
  OR MUSC1560 - Intermediate Group Guitar - 1cr.
- MUSC1600 - Voice Techniques - 1cr.
  OR MUSC1630 - Individual Vocal Instruction for Nonmusic Majors - 1cr.
- MUSC3260 - Elementary School Music - 3cr.

● Level 1 Orff Schulwerk Teacher Training (Summer only) (4 credits)
● Choral Ensemble (2 credits)
● Large or Small Ensemble (2 credits)

NOTES:

1. MUSC1480 PIANO INSTR-NONMAJOR and MUSC1630 VOCAL INSTR-NONMAJOR enroll in 1 credit.
2. Students must have completed a minimum of 45 credits prior to enrolling in MUSC3260 ELEMENTARY SCHOOL MUSIC. It is recommended that students complete MUSC1100 FUND OF MUSIC-NONMAJOR (BCA) and MUSC1480 PIANO INSTR-NONMAJOR.
3. The Orff Schulwerk teacher training course, taught as a workshop through the Music Department, is offered *only* during summer semester. The prefix and course number for this course varies; see Professor Timmons for further

information. Prior to taking this course, students should complete MUSC1100 FUND OF MUSIC-NONMAJOR (BCA) and MUSC3260 ELEMENTARY SCHOOL MUSIC.

Program Learning Outcomes

Program Learning Outcomes

https://www.usu.edu/oda/assessment/

Extension Education - Post-Bachelor's Certificate

Program Overview

College
College of Agriculture & Natural Resources

Department
Applied Sciences, Technology and Education

Program Level
Graduate

About this Degree

The Post-Baccalaureate Certificate in Extension Education is a 12-credit, one-year, 100% online program. The program consists of three required courses and one course from the list of electives.

This certificate in Extension Education is critical in equipping professionals with the necessary skills to bridge the gap between expertise and effective education and outreach by addressing the unique challenges faced by Extension program coordinators, assistants, and others, this program contributes to community empowerment, skill diversification, and the overall advancement of Extension and outreach in Utah.

Key Features

Flexible Learning: Our 100% online post-bachelor's certificate allows you to balance your studies with your educational, professional, and personal commitments.

Comprehensive Curriculum: Our foundation core classes encompass courses in program planning & evaluation, volunteer programs, and adult education, with a variety of elective options.

Degree Enhancement: Utilize as a stand-alone post-baccalaureate certificate or augment your current graduate studies.

Stackable Credential: Stack these 12 credits into the M.S. in Agriculture Extension & Education, Family & Consumer Sciences Education, Technology & Engineering

Admission Requirements for this Program

Undergraduate degree from an accredited 4-year institution; 3.0 Undergraduate GPA

Program Requirements

Total Credits Required In Program Coursework
12

Total Credits Required To Earn This Credential
12

Simple Requisites

Program Requirements

A minimum GPA of 3.0 is required in all coursework taken to fulfill certificate requirements.

Extension Education Course Requirements

Type
Completion Requirement

Foundation Core Classes - Select 9 Credits

Fulfill ALL of the following requirements:

Block 1

Select one course

Complete at least 1 of the following courses:

- ASTE6170 - Program Planning and Evaluation - 3cr.

- ASTE6180 - Administration and Leadership - 3cr.

***ASTE6170 PROGRAM PLANNING & EVALUATION** offered fall semester, odd years*

***ASTE6180 ADMINISTRATION AND LEADERSHIP** offered fall semester, even years*

AND

Block 2

Complete ALL of the following Courses:

- ASTE6220 - Volunteer Programs and Partnerships - 3cr.

***ASTE6220 VOLUNTEER PROGRAMS** offered spring semesters*

AND

Block 3

Select one course

Complete at least 1 of the following courses:

- ASTE6160 - Foundations of Adult Education - 3cr.
- ASTE6170 - Program Planning and Evaluation - 3cr.
- ASTE6180 - Administration and Leadership - 3cr.
- ASTE6200 - Principles and Practices of Extension Education - 3cr.
- ASTE6220 - Volunteer Programs and Partnerships - 3cr.
- ASTE6920 - Communication Tools for Extension - 3cr.

***ASTE6160 ADULT EDUCATION** offered summer semesters*

***ASTE6920 COMM TOOLS FOR EXTENSION** offered spring semester, odd years*

Elective Courses

Type
Completion Requirement

Electives

Select 3 credits from the following elective options. Elective course must be different than foundation core courses.

Earn at least 3 credits from the following:

- ASTE6160 - Foundations of Adult Education - 3cr.
- ASTE6170 - Program Planning and Evaluation - 3cr.
- ASTE6180 - Administration and Leadership - 3cr.
- ASTE6200 - Principles and Practices of Extension Education - 3cr.
- ASTE6300 - Advanced Teaching Strategies - 3cr.
- ASTE6370 - Grant Writing and Management - 3cr.
- ASTE6380 - Mentoring and Supervision - 3cr.
- ASTE6920 - Communication Tools for Extension - 3cr.
- ASTE7500 - Diffusion of Innovations - 3cr.

Program Learning Outcomes

Program Learning Outcomes

https://caas.usu.edu/aste/assessment/

Fisheries and Aquatic Sciences - BS

Program Overview

College
College of Agriculture & Natural Resources

Department
Watershed Sciences

Program Level
Undergraduate

About this Degree

Utah State University is the only university in the state with a college devoted to the study of natural resources, and the fisheries and aquatic science program is one of the few programs in the nation where students have the opportunity to focus on freshwater fish populations.

Fisheries and aquatic scientists understand the biology of rivers, lakes, and wetlands. The program highlights the ecology of freshwater and marine systems, management of important fisheries, restoration of riparian and wetland areas, and conservation of the plant and animal communities in lakes and rivers.

Students of fisheries and aquatic sciences learn the skills necessary to understand and manage freshwater fish populations. This major also includes an understanding of the relationships among physical, chemical, and biological components of aquatic ecosystems. Graduates of this program may go on to work as scientists and managers for state and federal natural resource agencies, researchers, or as professionals for environmental consulting firms, nonprofit environmental firms, and water-based industries.

Students may use their electives to explore interests in policy or water law, environmental history or ethics, oceanography, or genetics

- For more information about Fisheries and Aquatic Sciences, see the website.
- Admitted and current students must meet with an academic advisor for semester by semester planning.
- Log on to Degree Works to check student-specific program progress.
- The highest math requirement for this degree is STAT3000 STATISTICS FOR SCIENTISTS (QI)

Admission Requirements for this Program

- New freshmen: Admitted to USU in Good Standing
- Transfer students from other institutions or other programs at USU: 2.5 GPA

Program Requirements

Total Credits Required In Program Coursework
89-91

Total Credits Required To Earn This Credential
120

Simple Requisites

Program Requirements

All courses required for this major must be taken on an A-B-C-D-F basis. A grade of C- or better is required for all WATS and GEOG courses used to meet requirements for the Fisheries and Aquatic Sciences major. The grade point average for all courses taught by the College of Natural Resources must be 2.5 or higher.

Fisheries and Aquatic Sciences Required Courses

Type
Completion Requirement

Scientific Foundation (31-32 credits)

Complete ALL of the following Courses:

- BIOL1610 - Biology I - 3cr.
- BIOL1615 - Biology I Laboratory - 1cr.
- BIOL1620 - Biology II (BLS) - 3cr.
- BIOL1625 - Biology II Laboratory - 1cr.
- CHEM1210 - Principles of Chemistry I - 4cr.
- CHEM1215 - Chemical Principles Laboratory I - 1cr.
- CHEM1220 - Principles of Chemistry II (BPS) - 4cr.
- CHEM1225 - Chemical Principles Laboratory II - 1cr.
- MATH1050 - College Algebra (QL) - 4cr.
- MATH1100 - Calculus Techniques (QL) - 3cr.
  OR MATH1210 - Calculus I (QL) - 4cr.
  OR MATH1170 - Modeling Change: Calculus in Life and Society - 4cr.
- STAT3000 - Statistics for Scientists (QI) - 3cr.
- WATS2220 - General Ecology - 3cr.

Departmental Core (17 credits)

Complete ALL of the following Courses:

- WATS2000 - Natural Resource Professional Orientation - 1cr.
  OR ENVS2000 - Natural Resource Professional Orientation - 1cr.
  OR WILD2000 - Natural Resource Professional Orientation - 1cr.
- ENVS4000 - Human Dimensions of Natural Resource Management (DSS) - 3cr.
  OR WATS3500 - Water and Power - 3cr.
- GEOG2800 - Introduction to Geographic Information Sciences - 4cr.
  OR WATS2800 - Introduction to Geographic Information Sciences - 4cr.
  OR WILD2800 - Introduction to Geographic Information Sciences - 4cr.
- WATS3100 - Fish Ecology, Conservation, and Management (CI/DSC) - 3cr.
- WATS3700 - Fundamentals of Watershed Science (CI) - 3cr.
- WATS5500 - Limnology: Ecology of Inland Waters - 3cr.

Fisheries Courses (24-25 credits)

Complete ALL of the following Courses:

- GEOG5500 - Advanced Geographic Information Sciences (GIS) - 3cr.
- WATS3110 - Fish Ecology, Conservation, and Management Lab - 1cr.
- WATS5490 - Small Watershed Hydrology (QI) - 4cr.
  OR WATS5150 - Fluvial Geomorphology - 3cr.
- WATS4300 - Principles of Ecosystem Restoration - 3cr.
- WATS4510 - Aquatic Ecology Methods - 2cr.
  OR WATS3450 - Introduction to Coral Reefs-Field Course (DSC) - 3cr.
  OR WATS3200 - Marine Ecology: Expedition Sea of Cortez (DSC) - 3cr.
- WATS5200 - Fish Habitats - 2cr.
- WATS5305 - Ecology and Restoration of Plants - 3cr.
- WATS5540 - Ichthyology - 4cr.
- WATS5550 - Freshwater Invertebrates - 3cr.
- WATS5800 - Watershed Sciences Departmental Seminar - 1cr.

recommended to register for WATS3110 FISH ECOL CONSERV MGMT LAB concurrently with WATS3100 FISH ECOL CONSERV MGT (DSC/CI)

Directed Electives (17 credits)

Students must choose a minimum of 17 elective credits to complete the Fisheries and Aquatic Sciences degree requirements. The majority of these elective credits must come from courses directly related to the degree program. All elective courses must be approved by the student's faculty advisor before enrollment. The following is a list of recommended courses that could be used to satisfy this requirement.

Complete ALL of the following Courses:

- APEC3012 - Introduction to Natural Resource Economics (DSS) - 3cr.
- BIOL3020 - Evolutionary Biology - 3cr.
- BIOL3055 - Organismal Biology with Physiology Laboratory (CI) - 2cr.
- BIOL3060 - Principles of Genetics (QI) - 3cr.
- BIOL3065 - Genetics Laboratory (CI) - 2cr.
- BIOL3070 - Computational Approaches to Biology - 3cr.
- BIOL3085 - Ecology Laboratory (CI) - 2cr.
- BIOL3150 - Quantitative Modeling of Life - 3cr.
- BIOL3300 - General Microbiology - 3cr.
- BIOL4060 - Exploring Animal Behavior - 3cr.
- BIOL4270 - Theoretical Ecology - 3cr.
- BIOL4420 - Plant Systematics and Diversity - 3cr.
- BIOL4540 - Invertebrate Zoology - 3cr.
- BIOL5010 - Biogeography - 3cr.
- BIOL5390 - Genes and Behavior (CI) - 3cr.
- BIOL5560 - Ornithology - 3cr.
- BIOL5600 - Comparative Animal Physiology - 3cr.
- BIOL5650 - Comparative Anatomy of the Vertebrates - 4cr.
- ENGL3640 - Nature Writing (DHA) - 3cr.
- ENVS3010 - Natural Resource and Environmental Policy - 3cr.
- ENVS3600 - Living with Wildlife (DSC) - 3cr.
- ENVS4020 - Foundations of Environmental Thought (DHA/CI) - 3cr.
- ENVS5100 - Introduction to Modeling Human-Environment Systems - 3cr.
- ENVS5350 - Ecological Economics - 3cr.
- ENVS5750 - Global Change Ecology - 3cr.
- ENVS6320 - Water Law and Policy in the United States - 3cr.
- GEO3550 - Sedimentation and Stratigraphy - 4cr.
- GEO3600 - Geomorphology - 4cr.
- GEOG3200 - Principles of Remote Sensing - 3cr.
- GEOG3800 - Geospatial Data Visualization - 3cr.
- GEOG3700 - Python Programming for GIS - 3cr.
- GEOG4910 - Geographic Information Science Portfolio - 1cr.
- GEOG5300 - Geospatial Analysis with R - 3cr.
- GEOG5805 - Introduction to Geospatial Artificial Intelligence: The Remote Sensing and GeoAI Frontier - 3cr.
- NR4251 - Natural Resources and Environmental Internships Preparation - 1cr.
- NR4252 - Natural Resources and Environmental Internship Achievements - 1cr.
- PHIL3530 - Environmental Ethics (DHA) - 3cr.
- PSC4810 - Climate and Climate Change (DSC)(QI) - 3cr.
- TCR2100 - Introduction to Technical Communication - 3cr.
- WATS2050 - Data Management for Natural Resources – Cleaning and Shaping Data - 1cr.
- WATS2060 - Data Management for Natural Resources – Data Display and Analysis - 1cr.
- WATS2500 - Introduction to Marine Biology (BLS) - 3cr.
- WATS3000 - Oceanography (DSC) - 3cr.
- WATS3200 - Marine Ecology: Expedition Sea of Cortez (DSC) - 3cr.
- WATS3450 - Introduction to Coral Reefs-Field Course (DSC) - 3cr.

- WATS4050 - Marine Global Change: Impacts and Conservation Strategies - 3cr.
- WATS4100 - Climate Adaptation Intern Program - 3cr.
- WATS4250 - Advanced Internship/Co-op - 1cr.
- WATS4950 - Special Topics - 1cr.
- WATS4970 - Undergraduate Research - 1cr.
- WATS4990 - Senior Thesis - 2cr.
- WATS5055 - American Academy of Underwater Sciences Scientific Diver Certification Course - 2cr.
- WATS5110 - Environmental Biogeochemistry - 3cr.
- WATS5150 - Fluvial Geomorphology - 3cr.
- WATS5210 - The Secret Life of Elements on Earth - 2cr.
- WATS5350 - Capstone and Professional Practice - 2cr.
- WATS5360 - Wetland Ecology and Management - 3cr.
- WATS5490 - Small Watershed Hydrology (QI) - 4cr.
- WATS5530 - Water Quality and Pollution - 3cr.
- WATS5600 - Environmental Water Management - 3cr.
- WATS5610 - Field Introduction to Low-Tech Process-Based Restoration of Riverscapes - 1cr.
- WATS5620 - Intro to Low-Tech Process-Based Restoration of Riverscapes - 1cr.
- WATS5621 - Science and Case Studies of Low-Tech Process-Based Restoration of Riverscapes - 1cr.
- WATS5622 - Planning Low-Tech Process-Based Restoration of Riverscapes - 1cr.
- WATS5623 - Designing Low-Tech Process-Based Restoration of Riverscapes - 1cr.
- WATS5624 - Implementation of Low-Tech Process-Based Restoration of Riverscapes - 1cr.
- WATS5625 - Adaptive Management and Monitoring of Low-Tech Process-Based Restoration of Riverscapes - 1cr.
- WILD3880 - Genetics in Conservation and Management - 3cr.
- WILD4100 - Scientific Communication for Natural Resource Professionals (CI) - 3cr.
- WILD4500 - Principles of Wildlife Management - 3cr.
- WILD4600 - Conservation Biology - 3cr.
- WILD5750 - Applied Remote Sensing - 3cr.

Open Electives

Complete the following as needed:
Total elective credit is determined by General Education courses taken, degree type selected, additional credits earned, and any additional math or other prerequisite courses needed. Please consult your Academic Advisor for details.

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Bachelor's Degree)

Suggested Degree Maps

Degree Map Name
Suggested Degree Map - Fisheries and Aquatic Sciences BS
Total Degree Map Credits
115 - 136
Degree Map Effective Catalog Year
2027 -

Degree Map Narrative

- Following is a sample four-year plan. Please note that student-specific plans may differ.
- Meet with an academic advisor to create a specific plan that best fits your academic needs.
- The student is ultimately responsible for knowing and completing all degree requirements.
- Make sure you meet the registration requirements for each class by clicking the course link and checking any prerequisites or corequisites.
- Consultation with an advisor may result in an altered plan customized for an individual student.
- Check your Degree Works for requirements and completion.

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	12 - 27	0

Requirement Select
- BIOL1610 - Biology I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- BIOL1615 - Biology I Laboratory

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- MATH1050 - College Algebra (QL)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- WATS2000 - Natural Resource Professional Orientation

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- Breadth Creative Arts (BCA) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Communications Intensive (CI) Courses

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	0 - 15
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	15 - 16	0

Requirement Select

- BIOL1620 - Biology II (BLS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- BIOL1625 - Biology II Laboratory

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- CHEM1210 - Principles of Chemistry I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- CHEM1215 - Chemical Principles Laboratory I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- MATH1100 - Calculus Techniques (QL)

  OR
- MATH1210 - Calculus I (QL)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 4
Progress Credits	-
Contact Hours	3 - 4
Clinical	-
Criticality	No

Requirement Select

- WATS2220 - General Ecology

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	15	0

Requirement Select

- CHEM1220 - Principles of Chemistry II (BPS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- CHEM1225 - Chemical Principles Laboratory II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- STAT3000 - Statistics for Scientists (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- GEOG2800 - Introduction to Geographic Information Sciences

  OR
- WILD2800 - Introduction to Geographic Information Sciences

  OR
- WATS2800 - Introduction to Geographic Information Sciences

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- Communications Literacy (CL2) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	16	0

Requirement Select

- GEOG5500 - Advanced Geographic Information Sciences (GIS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- WATS3100 - Fish Ecology, Conservation, and Management (CI/DSC)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- WATS3110 - Fish Ecology, Conservation, and Management Lab

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- WATS3700 - Fundamentals of Watershed Science (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Breadth Humanities (BHU) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Directed Elective (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Fall	15 - 16	0

Requirement Select

- ENVS4000 - Human Dimensions of Natural Resource Management (DSS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- WATS5500 - Limnology: Ecology of Inland Waters

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- WATS5540 - Ichthyology

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- General Electives (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Directed Electives (2-3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2 - 3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Spring	13 - 15	0

Requirement Select
- WATS5800 - Watershed Sciences Departmental Seminar

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- WATS5490 - Small Watershed Hydrology (QI)

  OR
- WATS5150 - Fluvial Geomorphology

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 4
Progress Credits	-
Contact Hours	3 - 4
Clinical	-
Criticality	No

Requirement Select
- Breadth Social Sciences (BSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- General Electives (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Directed Electives (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Fall	16	0

Requirement Select
- WATS4300 - Principles of Ecosystem Restoration

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- WATS5305 - Ecology and Restoration of Plants

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- WATS4510 - Aquatic Ecology Methods

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select

- WATS5200 - Fish Habitats

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select

- Directed Electives (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- General Electives (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Spring	13 - 15	0

Requirement Select

- WATS5550 - Freshwater Invertebrates

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Breadth American Institutions (BAI) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Depth Humanities and Creative Arts (DHA) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1 - 3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Directed Electives (6 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Program Learning Outcomes

Program Learning Outcomes
https://www.usu.edu/oda/assessment/

Fashion Studies - Institutional Certificate of Proficiency

Program Overview

College	Department	Program Level
College of Agriculture & Natural Resources	Applied Sciences, Technology and Education	Undergraduate

About this Degree

The Fashion Studies Institutional Certificate of Proficiency will introduce students to the apparel and fashion industry through textile science, apparel construction, sustainability, and product development. Students will be able to learn design and development skills and processes related to soft goods apparel production. Courses include apparel construction, textile science, sustainable systems, relationships of fashion with a sociocultural context, fashion fundamentals, and entry-level business related to fashion marketing. This certificate enhances various career paths in fashion, design, costuming, anthropology, journalism, and business, strengthens resumes and empowers students through education and experience in fashion studies.

Advisor: Caisa Shoop

Applied Sciences, Technology & Education (ASTE)

caisa.shoop@usu.edu

Program Requirements

Total Credits Required In Program Coursework	Total Credits Required To Earn This Credential
12	12

Simple Requisites

Program Requirements

Section 1

Type
Completion Requirement

Apparel Sewing and Design (6-9 credits)

Choose 2-3 of the following courses:

Complete at least 2 of the following courses:
- FCSE1040 - Introductory Sewing - 3cr.
- FCSE2040 - Intermediate Clothing Construction Skills, Principles, and Alterations - 3cr.
- FCSE3040 - Advanced Clothing Studies: Patternmaking - 3cr.

Section 2

Type
Completion Requirement

Historical and Social Context of Clothing (3 credits)

Choose one of the following:

Complete at least 1 of the following courses:
- FCSE3080 - Fashion Studies and Society (DHA) - 3cr.
- OPDD3600 - Sustainable Design and Operations - 3cr.
- THEA3570 - Historic Clothing (DHA) - 3cr.

Section 3

Type
Completion Requirement

Electives (0-3 credits)

Choose up to one of the following courses:

Complete ANY of the following Courses:

- APEC2830 - Agribusiness Sales and Marketing - 3cr.
- ART1010 - Exploring Art (BCA) - 3cr.
- BUSN2320 - Small Business Management - CTE - 3cr.
- OPDD1100 - Introduction to Product Creation - 3cr.
- TEE1010 - Graphic Communication Technologies - 3cr.

Program Learning Outcomes

Program Learning Outcomes
https://caas.usu.edu/aste/assessment/

Family and Consumer Sciences Education - Community-Based Emphasis - BS

Program Overview

College
College of Agriculture & Natural Resources

Department
Applied Sciences, Technology and Education

Program Level
Undergraduate

About this Degree
The Family and Consumer Sciences Education (FCSE) program trains students to become family and consumer sciences (FCS) educators in both school-based and community-based settings.

The program prepares students to enter a high-demand profession throughout the U.S. FCSE graduates are qualified to teach many subjects, including apparel and textile construction, nutrition and foods, interior design, child and human development, financial literacy, and more.

Community-Based Emphasis: This emphasis prepares students for outreach and education in non-formal settings and community engagement. Students will develop a diverse background in FCS content areas. The curriculum includes courses in all the FCS areas: financial literacy, human relationships, child development, apparel and textile construction, interior design, nutrition and foods, and FCCLA leadership. Additional courses in non-formal education include non-formal teaching methods, volunteer programs, community programming and evaluation, and youth development. Students will also gain knowledge about communication, analytical reasoning, critical thinking, effective writing, and teamwork. Students in the community-based program will complete two internships starting their junior year with an FCS-based business, public or private agency, commodity organization, nonprofit organization, or extension office. Students may take some additional coursework to obtain a Family Finance Minor.

- For more information about Family and Consumer Sciences Education, see the website.
- Admitted and current students must meet with an advisor, Caisa Shoop, at caisa.shoop@usu.edu or 435-797-2282.
- Contact Dr. Brian Warnick for internship information: brian.warnick@usu.edu
- Log on to Degree Works to check student-specific program progress.
- The highest math requirement for this degree is MATH1050 COLLEGE ALGEBRA (QL)

Admission Requirements for this Program
The Family and Consumer Sciences Education Bachelor's Degree (BS) with an emphasis in Community-Based Education has eligibility requirements for new first-year students, USU students, and transfer students from other institutions or programs at USU. All applicants must be a student in good standing, with a minimum 3.0 GPA. Students who wish to complete this degree must do so with a minimum overall GPA of 2.0 or higher and a 3.0 major GPA or higher.

- New freshmen: Admitted to USU in Good Standing
- Transfer students from other institutions or other programs at USU: 3.0 GPA

Program Requirements

Total Credits Required In Program Coursework
104

Total Credits Required To Earn This Credential
120

Simple Requisites

Program Requirements

The program trains students to become family and consumer science educators in nonformal settings through a well-rounded curriculum.

It is **very important** for each student to meet with the advisor to build a successful plan based on individual needs.

The major includes study in nutrition, dietetics and food sciences; family and human development; interior design; apparel and textiles; and consumer sciences. Many states, including Utah, require a master's degree to work for extension. This program requires an overall GPA of at least 3.0 in major coursework and an overall 2.0 GPA for graduation.

For more information, contact the Family and Consumer Sciences Education Academic Advisor, Caisa Shoop, at caisa.shoop@usu.edu or 435-797-2282.

Students who wish to complete this degree must do so with a GPA of 3.0 or higher.

Family and Consumer Sciences Education - BS, Community-Based Course Requirements

Type

Completion Requirement

Required Support Courses (12 credits)

Complete ALL of the following Courses:

- CHEM1110 - General Chemistry I (BPS) - 4cr.
- CHEM1120 - General Chemistry II (BPS) - 4cr.
- MATH1050 - College Algebra (QL) - 4cr.

Major Required Courses (77 credits)

A grade of *C* or better must be earned in these courses, except ASTE2250 OCCUP EXP IN AG and ASTE4250 OCCUP EXP IN AG which are taken on a pass/fail basis.

Complete ALL of the following Courses:

- ASTE2250 - Occupational Experience in Agriculture - 1cr.
- ASTE3625 - Youth Development Education - 2cr.
- ASTE4155 - Nonformal Teaching Methods - 3cr.
- ASTE4215 - Community Programming and Evaluation - 3cr.
- ASTE4250 - Occupational Experiences in Agriculture - 1cr.
- ASTE5220 - Volunteer Programs and Partnerships - 3cr.
- FCSE1040 - Introductory Sewing - 3cr.
- FCSE1350 - Financial Literacy (BSS) - 3cr.
- FCSE2040 - Intermediate Clothing Construction Skills, Principles, and Alterations - 3cr.
- FCSE2350 - Financial Literacy 2 - 3cr.
- FCSE2510 - Orientation to Family and Consumer Sciences Education - 3cr.
- FCSE3030 - Textile Science (DSC/QI) - 4cr.
- FCSE3080 - Fashion Studies and Society (DHA) - 3cr.
- FCSE3400 - FCSE Methods I - 3cr.
- FCSE3790 - Housing and Interior Design Teaching Methods - 3cr.
- HDFS1500 - Human Development Across the Lifespan (BSS) - 3cr.
- HDFS2400 - Couple and Family Relationships (BSS) - 3cr.
- HDFS4550 - Preschool Methods and Curriculum - 3cr.
- IAD1750 - Design in Everyday Living (BCA) - 3cr.
- ITLS2500 - Technology Enabled Instruction - 3cr.
- NDFS1020 - Science and Application of Human Nutrition (BLS) - 3cr.
- NDFS1240 - Food Literacy - 3cr.
- NDFS2020 - Nutrition Throughout the Life Cycle - 3cr.
- NDFS3070 - Science of Food Preparation - 4cr.
- ANTH3200 - Perspectives on Race (DSS/CI) - 3cr.
  OR CMST3330 - Intercultural Communication (DSS) - 3cr.
  OR CMST4200 - Language, Thought, and Action (CI/DSS) - 3cr.
  OR POLS4220 - Ethnic Conflict and Cooperation (CI/DSS) - 3cr.
  OR SOC3010 - Social Inequality (DSS) - 3cr.
  OR SOC3200 - Population and Society (DSS) - 3cr.
  OR SOC3340 - Activism, Protest, and Social Movements (DSS) - 3cr.
  OR SOC3600 - Finding Community in Today's Society (DSS) - 3cr.
  OR SOC3610 - Rural People and Places (DSS) - 3cr.

1 credit of ASTE2250 OCCUP EXP IN AG is required

3 credits of ASTE4250 OCCUP EXP IN AG are required

Electives (15 credits)

A grade of *C* or better must be earned in these courses. They may *not* be taken on a pass/fail basis. Students must have 15 credits of approved electives selected from the following list, or as approved by the major academic advisor:

Fulfill ANY of the following requirements:

Clothing and Textiles

Complete ANY of the following Courses:

- FCSE3040 - Advanced Clothing Studies: Patternmaking - 3cr.
- FCSE3140 - Digital Patternmaking for Apparel - 3cr.
- FCSE4030 - Textiles and Technology - 3cr.
- FCSE4040 - Advanced Apparel Studies - 3cr.

OR

Human Development and Family Studies

Complete ANY of the following Courses:

- HDFS2450 - Consumer and Family Economic Issues (BSS) - 3cr.
- HDFS3100 - Abuse and Neglect in Family Context - 3cr.
- HDFS3110 - Human Sexuality - 3cr.
- HDFS3450 - Consumer Credit Problems - 3cr.
- HDFS3500 - Infancy and Childhood - 3cr.
- HDFS3540 - Adult Development and Aging - 3cr.
- HDFS3570 - Youth and Adolescence - 3cr.
- HDFS3700 - Mental Health Advocacy and Awareness - 3cr.
- HDFS4220 - Family Crises and Interventions - 3cr.

OR

Food and Nutrition

Complete ANY of the following Courses:

- ASTE5620 - Food Security and Solutions - 3cr.
- NDFS1010 - Chocolate: Science, History, and Society (BPS) - 3cr.
- NDFS1250 - Sanitation and Safety - 3cr.
- NDFS2030 - Nutrition and Physical Performance - 2cr.
- NDFS3110 - Food, Technology, Sustainability and Health (DSC) - 3cr.

OR

Communications and Leadership

Complete ANY of the following Courses:

- ASTE2100 - Personal and Team Leadership - 3cr.
- ASTE3050 - Technical and Professional Communication Principles (CI) - 3cr.
- ASTE3090 - Graphic Design in Agriculture and Media Industries - 3cr.
- CMST1020 - Public Speaking (BHU) - 3cr.
- CMST2110 - Interpersonal Communication (BHU) - 3cr.
- CMST3250 - Organizational Communication (CI) - 3cr.
- TCR2100 - Introduction to Technical Communication - 3cr.
- ITLS5215 - Video and Audio Design and Production I - 3cr.
- ITLS5240 - Graphic Design and Production II - 3cr.
- ITLS5270 - Digital Making and Learning - 3cr.
- SOC4640 - Managing Community Conflict (CI) - 3cr.
- TCR3230 - Community Grant Writing - 3cr.
- USU2400 - Career Series 2: Networking and Preparing for Internships - 1cr.

Open Electives

Complete the following as needed:
Total elective credit is determined by General Education courses taken, degree type selected, additional credits earned, and any additional math or other prerequisite courses needed. Please consult your Academic Advisor for details.

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Bachelor's Degree)

Suggested Degree Maps

Degree Map Name
Suggested Degree Map - Family and Consumer Sciences Education Community-Based - BS
Total Degree Map Credits
111 - 116
Degree Map Effective Catalog Year
2027 -

Degree Map Narrative

- Following is a sample four-year plan. Please note that student-specific plans may differ.
- Meet with an academic advisor to create a specific plan that best fits your academic needs.
- The student is ultimately responsible for knowing and completing all degree requirements.
- Make sure you meet the registration requirements for each class by clicking the course link and checking any prerequisites or corequisites.
- Consultation with an advisor may result in an altered plan customized for an individual student.
- Check your Degree Works for requirements and completion.

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	15	0

Requirement Select

- ENGL1010 - Writing as Inquiry (CL1)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- FCSE1350 - Financial Literacy (BSS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- NDFS1020 - Science and Application of Human Nutrition (BLS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- FCSE1040 - Introductory Sewing

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- IAD1750 - Design in Everyday Living (BCA)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	16	0

Requirement Select

- HDFS2400 - Couple and Family Relationships (BSS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- NDFS1240 - Food Literacy

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- MATH1050 - College Algebra (QL)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- FCSE2510 - Orientation to Family and Consumer Sciences Education

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Breadth American Institutions (BAI) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	13	0

Requirement Select

- CHEM1110 - General Chemistry I (BPS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- FCSE2350 - Financial Literacy 2

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- HDFS1500 - Human Development Across the Lifespan (BSS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Breadth Humanities (BHU) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	13	0

Requirement Select
- CHEM1120 - General Chemistry II (BPS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- ENGL2010 - Research and Argument Across Perspectives (CL2)

  OR
- ENGL2020 - Professional Communication (CL2)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- FCSE2040 - Intermediate Clothing Construction Skills, Principles, and Alterations

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- NDFS2020 - Nutrition Throughout the Life Cycle

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Fall	14	0

Requirement Select
- ASTE2250 - Occupational Experience in Agriculture

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1 - 6
Clinical	-
Criticality	No

Requirement Select
- FCSE3030 - Textile Science (DSC/QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- ASTE4155 - Nonformal Teaching Methods

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- FCSE3080 - Fashion Studies and Society (DHA)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Directed Elective credits (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- 1 credit is required in ASTE2250 (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Spring	12	0

Requirement Select
- ASTE3625 - Youth Development Education

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select
- FCSE3400 - FCSE Methods I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- NDFS3070 - Science of Food Preparation

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- Directed Elective credits (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Fall	13 - 18	0

Requirement Select

- HDFS4550 - Preschool Methods and Curriculum

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- ASTE4250 - Occupational Experiences in Agriculture

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1 - 6
Progress Credits	-
Contact Hours	1 - 6
Clinical	-
Criticality	No

Requirement Select

- ASTE4215 - Community Programming and Evaluation

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- FCSE3790 - Housing and Interior Design Teaching Methods

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Directed Elective credits (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- 3 credits minimum are required for ASTE4250 (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Spring	15	0

Requirement Select

- ASTE5220 - Volunteer Programs and Partnerships

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- SOC3610 - Rural People and Places (DSS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- ITLS2500 - Technology Enabled Instruction

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Directed Elective credits (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Directed Elective credits (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Program Learning Outcomes

Program Learning Outcomes

https://qanr.usu.edu/aste/assessment/

Family and Consumer Sciences Education - School-Based Emphasis - BS

Program Overview

College
College of Agriculture & Natural Resources

Department
Applied Sciences, Technology and Education

Program Level
Undergraduate

About this Degree

The Family and Consumer Sciences Education (FCSE) program trains students to become family and consumer sciences (FCS) educators in both school-based and community-based settings.

The program prepares students to enter a high-demand profession throughout the U.S. FCSE graduates are qualified to teach many subjects, including apparel and textile construction, nutrition and foods, interior design, child and human development, financial literacy, and more.

Students in the school-based program are qualified to teach in secondary settings and can advance to higher education with continued graduate degrees.

School-Based Family & Consumer Sciences Education Emphasis: The school-based FCSE emphasis prepares students to meet state teacher certification requirements to teach FCS content in public, charter, and private schools. Students can become school-based FCS teachers and FCCLA advisors in middle, junior, and high schools. School-based FCS teachers educate students on a wide variety of subjects, including financial literacy, human relationships, child development, apparel and textile construction, interior design, nutrition and foods, FCCLA leadership, analytical thinking, and problem-solving. Students have the unique opportunity to work with mentor teachers starting their sophomore year to receive instruction and build professional relationships before entering the classroom as student teachers. Upon completing student teaching, students are eligible to apply for and obtain a secondary teaching license in Utah.

- For more information about Family and Consumer Sciences Education, see the website.
- Admitted and current students must meet with an advisor, Caisa Shoop, at caisa.shoop@usu.edu or 435-797-2282.
- Log on to Degree Works to check student-specific program progress.
- The highest math requirement for this degree is MATH1050 COLLEGE ALGEBRA (QL)

Admission Requirements for this Program

- New freshmen: Admitted to USU in Good Standing
- Transfer students from other institutions or other programs at USU: 3.0 GPA

Program Requirements

Total Credits Required In Program Coursework
102

Total Credits Required To Earn This Credential
123

Simple Requisites

Program Requirements

It is **very important** for each student to meet with the advisor to build a successful plan based on individual needs.

The program trains students to become family and consumer science teachers in middle and high schools through a well-rounded curriculum in teaching content areas.

The major includes study in nutrition, dietetics and food sciences; family and human development; interior design; apparel and textiles; and consumer sciences. Many states, including Utah, require a master's degree to work for extension.

In order to obtain a secondary teaching license for grades 6-12, students must complete the 35-credit Secondary Teacher Education Program (STEP), which includes one semester of student teaching in a public school. This program is administered by USU's School of Teacher Education and Leadership (TEAL) within the Emma Eccles Jones College of Education and Human Services. Student must apply to the School of TEAL the semester before taking STEP courses. This is usually the fall of their junior year. Students learn subject content through the Department of Applied Sciences, Technology, and Education and spend the last year or two studying education techniques through the STEP program. Students must earn a minimum overall GPA of 2.0 and a 3.0 major GPA to graduate and be recommended for teaching licensure.

For more information, contact the Family and Consumer Sciences Education Academic Advisor, Caisa Shoop, at caisa.shoop@usu.edu or 435-797-2282.

Family and Consumer Sciences Education - BS, School-Based Course Requirements

Type
Completion Requirement

Required Support Courses (12 credits)

Complete ALL of the following Courses:

- CHEM1110 - General Chemistry I (BPS) - 4cr.
- CHEM1120 - General Chemistry II (BPS) - 4cr.
- MATH1050 - College Algebra (QL) - 4cr.

Major Required Courses (90 credits)

A grade of *C* or better must be earned in these courses.

Complete ALL of the following Courses:

- FCSE1350 - Financial Literacy (BSS) - 3cr.
- FCSE2040 - Intermediate Clothing Construction Skills, Principles, and Alterations - 3cr.
- FCSE2350 - Financial Literacy 2 - 3cr.
- FCSE2510 - Orientation to Family and Consumer Sciences Education - 3cr.
- FCSE3030 - Textile Science (DSC/QI) - 4cr.
- FCSE3040 - Advanced Clothing Studies: Patternmaking - 3cr.
  OR FCSE4040 - Advanced Apparel Studies - 3cr.
- FCSE3080 - Fashion Studies and Society (DHA) - 3cr.
- FCSE3300 - Clinical Experience I - 1cr.
- FCSE3400 - FCSE Methods I - 3cr.
- FCSE3790 - Housing and Interior Design Teaching Methods - 3cr.
- FCSE4300 - Clinical Experience II - 1cr.
- FCSE4400 - FCSE Methods II - 3cr.
- FCSE5500 - Student Teaching Seminar - 2cr.
- FCSE5630 - Student Teaching in Secondary Schools - 10cr.
- HDFS1500 - Human Development Across the Lifespan (BSS) - 3cr.
- HDFS2400 - Couple and Family Relationships (BSS) - 3cr.
- HDFS2660 - Parenting and Child Guidance - 3cr.
- HDFS4550 - Preschool Methods and Curriculum - 3cr.
- IAD1750 - Design in Everyday Living (BCA) - 3cr.
- ITLS2500 - Technology Enabled Instruction - 3cr.
- NDFS1020 - Science and Application of Human Nutrition (BLS) - 3cr.
- NDFS1240 - Food Literacy - 3cr.
- NDFS2020 - Nutrition Throughout the Life Cycle - 3cr.
- NDFS3070 - Science of Food Preparation - 4cr.
- SCED3210 - Educational and Multicultural Foundations (DSS/CI) - 3cr.
- SCED5100 - Motivation and Classroom Management - 3cr.
- SCED5200 - Language, Literacy, and Learning in the Content Areas (CI) - 3cr.
- SCED5210 - Learning Theory, Curriculum, and Assessment - 3cr.
  OR FCSE4210 - Cognition and Evaluation of Student Learning in Career and Teachnical Education - 3cr.
- SPED4000 - Education of Students with Disabilities - 3cr.

Open Electives

Complete the following as needed:
Total elective credit is determined by General Education courses taken, degree type selected, additional credits earned, and any additional math or other prerequisite courses needed. Please consult your Academic Advisor for details.

Additional Comments:

Licensure Notification

This program typically leads to licensure and was designed to meet licensing qualifications in the state of Utah. If students wish to work in another state within the United States, they should review the qualifications for that state and the Education Licensure Compliance Table provided by School of Teacher Education and Leadership.

For more information, please contact the School of Teacher Education and Leadership at https://cehs.usu.edu/teal/

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Bachelor's Degree)

Suggested Degree Maps

Degree Map Name
Suggested Degree Map - Family and Consumer Sciences Education BS, School-Based
Total Degree Map Credits
122
Degree Map Effective Catalog Year
2027 -

Degree Map Narrative

- Following is a sample four-year plan. Please note that student-specific plans may differ.
- Meet with an academic advisor to create a specific plan that best fits your academic needs.
- The student is ultimately responsible for knowing and completing all degree requirements.
- Make sure you meet the registration requirements for each class by clicking the course link and checking any prerequisites or corequisites.
- Consultation with an advisor may result in an altered plan customized for an individual student.
- Check your Degree Worksfor requirements and completion.

Year	Semester	Actual Credits	Progress Credits

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	15	0

Requirement Select
- ENGL1010 - Writing as Inquiry (CL1)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- HDFS1500 - Human Development Across the Lifespan (BSS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- NDFS1020 - Science and Application of Human Nutrition (BLS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- FCSE1040 - Introductory Sewing

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- FCSE1350 - Financial Literacy (BSS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- A minimum grade of C+ is required in ENGL1010 (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	16	0

Requirement Select
- HDFS2400 - Couple and Family Relationships (BSS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- NDFS1240 - Food Literacy

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- MATH1050 - College Algebra (QL)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- FCSE2510 - Orientation to Family and Consumer Sciences Education

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Breadth American Institutions (BAI) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- A minimum grade of C- is required in MATH1050 (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	16	0

Requirement Select
- CHEM1110 - General Chemistry I (BPS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- ENGL2010 - Research and Argument Across Perspectives (CL2)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- IAD1750 - Design in Everyday Living (BCA)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- FCSE2350 - Financial Literacy 2

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Breadth Humanities (BHU) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	13	0

Requirement Select
- CHEM1120 - General Chemistry II (BPS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- NDFS2020 - Nutrition Throughout the Life Cycle

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- FCSE2040 - Intermediate Clothing Construction Skills, Principles, and Alterations

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- HDFS2660 - Parenting and Child Guidance

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Fall	19	0

Requirement Select
- FCSE3080 - Fashion Studies and Society (DHA)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- HDFS4550 - Preschool Methods and Curriculum

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- SPED4000 - Education of Students with Disabilities

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- FCSE3790 - Housing and Interior Design Teaching Methods

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- FCSE4040 - Advanced Apparel Studies

OR

- FCSE3040 - Advanced Clothing Studies: Patternmaking

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- ITLS2500 - Technology Enabled Instruction

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Spring	17	0

Requirement Select

- FCSE3300 - Clinical Experience I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- FCSE3400 - FCSE Methods I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- NDFS3070 - Science of Food Preparation

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- SCED5200 - Language, Literacy, and Learning in the Content Areas (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- SCED3210 - Educational and Multicultural Foundations (DSS/CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- FCSE3040 - Advanced Clothing Studies: Patternmaking
  OR
- FCSE4040 - Advanced Apparel Studies

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Fall	14	0

Requirement Select

- FCSE4300 - Clinical Experience II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- FCSE4400 - FCSE Methods II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- FCSE3030 - Textile Science (DSC/QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- SCED5100 - Motivation and Classroom Management

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- SCED5210 - Learning Theory, Curriculum, and Assessment
  OR
- FCSE4210 - Cognition and Evaluation of Student Learning in Career and Teachnical Education

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Spring	12	0

Requirement Select

- FCSE5500 - Student Teaching Seminar

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select

- FCSE5630 - Student Teaching in Secondary Schools

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	10
Progress Credits	-
Contact Hours	10
Clinical	-
Criticality	No

Total General Education Credits	Total Major Credits
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Program Learning Outcomes

Program Learning Outcomes

https://qanr.usu.edu/aste/assessment/

Food Science - Minor

Program Overview

College
College of Agriculture & Natural Resources

Department
Nutrition, Dietetics & Food Sciences

Program Level
Undergraduate

About this Degree

Completion of the Food Science minor will provide an understanding of how raw materials are processed into safe and nutritious foods while expanding the range of employment opportunities available to students upon graduation within the US food industry. This minor is available to all undergraduate majors.

Program Requirements

Total Credits Required In Program Coursework
15

Total Credits Required To Earn This Credential
15

Simple Requisites

Program Requirements

Program Requirements:

- **Credits:** 15 total
- **GPA:** 2.5 minimum in certificate coursework
- **Department Website:** https://qanr.usu.edu/ndfs/
- **Advisor:** Dawnetta Mahnken
- **To Declare:** Email Dawnetta Mahnken (dawnetta.mahnken@usu.edu) with your name and A number

Section 1

Type
Completion Requirement

Required Courses (9 credits)

Complete ALL of the following Courses:

- NDFS1010 - Chocolate: Science, History, and Society (BPS) - 3cr.
- NDFS1250 - Sanitation and Safety - 3cr.
- NDFS3110 - Food, Technology, Sustainability and Health (DSC) - 3cr.

Section 2

Type
Completion Requirement

Elective Courses (6 credits)

Note that some courses may have associated prerequisites

Earn at least 6 credits from the following:

- NDFS1000 - Introduction to Food Science and Technology - 3cr.
- NDFS2040 - Fundamentals of Food Processing - 3cr.
- NDFS3070 - Science of Food Preparation - 4cr.
- NDFS5020 - Meat Science and Technology - 4cr.
- NDFS5030 - Dairy Technology and Processing - 3cr.
- NDFS5040 - Dairy Foods Processing Laboratory - 1cr.

- NDFS5110 - Food Microbiology (CI) - 3cr.
- NDFS5111 - Food Microbiology Laboratory - 1cr.
- NDFS5450 - Study Abroad Experience - 1cr.
- NDFS5500 - Food Analysis (QI) - 4cr.
- NDFS5510 - Food Laws and Regulations - 3cr.
- NDFS5560 - Food Chemistry - 4cr.

Program Learning Outcomes

Program Learning Outcomes
https://qanr.usu.edu/ndfs/assessment

Food Science - BS

Program Overview

College
College of Agriculture & Natural Resources

Department
Nutrition, Dietetics & Food Sciences

Program Level
Undergraduate

About this Degree
Food Science students study the chemical and physical composition of food and food ingredients to understand how best to preserve, process, package, and distribute foods that are nutritious, wholesome, affordable, desirable, sustainable and safe to eat. Because the food industry is the largest industry in the world, food scientists are in high demand.

Food Scientists integrates a broad range of core scientific disciplines (including chemistry, biology, biochemistry, microbiology, nutrition and health, and engineering) to solve real problems associated with the many facets of the food system. Food Science graduates find rewarding careers in food engineering and processing, food quality control and assurance, food sustainability and policy, food product formulation and new product development, and food microbiology and safety.

- For more information about Nutrition, Dietetics and Food Sciences, see website.
- Admitted and current students must meet with an advisor, Dawnetta Mahnken, dawnetta.mahnken@usu.edu, 435-797-2282.
- Log in to Degree Works to check student-specific program progress.
- The highest math requirement for this degree is MATH1210 CALCULUS I (QL)

Admission Requirements for this Program
- New freshmen: Admitted to USU in Good Standing
- Transfer students from other institutions or other programs at USU: 2.75 GPA

Program Requirements

Total Credits Required In Program Coursework
90

Total Credits Required To Earn This Credential
120

Simple Requisites

Program Requirements

A GPA of 2.5 is required in major coursework and each course must be completed with a grade of C- or better.

Required Courses (90-92 credits)

Type
Completion Requirement

Required

Complete ALL of the following Courses:
- NDFS1010 - Chocolate: Science, History, and Society (BPS) - 3cr.
- NDFS1020 - Science and Application of Human Nutrition (BLS) - 3cr.
- NDFS1250 - Sanitation and Safety - 3cr.
- NDFS2040 - Fundamentals of Food Processing - 3cr.
- NDFS4440 - Fundamentals of Food Engineering (QI) - 4cr.

- NDFS5020 - Meat Science and Technology - 4cr.
- NDFS5030 - Dairy Technology and Processing - 3cr.
- NDFS5040 - Dairy Foods Processing Laboratory - 1cr.
- NDFS5100 - Sensory Evaluation of Food (QI) - 3cr.
- NDFS5110 - Food Microbiology (CI) - 3cr.
- NDFS5111 - Food Microbiology Laboratory - 1cr.
- NDFS5250 - Occupational Experiences in Nutrition and Food Sciences - 1cr.
- NDFS5500 - Food Analysis (QI) - 4cr.
- NDFS5510 - Food Laws and Regulations - 3cr.
- NDFS5560 - Food Chemistry - 4cr.
- NDFS5920 - Food Product Development (CI) - 3cr.
- BIOL1610 - Biology I - 3cr.
- BIOL1615 - Biology I Laboratory - 1cr.
- BIOL3300 - General Microbiology - 3cr.
- CHEM1210 - Principles of Chemistry I - 4cr.
- CHEM1215 - Chemical Principles Laboratory I - 1cr.
- CHEM1220 - Principles of Chemistry II (BPS) - 4cr.
- CHEM1225 - Chemical Principles Laboratory II - 1cr.
- CHEM2300 - Principles of Organic Chemistry - 3cr.
  OR CHEM2310 - Organic Chemistry I - 4cr.
- CHEM2315 - Organic Chemistry Laboratory I - 1cr.
- CHEM3700 - Introductory Biochemistry - 3cr.
- CHEM3710 - Introductory Biochemistry Laboratory - 1cr.
- PHYS2110 - General Physics—Life Sciences I - 4cr.
- MATH1050 - College Algebra (QL) - 4cr.
- MATH1060 - Trigonometry - 2cr.
- MATH1210 - Calculus I (QL) - 4cr.
  OR MATH1170 - Modeling Change: Calculus in Life and Society - 4cr.
- STAT2000 - Statistical Methods (QI) - 4cr.
  OR STAT3000 - Statistics for Scientists (QI) - 3cr.

Open Electives

Complete the following as needed:
Total elective credit is determined by General Education courses taken, degree type selected, additional credits earned, and any additional math or other prerequisite courses needed. Please consult your Academic Advisor for details.

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Bachelor's Degree)

Suggested Degree Maps

Degree Map Name
Suggested Degree Map - Food Science BS
Total Degree Map Credits
113 - 124
Degree Map Effective Catalog Year
2027 -

Degree Map Narrative

- Following is a sample four-year plan. Please note that student-specific plans may differ.
- Meet with an academic advisor to create a specific plan that best fits your academic needs.
- The student is ultimately responsible for knowing and completing all degree requirements.
- Make sure you meet the registration requirements for each class by clicking the course link and checking any prerequisites or corequisites.
- Consultation with an advisor may result in an altered plan customized for an individual student.
- Check your Degree Works for requirements and completion.

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	15 - 16	0

Requirement Select
- CHEM1210 - Principles of Chemistry I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- CHEM1215 - Chemical Principles Laboratory I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- MATH1050 - College Algebra (QL)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- NDFS1010 - Chocolate: Science, History, and Society (BPS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Breadth Social Sciences (BSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- BSS course may be taken pass/fail (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	16	0

Requirement Select
- CHEM1220 - Principles of Chemistry II (BPS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- CHEM1225 - Chemical Principles Laboratory II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- ENGL1010 - Writing as Inquiry (CL1)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- MATH1060 - Trigonometry

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select
- NDFS1020 - Science and Application of Human Nutrition (BLS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Breadth American Institutions (BAI) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- BAI course may be taken pass/fail (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	15 - 16	0

Requirement Select

- BIOL1610 - Biology I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- BIOL1615 - Biology I Laboratory

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- CHEM2300 - Principles of Organic Chemistry
  OR
- CHEM2310 - Organic Chemistry I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 4
Progress Credits	-
Contact Hours	3 - 4
Clinical	-
Criticality	No

Requirement Select

- CHEM2315 - Organic Chemistry Laboratory I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- MATH1210 - Calculus I (QL)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- NDFS1250 - Sanitation and Safety

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	12 - 13	0

Requirement Select

- ENGL2010 - Research and Argument Across Perspectives (CL2)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- STAT2000 - Statistical Methods (QI)
  OR
- STAT3000 - Statistics for Scientists (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 4
Progress Credits	-
Contact Hours	3 - 4
Clinical	-
Criticality	No

Requirement Select

- NDFS2040 - Fundamentals of Food Processing

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Breadth Creative Arts (BCA) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- BCA may be taken pass/fail (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Summer	4	0

Requirement Select

- CHEM3700 - Introductory Biochemistry

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- CHEM3710 - Introductory Biochemistry Laboratory

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Fall	15	0

Requirement Select

- BIOL3300 - General Microbiology

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- PHYS2110 - General Physics—Life Sciences I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- NDFS5560 - Food Chemistry

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- NDFS5020 - Meat Science and Technology

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Spring	14	0

Requirement Select
- NDFS5100 - Sensory Evaluation of Food (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- NDFS5110 - Food Microbiology (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- NDFS5111 - Food Microbiology Laboratory

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- NDFS5500 - Food Analysis (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- Breadth Humanities (BHU) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- BHU course may be taken pass/fail, CMST 1020 or CMST 2110 suggested to fulfill this requirement (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Fall	12 - 16	0

Requirement Select

- NDFS4440 - Fundamentals of Food Engineering (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- NDFS5510 - Food Laws and Regulations

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- NDFS5250 - Occupational Experiences in Nutrition and Food Sciences

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1 - 3
Progress Credits	-
Contact Hours	1 - 3
Clinical	-
Criticality	No

Requirement Select

- NDFS5920 - Food Product Development (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Depth Humanities and Creative Arts (DHA) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1 - 3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- DHA course may be taken pass/fail, CMST course recommended if requirement is not complete (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Spring	10 - 14	0

Requirement Select

- NDFS5030 - Dairy Technology and Processing

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- NDFS5040 - Dairy Foods Processing Laboratory

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- Depth Social Sciences (DSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	0 - 4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- General Elective course (3 credits) (may take pass/fail) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- General Elective course (3 credits) (may take pass/fail) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Program Learning Outcomes

Program Learning Outcomes

https://qanr.usu.edu/ndfs/assessment

Forest Ecology and Management - BS

Program Overview

College
College of Agriculture & Natural Resources

Department
Wildland Resources

Program Level
Undergraduate

About this Degree

In the program, students gain the knowledge and skills needed to manage public or private forests. The program focuses on providing future foresters with the broadest possible understanding of the biological, physical, economic, political, and social aspects of forestry. This multidisciplinary degree consists of courses in biology, math, chemistry, statistics, forest ecology, inventory, water quality, wildlife habitat, tree species, and geographic information systems.

- For more information about Forest Ecology and Management, see the website.
- Admitted and current students must meet with an academic advisor for help with semester by semester planning, connections to co-curricular experiences, understanding of USU policies, and accessing USU resources.
- Log on to Degree Works to check student-specific program progress.
- The highest math requirement for this degree is STAT2000 STATISTICAL METHODS (QI) or STAT3000 STATISTICS FOR SCIENTISTS (QI)

Admission Requirements for this Program

- New freshmen: Admitted to USU in Good Standing
- Transfer students from other institutions or other programs at USU: 2.5 GPA

Program Requirements

Total Credits Required In Program Coursework
84-85

Total Credits Required To Earn This Credential
120

Simple Requisites

Program Requirements

All courses required for the major must be taken on an A-B-C-D-F basis. A grade of C- or better is required for all courses taken in the major department as well as STAT2000 STATISTICAL METHODS (QI) or STAT3000 STATISTICS FOR SCIENTISTS (QI). The grade point average for all courses taught by the College of Agriculture and Natural Resources must be 2.5 or higher.

Forest Ecology and Management Required Courses (84-85 credits)

Type
Completion Requirement

CL1/CL2 Requirements (6 credits)

Complete at least 1 course in the following course sets:

- Communications Literacy (CL1) Course
- Communications Literacy (CL2) Course

Scientific Foundation (26-27 credits)

Complete ALL of the following Courses:

- BIOL1610 - Biology I - 3cr.
- BIOL1615 - Biology I Laboratory - 1cr.
- BIOL1620 - Biology II (BLS) - 3cr.
- BIOL1625 - Biology II Laboratory - 1cr.
- CHEM1110 - General Chemistry I (BPS) - 4cr.
- MATH1050 - College Algebra (QL) - 4cr.
- MATH1100 - Calculus Techniques (QL) - 3cr.
  OR MATH1170 - Modeling Change: Calculus in Life and Society - 4cr.
- PSC3000 - Fundamentals of Soil Science - 4cr.
- STAT2000 - Statistical Methods (QI) - 4cr.
  OR STAT3000 - Statistics for Scientists (QI) - 3cr.
- WATS2220 - General Ecology - 3cr.

Departmental Common Courses (22 credits)

Complete ALL of the following Courses:

- WILD2000 - Natural Resource Professional Orientation - 1cr.
  OR ENVS2000 - Natural Resource Professional Orientation - 1cr.
  OR WATS2000 - Natural Resource Professional Orientation - 1cr.
- WILD2800 - Introduction to Geographic Information Sciences - 4cr.
  OR GEOG2800 - Introduction to Geographic Information Sciences - 4cr.
- WILD2400 - Wildland Resource Techniques - 3cr.
- WILD3800 - Wildland Plants and Ecosystems - 4cr.
- WILD3820 - Forest Plants: Identification, Biology, and Function - 3cr.
- WILD3850 - Vegetation and Habitat Management - 3cr.
- WILD4750 - Monitoring and Assessment in Natural Resource and Environmental Management - 4cr.

Professional Coursework (27 credits)

Complete ALL of the following Courses:

- APEC3012 - Introduction to Natural Resource Economics (DSS) - 3cr.
- ENVS3010 - Natural Resource and Environmental Policy - 3cr.
- ENVS3300 - Fundamentals of Natural Resource Recreation Management - 3cr.
- ENVS4000 - Human Dimensions of Natural Resource Management (DSS) - 3cr.
- WATS3700 - Fundamentals of Watershed Science (CI) - 3cr.
- WILD3100 - Introduction to Wildland Fire - 3cr.
- WILD5100 - Forests and Fuels Measuring & Modeling - 3cr.
- WILD5700 - Forest Assessment and Management (CI) - 3cr.
- WILD5750 - Applied Remote Sensing - 3cr.

Open Electives

Complete the following is needed:
Total elective credit is determined by General Education courses taken, degree type selected, additional credits earned, and any additional math or other prerequisite courses needed. Please consult your Academic Advisor for details.

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Bachelor's Degree)

Suggested Degree Maps

Degree Map Name
Suggested Degree Map - Forest Ecology and Management, BS
Total Degree Map Credits
123 - 127
Degree Map Effective Catalog Year
2027 -

Degree Map Narrative

- Following is a sample four-year plan. Please note that student-specific plans may differ.
- Meet with an academic advisor to create a specific plan that best fits your academic needs.
- The student is ultimately responsible for knowing and completing all degree requirements.
- Make sure you meet the registration requirements for each class by clicking the course link and checking any prerequisites or corequisites.
- Consultation with an advisor may result in an altered plan customized for an individual student.
- Check your Degree Works for requirements and completion.

The variable number of credits for STAT2000 STATISTICAL METHODS (QI) and STAT3000 STATISTICS FOR SCIENTISTS (QI) may require students to adjust the number of elective credits taken in their program

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	14 - 15	0

Requirement Select
- BIOL1610 - Biology I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- BIOL1615 - Biology I Laboratory

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- ENGL1010 - Writing as Inquiry (CL1)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- WILD2000 - Natural Resource Professional Orientation
  OR
- ENVS2000 - Natural Resource Professional Orientation
  OR
- WATS2000 - Natural Resource Professional Orientation

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- Breadth American Institutions (BAI) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Breadth Social Sciences (BSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	14	0

Requirement Select
- BIOL1620 - Biology II (BLS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- BIOL1625 - Biology II Laboratory

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- MATH1050 - College Algebra (QL)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- Breadth Creative Arts (BCA) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Breadth Humanities (BHU) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	15	0

Requirement Select
- APEC3012 - Introduction to Natural Resource Economics (DSS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- ENVS3300 - Fundamentals of Natural Resource Recreation Management

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- MATH1100 - Calculus Techniques (QL)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- WATS2220 - General Ecology

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- WILD2400 - Wildland Resource Techniques

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	20 - 21	0

Requirement Select

- CHEM1110 - General Chemistry I (BPS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- ENGL2010 - Research and Argument Across Perspectives (CL2)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- STAT2000 - Statistical Methods (QI)
  OR
- STAT3000 - Statistics for Scientists (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 4
Progress Credits	-
Contact Hours	3 - 4
Clinical	-
Criticality	No

Requirement Select

- WILD2800 - Introduction to Geographic Information Sciences

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- GEOG2800 - Introduction to Geographic Information Sciences

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- Elective (2 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Fall	17	0

Requirement Select

- ENVS3010 - Natural Resource and Environmental Policy

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- ENVS4000 - Human Dimensions of Natural Resource Management (DSS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- PSC3000 - Fundamentals of Soil Science

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- WILD3800 - Wildland Plants and Ecosystems

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- WILD3820 - Forest Plants: Identification, Biology, and Function

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Spring	12 - 14	0

Requirement Select

- WATS3700 - Fundamentals of Watershed Science (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- WILD3850 - Vegetation and Habitat Management

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Depth Humanities and Creative Arts (DHA) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1 - 3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective (5 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	5
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- *The variable number of credits for STAT 2000 and STAT 3000 requires students to adjust the number of elective credits taken in their program. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Fall	16	0

Requirement Select
- WILD3100 - Introduction to Wildland Fire

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- WILD4750 - Monitoring and Assessment in Natural Resource and Environmental Management

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- WILD5100 - Forests and Fuels Measuring & Modeling

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- WILD5750 - Applied Remote Sensing

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Electives (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Spring	15	0

Requirement Select
- WILD5700 - Forest Assessment and Management (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Electives (12 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	12
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Program Learning Outcomes

Program Learning Outcomes
https://www.usu.edu/oda/assessment/

Family Finance - Minor (NOT CURRENTLY OFFERED)

Program Overview

College	Department	Program Level
College of Education & Human Services	Human Development and Family Studies	Undergraduate

About this Degree
****The Family Finance minor is not accepting new students.** Its core concepts and curriculum have been incorporated into the expanded Human Development and Family Studies (HDFS) minor, offering a broader and more comprehensive learning experience.

For academic advising regarding the HDFS minor and further details, contact Laura Holley (Laura.Holley@usu.edu).

Program Requirements

Total Credits Required In Program Coursework	Total Credits Required To Earn This Credential
15	15

Simple Requisites

Program Requirements
- **Total Credits:** 15 credits
- **GPA to Graduate with Minor:** 2.0 GPA within minor coursework
- **Minimum Grade Requirement:** All courses for the Family Finance minor require a minimum grade of **C** or better. Courses taken for the minor *may not* be taken on a pass/fail basis.
- **Minor Advisor:** Laura Holley - Laura.Holley@usu.edu

Section 1

Type
Completion Requirement

Required Courses (15 credits)

Complete ALL of the following Courses:
- HDFS2100 - Family Resource Management (BSS) - 3cr. **OR** HDFS2450 - Consumer and Family Economic Issues (BSS) - 3cr.
- HDFS3350 - Family Finance (DSS) - 3cr.
- HDFS3450 - Consumer Credit Problems - 3cr.
- HDFS4350 - Advanced Family Finance - 3cr.
- HDFS5340 - Housing Finance and Regulations - 3cr.

NOTE

1. Please contact laura.holley@usu.edu for more information.

Program Learning Outcomes

Program Learning Outcomes
https://cehs.usu.edu/about/assessment

Foundations in Animal Science - Certificate

Program Overview

College
College of Agriculture & Natural Resources

Department
Animal, Dairy & Veterinary Sciences

Program Level
Undergraduate

About this Degree

The Foundations in Animal Science certificate is a 12-credit program designed to provide students with a foundational understanding of animal science, covering essential topics such as animal nutrition, livestock production systems, and hands-on management practices. The curriculum offers a flexible structure with two required courses which equip students with core knowledge of animal biology, production systems, and the nutritional needs of livestock. In addition to these foundational courses, students choose two production-specific courses from a range of areas, including beef, dairy, swine, and small ruminant practices, among others. This variety allows students to tailor their learning to their specific interests in animal agriculture, providing valuable practical experience in real-world livestock management. The program is ideal for students seeking an entry point into animal science or those who may wish to enhance their career opportunities in the animal agriculture industry without committing to a full bachelor's degree.

Program Requirements

Total Credits Required In Program Coursework
12

Total Credits Required To Earn This Credential
12

Simple Requisites

Program Requirements

1. Attain a grade point average of at least 2.50 across all courses applied toward this certificate.
2. Courses required for the certificate may *not* be taken for a *pass/fail* grade except for courses that are only offered as pass/fail.
3. A minimum grade of C is required in all courses applied toward this certificate.

Required Courses

Type
Completion Requirement

Complete the following courses:

Complete ALL of the following Courses:

- ADVS1110 - Introduction to Animal Science (BLS) - 3cr.
- ADVS2500 - Feeds and Feeding - 3cr.

Complete two of the following courses:

Complete at least 2 of the following courses:

- ADVS1100 - Small-Scale and Specialty Animal Production - 3cr.
- ADVS2010 - Companion Animal Science and Management - 2cr.
  AND ADVS2015 - Companion Animal Science and Management Laboratory - 1cr.
- ADVS2080 - Beef Production Practices - 3cr.
- ADVS2090 - Sheep Production Practices - 3cr.
- ADVS2110 - Poultry Production and Management - 3cr.
- ADVS2120 - Swine Production and Management - 3cr.
- ADVS2130 - Dairy Cattle Production - 3cr.
- ADVS2190 - Horse Production Practices - 3cr.

NOTE:

1. ADVS2010 COMPANION ANIMAL SCI/MGT and ADVS2015 COMP ANIMAL SCI MGMT LAB together count as one course toward this requirement.

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Undergraduate Academic or Technical Certificates)

Program Learning Outcomes

Program Learning Outcomes

https://qanr.usu.edu/advs/assessment/

Finance - Minor

Program Overview

College
Jon M. Huntsman School of Business

Department
Economics and Finance

Program Level
Undergraduate

About this Degree

Students interested in markets, trading, investing, banking, or other related finance subjects can supplement their major field of study with a minor in finance. The initial courses in the sequence (FIN3200 CORPORATE FINANCE (QI) and FIN3300 INVESTMENTS) give a broad overview of the world of finance. Learn about the time value of money and how it can be applied to solve a variety of problems. There is no GPA requirement but all courses require a B- or better to fulfill the minor requirements. Courses required for this minor may not be taken pass/fail.

Program Requirements

Total Credits Required In Program Coursework
16

Total Credits Required To Earn This Credential
16

Simple Requisites

Program Requirements

Requirements

Type
Completion Requirement

Finance Minor Required Courses (7 credits)

Complete ALL of the following Courses:

- FIN2000 - Careers in Finance - 1cr.
- FIN3200 - Corporate Finance (QI) - 3cr.
- FIN3300 - Investments - 3cr.

Elective Courses (9 credits)

Fulfill 9 credits of FIN 3000-5999 level courses

Program Learning Outcomes

Program Learning Outcomes

https://huntsman.usu.edu/assessment/assessment-plan

Finance - BA, BS

Program Overview

College
Jon M. Huntsman School of Business

Department
Economics and Finance

Program Level
Undergraduate

About this Degree

Finance students learn to manage the monetary resources of organizations, countries, and individuals.

They also gain the knowledge and preparation necessary to pursue the Chartered Financial Analyst (CFA) exam after they graduate. The CFA is the most internationally recognized and credible credential for financial professionals and is earned by passing a series of analytically rigorous exams.

- For more information about Finance, see the website.
- Admitted and current students must meet with an advisor.
- Log on to Degree Works to check student-specific program progress.
- The highest math requirement for this degree is MATH1050 COLLEGE ALGEBRA (QL)

Admission Requirements for this Program

First-Year and Transfer Students are admitted to the Huntsman School of Business based on USU's Admission Requirements.

Current USU Students in good standing qualify for admission into a Huntsman School major.

Huntsman School Admission Details: https://huntsman.usu.edu/undergraduate/apply

Program Requirements

Total Credits Required In Program Coursework
90

Total Credits Required To Earn This Credential
120

Simple Requisites

Program Requirements

- Elective credits needed will be determined on an individual basis (a student with continuing education, AP credits, and Language credits may not require additional elective credits).
- Completing a minor is recommended to fulfill elective credits.
- Students are encouraged to enhance their educational experience through use of the Roadmap to Graduation and Student Success found at https://huntsman.usu.edu/advising/road_map
- The Huntsman School of Business adheres to the USU repeat policy in the following manner: a student is limited to 10 repeats total to earn a degree from Utah State University.
- The Huntsman School of Business restricts the number of times a specific course can be taken as follows: students may take a business course twice (once, plus one repeat). Beyond two attempts, the student's dean must approve additional registration for the class.

Graduation Requirements:

To be recommended by the department for graduation, majors in the Department of Economics and Finance must have a grade point average of at least 2.50 in their upper-division Huntsman School of Business acumen and

major requirement courses, a grade of C or better in HSB business acumen courses, and an overall GPA of 2.0. Major requirements may *not* be taken on a pass/fail basis. This includes transfer credits. At least fifty percent of the business credits required for a business degree must be taken on the Utah State University campus or at a designated residence center.

Finance - BA, BS Course Requirements

Type
Completion Requirement

Major Requirements (26 credits)

Completion with a 2.5 cumulative and major GPA is required for graduation. All major courses require a grade of C or better.

Fulfill ALL of the following requirements:

Required

Complete ALL of the following Courses:

- FIN2000 - Careers in Finance - 1cr.
- FIN2250 - Finance Professional Development - 1cr.
  OR FIN4250 - Finance Internship - 1cr.
- FIN4200 - Intermediate Corporate Finance - 3cr.
- FIN4410 - Financial Institutions - 3cr.

AND

Elective Credits

Complete 18 credits of approved electives

- FIN 3000-5999 level courses

6 of the 18 credits may come from the following courses:

- ECON 3000 - 5999 (except 4250, 4900, 4950)
- ACCT 3000 - 5999 (except 4250, 4900, 4950)
- A maximum of 3 credits from FIN 4250 may be used.

Business Acumen (46-47 credits)

All acumen courses must have a minimum grade of C unless otherwise stated.

Complete ALL of the following Courses:

- ACCT2010 - Financial Accounting Principles - 3cr.
- ACCT2020 - Managerial Accounting Principles - 3cr.
- BUS3200 - Professional Communication with AI (CI) - 3cr.
- DATA1100 - Excel for Business Analysis - 1cr.
- DATA2100 - Data and Information in Business - 3cr.
- DATA3100 - Making Decisions with Data - 3cr.
- DATA3300 - Introduction to Modern Data Analytics (QI) - 3cr.
- ECON2010 - Introduction to Microeconomics (BSS) - 3cr.
- ECON2020 - Introduction to Macroeconomics (BAI) - 3cr.
- ECON3050 - Foundations of Business: Capitalism, Markets, and Innovation - 3cr.
- FIN3200 - Corporate Finance (QI) - 3cr.
- FIN3300 - Investments - 3cr.
- MGT3350 - Legal and Ethical Environment of Business - 3cr.
- MGT3700 - Operations Management - 3cr.
- MSLE3500 - Fundamentals of Marketing - 3cr.
- MSLE3800 - Leadership - 2cr.
- MSLE3890 - Systems Strategy and Problem Solving - 2cr.

Finance majors require a B- grade or higher in FIN3200

Total Elective Credit

Total elective credit is determined by General Education courses taken, degree type selected, additional credits earned, and any additional math or other prerequisite courses needed. Please consult your Academic Advisor for details.

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Bachelor's Degree)

Suggested Degree Maps

Degree Map Name
Suggested Degree Map - Finance BA, BS
Total Degree Map Credits
120 - 121
Degree Map Effective Catalog Year
2027 -

Degree Map Narrative

- Following is a sample four-year plan. Please note that student-specific plans may differ.
- Meet with an academic advisor to create a specific plan that best fits your academic needs.
- The student is ultimately responsible for knowing and completing all degree requirements.
- Make sure you meet the registration requirements for each class by clicking the course link and checking any prerequisites or corequisites.
- Consultation with an advisor may result in an altered plan customized for an individual student.
- Check your Degree Works for requirements and completion.

Students who have not attended any school beyond high school and have a declared major in the Huntsman School of Business are expected to enroll in BUS1000 HSB FRESHMEN ACADEMY during their first year at USU. The course is intended to acculturate students to college life, and is therefore not relevant for internal or external transfer students and online students.

Undeclared students should apply to the Jon M. Huntsman School during their fall semester of Year 2 at huntsman.usu.edu/apply/.

Students should apply for graduation the first semester of their final year at www.usu.edu/registrar/htm/graduation/apply-online.

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	15	0

Requirement Select
- FIN2000 - Careers in Finance

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- ECON2010 - Introduction to Microeconomics (BSS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- ENGL1010 - Writing as Inquiry (CL1)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- MATH1050 - College Algebra (QL)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- USU1010 - University Connections

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select
- BUS1000 - HSB Freshmen Academy

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- General Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	15	0

Requirement Select
- FIN3200 - Corporate Finance (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- ECON2020 - Introduction to Macroeconomics (BAI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- ACCT2010 - Financial Accounting Principles

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- ENGL2010 - Research and Argument Across Perspectives (CL2)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Breadth American Institutions (BAI) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	15	0

Requirement Select

- FIN3300 - Investments

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- ECON3050 - Foundations of Business: Capitalism, Markets, and Innovation

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- ACCT2020 - Managerial Accounting Principles

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Breadth Humanities (BHU) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Breadth Social Sciences (BSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	14 - 15	0

Requirement Select
- FIN4200 - Intermediate Corporate Finance

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Finance Elective Course 3000+ (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- MSLE3500 - Fundamentals of Marketing

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- DATA1100 - Excel for Business Analysis

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- DATA2100 - Data and Information in Business

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2 - 3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- MSLE3800 - Leadership

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Fall	15	0

Requirement Select
- FIN4410 - Financial Institutions

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Finance Elective Course 3000+ (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- BUS3200 - Professional Communication with AI (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- DATA3100 - Making Decisions with Data

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Breadth Physical Sciences (BPS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Spring	15	0

Requirement Select
- Finance Elective Courses 3000+ (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Finance Elective Course 3000+ (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- MGT3700 - Operations Management

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Communications Intensive (CI) Courses

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Breadth Life Sciences (BLS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Fall	15	0

Requirement Select

- Finance Elective Course 3000+ (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- MGT3350 - Legal and Ethical Environment of Business

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- DATA3300 - Introduction to Modern Data Analytics (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Breadth Creative Arts (BCA) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Depth Humanities and Creative Arts (DHA) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Spring	16	0

Requirement Select

- FIN2250 - Finance Professional Development

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- Finance Elective Course 3000+ (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- MSLE3890 - Systems Strategy and Problem Solving

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select

- Depth Life and Physical Sciences (DSC) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- General Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Program Learning Outcomes

Program Learning Outcomes

https://www.usu.edu/oda/assessment/

Finance - Quantitative Finance Emphasis - BA, BS (EMPHASIS NOT CURRENTLY OFFERED)

Program Overview

College	Department	Program Level
Jon M. Huntsman School of Business	Economics and Finance	Undergraduate

About this Degree

Finance students learn to manage the monetary resources of organizations, countries, and individuals.

They also gain the knowledge and preparation necessary to pursue the Chartered Financial Analyst (CFA) exam after they graduate. The CFA is the most internationally recognized and credible credential for financial professionals and is earned by passing a series of analytically rigorous exams.

Quantitative Finance: This emphasis focuses on the quantitative side of finance through the use of mathematical models and data. Potential coursework includes econometrics, financial modeling, financial markets, and machine learning. This emphasis prepares students for a wide array of career options, .some of which include: financial engineering, derivatives trading, asset management, risk management, financial analyst, quantitative analyst, investment banking, and credit analyst. Some students with this emphasis also pursue additional education in degree programs such as a Masters of Financial Economics, Masters of Financial Engineering, Masters of Finance, or Ph.D. in Finance.

- For more information about Finance, see the website.
- Admitted and current students must meet with an advisor.
- Log on to Degree Works to check student-specific program progress.
- The highest math requirement for this degree is MATH1050 COLLEGE ALGEBRA (QL)

Admission Requirements for this Program

First-Year and Transfer Students are admitted to the Huntsman School of Business based on USU's Admission Requirements.

Current USU Students in good standing qualify for admission into a Huntsman School major.

Huntsman School Admission Details: https://huntsman.usu.edu/undergraduate/apply

Program Requirements

Total Credits Required In Program Coursework	Total Credits Required To Earn This Credential
85	120

Simple Requisites

Program Requirements

- Elective credits needed will be determined on an individual basis (a student with continuing education, AP credits, and Language credits may not require additional elective credits).
- Completing a minor is recommended to fulfill elective credits.
- Students are encouraged to enhance their educational experience through use of the Roadmap to Graduation and Student Success found at https://huntsman.usu.edu/advising/road_map

- The Huntsman School of Business adheres to the USU repeat policy in the following manner: a student is limited to 10 repeats total to earn a degree from Utah State University.
- The Huntsman School of Business restricts the number of times a specific course can be taken as follows: students may take a business course twice (once, plus one repeat). Beyond two attempts, the student's dean must approve additional registration for the class.

Graduation Requirements:

To be recommended by the department for graduation, majors in the Department of Economics and Finance must have a grade point average of at least 2.50 in their upper-division Huntsman School of Business acumen and major requirement courses, a grade of C or better in HSB business acumen courses, and an overall GPA of 2.0. Major requirements may *not* be taken on a pass/fail basis. This includes transfer credits. At least fifty percent of the business credits required for a business degree must be taken on the Utah State University campus or at a designated residence center.

Finance - BA, BS Course Requirements

Type
Completion Requirement

Major Requirements (24 credits)

Completion with a 2.5 cumulative and major GPA is required for graduation. All major courses require a grade of C or better.

Fulfill ALL of the following requirements:

Required

Complete ALL of the following Courses:

- FIN2000 - Careers in Finance - 1cr.
- FIN2250 - Finance Professional Development - 1cr.
  OR FIN4250 - Finance Internship - 1cr.
- FIN4200 - Intermediate Corporate Finance - 3cr.
- FIN4410 - Financial Institutions - 3cr.
- ECON5000 - Econometrics (QI) - 3cr.

AND

Electives

Earn at least 15 credits from the following:

- FIN4300 - International Finance - 3cr.
- FIN4450 - Advanced Corporate Finance - 3cr.
- FIN4460 - Intermediate Investments - 3cr.
- FIN4480 - Derivatives Markets - 3cr.
- FIN5000 - Advanced Investment Analysis - 3cr.
- FIN5025 - Fixed Income - 3cr.
- FIN5100 - Financial Markets and Trading - 3cr.
- FIN5110 - Algorithmic Trading - 3cr.
- FIN5350 - Financial Modeling - 3cr.
- FIN5120 - Cryptocurrencies and FinTech - 3cr.
- FIN5440 - Cases in Finance - 3cr.
- FIN5460 - Advanced Investments - 3cr.
- FIN5600 - Introduction to Financial Economics - 3cr.
- FIN5700 - Portfolio Management - 3cr.
- FIN5750 - Equity Investment Strategies - 3cr.
- FIN5800 - Financial Analysis - 3cr.
- ECON4310 - Mathematical Methods for Economics - 3cr.

Business Acumen (46-47 credits)

All acumen courses must have a minimum grade of C unless otherwise stated.

Complete ALL of the following Courses:

- ACCT2010 - Financial Accounting Principles - 3cr.
- ACCT2020 - Managerial Accounting Principles - 3cr.
- BUS3200 - Professional Communication with AI (CI) - 3cr.
- DATA1100 - Excel for Business Analysis - 1cr.
- DATA2100 - Data and Information in Business - 3cr.
- DATA3100 - Making Decisions with Data - 3cr.
- DATA3300 - Introduction to Modern Data Analytics (QI) - 3cr.
- ECON2010 - Introduction to Microeconomics (BSS) - 3cr.
- ECON2020 - Introduction to Macroeconomics (BAI) - 3cr.
- ECON3050 - Foundations of Business: Capitalism, Markets, and Innovation - 3cr.
- FIN3200 - Corporate Finance (QI) - 3cr.
- FIN3300 - Investments - 3cr.
- MGT3350 - Legal and Ethical Environment of Business - 3cr.
- MGT3700 - Operations Management - 3cr.
- MSLE3500 - Fundamentals of Marketing - 3cr.
- MSLE3800 - Leadership - 2cr.
- MSLE3890 - Systems Strategy and Problem Solving - 2cr.

Finance majors require a B- grade or higher in FIN3200

Total Elective Credit

Total elective credit is determined by General Education courses taken, degree type selected, additional credits earned, and any additional math or other prerequisite courses needed. Please consult your Academic Advisor for details.

Minimum University Requirements

Minimum University Requirements
Minimum University Requirements (Bachelor's Degree)

Suggested Degree Maps

Degree Map Name
Suggested Degree Map - Finance BA, BS
Total Degree Map Credits
108 - 131
Degree Map Effective Catalog Year
2027 -

Degree Map Narrative

- Following is a sample four-year plan. Please note that student-specific plans may differ.
- Meet with an academic advisor to create a specific plan that best fits your academic needs.
- The student is ultimately responsible for knowing and completing all degree requirements.
- Make sure you meet the registration requirements for each class by clicking the course link and checking any prerequisites or corequisites.
- Consultation with an advisor may result in an altered plan customized for an individual student.
- Check your Degree Works for requirements and completion.

Students who have not attended any school beyond high school and have a declared major in the Huntsman School of Business are expected to enroll in BUS1000 HSB FRESHMEN ACADEMY during their first year at USU.

*The course is intended to acculturate students to college life, and is therefore not relevant for internal or external transfer students. Thus, transfer students are *not* expected to enroll in BUS1000 HSB FRESHMEN ACADEMY. Thisis an in-person course on the Logan campus for now, so those at statewide campuses or online are not able to enroll, and thus *not* expected to enroll.

Undeclared students should apply to the Jon M. Huntsman School during their fall semester of Year 2 at huntsman.usu.edu/apply/.

Students should apply for graduation the first semester of their final year at www.usu.edu/registrar/htm/graduation/apply-online.

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	14	0

Requirement Select
- ECON2020 - Introduction to Macroeconomics (BAI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- ENGL1010 - Writing as Inquiry (CL1)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- MATH1050 - College Algebra (QL)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- USU1010 - University Connections

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select
- FIN2000 - Careers in Finance

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- BUS1000 - HSB Freshmen Academy

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- Minimum grade of C is required in ECON2020 and ECON3050; USU1010 starts the week prior to fall semester and is completed after the first 3 weeks of fall semester (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	16	0

Requirement Select

- ECON2010 - Introduction to Microeconomics (BSS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- ENGL2010 - Research and Argument Across Perspectives (CL2)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- DATA1100 - Excel for Business Analysis

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- DATA2100 - Data and Information in Business

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- FIN3200 - Corporate Finance (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Breadth Humanities (BHU) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- A minimum grade of B- is required in FIN3200; A minimum grade of C is required in ECON2010, ENGL2010, DATA1100, DATA2100 (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	12 - 27	0

Requirement Select

- ACCT2010 - Financial Accounting Principles

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- DATA3100 - Making Decisions with Data

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- MGT3350 - Legal and Ethical Environment of Business

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- FIN3300 - Investments

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Communications Intensive (CI) Courses

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	0 - 15
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- A minimum grade of B- is required in FIN3300; A minimum grade of C is required in ACCT2010, DATA3100, MGT3350 (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	8 - 14	0

Requirement Select

- ACCT2020 - Managerial Accounting Principles

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Breadth Physical Sciences (BPS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	0 - 4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Depth Life and Physical Sciences (DSC) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2 - 3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Breadth Life Sciences (BLS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Integrated Studies Requirement - 2-3 credits (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- A minimum grade of C is required in ACCT2020 (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Fall	13 - 15	0

Requirement Select
- FIN4410 - Financial Institutions

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- FIN4200 - Intermediate Corporate Finance

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- BUS3200 - Professional Communication with AI (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Breadth Creative Arts (BCA) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Depth Humanities and Creative Arts (DHA) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1 - 3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- A minimum grade of C is required in BUS3200 (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Spring	16	0

Requirement Select

- MSLE3500 - Fundamentals of Marketing

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- MGT3700 - Operations Management

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- MSLE3800 - Leadership

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select

- Finance elective course - 3 credits (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Finance elective course - 3 credits (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Electives course - 2 credits (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- A minimum grade of C is required in MSLE3500, MGT3700, MSLE3800 (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Fall	15	0

Requirement Select

- DATA3300 - Introduction to Modern Data Analytics (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Finance elective course - 3 credits (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Finance elective course - 3 credits (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Elective courses - 6 credits (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- A minimum grade of C is required in DATA3300 (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Spring	14	0

Requirement Select

- MSLE3890 - Systems Strategy and Problem Solving

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select

- Finance elective course - 3 credits (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Finance elective course - 3 credits (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Finance elective course - 6 credits (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- A minimum grade of C is required in MSLE3890 (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Program Learning Outcomes

Program Learning Outcomes

https://www.usu.edu/oda/assessment/

Fintech Analytics - Post-Bachelor's Certificate

Program Overview

College	Department	Program Level
Jon M. Huntsman School of Business	Data Analytics & Information Systems	Graduate

About this Degree

In response to surging demand for finance professionals who master advanced computational and quantitative methods, the Fintech Analytics certificate blends finance, data science, and technology. Built for tech-savvy students and finance enthusiasts, this program leverages applied analytics expertise and Huntsman School career connections to prepare graduates for fast-growing fintech roles, digital banks, and innovative financial services firms. The certificate is designed to be stackable with the MDATA master's program, allowing a flexible pathway to deeper analytics mastery or standalone launch of a fintech career.

Who this is for

- Students with backgrounds in technology and finance who want to apply advanced analytics to fintech
- Professionals aiming to work in data-driven financial services, fintech product teams, risk analytics, or quantitative analysis
- Individuals seeking a credential that complements engineering, data science, and finance skills

Note that the Fintech graduate certificate can be completed on its own, or it can be stacked with other certificates offered by the Department of Data Analytics and Information Systems (or with designated certificates from other campus programs) to meet the requirements of the Master's of Data Analytics (MDATA) program.

Data Analytics and Information Systems Faculty

Courses in Fintech Analytics program are taught by faculty in the DAIS department who have years of corporate and academic experience. Our instructors are experts in the most cutting-edge tools and strategies for data and tech.

DAIS Faculty

Admission Requirements for this Program

Prior bachelor's degree with at least a 3.0 GPA in previous 90 credits; relevant coursework or experience in basic data analysis, programming, and finance.

Program Requirements

Total Credits Required In Program Coursework	Total Credits Required To Earn This Credential
12	12

Simple Requisites

Program Requirements

The certificate requires 12 total credits, as outlined within the curriculum below. Individual substitutions for course requirements may be considered and approved on a case-by-case basis by the Data Analytics and Information Systems Department.

Courses used to fulfill requirements for this certificate may not include courses previously completed to meet the requirements of any other certificate or program, and cannot be used to complete any other certificate or program.

Courses remain valid for 6 years for potential inclusion in a future master's degree program (MMIS or MDATA).

Certificate students who opt to earn an MMIS or MDATA degree will be granted a waiver for reduced application fees for their future master's application. Please contact our office for details.

Fintech Analytics - Post-Bachelor's Certificate Course Requirements (12 credits)

Type
Completion Requirement

Required Courses

Complete ALL of the following Courses:

- DATA6500 - Python Programming for Analytics - 3cr.
- DATA6630 - Deep Forecasting - 3cr.
- DATA6690 - Computational Methods for FinTech - 3cr.
- DATA6695 - Predictive Methods for FinTech - 3cr.

Program Learning Outcomes

Program Learning Outcomes
USU Learning Outcomes Assessment - Fintech certificate

Fisheries Science - Minor

Program Overview

College
College of Agriculture & Natural Resources

Department
Watershed Sciences

Program Level
Undergraduate

Program Requirements

Total Credits Required To Earn This Credential
18-19

Simple Requisites

Program Requirements

All courses required for the Fisheries Science minor must be taken on an *A-B-C-D-F* basis. A grade of *C-* or better is required for all WATS courses used to meet requirements for this minor

Section 1

Type
Completion Requirement

A. Fisheries Science Core Courses (10 credits)

Complete ALL of the following Courses:

- WATS2220 - General Ecology - 3cr.
- WATS3100 - Fish Ecology, Conservation, and Management (CI/DSC) - 3cr.
- WATS3110 - Fish Ecology, Conservation, and Management Lab - 1cr.
- WATS3700 - Fundamentals of Watershed Science (CI) - 3cr.

Section 2

Type
Completion Requirement

B. Electives (8-9 credits)

Select three or four courses from the following

Complete at least 3 of the following courses:

- WATS5200 - Fish Habitats - 2cr.
- WATS5305 - Ecology and Restoration of Plants - 3cr.
- WATS5500 - Limnology: Ecology of Inland Waters - 3cr.
- WATS5540 - Ichthyology - 4cr.
- WATS5550 - Freshwater Invertebrates - 3cr.
- WILD3810 - Wildlife Population Ecology - 3cr.

Program Learning Outcomes

Program Learning Outcomes
https://qcnr.usu.edu/wats/assessment/undergraduate

Film Studies - Minor

Program Overview

College
College of Arts & Sciences

Department
Art and Design

Program Level
Undergraduate

Program Requirements

Total Credits Required To Earn This Credential
12

Simple Requisites

Program Requirements

- Minimum GPA: 2.75
- Minimum Grade in Film Studies Courses: C-
- No "P" Grades accepted

Section 1

Type
Completion Requirement

Required Course (3 credits)

Complete ALL of the following Courses:

- FILM1010 - Foundations in Film Studies - 3cr.

Section 2

Type
Completion Requirement

Film Studies Group (9 credits)

Earn at least 9 credits from the following:

- ANTH3110 - North American Indian Cultures (DSS) - 3cr.
- ENGL4365 - Studies in Film - 3cr.
- FILM3300 - The African American Cinematic Experience (CI) - 3cr.
- FILM3320 - American Apocalypse: Disaster and Dystopia in Hollywood Film (CI) - 3cr.
- FILM3330 - The Documentary (CI) - 3cr.
- FILM3350 - British Cinema of the 1960s (CI) - 3cr.
- FILM3360 - Bad Cinema - 3cr.
- FILM3370 - Film Genres (CI) - 3cr.
- FILM4850 - Introduction to Film Theory (CI) - 3cr.
- THEA2575 - Production Projects - 1cr.

Program Learning Outcomes

Program Learning Outcomes
https://www.usu.edu/oda/assessment/

Family and Consumer Sciences Education and Extension - MS

Program Overview

College
College of Agriculture & Natural Resources

Department
Applied Sciences, Technology and Education

Program Level
Graduate

About this Degree
Website: https://caas.usu.edu/aste/

This degree emphasizes research, leadership, and teaching. Students are provided with coursework to gain research skills, engage in mentoring and organizational management, and improve their pedagogical approaches to teaching and learning in formal or nonformal educational settings. This degree program requires a thesis. The completion of a thesis prepares students with the skills and experiences needed to read, interpret, and conduct research. This degree program also prepares students for a future Ph.D. program.

The program can be completed on campus or at a distance as all coursework (30 credits) is available online. Seven courses are required (24 credits). Most students in the program take two classes (6 credits) per semester. Students who follow this will be able complete the program in approximately 2 years (5 semesters).

Admission Requirements for this Program
The required documentation for the application package and admissions requirements are noted on the ASTE Graduate Admission and Application webpage, https://caas.usu.edu/aste/graduate/graduate-program-admission.

Program Requirements

Total Credits Required In Program Coursework
30

Total Credits Required To Earn This Credential
30

Simple Requisites

Program Requirements

School of Graduate Studies General Graduation Guidelines:

Degree Verification

A bachelor's degree from an accredited U. S. college or university or a similarly recognized international university is required for admission to and completion of a graduate program.

Overall Graduate GPA

At least 3. 0 and no grades of C- or lower. Graduate students are required to maintain at least a 3. 0 GPA for degree-program courses. Grades of C- or lower will not be accepted for a graduate degree.

Course Number Acceptability

The Program of Study for a master's degree must include at least 18 semester credits at the level of 6000 or above. A maximum of 12 credits from courses at the level of 5000 may be used on an approved program of study.

Matriculation Start Semester

A master's degree must be completed within six years of entering the degree program. Additional time may be requested and submitted to the Vice Provost of Graduate Studies for review.

Coursework Validity

Coursework over eight years old at the time of degree completion may not be used for a graduate degree unless it is revalidated.

Plan Type

Plan A - The Plan A option for a master's degree requires preparation and defense of a thesis.

Required Master's forms:

Approval of academic forms required for master's students by the School of Graduate Studies

- Supervisory Committee
- Program of Study
- Thesis/Project Approval
- Appointment for Examination
- Record of Examination
- Authorship & Copyright
- Format & Style
- Title Page
- SGS and library review & approval
- Graduation Application

Requirements

Type
Completion Requirement

Foundation Research (15 credits)

Complete ALL of the following Courses:

- ASTE6100 - Research and Academic Writing - 3cr.
- ASTE6750 - Research Methods and Design - 3cr.
- ASTE6800 - Analysis of Social Research Data - 3cr.
- ASTE6970 - Research and Thesis - 1cr.

A minimum of 6 credits is required in ASTE6970 RESEARCH AND THESIS

Foundation Core (6 credits)

Complete ALL of the following Courses:

- ASTE6160 - Foundations of Adult Education - 3cr.
- ASTE6170 - Program Planning and Evaluation - 3cr.

Electives (9 credits)

Select 9 credits

Fulfill ANY of the following requirements:

Suggested Electives for Extension

Earn at least 9 credits from the following:

- ASTE6200 - Principles and Practices of Extension Education - 3cr.
- ASTE6220 - Volunteer Programs and Partnerships - 3cr.
- ASTE6370 - Grant Writing and Management - 3cr.
- ASTE6900 - Graduate Independent Study in Career and Technical Education - 1cr.
- ASTE6920 - Communication Tools for Extension - 3cr.
- ASTE6950 - Graduate Internship - 1cr.
- ASTE7500 - Diffusion of Innovations - 3cr.

OR

Suggested Electives for Education

Earn at least 9 credits from the following:

- ASTE6090 - Curriculum Design - 3cr.
- ASTE6180 - Administration and Leadership - 3cr.
- ASTE6300 - Advanced Teaching Strategies - 3cr.
- ASTE6315 - Career and Technical Student Organization Development - 3cr.
- ASTE6320 - Classroom Management, Student Motivation, and Guidance - 3cr.
- ASTE6380 - Mentoring and Supervision - 3cr.
- ASTE6900 - Graduate Independent Study in Career and Technical Education - 1cr.
- ASTE6950 - Graduate Internship - 1cr.
- ASTE6900 - Graduate Independent Study in Career and Technical Education - 1cr.
- ASTE6910 - Design Thinking for Career and Technical Education - 3cr.

Program Learning Outcomes

Program Learning Outcomes
https://caas.usu.edu/aste/assessment/

Foundations of Criminal Justice - Certificate

Program Overview

College
College of Arts & Sciences

Department
School of Social Sciences

Program Level
Undergraduate

About this Degree

Crime is a complex subject that is heavily tied to issues of class, race, and gender. Societal response to crime should be nuanced and guided by evidence-based practices. The aim of this certificate is to foster a culture within local, state, and federal criminal justice institutions that embraces multiple perspectives and evidence-based practices.

One of the most important ways the School of Social Sciences can serve the public is by educating future criminal justice practitioners to be culturally aware in the maintenance of formal social control. In keeping with this aim, this certificate strategically integrates curriculum from the Department of Social Work to prepare professionals to individuals experiencing mental health crises while caring for their own wellbeing. Thus, students earning this certificate will have the socially informed education required to operate in modern criminal justice spaces.

Program Requirements

Total Credits Required In Program Coursework
9

Total Credits Required To Earn This Credential
9

Simple Requisites

Program Requirements

- Of the required courses, five are currently offered as USU Concurrent Enrollment courses.
- A minimum of six out of the nine credits must be completed through Utah State University.

Foundations of Criminal Justice - Certificate

Type
Completion Requirement

Core Requirements (3 credits)

Complete ALL of the following Courses:

- CJ1010 - Introduction to Criminal Justice (BSS) - 3cr.

Elective Courses (6 credits)

Complete at least 2 of the following courses:

- CJ1300 - Introduction to Corrections - 3cr.
- CJ1330 - Criminal Law - 3cr.
- CJ1340 - Criminal Investigations - 3cr.
- CJ1390 - Introduction to Policing - 3cr.
- CJ2330 - Juvenile Justice - 3cr.

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Undergraduate Academic or Technical Certificates)

Program Learning Outcomes

Program Learning Outcomes

1. **Understanding of the Criminal Justice System.** Students will be able to describe the structure, functions, and interrelationships of the main components of the criminal justice system: law enforcement, courts, and corrections.
2. **Application of Legal Principles and Procedures**. Students will demonstrate knowledge of constitutional law, criminal law, and procedural law, and apply these principles to real-world scenarios involving criminal justice processes.
3. **Critical Thinking and Ethical Decision-Making**. Students will develop the ability to analyze complex criminal justice issues, evaluate evidence, and make ethical decisions in professional contexts.

Folklore - Minor

Program Overview

College
College of Arts & Sciences

Department
History, Cultures & Ideas

Program Level
Undergraduate

About this Degree

The 12-credit minor in folklore is an interdisciplinary program sponsored by the English department and the History department. The coursework for the minor must be approved by the Director of the Folklore Program, Lynne McNeill.

Program Requirements

Total Credits Required In Program Coursework
12

Total Credits Required To Earn This Credential
12

Simple Requisites

Program Requirements

Students must have a 2.5 overall GPA to declare the Folklore - Minor and must maintain a minimum 2.5 GPA within the minor courses with no grade lower than a C. With the exception of ENGL2210 INTRO TO FOLKLORE (BHU), courses used to fulfill the requirements for the English and History majors may *not* be used for the Folklore minor.

Section 1

Type
Completion Requirement

Required Courses (6 credits)

Complete ALL of the following Courses:

- ENGL2210 - Introduction to Folklore (BHU) - 3cr.
  OR HIST2210 - Introduction to Folklore (BHU) - 3cr.
  OR ANTH2210 - Introduction to Folklore (BHU) - 3cr.
- ENGL5700 - Folk Narrative - 3cr.
  OR HIST5700 - Folk Narrative - 3cr.
  OR ANTH5700 - Folk Narrative - 3cr.

Section 2

Type
Completion Requirement

Survey of Folklore in Culture and Place Courses (3 credits)

Complete at least 1 of the following courses:

- ANTH2720 - Survey of American Folklore - 3cr.
  OR ENGL2720 - Survey of American Folklore - 3cr.
  OR HIST2720 - Survey of American Folklore - 3cr.
- ENGL3700 - Regional Folklore (DHA) - 3cr.
  OR HIST3700 - Regional Folklore (DHA) - 3cr.

Section 3

Type
Completion Requirement

Folk Groups and Folklore Genres (3 credits)

Complete at least 1 of the following courses:

- ENGL3070 - Digital Folklore (DHA) - 3cr.
  OR HIST3070 - Digital Folklore (DHA) - 3cr.
- ENGL3710 - Topics in Folklore (CI) - 3cr.
  OR HIST3710 - Topics in Folklore (CI) - 3cr.
  OR RELS3710 - Topics in Folklore (CI) - 3cr.
  OR ANTH3710 - Topics in Folklore (CI) - 3cr.
- ENGL3720 - Children's Folklore (DHA) - 3cr.
- ENGL4700 - Folk Material Culture (DHA) - 3cr.
  OR HIST4700 - Folk Material Culture (DHA) - 3cr.

Program Learning Outcomes

Program Learning Outcomes

https://www.usu.edu/oda/assessment/

Food Manufacturing - Certificate

Program Overview

College
College of Agriculture & Natural Resources

Department
Nutrition, Dietetics & Food Sciences

Program Level
Undergraduate

About this Degree

Individuals with targeted training in food safety will be in demand in multiple industries to respond to current and emerging food safety challenges. The certificate in Food Manufacturing will provide students with the background needed to appreciate the importance of food safety, and a basis to understand why certain food safety practices must be followed.

Coursework includes an introduction to Food Science and experience with food production (via the Chocolate Science course). Students will also receive training in food safety (Hazard Analysis and Critical Control Points), and will obtain Food Protection Manager Certification through ServSafe as part of the required coursework. Credits from this one-semester certificate can be applied directly towards the requirements for the certificate in Food Processing and/or the BS in Food Science.

Admission Requirements for this Program

To Declare: Email Dawnetta Mahnken (dawnetta.mahnken@usu.edu) with your name and A number

Program Requirements

Total Credits Required In Program Coursework
18

Total Credits Required To Earn This Credential
18

Simple Requisites

Program Requirements

- **GPA:** 2.0 minimum in certificate coursework
- **Minimum Grade:** C- or higher (pass/fail not accepted) to also apply to BS in Food Science
- **Department Website:** https://qanr.usu.edu/ndfs/
- **Advisor:** Dawnetta Mahnken

Section 1

Type
Completion Requirement

Food Core (9 credits)

Complete ALL of the following Courses:

- NDFS1000 - Introduction to Food Science and Technology - 3cr.
- NDFS1010 - Chocolate: Science, History, and Society (BPS) - 3cr.
- NDFS1250 - Sanitation and Safety - 3cr.

Math Core (4 credits)

Complete ALL of the following Courses:

- MATH1050 - College Algebra (QL) - 4cr.

Chemistry Core (5 credits)

Complete ALL of the following Courses:

- CHEM1210 - Principles of Chemistry I - 4cr.
- CHEM1215 - Chemical Principles Laboratory I - 1cr.

Program Learning Outcomes

Program Learning Outcomes

https://qanr.usu.edu/ndfs/assessment

Forestry - MS

Program Overview

College
College of Agriculture & Natural Resources

Department
Wildland Resources

Program Level
Graduate

About this Degree

Students in this program study the science and application of ecological principles in the management of forests. Management aspects include measuring current forests, planning for future forests, and considering fire risks, fuel loads, and the provision of wildlife and recreational services. The program includes coursework on forest ecology, fire ecology, social sciences, policy, soils, and restoration. The program is integrated with other natural resource programs in the college focusing on wildlife, range, and ecology, for a broad interdisciplinary experience.

The MS degree targets students motivated toward a management or administrative career in natural resources with an emphasis in forestry. The Forestry MS degree may be obtained through either a Plan A (research thesis) or Plan B (paper) program. The MS Plan A requires the preparation and defense of a thesis and is best suited for students desiring research experience. The Plan B option requires the preparation and defense of a paper and is most appropriate for forestry professionals who are not pursuing a research career path.

Department Head: Dr. Chris Keyes, chris.keyes@usu.edu
Graduate Program Coordinator: Stacey Brummer, 435-797-2503, stacey.brummer@usu.edu

Admission Requirements for this Program

Prior to applying, the prospective applicants must have a Wildland Resources faculty member agree to serve as their major (supervisory) advisor. It is recommended that interested applicants first contact specific faculty members with whom they are interested in working.

If the faculty member is accepting graduate students and agrees to serve as the major advisor, the applicant may then apply for admission through the School of Graduate Studies website. Applications are reviewed and processed on an ongoing basis.

Please note that funding is not provided by the Wildland Resources Department. Funding may be available through the major advisor, or a third party (such as an employer), or a student may be self-funded.

General Admission Requirements:

- A bachelor's degree from an accredited college
- A 3.0 GPA as calculated by the School of Graduate Studies.
- Completion of the formal application is required. This includes the submission of three letters of recommendation, a statement of purpose, and official transcripts from each college or university previously attended (except USU). The letter of recommendation request forms and statement of purpose prompt are included in the application materials.
- International Students: Please visit the School of Graduate Studies website for requirements.

Program Requirements

Total Credits Required In Program Coursework
30

Total Credits Required To Earn This Credential
30

Simple Requisites

Program Requirements

The Master of Science in Forestry program includes required course work, research, and the defense and submission of an original thesis (Plan A) or paper (Plan B).

The MS **Plan A** option includes a significant research component that leads to the production and defense of a thesis, which is submitted to the School of Graduate Studies for approval and then archived at the library. Students complete a required 6–15 thesis research credits, which support the development of their research and thesis. Thesis chapters frequently form the basis of papers prepared and submitted for publication in peer-reviewed journals by the student. Almost all MS students in the Wildland Resources department pursue a Plan A.

The MS **Plan B** option includes an extensive literature review that forms the basis of a paper. Plan B papers are defended but are not subject to the School of Graduate studies approval before submission to the library. Plan B students are required to complete 2-3 thesis research credits and take more coursework to fulfill the remaining credits.

Regardless of plan type, you will work closely with your major advisor and your supervisory committee to determine the trajectory of your research and the course work that will be most beneficial to you.

Department Requirements:

- **Completion of 30 required credit hours:** Only courses included on a supervisory committee approved Program of Study will count towards an MS degree. Please see specific course requirements under MS Plan A and MS Plan B below.
- **Presentation of Research Proposal**: Students must present a research proposal at the department Graduate Research Symposium.
- **Successful defense:** Students must successfully defend a Plan A research thesis or a Plan B paper.
- **Submission of thesis or paper**: Students must submit a Plan A research thesis or a Plan B paper to the School of Graduate Studies and library for review and approval. All thesis and paper submissions must follow the School of Graduate Studies Publication Guide and departmental requirements.

School of Graduate Studies (SGS) Requirements:

- **Completion of Required Forms:**
  - Supervisory Committee Approval
  - Program of Study
  - Master's Thesis Proposal/Project Approval
  - Appointment for Examination
  - Record of Examination (submitted by department office)
  - Format & Style form
  - Authorship & Copyright form
  - Title Page form
  - Application for Graduation
- **Completion of Required Trainings:** Students must complete all School of Graduate Studies required trainings, including Responsible Conduct of Research training.
- **Degree Verification:** A bachelor's degree from an accredited U.S. college or university or a similarly recognized international university is required for admission to and completion of a graduate program.

- **Minimum GPA Requirement:** Graduate students are required to maintain at least a 3.0 GPA for degree-program courses. Grades of C- or lower will not be accepted for a graduate degree.
- **Course Number Acceptability:** The Program of Study for a master's degree must include at least 18 semester credits at the level of 6000 or above. Credits in the following areas are not acceptable in a degree program: foreign languages (unless included in an approved Program of Study), continuing graduate advisement, individual home study, military science, and courses numbered below 5000.
- **Matriculation Start Semester:** A master's degree must be completed within six years of entering the degree program. Additional time may be requested by the student's committee and submitted to the Vice Provost of Graduate Studies for review.
- **Coursework Validity:** Coursework over eight years old at the time of degree completion may not be used for a graduate degree unless it is revalidated.

Degree Programs

Type
Completion Requirement

MS Plan A (Research Thesis) Course Requirements

Complete ALL of the following Courses:

- WILD6800 - Wildland Resources Departmental Seminar - 1cr.
- WILD6970 - Thesis Research - 1cr.
- 30 required credit hours (minimum) including:
  - 1 credit of WILD6800 WILD SEMINAR
  - 6-15 credits of WILD6970 THESIS RESEARCH
  - Remaining credits fulfilled via: Program of Study approved coursework

MS Plan B (Paper) Course Requirements

Complete ALL of the following Courses:

- WILD6800 - Wildland Resources Departmental Seminar - 1cr.
- WILD6970 - Thesis Research - 1cr.
- 30 required credit hours (minimum) including:
  - 1 credit of WILD6800 WILD SEMINAR
  - 2 but no more than 3 credits of WILD6970 THESIS RESEARCH
  - Remaining credits fulfilled via: Program of Study approved coursework

Program Learning Outcomes

Program Learning Outcomes
http://qcnr.usu.edu/wild/about/assessment/graduate

Forestry - PhD

Program Overview

College
College of Agriculture & Natural Resources

Department
Wildland Resources

Program Level
Graduate

About this Degree
Students in this program study the science and application of ecological principles in the management of forests. Management aspects include measuring current forests, planning for future forests, and considering fire risks, fuel loads, and the provision of wildlife and recreational services. The program includes coursework on forest ecology, fire ecology, social sciences, policy, soils, and restoration. The program is integrated with other natural resource programs in the college focusing on wildlife, range, and ecology, for a broad interdisciplinary experience.

The PhD degree is intended for students seeking a research or academic career in forestry. The Forestry PhD degree may be obtained through either a post-master's or post-baccalaureate program.

Department Head: Dr. Chris Keyes, chris.keyes@usu.edu
Graduate Program Coordinator: Stacey Brummer, 435-797-2503, stacey.brummer@usu.edu

Admission Requirements for this Program
Prior to applying, the prospective applicants must have a Wildland Resources faculty member agree to serve as their major (supervisory) advisor. It is recommended that interested applicants first contact specific faculty members with whom they are interested in working.

If the faculty member is accepting graduate students and agrees to serve as the major advisor, the applicant may then apply for admission through the School of Graduate Studies website. Applications are reviewed and processed on an ongoing basis.

Please note that funding is not provided by the Wildland Resources Department. Funding may be available through the major advisor, or a third party (such as an employer), or a student may be self-funded.

General Admission Requirements:

- A bachelor's degree from an accredited college
- A 3.0 GPA as calculated by the School of Graduate Studies.
- Completion of the formal application is required. This includes the submission of three letters of recommendation, a statement of purpose, and official transcripts from each college or university previously attended (except USU). The letter of recommendation request forms and statement of purpose prompt are included in the application materials.
- International Students: Please visit the School of Graduate Studies website for requirements.

Program Requirements

Total Credits Required In Program Coursework
30-60

Total Credits Required To Earn This Credential
30-60

Simple Requisites

Program Requirements

The Forestry PhD program includes required coursework, research, and the defense and submission of an original dissertation. In addition, you must achieve candidacy by successfully completing a comprehensive exam (comps), which

assesses your ability to conduct independent research, and by submitting your research proposal. The PhD program may be pursued either post-master's or post-baccalaureate. The post-baccalaureate PhD requires additional credit hours, coursework, and increased guidance from your major advisor and committee.

To develop your dissertation research, you will work closely with your major advisor and supervisory committee to generate original ideas, refine research direction, and identify the coursework and professional activities that will be most beneficial to your progress. As you approach candidacy, you should demonstrate a strong command of the literature, creativity in hypothesis development, and proficiency in research design and data analysis.

Department Requirements:

- **Completion of required credit hours:** Students must complete a total 30 credit hours if pursuing a PhD post-master's or 60 credit hours if post-baccalaureate. Only courses included on a supervisory committee approved Program of Study will count towards a PhD degree. Please see specific course requirements under the PhD post master's and PhD post baccalaureate sections below.
- **Presentation of Research**: PhD students are required to present an initial research proposal and then biennial research updates at the department Graduate Research Symposium.
- **Successful defense:** Students must successfully defend a dissertation.
- **Submission of thesis or paper**: Students must submit a dissertation to the School of Graduate Studies and library for review and approval. All dissertation submissions must follow the School of Graduate Studies Publication Guide and departmental requirements.

School of Graduate Studies (SGS) Requirements:

- **Completion of Required Forms:**
    - Supervisory Committee Approval
    - Program of Study
    - Application of Candidacy Doctoral Degree
    - Appointment for Examination
    - Record of Examination (submitted by department office)
    - Format & Style form
    - Authorship & Copyright form
    - Title Page form
    - Application for Graduation
- **Completion of Required Trainings:** Students must complete all School of Graduate Studies required trainings, including Responsible Conduct of Research training.
- **Degree Verification:** A bachelor's degree and master's degree (if applicable) from an accredited U.S. college or university or a similarly recognized international university is required for admission to and completion of a graduate program.
- **Minimum GPA Requirement:** Graduate students are required to maintain at least a 3.0 GPA for degree-program courses. Grades of C- or lower will not be accepted for a graduate degree.
- **Course Number Acceptability:** The Program of Study for a master's degree must include at least 18 semester credits at the level of 6000 or above. Credits in the following areas are not acceptable in a degree program: foreign languages (unless included in an approved Program of Study), continuing graduate advisement, individual home study, military science, and courses numbered below 5000.
- **Matriculation Start Semester:** A PhD degree must be completed within eight years of entering the degree program. Additional time may be requested by the student's committee and submitted to the Vice Provost of Graduate Studies for review.
- **Coursework Validity:** Coursework over eight years old at the time of degree completion may not be used for a graduate degree unless it is revalidated.

Degree Programs

Type
Completion Requirement

PhD (Post-master's) Course Requirements

Complete ALL of the following Courses:

- WILD7800 - Wildland Resources Departmental Seminar - 1cr.
- WILD7970 - Dissertation Research - 1cr.
- 30 required credit hours (minimum) including:
    - 1 credit of WILD7800 WILD SEMINAR
    - 12 credits minimum of WILD7970 DISSERTATION RESEARCH
    - Remaining credits fulfilled via: Program of Study approved coursework

PhD (post-baccalaureate) Course Requirements

Complete ALL of the following Courses:

- WILD7800 - Wildland Resources Departmental Seminar - 1cr.
- WILD7970 - Dissertation Research - 1cr.
- 60 required credit hours (minimum) including:
    - 1 credit of WILD7800 WILD SEMINAR
    - 18 credits minimum of WILD7970 DISSERTATION RESEARCH
    - Remaining credits fulfilled via: Program of Study approved coursework

Program Learning Outcomes

Program Learning Outcomes

https://qcnr.usu.edu/wild/about/assessment/graduate

Food Security Studies - Institutional Certificate of Proficiency

Program Overview

College
College of Agriculture & Natural Resources

Department
Nutrition, Dietetics & Food Sciences

Program Level
Undergraduate

About this Degree

This 12-credit certificate provides students with a broad understanding of the complexity of food insecurity at local, national, and international levels with a focus on programs, policies, and environmental changes that can reduce this significant social issue. This certificate is available to any student.

Program Requirements

Total Credits Required In Program Coursework
12

Total Credits Required To Earn This Credential
12

Simple Requisites

Program Requirements

- **Credits:** 12 total
- **GPA:** 2.5 minimum in certificate coursework
- **Minimum Grade:** C- or higher (pass/fail not accepted)
- **Department Website:** https://qanr.usu.edu/ndfs/
- **Advisor:** Dawnetta Mahnken
- **To Declare:** Email Dawnetta Mahnken (dawnetta.mahnken@usu.edu) with your name and A number.

Food Security Studies Program Requirements

Type
Completion Requirement

Required Courses (12 credits)

Complete ALL of the following Courses:

- ASTE5620 - Food Security and Solutions - 3cr.
- NDFS3110 - Food, Technology, Sustainability and Health (DSC) - 3cr.
- NDFS5210 - Advanced Public Health Nutrition (CI) - 3cr.

Course Options

Complete ANY of the following Courses:

- NDFS3080 - Community Nutrition - 3cr.
  OR NDFS5432 - Community Nutrition - 3cr.

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Undergraduate Academic or Technical Certificates)

Program Learning Outcomes

Program Learning Outcomes

https://qanr.usu.edu/ndfs/assessment

Folklore Studies - MA

Program Overview

College
College of Arts & Sciences

Department
History, Cultures & Ideas

Program Level
Graduate

About this Degree

The word "folklore" names an enormous and deeply significant dimension of culture, including the arts, stories, local knowledges, and everyday practices of a people. Folklore truly is the wisdom of the ages—that is, the aspects of culture that ordinary people find important and useful enough to preserve in their daily lives.

Studying folk culture means examining how traditions are created, shared, and adapted in communities, and how traditions manifest and change in the modern world in local and global contexts. As such, Folklore Studies is rooted in both the past and present and covers a wide range of topics, from older expressions such as quilts, foodways, and fairy tales to more contemporary expressions such as legends, internet memes, conspiracy theories, fake news, and the supernatural. Our faculty teach and publish on a wide range of topics, including fairy tales and legends, digital folklore, landscape, festival, folklore and medicine, and vernacular religious practices.

Students who study folklore gain durable skills in documentary practice, cultural competence, archiving experience, and community-based literacy—preparing them for admission to doctoral programs and also for careers in museums and archives, nonprofit work, education, cultural policy, and community organizing.

This is an in-person, terminal Master's program normally conducted over the course of two years. Options for part-time students are also available. For more information on the program and admission requirements, visit https://www.usu.edu/degrees-majors/folklore-studies_ma_ms.

Admission Requirements for this Program

https://www.usu.edu/degrees-majors/folklore-studies_ma_ms

Program Requirements

Total Credits Required In Program Coursework
30

Total Credits Required To Earn This Credential
30

Simple Requisites

Program Requirements

Program Requirements:

To receive a Master of Arts (MA) degree, students must demonstrate reading competency in a foreign language. Students may demonstrate current competence through any one of three methods:

1. successful completion of two years (four semesters) of foreign language at the undergraduate level (either as an undergraduate or as a graduate student),
2. passing the USU-administered language exam by showing proficiency at least up to a second-semester, second-year level of language classes,
3. or taking a 3000- or 4000-level language course with a grade of C or higher.

Additional Requirements

- A bachelor's degree from an accredited U.S. college or university or a similarly recognized international university is required for admission to and completion of a graduate program.
- Graduate students are required to maintain at least a 3.0 GPA for degree-program courses. Grades of B- or lower will not be accepted for a graduate degree.
- The Program of Study for a master's degree must include at least 15 semester credits at the level of 6000 or above.
- Credits in the following areas are not acceptable in a degree program: foreign languages (unless included in an approved Program of Study), continuing graduate advisement, individual home study, military science, and courses numbered below 5000. Students are not allowed more than 12 credits of coursework at the 5000 level.
- The Folklore Studies MA degree must be completed within six years of entering the degree program. Additional time may be requested by the student's committee and submitted to the Vice Provost of Graduate Studies for review.
- Coursework over eight years old at the time of degree completion may not be used for a graduate degree unless it is revalidated.
- Successful defense and submission of the thesis or dissertation to the library.
- Approval of academic forms required for master's students by the School of Graduate Studies:

o Supervisory Committee Approval Form
o Program of Study
o Responsible Conduct of Research training, a brief online training on ethical conduct in research that the university requires
o Thesis Proposal Defense/Approval
o Appointment for Examination
o Record of Examination
o Successful defense and submission of the thesis to the library.
o Other forms may be required; for details refer to the Graduate Student Handbook.

Requirements for MA degree

Type
Completion Requirement

Foundation Courses: 6 credits (2 courses)

Complete ALL of the following Courses:

- HIST6700 - Introduction to Folklore Studies - 3cr.
- HIST6720 - Oral History and Fieldwork Methods - 3cr.

Folklore Elective Courses (9 credits)

Complete at least 3 of the following courses:

- HIST6710 - Folklore, Landscape, and Place - 3cr.
- HIST6740 - Folk Narrative - 3cr.
- HIST6750 - Advanced Folklore Workshop (the Fife Conference) - 3cr.
- HIST6760 - Folk Art, Traditional Art, and Material Culture - 3cr.
- HIST6770 - Seminar in Folklore and Folklife - 3cr.
- HIST6500 - Archiving Internship - 2cr.

Open Elective Courses: 9-12 credits, depending on thesis option (3-4 courses)

Complete the following:

For electives, students may choose any graduate courses offered within the History or English departments, including folklore classes. Students may also take one elective course from outside the History Department, with approval from the Folklore Program chair and the Director of Graduate Studies.

- Students who decide to complete a Plan B thesis must take 9 credits of open elective courses (3 courses).
- Students who decide to complete a Plan A thesis must take 6 credits of open elective courses (2 courses).

Thesis Credits (3-6 credits, depending on thesis option)

Students must choose to complete either a Plan A or a Plan B thesis. Students who decide to complete a Plan B thesis must register for 3 credits of thesis work. Students who decide to complete a Plan A thesis must register for 6 credits of thesis work.

The Folklore program strongly encourages students to complete a Plan B thesis.

Plan B: For a Plan B thesis, students must write a single research paper that is modeled on a publishable journal article. For the Folklore program, the minimum page requirement for a Plan B thesis is 25 pages, although most tend to be 30-50 pages. The length of a Plan B thesis is determined by the discretion of the thesis committee chair.

Plan A: For a Plan A thesis, students must write an extensive research project that consists of several chapters. For the Folklore program, a Plan A thesis must be a minimum of 50 pages, although most tend to be 50-100 pages. The length of a Plan A thesis is determined by the discretion of the thesis committee chair.

Complete ALL of the following Courses:

- HIST6970 - Thesis Research - 1cr.

NOTE:
Students who wish to complete a Plan A thesis must complete their thesis proposal defense by April 15 during the second semester in the program. Students who do not complete a thesis proposal defense by this date will not be eligible to complete a Plan A thesis and must complete a Plan B thesis.

Additional requirements for MA Degree

Type
Completion Requirement

Requirements

Complete the Following:
To obtain an MA (Master of Arts) degree, students must demonstrate proficiency in one or more foreign languages. Students in Folklore Studies must pass a language requirement in order to receive an MA degree. Without a foreign language, students will receive an MS (Master of Science).

The language requirement for the MA degree may be completed in the following ways:

1. Test: Pass a test of written and oral comprehension in an approved foreign language through the Department of World Languages and Cultures at Utah State University.
2. Coursework: Students may satisfy the requirement through one of the following forms of coursework:

Demonstrate proficiency in one foreign language by successful completion of one course at the 2020 level or higher (or its equivalent)

Demonstrate proficiency in two foreign languages by successful completion of the 1020 course level (or its equivalent) in one language and the 2020-level (or its equivalent) for the other

Complete an upper-division (3000-level or higher or the equivalent) in a foreign language grammar or literature course requiring the 2020 level (or its equivalent) as a prerequisite. Note: Conversation courses do not satisfy this requirement.

Students who have earned a Bachelor of Arts degree or who have passed coursework in a foreign language within the past five years from the date of matriculation into the Folklore Studies program may petition for acceptance of coursework to fulfill the language requirement for the MA degree. Please see the English Department's Director of Graduate Studies for more information.

Program Learning Outcomes

Program Learning Outcomes
https://artsci.usu.edu/history-cultures-ideas/history/assessments

Folklore Studies - MS

Program Overview

College
College of Arts & Sciences

Department
History, Cultures & Ideas

Program Level
Graduate

About this Degree

The Folklore Studies graduate program at Utah State University offers an interdisciplinary master's degree (MA, MS) that allows students to focus on the study of folklore. A bachelor's degree from an accredited U. S. college or university or a similarly recognized international university is required for is admission to and completion of the The word "folklore" names an enormous and deeply significant dimension of culture, including the arts, stories, local knowledges, and everyday practices of a people. Folklore truly is the wisdom of the ages—that is, the aspects of culture that ordinary people find important and useful enough to preserve in their daily lives.

Studying folk culture means examining how traditions are created, shared, and adapted in communities, and how traditions manifest and change in the modern world in local and global contexts. As such, Folklore Studies is rooted in both the past and present and covers a wide range of topics, from older expressions such as quilts, foodways, and fairy tales to more contemporary expressions such as legends, internet memes, conspiracy theories, fake news, and the supernatural. Our faculty teach and publish on a wide range of topics, including fairy tales and legends, digital folklore, landscape, festival, folklore and medicine, and vernacular religious practices.

Students who study folklore gain durable skills in documentary practice, cultural competence, archiving experience, and community-based literacy—preparing them for admission to doctoral programs and also for careers in museums and archives, nonprofit work, education, cultural policy, and community organizing.

This is an in-person, terminal Master's program normally conducted over the course of two years. Options for part-time students are also available. For more information on the program and admission requirements, visit https://www.usu.edu/degrees-majors/folklore-studies_ma_ms.

Admission Requirements for this Program

https://www.usu.edu/degrees-majors/folklore-studies_ma_ms

Program Requirements

Total Credits Required In Program Coursework
30

Total Credits Required To Earn This Credential
30

Simple Requisites

Program Requirements

- A bachelor's degree from an accredited U.S. college or university or a similarly recognized international university is required for admission to and completion of a graduate program.
- Graduate students are required to maintain at least a 3.0 GPA for degree-program courses. Grades of B- or lower will not be accepted for a graduate degree.
- The Program of Study for a master's degree must include at least 18 semester credits at the level of 6000 or above.
- Credits in the following areas are not acceptable in a degree program: foreign languages (unless included in an approved Program of Study), continuing graduate advisement, individual home study, military science, and courses numbered below 5000. Students are not allowed more than 12 credits of coursework at the 5000 level.
- The Folklore Studies MS degree must be completed within six years of entering the degree program. Additional time may be requested by the student's committee and submitted to the Vice Provost of Graduate Studies for review.
- Coursework over eight years old at the time of degree completion may not be used for a graduate degree unless it is revalidated.
- Successful defense and submission of the thesis or dissertation to the library.
- Approval of academic forms required for master's students by the School of Graduate Studies:

o Supervisory Committee Approval Form
o Program of Study
o Responsible Conduct of Research training, a brief online training on ethical conduct in research that the university requires
o Thesis Proposal Defense/Approval
o Appointment for Examination
o Record of Examination
o Successful defense and submission of the thesis to the library.
o Other forms may be required; for details refer to the Graduate Student Handbook.

Requirements for MS Degree

Type
Completion Requirement

Foundation Courses: 6 credits (2 courses)

Complete ALL of the following Courses:

- HIST6700 - Introduction to Folklore Studies - 3cr.
- HIST6720 - Oral History and Fieldwork Methods - 3cr.

Folklore Elective Courses (9 credits)

Complete at least 3 of the following courses:

- HIST6710 - Folklore, Landscape, and Place - 3cr.
- HIST6740 - Folk Narrative - 3cr.
- HIST6750 - Advanced Folklore Workshop (the Fife Conference) - 3cr.
- HIST6760 - Folk Art, Traditional Art, and Material Culture - 3cr.
- HIST6770 - Seminar in Folklore and Folklife - 3cr.
- HIST6500 - Archiving Internship - 2cr.

Open Elective Courses: 9-12 credits, depending on thesis option (3-4 courses)

Complete the following:
For electives, students may choose any graduate courses offered within the History or English departments, including folklore classes. Students may also take one elective course from outside the History Department, with approval from the Folklore Program chair and the Director of Graduate Studies.

- Students who decide to complete a Plan B thesis must take 9 credits of open elective courses (3 courses).
- Students who decide to complete a Plan A thesis must take 6 credits of open elective courses (2 courses).

Thesis Credits (3-6 credits, depending on thesis option)

Students must choose to complete either a Plan A or a Plan B thesis. Students who decide to complete a Plan B thesis must register for 3 credits of thesis work. Students who decide to complete a Plan A thesis must register for 6 credits of thesis work.

The Folklore program *strongly encourages* students to complete a Plan B thesis.

Plan B: For a Plan B thesis, students must write a single research paper that is modeled on a publishable journal article. For the Folklore program, the minimum page requirement for a Plan B thesis is 25 pages, although most tend to be 30-50 pages. The length of a Plan B thesis is determined by the discretion of the thesis committee chair.

Plan A: For a Plan A thesis, students must write an extensive research project that consists of several chapters. For the Folklore program, a Plan A thesis must be a minimum of 50 pages, although most tend to be 50-100 pages. The length of a Plan A thesis is determined by the discretion of the thesis committee chair.

Complete ALL of the following Courses:

- HIST6970 - Thesis Research - 1cr.

NOTE:

Students who wish to complete a Plan A thesis must complete their thesis proposal defense by April 15 during the second semester in the program. Students who do not complete a thesis proposal defense by this date will not be eligible to complete a Plan A thesis and must complete a Plan B thesis.

Program Learning Outcomes

Program Learning Outcomes

https://artsci.usu.edu/history-cultures-ideas/history/assessments

Forensic Testimony - Minor

Program Overview

College
College of Arts & Sciences

Department
School of Social Sciences

Program Level
Undergraduate

About this Degree

The Forensic Testimony Minor is designed for students who wish to work as a forensic analyst within the criminal justice system. Students wanting to pursue such a career will need to obtain a Bachelor's degree in the area in which they wish to specialize—those working in a crime lab will need a degree in chemistry or biology, those working in computer forensics will need a degree in computer science, those working in forensic accounting will need a degree in accounting, those working as a forensic psychologist will need a degree in psychology, and so on. As part of their job, forensic analysts are required to testify in court about the forensic analyses they conduct. This minor is designed to provide students with the skills to do this. Specifically, students will learn about the procedural and evidentiary rules that apply to criminal trials and will have the experience of testifying as a witness in a criminal trial in a mock trial setting. Additionally, students will learn the communication skills necessary to be an effective witness.

Program Requirements

Total Credits Required In Program Coursework
12

Total Credits Required To Earn This Credential
12

Simple Requisites

Program Requirements

Students must have a GPA of 2.0 or higher in Forensic Testimony courses, USU courses and Overall to declare for this Minor. Students must have a GPA of 2.0 or higher in Forensic Testimony courses and an overall and USU GPA of 2.0 or higher to graduate. Forensic Testimony courses over 10 years old do not count toward the major requirement. 50% of classes need to be taken at USU. Classes taken P/F and earning a "P" grade cannot be counted toward the major without special permission. A minimum grade of C- is required for all courses in the Forensic Testimony Minor.

Classes used for the Forensic Testimony Minor cannot be applied to another major or minor. However, classes for the Forensic Testimony minor can overlap with a certificate.

Core Courses

Type
Completion Requirement

Core Courses (6 credits)

Earn a minimum grade of C- in the following:

- CJ4350 - Courtroom Communication (CI) - 3cr.
- CJ2350 - Laws of Evidence - 3cr.
  OR CJ3320 - Criminal Procedure - 3cr.

Elective Courses

Type
Completion Requirement

Elective Courses (6 credits)

A minimum grade of C- is required.

Earn at least 6 credits from the following:

- CJ1330 - Criminal Law - 3cr.
  OR CJ1340 - Criminal Investigations - 3cr.
  OR CJ1350 - Introduction to Forensic Science - 3cr.
  OR CJ2360 - Juvenile Law and Procedures - 3cr.
  OR CJ4310 - Corrections Law & Inmate Rights - 3cr.
- CMST1020 - Public Speaking (BHU) - 3cr.
  OR CMST2270 - Argumentation and Debate - 3cr.
  OR CMST3330 - Intercultural Communication (DSS) - 3cr.
  OR CMST3600 - Communication and Conflict - 3cr.

Program Learning Outcomes

Program Learning Outcomes
https://www.usu.edu/oda/assessment/

Food Production Management - Certificate

Program Overview

College
College of Agriculture & Natural Resources

Department
Technology, Design & Technical Ed

Program Level
Undergraduate

About this Degree
The Food Production Management Certificate is designed to equip students with the essential knowledge and practical skills required for success in the food industry. This interdisciplinary program integrates core concepts from food science, engineering technology, and business management to address critical workforce needs identified by industry partners.

Students enrolled in the certificate program will explore a range of essential topics, including the fundamentals of food processing, sanitation and safety practices, and the principles of operations management. The curriculum also emphasizes quality management systems and the effective management of organizations and people, providing a well-rounded foundation for leadership roles in the food production industry.

This certificate is ideal for students pursuing careers in food manufacturing, safety assurance, production supervision, and related fields. It also serves as a valuable credential for students from other disciplines seeking to broaden their career opportunities in the food sector.

Program Requirements

Total Credits Required In Program Coursework
17

Total Credits Required To Earn This Credential
17

Simple Requisites

Program Requirements

Required Courses

Type
Completion Requirement

Complete all of the following courses:

Complete ALL of the following Courses:
- MGT3700 - Operations Management - 3cr.
- MSLE3110 - Managing Organizations and People (DSS) - 3cr.
- NDFS1250 - Sanitation and Safety - 3cr.
- NDFS2040 - Fundamentals of Food Processing - 3cr.
- TESY4500 - Quality Management Systems - 3cr.

Complete one of the following courses:

Complete at least 1 of the following courses:
- APEC3010 - Agricultural Economics (DSS) - 3cr.
- MSLE3800 - Leadership - 2cr.
- NDFS3110 - Food, Technology, Sustainability and Health (DSC) - 3cr.
- NDFS5020 - Meat Science and Technology - 4cr.
- NDFS5510 - Food Laws and Regulations - 3cr.
- TESY4530 - Principles of Lean Manufacturing - 3cr.
- TESY4540 - Quality Management Systems II - 3cr.

Minimum University Requirements

Minimum University Requirements
Minimum University Requirements (Undergraduate Academic or Technical Certificates)

Program Learning Outcomes

Program Learning Outcomes
https://agnr.usu.edu/tdte/assessment/

Food Processing - Certificate

Program Overview

College
College of Agriculture & Natural Resources

Department
Nutrition, Dietetics & Food Sciences

Program Level
Undergraduate

About this Degree
Individuals with targeted training in food safety will be in demand in multiple industries to respond to current and emerging food safety challenges. The Certificate in Food Processing will provide students with the background needed to appreciate the importance of food safety, and a basis to understand why certain food safety practices must be followed.

Coursework includes an introduction to Food Science, experience with food production (via the Chocolate Science course), food processing technology, and statistics. Students will also receive training in food safety (Hazard Analysis and Critical Control Points), and will obtain Food Protection Manager Certification through ServSafe as part of the required coursework. Credits from this two-semester certificate can be applied directly towards the requirements for the BS in Food Science.

Admission Requirements for this Program
To Declare: Email Dawnetta Mahnken (dawnetta.mahnken@usu.edu) with your name and A number

Program Requirements

Total Credits Required In Program Coursework
33

Total Credits Required To Earn This Credential
33

Simple Requisites

Program Requirements

- **GPA:** 2.0 minimum in certificate coursework
- **Minimum Grade:** C- or higher (pass/fail not accepted) to also apply to BS in Food Science
- **Department Website:** https://qanr.usu.edu/ndfs/
- **Advisor:** Dawnetta Mahnken

Food Processing Course Requirements

Type
Completion Requirement

Food Core (15 credits)

Complete ALL of the following Courses:

- ASTE2900 - Food Matters: Ethics, Economics, and the Environment (BSS) - 3cr.
- NDFS1000 - Introduction to Food Science and Technology - 3cr.
- NDFS1010 - Chocolate: Science, History, and Society (BPS) - 3cr.
- NDFS1250 - Sanitation and Safety - 3cr.
- NDFS2040 - Fundamentals of Food Processing - 3cr.

Math Core (8 credits)

Complete ALL of the following Courses:

- MATH1050 - College Algebra (QL) - 4cr.

- STAT2000 - Statistical Methods (QI) - 4cr.

Chemistry Core (10 credits)

Complete ALL of the following Courses:

- CHEM1210 - Principles of Chemistry I - 4cr.
- CHEM1215 - Chemical Principles Laboratory I - 1cr.
- CHEM1220 - Principles of Chemistry II (BPS) - 4cr.
- CHEM1225 - Chemical Principles Laboratory II - 1cr.

Program Learning Outcomes

Program Learning Outcomes

https://qanr.usu.edu/ndfs/assessment

French - Minor

Program Overview

College
College of Arts & Sciences

Department
World Languages and Cultures

Program Level
Undergraduate

About this Degree

French minors develop durable skills in communication, cultural competence, critical thinking, analysis and more, while expanding their knowledge of the French language and the cultures of the francophone world. Earning a French minor helps graduates showcase their language and communication skills and cultural knowledge to future employers, from global business, to tech, to education, to healthcare, to STEM fields, and beyond. Students with prior language experience may be able to begin or complete the minor sooner through Language Proficiency and Placement Testing in the USU Department of World Languages and Cultures. Bridge program participants may also be able to complete the minor quicker. The French section offers many opportunities for cultural activities, student club activities, scholarships, tutoring, undergraduate research, and study abroad summer in France.

Admission Requirements for this Program

2.0 GPA minimum

Program Requirements

Total Credits Required In Program Coursework
12

Total Credits Required To Earn This Credential
12

Simple Requisites

Program Requirements

- **Total Upper-Division Credits for French Minor:** 12
- **Grade Point Average to Declare French Minor:** 2.0 GPA
- **USU Credit Requirement**: At least half (50 percent) of the credits earned for this degree must be completed in upper-division USU courses having prefixes of FREN or LING. All other credits (including transfer and study abroad credits from other institutions) must be approved by the program's academic advisor in order to be counted toward the minor. Students who have completed Bridge Program Language courses in high school should contact their advisor as these courses may count toward elective credits and credits toward minor requirements; up to 9 credits of Bridge courses may count toward the French minor or French major emphasis at USU.
- **Minimum Grade Requirement:** All courses taken for the French minor or major require a minimum grade of **C-** or better. Courses for the minor *may not* be taken on a pass/fail basis, **except** the Study Abroad course FREN3030 ADV FRENCH EVERYDAY COMM.

Section 1

Type
Completion Requirement

Required Courses (12 credits)

Earn at least 12 credits from the following:

- FREN3030 - Advanced French for Everyday Communication - 3cr.

- FREN3060 - French Intermediate Written Communication (CI) - 3cr.
- FREN3070 - Advanced French Study Abroad I - 4cr.
- FREN3080 - Advanced French Study Abroad II - 4cr.
- FREN3090 - French Intermediate Written Communication (CI) - 3cr. (Inactive)
- FREN3116 - Adventure and Discovery: Journey in the Francophone World - 3cr.
- FREN3117 - Francophone Studies: Past, Present and Future - 3cr.
- FREN3118 - Paris, City of Lights - 3cr.
- FREN3400 - Introduction to Translation - 3cr.
- FREN3500 - French and Francophone Authors (DHA) - 3cr.
- FREN3510 - Business French (CI) - 3cr.
- FREN3550 - French Civilization (DHA) - 3cr.
- FREN3570 - France Today - 3cr.
- FREN3600 - Textual Analysis - 3cr.
- FREN3700 - Francophone Music (CI) - 3cr.
- FREN3820 - Advanced Independent Study: Experiencing Francophone Culture - 2cr.
- FREN3880 - Individual Readings - 1cr.
- FREN3900 - Topics in French and Francophone Studies - 3cr.
- FREN4060 - Advanced French Conversation (CI) - 3cr.
- FREN4090 - Advanced Written Communication (CI) - 3cr.
- FREN4200 - French Linguistics and Phonetics - 3cr.
- FREN4610 - Studies in French Literature and Culture (DHA) - 3cr.
- FREN4620 - Genre Studies in French Literature (DHA) - 3cr.
- FREN4630 - French and Francophone Fairy Tales (DHA) - 3cr.
- FREN4640 - Exploring the French and Francophone Short Story - 3cr.
- FREN4880 - Individual Readings - 1cr.
- FREN4900 - Seminar in French and Francophone Studies - 3cr.
- FREN4920 - French Language Tutoring - 1cr.

NOTE:

FREN3060 FREN INT WRITTEN COMM (CI), FREN3090 INTERM WRITTEN COMM (CI), FREN3500 FRENCH AND FRANCO AUTHOR (DHA), FREN3600 TEXTUAL ANALYSIS, FREN3900 TOPICS IN FRENCH/ FRANCO, FREN4060 ADV FRENCH CONVERSATION (CI), FREN4640 FRANCOPHONE SHORT STORY, FREN4900 SEMINAR: FRENCH/ FRANCO STUDY, FREN4920 FRENCH LANGUAGE TUTORING, are repeatable for credit because content and materials vary.

Section 2

Type
Completion Requirement

Bridge Program

Requirements
Bridge Pathway: Students who participated in a High School French Bridge Program should follow the instructions below for successful completion of the French minor.

- **Credits in Residence:** At least half (50 percent) of the credits earned for this minor must be earned at USU. Bridge courses taken in high school will count toward credits in residence at USU and toward the French minor or French major emphasis.
- **AP Exam:** Bridge and/or (Dual Language Immersion (DLI) students who received a score of 3 or higher on the AP French Exam **may register directly for courses at the 3000-level or 4000-level** without having to take any of the lower-division French courses or another placement test.
- **Bridge Courses:** FREN3116 JOURNEY IN FRANCOPHONE WORLD, FREN3117 FRANCOPHONE STUDIES, and FREN3118 PARIS, CITY OF LIGHTS should be transferred through the Registrar's Office if completed in high school through another university than USU.

If Bridge student successfully completed:

- 1 Bridge course: Take **three** more 3 credit upper-division French electives
- 2 Bridge courses: Take **two** more 3 credit upper-division French electives
- 3 Bridge courses: Take **one** more 3 credit upper-division French elective
- Student should have taken **4 classes (for a total of 12 credits)** of upper-division French coursework to complete the minor, Bridge classes included.

Additional Comments:

Related Programs

- French Teaching Emphasis - Minor (French and STEP)
- French Teaching Emphasis - Minor *without* licensure
- French - BA

Program Learning Outcomes

Program Learning Outcomes
https://chass.usu.edu/languages/assessments

French Teaching Emphasis - Minor

Program Overview

College
College of Arts & Sciences

Department
World Languages and Cultures

Program Level
Undergraduate

Program Requirements

Total Credits Required To Earn This Credential
41

Simple Requisites

Program Requirements

- **Total Credits:** 41 (**12 FREN** credits **+ 29 STEP** credits)
- **Grade Point Average to Declare Minor:** 2.5 Overall GPA
- **Grade Point Average to Graduate with Minor:** 2.5 GPA in minor coursework
- **USU Credit Requirement**: At least half of the credits earned for this degree must be completed in upper-division USU courses having prefixes of FREN or LING. All other credits (including transfer and study abroad credits) must be approved by the program's academic advisor in order to be counted toward the minor.
- **Minimum Grade Requirement:** All courses taken for the minor require a minimum grade of **C** or better. Courses for the minor may *not* be taken on a pass/fail basis.

Note:
The following requirements *only* specify courses offered by the Department of World Languages and Cultures. To be licensed to teach in the Utah public secondary school system, students with a teaching emphasis must also complete additional courses (approximately 29 credits) required by the Secondary Education Program. Courses may be subject to change, and students should contact the Secondary Education Advising Office for a current course list of STEP requirements.

Section 1

Type
Completion Requirement

French and Linguistics Courses (12 credits)

Fulfill ALL of the following requirements:

Required Courses (9 credits)

Complete ALL of the following Courses:

- FREN3090 - French Intermediate Written Communication (CI) - 3cr. (Inactive)
  OR FREN4090 - Advanced Written Communication (CI) - 3cr.
- FREN3550 - French Civilization (DHA) - 3cr.
  OR FREN3570 - France Today - 3cr.
- FREN4200 - French Linguistics and Phonetics - 3cr.
  OR LING4100 - The Study of Language - 3cr.
- SCED3300 - Clinical Experience I - 1cr.

AND

Elective Course (3 credits)

Earn at least 3 credits from the following:

- FREN3070 - Advanced French Study Abroad I - 4cr.
- FREN3080 - Advanced French Study Abroad II - 4cr.
- FREN3116 - Adventure and Discovery: Journey in the Francophone World - 3cr.
- FREN3118 - Paris, City of Lights - 3cr.
- FREN3400 - Introduction to Translation - 3cr.
- FREN3500 - French and Francophone Authors (DHA) - 3cr.
- FREN3510 - Business French (CI) - 3cr.
- FREN3700 - Francophone Music (CI) - 3cr.
- FREN3880 - Individual Readings - 1cr.
- FREN3900 - Topics in French and Francophone Studies - 3cr.
- FREN4610 - Studies in French Literature and Culture (DHA) - 3cr.
- FREN4620 - Genre Studies in French Literature (DHA) - 3cr.
- FREN4630 - French and Francophone Fairy Tales (DHA) - 3cr.
- FREN4640 - Exploring the French and Francophone Short Story - 3cr.
- FREN4880 - Individual Readings - 1cr.
- FREN4900 - Seminar in French and Francophone Studies - 3cr.
- FREN4920 - French Language Tutoring - 1cr.

Additional Comments:
NOTES:

1. Students with experience abroad may be advised to enroll in FREN3090 INTERM WRITTEN COMM (CI) or FREN4090 ADV WRITTEN COMMUNICATION (CI), depending on placement test and/or instructor's determination.
2. FREN4920 FRENCH LANGUAGE TUTORING - French Language Tutoring is repeatable up to 3 credits and requires instructor approval.

Section 2

Type
Completion Requirement

Additional Comments:

French Teaching Emphasis Minor with Secondary School Licensure

- To receive secondary school licensure, students must complete the Secondary Teacher Education Program (STEP). Courses may be subject to change, and students should contact the Secondary Education Advising Office for a current course list of STEP requirements before declaring the minor.
- A minimum grade of C is required in all STEP required courses.
- SCED3300 CLINICAL EXPERIENCE I is required for licensure, and is typically taken in the last semester of minor coursework, but does not count toward required FREN credits.

Section 3

Type
Completion Requirement

Secondary Teacher Education Program (STEP) (29 credits)

Many of the courses below may count for both the French Teaching Minor and STEP requirements.

Please see STEP requirements. and information: https://www.usu.edu/degrees-majors/secondary-teacher-education-program-step_licensure.

Complete ALL of the following Courses:

- ITLS2500 - Technology Enabled Instruction - 3cr.
- SCED3210 - Educational and Multicultural Foundations (DSS/CI) - 3cr.
- SCED3300 - Clinical Experience I - 1cr.
- SPED4000 - Education of Students with Disabilities - 3cr.
- SCED5100 - Motivation and Classroom Management - 3cr.
- SCED5200 - Language, Literacy, and Learning in the Content Areas (CI) - 3cr.
- SCED5210 - Learning Theory, Curriculum, and Assessment - 3cr.
- SCED5630 - Student Teaching in Secondary Schools - 10cr.
- LING5400 - Teaching Modern Languages - 3cr.
- LING5500 - Student Teaching Seminar - 2cr.

NOTES:

1. The Special Methods II course is taught under course number 5400.
2. SCED3300 CLINICAL EXPERIENCE I and LING5400 TEACHING MODERN LANGUAGES must be taken during the same semester if the student is taking LING5400 TEACHING MODERN LANGUAGES. SCED3300 CLINICAL EXPERIENCE I 1 credit is required and should be the last course taken for the minor. These courses are for STEP and a student must be admitted to the STEP program to enroll. These courses should be taken the fall semester before student teaching if possible. SCED3300 CLINICAL EXPERIENCE I is also listed in required courses above so that students seeking the French Teaching Emphasis Minor understand the complete list of minor requirements. See non-licensure information below.

Section 4

Type
Completion Requirement

French Minor

Teaching Emphasis without Secondary School Licensure (Minor 19 credits)
It is possible to have a teaching emphasis within a major or minor in French *without* receiving secondary school teaching licensure. However, unless the student *is also* an elementary education major, the student would not be authorized to teach in Utah public schools (nor at some private schools).

To complete a French Minor—Teaching Emphasis *without* Secondary School Licensure, students must fulfill all of the requirements listed under Section I above, except for SCED3300 CLINICAL EXPERIENCE I which is *not* required if completing minor *without* Secondary School Licensure).

Licensure

Licensure Notification
This program typically leads to licensure and was designed to meet licensing qualifications in the state of Utah. If students wish to work in another state within the United States, they should review the qualifications for that state and the Education Licensure Compliance Table provided by School of Teacher Education and Leadership.

For more information, please contact the School of Teacher Education and Leadership at https://cehs.usu.edu/teal/

Additional Comments:

Related Programs

- French - Minor
- French - BA
- French (French and STEP)
- French without Licensure

Program Learning Outcomes

Program Learning Outcomes
https://chass.usu.edu/languages/assessments

Fisheries Biology - MS

Program Overview

College
College of Agriculture & Natural Resources

Department
Watershed Sciences

Program Level
Graduate

About this Degree

Program Contacts

Department Head: Christopher Keyes, 435-797-2254, chris.keyes@usu.edu
Graduate Program Coordinator: Stacey Brummer, 435-797-2503, stacey.brummer@usu.edu

Program Description

Students in the fisheries biology program study river, lake, and wetland ecosystems. The program highlights the ecology of freshwater systems, management of important fisheries, restoration of stream, riparian, and wetland areas, and the monitoring and protection of plant and animal populations in lakes and rivers.

Each student has an individualized plan of study created for them by their graduate committee, and students are able to take courses in other departments on campus, such as biology and civil and environmental engineering. This allows students to gain a broad education in areas related to fish populations and aquatic ecosystems.

Specializations are available in Conservation Biology and Fisheries Management as part of this degree. For additional degree information, see the program page or the Department of Wildland Resources website.

Admission Requirements for this Program

Applying for graduate study in Watershed Sciences is a two-step process. We admit applicants to begin graduate study during Fall, Spring, and Summer Semesters. Applications should be submitted by the following deadlines.

- Summer: March 15
- Fall: June 15
- Spring: October 15

Preference is given to applicants who apply before January 10. Fellowships for non-University funds, such as Quinney Fellowships, have different deadlines. Please see individual applications for deadlines.

1. Gain a faculty sponsor and funding

- Contact a faculty member you would like to work with directly. Students cannot be admitted to the program without first having a faculty sponsor and funding provided by their sponsor or an outside agency. In your email please explain why you are interested in working with your prospective mentor and discuss your qualifications for graduate study, including any undergraduate research. Be sure to also include your GPA. (Please note that the requirement to take the GRE has been removed.) To choose a prospective mentor, consult the list of faculty who have current active graduate programs.

2. Apply through the School of Graduate Studies

- Once you have secured a faculty sponsor and funding, you will be invited to officially apply through the School of Graduate Studies, send official transcripts, and pay the application fee.

Admission Requirements:

- GPA of 3.2 or higher
- Sponsorship by a faculty member (gaining a sponsorship usually requires correspondence directly with the faculty)
- A formal application
- A detailed statement outlining your objectives in graduate education, your future goals, and your specific area of research interest.

Program Requirements

Total Credits Required In Program Coursework
30

Total Credits Required To Earn This Credential
30

Simple Requisites

Program Requirements

Master's Plan A or Master's Plan B routes

Master's plan A degrees require a thesis and 6-15 thesis credits.

- Your plan A thesis should contribute to your field by presenting your original research or a new perspective of existing knowledge. You'll choose the problem or subject to focus on with your major professor by the end of your second semester of graduate study. You should perform thesis research during the semester(s) you are registered for thesis credit and when faculty support is available. Theses must follow USU publication formatting standards.

Master's plan B degrees require a final paper/project and 2-3 thesis credits.

- The plan B paper is usually a literature review based on inquiry, systematic research and analytic critique of your findings. Your conclusions should enhance knowledge in your discipline. Although perhaps less intensive or original than a master's thesis, a plan B paper must follow the standard USU thesis/dissertation format and reflect equivalent scholarship standards. You will defend your plan B paper, but it will not be reviewed by your assistant dean or signed by the Vice Provost for graduate studies. Like a thesis, your plan B paper will be submitted to the Merrill-Cazier Library for internal publication.

Department Requirements

- Completion of required trainings, including Responsible Conduct of Research training
- Present at the department Graduate Research Symposium
- Thesis/paper/project defense
- Submission of thesis/paper to the School of Graduate Studies and library for review and approval

School of Graduate Studies (SGS) Requirements

Completion of SGS-specific Forms:

- Supervisory Committee Approval
- Program of Study
- Master's Thesis Proposal/Project Approval
- Appointment for Examination
- Record of Examination
- Format & Style Form
- Authorship & Copyright Form
- Title Page Form
- Application for Graduation

Degree Verification: A bachelor's degree from an accredited U.S. college or university or a similarly recognized international university is required for admission to and completion of a graduate program. An official transcript must be sent directly to the School of Graduate Studies.

Overall Graduate GPA (≥ 3.0) and No Grades of C- or Lower: Graduate students must maintain at least a 3.0 GPA for degree-program courses. Grades of C- or lower cannot be applied toward a graduate degree.

Course Number Acceptability: A master's Program of Study may include no more than 12 semester credits of coursework below 6000-level. The following types of credits are not acceptable toward the degree: foreign language courses (unless included in an approved Program of Study), continuing graduate advisement, individual home study, military science, and any courses numbered below 5000.

Matriculation Start Semester: Master's degrees must be completed within six years of entering the program. Additional time may be requested by the advisor and submitted to the Vice Provost of Graduate Studies.

Coursework Validity: Coursework older than eight years at the time of degree completion may not be used unless it is formally revalidated.

Master's Plan A - 30 required credit hours (minimum), including:

Type
Completion Requirement

1 credit of WATS 6260 - Graduate Induction Course

Complete ALL of the following Courses:

- WATS6260 - Watershed Sciences Graduate Student Induction Course - 1cr.

6-15 credits of WATS 6970 - Thesis Research

Earn at least 6 credits from the following:

- WATS6970 - Thesis Research - 1cr.

Remaining Credits

Remaining credits to reach 30 credit hours (minimum)
Fulfilled via:

- Graduate level course work (6000 and above)
- No more than 12 credits of 5000-5990 level courses

Master's Plan B - 30 required credit hours (minimum), including:

Type
Completion Requirement

1 credit of WATS 6260 - Graduate Induction Course

Complete ALL of the following Courses:

- WATS6260 - Watershed Sciences Graduate Student Induction Course - 1cr.

2-3 credits of WATS 6970 - Thesis Research

Earn at least 2 credits from the following:

- WATS6970 - Thesis Research - 1cr.

Remaining Credits

Remaining credits to reach 30 credit hours (minimum)
Fulfilled via:

- Graduate level course work (6000 and above)
- No more than 12 credits of 5000-5990 level courses

Program Learning Outcomes

Program Learning Outcomes

https://qcnr.usu.edu/wats/assessment/graduate

Forensic Specialist and Crime Scene Investigation - Certificate

Program Overview

College
College of Arts & Sciences

Department
School of Social Sciences

Program Level
Undergraduate

About this Degree

The Forensic Investigations and Crime Scene Investigations Certificate will be housed and administered by USU's Sociology department in the College of Humanities and Social Sciences. The curriculum will include currently offered undergraduate courses. While only three courses are required for certificate completion, students will be welcome and invited to take additional courses of electives.

Admission Requirements for this Program

Certificate completion will require three courses totaling 9 credit hours.

Program Requirements

Total Credits Required In Program Coursework
9

Total Credits Required To Earn This Credential
9

Simple Requisites

Program Requirements

Forensic Specialist and Crime Scene Investigation - Certificate

Type
Completion Requirement

Required Course (3 credits)

Complete ALL of the following Courses:

- CJ1350 - Introduction to Forensic Science - 3cr.

Required Course (6 credits)

Complete at least 2 of the following courses:

- CJ4350 - Courtroom Communication (CI) - 3cr.
- CJ1340 - Criminal Investigations - 3cr.
- CJ1355 - Crime Scene Processing - 3cr.

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Undergraduate Academic or Technical Certificates)

Program Learning Outcomes

Program Learning Outcomes

Objectives

1- Students will learn the procedures and techniques involved in criminal investigations, including interrogation, evidence collection and preservation, crime scene procedures, and laboratory analysis, while preparing cases for prosecution.

2- Students will develop skills in oral advocacy and testimony presentation, while learning how disputes are resolved outside of trial and the role of communication in the criminal justice process.

3- Students will gain foundational knowledge in criminal investigations, including legal, scientific, and administrative aspects, while learning to overcome obstacles, and acquire skills in crime scene technician duties, evidence handling, report writing, and laboratory methods.

Freshwater and Marine Ecology - BS

Program Overview

College
College of Agriculture & Natural Resources

Department
Watershed Sciences

Program Level
Undergraduate

About this Degree

The Freshwater and Marine Ecology (FAME) Bachelor of Science major at Utah State University integrates freshwater and marine ecology to prepare students for careers that focus on the structure, function, and conservation of aquatic environments—from headwater streams to open oceans.

At the heart of the FAME program is a deep exploration of how aquatic ecosystems work, how they respond to natural and human-driven changes, and how they support biodiversity and societal wellbeing. In this major, students explore the biological, chemical, and physical processes that sustain life in water, and they gain hands-on skills in ecology, restoration, conservation, and environmental data analysis.

- For more information about Freshwater and Marine Ecology, see the website.
- Admitted and current students must meet with an academic advisor for semester by semester planning.
- Log on to Degree Works to check student-specific program progress.
- The highest math requirement for this degree is STAT3000 STATISTICS FOR SCIENTISTS (QI).

Admission Requirements for this Program

- New freshmen: Admitted to USU in Good Standing
- Transfer students from other institutions or other programs at USU: 2.5 GPA

Program Requirements

Total Credits Required In Program Coursework
99-100

Total Credits Required To Earn This Credential
120

Simple Requisites

Program Requirements

All courses required for this major must be taken on an A-B-C-D-F basis. A grade of C- or better is required for all WATS and GEOG courses used to meet requirements for the Fisheries and Aquatic Sciences major. The grade point average for all courses taught by the College of Natural Resources must be 2.5 or higher.

Freshwater and Marine Ecology - BS

Type
Completion Requirement

Scientific Foundation (31-32 credits)

Complete ALL of the following Courses:

- BIOL1610 - Biology I - 3cr.
- BIOL1615 - Biology I Laboratory - 1cr.
- BIOL1620 - Biology II (BLS) - 3cr.
- BIOL1625 - Biology II Laboratory - 1cr.
- CHEM1210 - Principles of Chemistry I - 4cr.
- CHEM1215 - Chemical Principles Laboratory I - 1cr.
- CHEM1220 - Principles of Chemistry II (BPS) - 4cr.
- CHEM1225 - Chemical Principles Laboratory II - 1cr.
- MATH1050 - College Algebra (QL) - 4cr.
- MATH1100 - Calculus Techniques (QL) - 3cr.
  OR MATH1210 - Calculus I (QL) - 4cr.
  OR MATH1170 - Modeling Change: Calculus in Life and Society - 4cr.
- STAT3000 - Statistics for Scientists (QI) - 3cr.
- WATS2220 - General Ecology - 3cr.
  OR BIOL2220 - General Ecology - 3cr.

Departmental Core (17 credits)

Complete ALL of the following Courses:

- WATS2000 - Natural Resource Professional Orientation - 1cr.
  OR ENVS2000 - Natural Resource Professional Orientation - 1cr.
  OR WILD2000 - Natural Resource Professional Orientation - 1cr.
- ENVS4000 - Human Dimensions of Natural Resource Management (DSS) - 3cr.
  OR WATS3500 - Water and Power - 3cr.
- GEOG2800 - Introduction to Geographic Information Sciences - 4cr.
  OR WATS2800 - Introduction to Geographic Information Sciences - 4cr.
  OR WILD2800 - Introduction to Geographic Information Sciences - 4cr.
- WATS3100 - Fish Ecology, Conservation, and Management (CI/DSC) - 3cr.
- WATS3700 - Fundamentals of Watershed Science (CI) - 3cr.
- WATS5500 - Limnology: Ecology of Inland Waters - 3cr.

Freshwater and Marine Ecology Courses (34 credits)

Complete ALL of the following Courses:

- WATS3000 - Oceanography (DSC) - 3cr.
  OR GEO3300 - Geology of the World's Oceans (DSC) - 3cr.
- GEOG5500 - Advanced Geographic Information Sciences (GIS) - 3cr.
- PHYS2110 - General Physics—Life Sciences I - 4cr.
- WATS2500 - Introduction to Marine Biology (BLS) - 3cr.
- WATS3110 - Fish Ecology, Conservation, and Management Lab - 1cr.
- WATS4510 - Aquatic Ecology Methods - 2cr.
  OR WATS3450 - Introduction to Coral Reefs-Field Course (DSC) - 3cr.
  OR WATS3200 - Marine Ecology: Expedition Sea of Cortez (DSC) - 3cr.
- WATS4050 - Marine Global Change: Impacts and Conservation Strategies - 3cr.
- WATS5200 - Fish Habitats - 2cr.
- WATS5305 - Ecology and Restoration of Plants - 3cr.
- WATS5540 - Ichthyology - 4cr.
- WATS5550 - Freshwater Invertebrates - 3cr.
- WILD3810 - Wildlife Population Ecology - 3cr.

Directed Electives (17 credits)

Students must choose a minimum of 17 elective credits to complete the Freshwater and Marine Ecology degree requirements. The majority of these elective credits must come from courses directly related to the degree program. All elective courses must be approved by the student's faculty advisor before enrollment. The following is a list of recommended courses that could be used to satisfy this requirement.

Earn at least 17 credits from the following:

- APEC3012 - Introduction to Natural Resource Economics (DSS) - 3cr.
- BIOL3020 - Evolutionary Biology - 3cr.
- BIOL3050 - Organismal Biology with Physiology - 3cr.
- BIOL3055 - Organismal Biology with Physiology Laboratory (CI) - 2cr.
- BIOL3060 - Principles of Genetics (QI) - 3cr.
- BIOL3065 - Genetics Laboratory (CI) - 2cr.
- BIOL3070 - Computational Approaches to Biology - 3cr.
- BIOL3085 - Ecology Laboratory (CI) - 2cr.
- BIOL3150 - Quantitative Modeling of Life - 3cr.
- BIOL3300 - General Microbiology - 3cr.
- BIOL4060 - Exploring Animal Behavior - 3cr.
- BIOL4270 - Theoretical Ecology - 3cr.
- BIOL4420 - Plant Systematics and Diversity - 3cr.
- BIOL4540 - Invertebrate Zoology - 3cr.
- BIOL5010 - Biogeography - 3cr.
- BIOL5390 - Genes and Behavior (CI) - 3cr.
- BIOL5560 - Ornithology - 3cr.
- BIOL5570 - Herpetology - 3cr.
- BIOL5580 - Mammalogy - 3cr.
- BIOL5600 - Comparative Animal Physiology - 3cr.
- BIOL5650 - Comparative Anatomy of the Vertebrates - 4cr.
- ENGL3640 - Nature Writing (DHA) - 3cr.
- ENVS3010 - Natural Resource and Environmental Policy - 3cr.
- ENVS3600 - Living with Wildlife (DSC) - 3cr.
- ENVS4020 - Foundations of Environmental Thought (DHA/CI) - 3cr.
- ENVS5100 - Introduction to Modeling Human-Environment Systems - 3cr.
- ENVS5350 - Ecological Economics - 3cr.
- ENVS5750 - Global Change Ecology - 3cr.
- GEOG3200 - Principles of Remote Sensing - 3cr.
- GEO3550 - Sedimentation and Stratigraphy - 4cr.
- GEO3600 - Geomorphology - 4cr.
- GEOG3700 - Python Programming for GIS - 3cr.
- GEOG3800 - Geospatial Data Visualization - 3cr.
- GEOG4910 - Geographic Information Science Portfolio - 1cr.
- GEOG5300 - Geospatial Analysis with R - 3cr.
- GEOG5805 - Introduction to Geospatial Artificial Intelligence: The Remote Sensing and GeoAI Frontier - 3cr.
- NR4251 - Natural Resources and Environmental Internships Preparation - 1cr.
- NR4252 - Natural Resources and Environmental Internship Achievements - 1cr.
- PHIL3530 - Environmental Ethics (DHA) - 3cr.
- PSC4810 - Climate and Climate Change (DSC)(QI) - 3cr.
- WATS2050 - Data Management for Natural Resources – Cleaning and Shaping Data - 1cr.
- WATS2060 - Data Management for Natural Resources – Data Display and Analysis - 1cr.
- WATS3200 - Marine Ecology: Expedition Sea of Cortez (DSC) - 3cr.
- WILD3300 - Wildlife Behavior - 3cr.
- WATS3450 - Introduction to Coral Reefs-Field Course (DSC) - 3cr.
- WATS4100 - Climate Adaptation Intern Program - 3cr.
- WATS4250 - Advanced Internship/Co-op - 1cr.
- WATS4950 - Special Topics - 1cr.
- WATS4990 - Senior Thesis - 2cr.
- WATS5055 - American Academy of Underwater Sciences Scientific Diver Certification Course - 2cr.
- WATS5110 - Environmental Biogeochemistry - 3cr.
- WATS5150 - Fluvial Geomorphology - 3cr.
- WATS5210 - The Secret Life of Elements on Earth - 2cr.
- WATS5490 - Small Watershed Hydrology (QI) - 4cr.
- WATS5530 - Water Quality and Pollution - 3cr.
- WATS5360 - Wetland Ecology and Management - 3cr.
- WILD3300 - Wildlife Behavior - 3cr.
- WILD4100 - Scientific Communication for Natural Resource Professionals (CI) - 3cr.
- WATS5500 - Limnology: Ecology of Inland Waters - 3cr.
- WILD4600 - Conservation Biology - 3cr.
- WILD5750 - Applied Remote Sensing - 3cr.

Open Electives

Complete the following as needed:
Total elective credit is determined by General Education courses taken, degree type selected, additional credits earned, and any additional math or other prerequisite courses needed. Please consult your Academic Advisor for details.

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Bachelor's Degree)

Suggested Degree Maps

Degree Map Name
Suggested Degree Map - Freshwater and Marine Ecology - BS
Total Degree Map Credits
120
Degree Map Effective Catalog Year
2027 -

Degree Map Narrative

- Following is a sample four-year plan. Please note that student-specific plans may differ.
- Meet with an academic advisor to create a specific plan that best fits your academic needs.
- The student is ultimately responsible for knowing and completing all degree requirements.
- Make sure you meet the registration requirements for each class by clicking the course link and checking any prerequisites or corequisites.
- Consultation with an advisor may result in an altered plan customized for an individual student.
- Check your Degree Works for requirements and completion.

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	15	0

Requirement Select
- BIOL1610 - Biology I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- BIOL1615 - Biology I Laboratory

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- MATH1050 - College Algebra (QL)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- WATS2000 - Natural Resource Professional Orientation

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- Communications Literacy (CL1) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Breadth Creative Arts (BCA) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	15	0

Requirement Select
- BIOL1620 - Biology II (BLS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- BIOL1625 - Biology II Laboratory

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- CHEM1210 - Principles of Chemistry I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- CHEM1220 - Principles of Chemistry II (BPS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- CHEM1215 - Chemical Principles Laboratory I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- CHEM1225 - Chemical Principles Laboratory II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- MATH1100 - Calculus Techniques (QL)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- STAT3000 - Statistics for Scientists (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- WATS2500 - Introduction to Marine Biology (BLS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- WATS2800 - Introduction to Geographic Information Sciences

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	15	0

Requirement Select
- Communications Literacy (CL2) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	16	0

Requirement Select
- WATS3700 - Fundamentals of Watershed Science (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- WATS2220 - General Ecology

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- ENVS4000 - Human Dimensions of Natural Resource Management (DSS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- PHYS2110 - General Physics—Life Sciences I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- Elective (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Fall	16	0

Requirement Select
- WATS5540 - Ichthyology

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- WATS5500 - Limnology: Ecology of Inland Waters

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Elective (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Breadth Humanities (BHU) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- GEOG5500 - Advanced Geographic Information Sciences (GIS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Spring	16	0

Requirement Select
- WATS3000 - Oceanography (DSC)
  OR
- GEO3300 - Geology of the World's Oceans (DSC)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- WILD3810 - Wildlife Population Ecology

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- WATS3100 - Fish Ecology, Conservation, and Management (CI/DSC)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- WATS3110 - Fish Ecology, Conservation, and Management Lab

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- Elective (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Fall	15	0

Requirement Select
- WATS4510 - Aquatic Ecology Methods

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select
- WATS5305 - Ecology and Restoration of Plants

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- WATS5200 - Fish Habitats

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select
- Breadth Social Sciences (BSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Depth Humanities and Creative Arts (DHA) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective (2 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Spring	12	0

Requirement Select
- WATS5550 - Freshwater Invertebrates

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- WATS4050 - Marine Global Change: Impacts and Conservation Strategies

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Elective (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Breadth American Institutions (BAI) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Program Learning Outcomes

Program Learning Outcomes

https://www.usu.edu/oda/assessment/

Global Agriculture, Leadership and Education - Institutional Certificate of Proficiency

Program Overview

College	Department	Program Level
College of Agriculture & Natural Resources	Applied Sciences, Technology and Education	Undergraduate

About this Degree

Join the Global Agriculture, Leadership, and Education Institutional Certificate of Proficiency program and unleash your potential to create a lasting difference in the world. Our unique curriculum blends agriculture, leadership principles, and education strategies, providing you with the tools to drive positive change on a global scale. The GALE ICP enriches your academic journey and strengthens your resume. Gain invaluable knowledge and hands-on experience in global food and agriculture science, setting yourself apart as a leader in your field.

Advisor: Caisa Shoop
Applied Sciences, Technology & Education (ASTE)
Caisa.shoop@usu.edu

Program Requirements

Total Credits Required In Program Coursework	Total Credits Required To Earn This Credential
11	11

Simple Requisites

Program Requirements

Section 1

Type
Completion Requirement

Agriculture

Choose one of the following:

Complete at least 1 of the following courses:

- ASTE2900 - Food Matters: Ethics, Economics, and the Environment (BSS) - 3cr.
- ASTE5600 - Biosecurity I - 3cr.
- ASTE5610 - Biosecurity II - 3cr.
- ASTE5620 - Food Security and Solutions - 3cr.
- ENVS5600 - Natural Resource Interpretation - 3cr.
- NDFS1240 - Food Literacy - 3cr.
- NDFS3070 - Science of Food Preparation - 4cr.
- NDFS3110 - Food, Technology, Sustainability and Health (DSC) - 3cr.
- PSC4280 - Field and Food Cropping Systems - 3cr.
- PSC4810 - Climate and Climate Change (DSC)(QI) - 3cr.

Leadership

Choose one of the following:

Complete at least 1 of the following courses:

- ASTE2100 - Personal and Team Leadership - 3cr.
- ASTE5220 - Volunteer Programs and Partnerships - 3cr.
- FCSE2510 - Orientation to Family and Consumer Sciences Education - 3cr.
- FCSE3080 - Fashion Studies and Society (DHA) - 3cr.

Education

Choose one of the following:

Complete at least 1 of the following courses:

- ASTE3240 - Teaching in Laboratory Settings (CI) - 3cr.
- ASTE3625 - Youth Development Education - 2cr.
- ASTE4150 - Methods of Teaching Agriculture (CI) - 3cr.
- ASTE4155 - Nonformal Teaching Methods - 3cr.
- ASTE4215 - Community Programming and Evaluation - 3cr.
- BSED3150 - Methods for Business Education - 3cr.
- BSED4150 - Methods of Business, Finance, and Marketing Education - 3cr.
- FCSE3400 - FCSE Methods I - 3cr.
- FCSE4400 - FCSE Methods II - 3cr.
- TEE3200 - Methods of Teaching Engineering and Technology Education I - 3cr.
- TEE4400 - Methods of Teaching Engineering and Technology Education II - 3cr.
- ADVS3150 - Principles of Equine-Assisted Services - 3cr.
- ADVS2800 - Riding Fundamentals for Instructors - 3cr.
- ADVS3400 - Equine Specialist in Equine-Assisted Interventions - 3cr.
- ENVS4700 - Communicating Sustainability (CI) - 3cr.
- WATS4000 - Natural Resources Teaching Experiences - 1cr.

Experiential Education

Choose 3-5 credits from the following:

Earn at least 3 credits from the following:

- ASTE2450 - Domestic Study Experience - 1cr.
- ASTE3900 - Special Problems in Agricultural Systems Technology and Education - 1cr.
- ASTE5450 - Study Abroad Experience - 1cr.
- ASTE5635 - Career and Technical Education Study Abroad Student Teaching - 3cr.
- APEC4250 - Applied Economics Internship - 1cr.
- WATS4250 - Advanced Internship/Co-op - 1cr.

Program Learning Outcomes

Program Learning Outcomes

https://qanr.usu.edu/aste/assessment/

General Education - Certificate

Program Overview

College
University

Department
General University

Program Level
Undergraduate

About this Degree

The General Education Certificate is awarded to students who have completed the general education requirements at Utah State University. Once awarded, it will appear on your transcript and is considered part of your permanent record.

Program Requirements

Total Credits Required In Program Coursework
27

Total Credits Required To Earn This Credential
27

Simple Requisites

Program Requirements

The total number of credits required to complete the certificate is 27.

In order to qualify for the certificate, students must:

1. Complete all General Education Requirements;
2. Complete at least seven (7) of the general education credits from Utah State University; and
3. Earn a minimum GPA of 2.0 in coursework taken to fulfill certificate requirements.

Passing grades are accepted.

Optional Methods for Completing GE Requirements

Students may also complete general education requirements through a combination of Concurrent Enrollment (CE) courses in high school, Advanced Placement (AP) courses in high school, or by taking a series of tests under the College Level Examination Program (CLEP).

Transfer of General Education Course Credits

Students transferring to USU from another institution are required to forward an official transcript for each college or university attended. Credits earned in general education from a campus in the Utah System of Higher Education (USHE) are transferable to USU. Credits earned at a community college or at a university outside of the state of Utah will be evaluated before acceptance for transfer to USU by the Registrar's Office.

General Education - Certificate

Type
Completion Requirement

General Education Requirements

Complete ALL of the following Course Sets:

- Communications Literacy (CL1) Course
- Communications Literacy (CL2) Course
- Quantitative Literacy (QL) Course

Breadth Requirements (18-20 credits)

Earn at least 18 credits from the following:

- Breadth American Institutions (BAI) Course
- Breadth Creative Arts (BCA) Course
- Breadth Humanities (BHU) Course

- Breadth Life Sciences (BLS) Course
- Breadth Physical Sciences (BPS) Course
- Breadth Social Sciences (BSS) Course

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Undergraduate Academic or Technical Certificates)

Program Learning Outcomes

Program Learning Outcomes

https://www.usu.edu/oda/assessment/

Geography - Geographic Information Science Emphasis - BS

Program Overview

College
College of Agriculture & Natural Resources

Department
Environment & Society

Program Level
Undergraduate

About this Degree

Geography is the study of space, place, and the relationships between people and our environment. With a Geography major, students learn essential skills to solve pressing problems at the local, national, and global scale. Geography is an interdisciplinary degree that includes coursework in the physical and social sciences, combined with technical expertise in the field of geographic information science.

Geographic Information Science Emphasis: This emphasis allows students to gain a solid foundation in geographic information systems and science (GIS). It provides professional preparation for careers in GIS.

- Admitted and current students must meet with an academic advisor for help with semester-by-semester planning, connections to co-curricular experiences, understanding of USU policies, and accessing USU resources. Students can log on to Degree Works to check student-specific progress.
- Students can also have an emphasis in Human-Environment Geography.
- The highest Math Requirement for this degree is STAT1040 INTRO TO STATISTICS (QL) or STAT1045 INTRO STAT WITH ALGEBRA (QL).

Admission Requirements for this Program

- New freshmen: Admitted to USU in Good Standing
- Transfer students from other institutions or other programs at USU: 2.5 GPA

Program Requirements

Total Credits Required In Program Coursework
63-66

Total Credits Required To Earn This Credential
120

Simple Requisites

Program Requirements

All courses required for the major must be taken on an A-B-C-D-F grade basis. A grade of C- or better and a grade point average of 2.5 or higher is required for all ENVS, GEOG, WATS, or WILD courses used to meet requirements for a major in Geography.

Course Requirements

Type
Completion Requirement

Geography Core (33-35 credits)

Complete ALL of the following Courses:

- ENVS2000 - Natural Resource Professional Orientation - 1cr.
  OR WATS2000 - Natural Resource Professional Orientation - 1cr.
  OR WILD2000 - Natural Resource Professional Orientation - 1cr.

- GEOG1000 - Physical Geography (BPS) - 3cr.
- GEOG1005 - Physical Geography Lab - 1cr.
- GEOG1300 - World Geography: Human and Environmental Dynamics (BSS) - 3cr.
- GEOG2800 - Introduction to Geographic Information Sciences - 4cr.
  OR WILD2800 - Introduction to Geographic Information Sciences - 4cr.
- ENVS3500 - Environmental Data Science (QI) - 3cr.
- GEOG3100 - Human-Environment Geography (CI) - 3cr.
- GEOG3800 - Geospatial Data Visualization - 3cr.
- GEOG4210 - Geography of Utah - 3cr.
- PSC4810 - Climate and Climate Change (DSC)(QI) - 3cr.
- STAT1040 - Introduction to Statistics (QL) - 3cr.
  OR STAT1045 - Introduction to Statistics with Elements with Algebra (QL) - 5cr.
  OR STAT1080 - Foundations of Data Science (QL) - 3cr.
- BIOL2220 - General Ecology - 3cr.
  OR WATS2220 - General Ecology - 3cr.
  OR WILD2200 - Ecology of Our Changing World (BLS) - 3cr.

Geographic Information Science Emphasis Core (13 credits)

Complete ALL of the following Courses:

- GEOG3200 - Principles of Remote Sensing - 3cr.
  OR WILD5750 - Applied Remote Sensing - 3cr.
- GEOG3700 - Python Programming for GIS - 3cr.
- GEOG4910 - Geographic Information Science Portfolio - 1cr.
- GEOG5300 - Geospatial Analysis with R - 3cr.
- GEOG5500 - Advanced Geographic Information Sciences (GIS) - 3cr.

Degree Electives (17-18 credits)

Complete 17-18 credits chosen from the following list. Other courses not listed here may also be approved upon review.

Earn at least 17 credits from the following:

- APEC3012 - Introduction to Natural Resource Economics (DSS) - 3cr.
- AV3510 - UAS Fixed Wing Design and Construction - 3cr.
- AV3520 - UAS Guidance and Control - 3cr.
- CMST4260 - Environmental Communication - 3cr.
- DATA3330 - Database Management - 3cr. (Inactive)
- ENVS2340 - Environment, Natural Resources, and Society (BSS) - 3cr.
- ENVS3010 - Natural Resource and Environmental Policy - 3cr.
- ENVS3300 - Fundamentals of Natural Resource Recreation Management - 3cr.
- ENVS3320 - Archaeology of Climate Change (DSS) - 3cr.
- ENVS4000 - Human Dimensions of Natural Resource Management (DSS) - 3cr.
- ENVS4020 - Foundations of Environmental Thought (DHA/CI) - 3cr.
- ENVS4030 - Building Community Environmental Resilience - 3cr.
- ENVS4130 - Natural Resource Recreation Policy and Planning - 3cr.
- ENVS4200 - Sustainability Metrics - 3cr.
- ENVS4250 - Advanced Internship/Co-op - 1cr.
- ENVS4750 - Global Change Ecology - 3cr.
- ENVS4980 - Environment and Society Departmental Colloquium - 1cr.
- ENVS5020 - Human Dimensions of Fire Management - 3cr.
- ENVS5100 - Introduction to Modeling Human-Environment Systems - 3cr.
- ENVS5200 - Anthropological Perspectives on Conservation - 3cr.
- ENVS5350 - Ecological Economics - 3cr.
- ENVS5550 - Sustainability: Concepts and Measurement - 3cr.
- ENVS5750 - Global Change Ecology - 3cr.
- ENVS5800 - Environment and Society Departmental Colloquium - 1cr.
- ENVS6320 - Water Law and Policy in the United States - 3cr.
- GEO3100 - Natural Disasters (DSC) - 3cr.
- GEO3600 - Geomorphology - 4cr.
- GEOG1400 - Human Geography (BSS) - 3cr.
- GEOG3200 - Principles of Remote Sensing - 3cr.
- GEOG4120 - Environment and Development in Latin America (CI) - 3cr.
- GEOG5400 - Natural Hazards and Society - 3cr.
- GEOG4920 - GIS Internship - 1cr.
- GEOG5805 - Introduction to Geospatial Artificial Intelligence: The Remote Sensing and GeoAI Frontier - 3cr.
- GEOG5815 - Insights from Above: Processing and Analyzing Drone Data - 1cr.
- GEOG5825 - Geospatial Artificial Intelligence, Ethics, & Society - 1cr.
- HIST3950 - Environmental History (DHA/CI) - 3cr.
- LAEP2039 - Foundations of Sustainable Systems - 3cr.
- LAEP2300 - History of Landscape Architecture (BHU) - 3cr.
- LAEP5370 - City and Regional Planning (CI) - 3cr.
- PHIL3530 - Environmental Ethics (DHA) - 3cr.
- POLS2430 - Contemporary Geopolitics (BSS) - 3cr.
- POLS3430 - Political Geography (CI/DSS) - 3cr.
- SOC2650 - Globalization and International Development (BSS) - 3cr.
- SOC3010 - Social Inequality (DSS) - 3cr.
- SOC3110 - Methods of Social Research (CI) - 3cr.
- SOC3120 - Social Statistics I (QI) - 3cr.
- SOC3200 - Population and Society (DSS) - 3cr.
- SOC3260 - Politics and Society in Post-Colonial States - 3cr.
- SOC3300 - Sociology of Climate Change - 3cr.
- SOC3310 - Environmental Justice - 3cr.
- SOC3340 - Activism, Protest, and Social Movements (DSS) - 3cr.
- SOC3600 - Finding Community in Today's Society (DSS) - 3cr.
- SOC3610 - Rural People and Places (DSS) - 3cr.
- SOC4350 - People, Power, and the Political - 3cr.
- SOC4620 - Sociology of the Environment and Natural Resources (DSS) - 3cr.
- SOC4640 - Managing Community Conflict (CI) - 3cr.
- SOC4720 - Effective Community Engagement - 3cr.
- SOC5230 - Techniques of Demographic Analysis - 3cr.
- SOC5270 - Global Migration - 3cr.
- SOC5420 - Gender, Sexuality and Social Inequality - 3cr.
- SOC6640 - Multispecies Justice and Indigenous Environmentalisms - 3cr.
- STAT5410 - Applied Spatial Statistics - 2cr.
- UAS3010 - Unmanned Aircraft System Introduction to Remote Pilot Certification - 3cr.
- UAS3200 - Fixed-wing Design and Construction Essentials - 3cr.
- UAS3700 - Unmanned Aircraft Systems Video Production - 3cr.
- WATS1200 - The Natural World and Our Place Within It (BLS) - 3cr.
- WATS2050 - Data Management for Natural Resources – Cleaning and Shaping Data - 1cr.
- WATS2060 - Data Management for Natural Resources – Data Display and Analysis - 1cr.

- WATS2500 - Introduction to Marine Biology (BLS) - 3cr.
- WATS3000 - Oceanography (DSC) - 3cr.
- WATS3450 - Introduction to Coral Reefs-Field Course (DSC) - 3cr.
- WATS3700 - Fundamentals of Watershed Science (CI) - 3cr.
- WATS4100 - Climate Adaptation Intern Program - 3cr.
- WATS5003 - Remote Sensing of Land Surfaces - 4cr.
- WATS5110 - Environmental Biogeochemistry - 3cr.
- WATS5210 - The Secret Life of Elements on Earth - 2cr.
- WATS5500 - Limnology: Ecology of Inland Waters - 3cr.
- WILD3800 - Wildland Plants and Ecosystems - 4cr.
- WATS5720 - Drone Data Analysis for Environmental Restoration - 2cr.
- WILD5750 - Applied Remote Sensing - 3cr.

Depth Requirements

In addition to two CI courses, and one QI course, complete at least two credits in approved 3000-level or above courses from each of the following two categories:

Complete at least 1 course in the following course sets:

- Depth Humanities and Creative Arts (DHA) Course
- Depth Life and Physical Sciences (DSC) Course

Open Electives

Complete the following as needed:
Total elective credit is determined by General Education courses taken, degree type selected, additional credits earned, and any additional math or other prerequisite courses needed. Please consult your Academic Advisor for details.

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Bachelor's Degree)

Suggested Degree Maps

Degree Map Name
Suggested Degree Map - Geography: Geographic Information Science Emphasis BS
Total Degree Map Credits
113 - 134
Degree Map Effective Catalog Year
2027 -

Degree Map Narrative

- Following is a sample four-year plan. Please note that student-specific plans may differ.
- Meet with an academic advisor to create a specific plan that best fits your academic needs.
- The student is ultimately responsible for knowing and completing all degree requirements.
- Make sure you meet the registration requirements for each class by clicking the course link and checking any prerequisites or corequisites.
- Consultation with an advisor may result in an altered plan customized for an individual student.
- Check your Degree Works for requirements and completion.

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	15	0

Requirement Select

- ENVS2000 - Natural Resource Professional Orientation
  OR
- WATS2000 - Natural Resource Professional Orientation
  OR
- WILD2000 - Natural Resource Professional Orientation

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- ENGL1010 - Writing as Inquiry (CL1)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- GEOG1000 - Physical Geography (BPS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- GEOG1005 - Physical Geography Lab

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- GEOG1300 - World Geography: Human and Environmental Dynamics (BSS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Elective or minor course (4 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	13 - 17	0

Requirement Select

- STAT1040 - Introduction to Statistics (QL)
  OR
- STAT1045 - Introduction to Statistics with Elements with Algebra (QL)
  OR
- STAT1080 - Foundations of Data Science (QL)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 5
Progress Credits	-
Contact Hours	3 - 5
Clinical	-
Criticality	No

Requirement Select

- Breadth American Institutions (BAI) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Breadth Humanities (BHU) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Breadth Creative Arts (BCA) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Elective or minor course (1-3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1 - 3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	15	0

Requirement Select

- GEOG2800 - Introduction to Geographic Information Sciences
  OR
- WILD2800 - Introduction to Geographic Information Sciences

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- ENGL2010 - Research and Argument Across Perspectives (CL2)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- GEOG3100 - Human-Environment Geography (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Degree elective (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Elective or minor course (2 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	15	0

Requirement Select

- GEOG3200 - Principles of Remote Sensing

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- WILD2200 - Ecology of Our Changing World (BLS)
  OR
- WATS2220 - General Ecology
  OR
- BIOL2220 - General Ecology

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Degree elective (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Elective or Minor course (6 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Fall	13 - 15	0

Requirement Select
- GEOG3700 - Python Programming for GIS

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- GEOG3800 - Geospatial Data Visualization

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- GEOG4210 - Geography of Utah

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- ENVS3500 - Environmental Data Science (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Depth Humanities and Creative Arts (DHA) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1 - 3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Spring	15	0

Requirement Select
- PSC4810 - Climate and Climate Change (DSC)(QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- GEOG5500 - Advanced Geographic Information Sciences (GIS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Degree elective (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective or Minor courses (6 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Fall	12 - 27	0

Requirement Select
- WILD5750 - Applied Remote Sensing

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Communications Intensive (CI) Courses

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	0 - 15
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Degree electives (6 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective or minor courses (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Spring	15	0

Requirement Select
- GEOG4910 - Geographic Information Science Portfolio

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- GEOG5300 - Geospatial Analysis with R

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Degree electives (6 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select	• Elective or minor courses (5 credits) (Generic)
Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	5
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Program Learning Outcomes

Program Learning Outcomes

Upon completing their program, students will be able to:

- Demonstrate proficiency in application of basic geographic terminology, principles, and concepts
- Explain the diversity and interdependence of regions, places and locations
- Interpret connections between the natural world and human society
- Draw knowledge, understanding and a diversity of approaches from other disciplines to synthesize them in a geographical context
- Apply geographic information systems (GIS) to the analysis of geographic data and spatial relationships
- Apply and interpret appropriate basic statistical and other quantitative analyses for geographic data, including spatially explicit data
- Communicate geographical ideas and information effectively and fluently by written, oral and visual means

https://qanr.usu.edu/envs/about/assessment

Geographic Information Science (GIS) - Post-Bachelor's Certificate

Program Overview

College	Department	Program Level
College of Agriculture & Natural Resources	College of Agriculture & Natural Resources	Graduate

About this Degree

The online Geographic Information Science (GIS) certificate is designed for graduate students or professionals wanting a competitive advantage in jobs or research requiring competency in applying industry-standard GIS tools to complex natural resource issues.

Students who complete the program will receive a post-bachelor certificate in Geographic Information Science. Their USU transcript will list the courses and grades received to complete the program. The certificate is complementary to a wide variety of graduate programs and is available as a standalone certificate.

Graduate Programs Director: Shannon Belmont

Program Coordinator: Leslie Gonzalez

Technology Requirements
Students must have access to a Windows-based PC to complete this certificate. The program uses ArcGIS Pro, and licenses will be provided to all registered students. ArcGIS Pro does not run on macOS, and the software will not install on Apple operating systems. Students using Apple hardware must secure reliable access to a Windows environment prior to beginning coursework.

To receive the certificate, a student must complete the following set of requirements:

- Apply and be accepted into the GIS Certificate Program
- Register for and successfully complete four graduate-level courses
- Maintain a minimum 3.0 GPA for program courses (grades below B- will not be accepted)
- Abide by the Code of Policies and Procedures for Students at Utah State University

Admission Requirements for this Program

Admission requirements can be found at the USU School of Graduate Studies (apply at https://gradschool.usu.edu/admissions/index). Students are expected to be admitted to the program as matriculated students before taking coursework leading to the degree.

Students pursuing the GIS certificate are not required to be enrolled in a graduate degree program. However, credits obtained from the certificate may be applied toward a graduate degree.

Additional information can about the GIS certificate may be obtained by contacting the Program Coordinator or by visiting https://qanr.usu.edu/mnr/gis-certificate.

Program Requirements

Total Credits Required In Program Coursework	Total Credits Required To Earn This Credential
12	12

Simple Requisites

Program Requirements

School of Graduate Studies Requirements

- **Degree Verification:** A bachelor's degree from an accredited U.S. college or university or a similarly recognized international university is required for admission to and completion of a graduate program.
- **Overall Graduate GPA at least 3.0 and no grades of C- or lower:** Graduate students are required to maintain at least a 3.0 GPA for degree-program courses. Grades of C- or lower will not be accepted for a graduate degree.
- **Matriculation Start Semester:** A master's degree must be completed within six years of entering the degree program. Additional time may be requested by the student's committee and submitted to the Vice Provost of Graduate Studies for review.
- **Coursework Validity:** Coursework over eight years old at the time of degree completion may not be used for a graduate degree unless it is revalidated.

GIS Certificate Course Requirements

Type
Completion Requirement

Required Courses (12 credits)

Students must complete four of the following courses (3 credits each) to fulfill the requirements for the GIS certificate.

Complete at least 4 of the following courses:

- NR6910 - Geographic Information Systems for Natural Resource Applications - 3cr.
- NR6930 - Advanced GIS for Natural Resource Applications - 3cr.
- NR6940 - Principles of Remote Sensing of Natural Resources - 3cr.
- NR6950 - Geospatial Analysis for Natural Resource Management - 3cr.
- NR6960 - Python Programming for GIS - 3cr.

Logan Campus Student Options

Students may substitute the following courses for the certificate. All courses have a prerequisite. Please contact the Program Coordinator for details.

Complete ANY of the following Courses:

- GEOG6300 - Geospatial Analysis with R - 3cr.
- GEOG6500 - Advanced Geographic Information Sciences (GIS) - 3cr.
- WILD6750 - Applied Remote Sensing - 3cr.

Program Learning Outcomes

Program Learning Outcomes
https://qcnr.usu.edu/college/assessment

General Studies - AA, AS

Program Overview

College
University

Department
General University

Program Level
Undergraduate

About this Degree
General Studies provides students the opportunity to pursue a personalized course of study. This allows students to explore and integrate academic offerings from across multiple departments, programs, and colleges.

- For more information about an Associate of Science or Associate of Art in General Studies, see the Advising Center website.
- Students should meet with an advisor associated with the USU location they attend. For more information contact jordan.pinkham@usu.edu
- Students may utilize Degree Works to check student-specific program progress.
- An Associate of Arts or Associate of Science in General Studies must be listed as the primary program. It cannot be paired with another associate degree as the secondary program or part of a dual associate degree.

Program Requirements

Total Credits Required To Earn This Credential
60

Minimum University Requirements

Minimum University Requirements
Minimum University Requirements (Associate Degrees)

Suggested Degree Maps

Degree Map Name
Suggested Degree Map – General Studies - AS, AA
Total Degree Map Credits
56 - 64
Degree Map Effective Catalog Year
2026 -

Degree Map Narrative

- Following is a sample two-year plan. Please note that student-specific plans may differ.
- Meet with an academic advisor to create a specific plan that best fits your academic needs.
- The student is ultimately responsible for knowing and completing all degree requirements.
- Consultation with an advisor may result in an altered plan customized for an individual student.
- Check your Degree Works for requirements and completion.

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	15 - 17	0

Requirement Select

- ENGL1010 - Writing as Inquiry (CL1)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- MATH1050 - College Algebra (QL)
  OR
- STAT1040 - Introduction to Statistics (QL)
  OR
- STAT1045 - Introduction to Statistics with Elements with Algebra (QL)
  OR
- STAT1080 - Foundations of Data Science (QL)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 5
Progress Credits	-
Contact Hours	3 - 5
Clinical	-
Criticality	No

Requirement Select

- Breadth American Institutions (BAI) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Elective (6 credits) (language 1010 if pursuing an Associate of Arts plus 3 elective credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	15	0

Requirement Select

- ENGL2010 - Research and Argument Across Perspectives (CL2)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Breadth Humanities (BHU) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Exploration (QL, BAI, BCA, BHU, BLS, BPS, or BSS) (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Elective (6 credits) (language 1020 if pursuing an Associate of Arts plus 3 elective credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	12 - 16	0

Requirement Select
- Breadth Creative Arts (BCA) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Breadth Physical Sciences (BPS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	0 - 4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective (9 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	9
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	14 - 16	0

Requirement Select
- Breadth Life Sciences (BLS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Breadth Social Sciences (BSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective (8 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	8
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Program Learning Outcomes

Program Learning Outcomes

https://www.usu.edu/oda/assessment/

Geography - Minor

Program Overview

College
College of Agriculture & Natural Resources

Department
Environment & Society

Program Level
Undergraduate

About this Degree

Geography is the study of space, place, and the relationships between people and our environment. With studies in geography, students learn essential skills to solve pressing problems at the local, national, and global scale. Geography is an interdisciplinary degree that includes coursework in the physical and social sciences, combined with technical expertise in the field of geographic information science.

Admission Requirements for this Program

Students should make an appointment with an academic advisor in the S.J. and Jessie E. Quinney College of Agriculture and Natural Resources to add this minor: qanr.usu.edu/advising/.

Program Requirements

Total Credits Required In Program Coursework
12-16

Total Credits Required To Earn This Credential
12-16

Simple Requisites

Program Requirements

All courses required for the minor must be taken on an A-B-C-D-F grade basis. A grade of C- or better and a grade point average of 2.5 or higher is required for all courses used to meet requirements for a minor in Geography.

Course Requirements

Type
Completion Requirement

Core Requirements (10 credits)

Complete ALL of the following Courses:

- GEOG1000 - Physical Geography (BPS) - 3cr.
- GEOG1300 - World Geography: Human and Environmental Dynamics (BSS) - 3cr.
- GEOG2800 - Introduction to Geographic Information Sciences - 4cr.
  OR WILD2800 - Introduction to Geographic Information Sciences - 4cr.

Elective Requirements (2-6 credits):

Complete at least 2 of the following courses:

- GEOG1400 - Human Geography (BSS) - 3cr.
- GEOG2340 - Environment, Natural Resources, and Society (BSS) - 3cr.
- GEOG3100 - Human-Environment Geography (CI) - 3cr.
- GEOG3200 - Principles of Remote Sensing - 3cr.
- GEOG3430 - Political Geography (CI/DSS) - 3cr.
- GEOG3800 - Geospatial Data Visualization - 3cr.
- GEOG4120 - Environment and Development in Latin America (CI) - 3cr.
- GEOG4210 - Geography of Utah - 3cr.
- GEOG5300 - Geospatial Analysis with R - 3cr.
- GEOG5400 - Natural Hazards and Society - 3cr.
- GEOG5500 - Advanced Geographic Information Sciences (GIS) - 3cr.
- GEOG5805 - Introduction to Geospatial Artificial Intelligence: The Remote Sensing and GeoAI Frontier - 3cr.
- GEOG5815 - Insights from Above: Processing and Analyzing Drone Data - 1cr.
- GEOG5825 - Geospatial Artificial Intelligence, Ethics, & Society - 1cr.

Program Learning Outcomes

Program Learning Outcomes

https://qanr.usu.edu/envs/about/assessment

Geography - MS

Program Overview

College
College of Agriculture & Natural Resources

Department
Environment & Society

Program Level
Graduate

About this Degree

Geography is concerned with the relationship between people and place and why place matters, the spatial patterns of human activity, and the processes underlying those patterns, and the linkages among places in a globalizing world. The MS in Geography provides a geographic and geospatial perspective on socio-environmental systems and human-environment interactions. The personalized program of study includes both Plan A (thesis) and Plan B (paper/project) options. For additional degree information, see the program page on the Department of Environment and Society Website. Students may complete the Graduate Specialization in Climate Adaptation Science as a part of this degree.

Program Requirements

Total Credits Required In Program Coursework
30

Total Credits Required To Earn This Credential
30

Simple Requisites

Program Requirements

Requirements for this degree include the graduate school and program requirements outlined below.

Graduate School and Home Department Requirements:

- **Degree Verification:** A bachelor's degree from an accredited U.S. college or university or a similarly recognized international university is required for admission to and completion of a graduate program. An official transcript must be sent directly to the School of Graduate Studies.
- **Overall Graduate GPA at least 3.0 and no grades of C- or lower:** Graduate students are required to maintain at least a 3.0 GPA for degree-program courses. Grades of C- or lower will not be accepted for a graduate degree.
- **Course Number Acceptability:** The program of study for a master's degree cannot include more than 12 semester credits of courses below the 6000 level. Credits in the following areas are not acceptable in a degree program: foreign languages (unless included in an approved Program of Study), continuing graduate advisement, individual home study, military science, and courses numbered below 5000.
- **Matriculation Start Semester:** A master's degree must be completed within six years of entering the degree program. Additional time may be requested by the student's advisor and submitted to the Vice Provost of Graduate Studies for review.
- **Coursework Validity:** Coursework over eight years old at the time of degree completion may not be used for a graduate degree unless it is revalidated.
- **Thesis Research Credits 6970:** Plan A students must take at least 6 thesis (ENVS 6970) credits/Plan B students must take a minimum of 2 credits of thesis research (ENVS 6970) but no more than 3 can be included on an approved Program of Study.
- Presentation at the Department's Pre-Project Graduate Research Symposium.
- Completion of the Responsible Conduct of Research (*RCR*) Training
- Approval of a thesis (Plan A) or paper/project (Plan B) proposal.
- Successful defense of the thesis (Plan A) or paper/project (Plan B).
- Submission of thesis to the School of Graduate Studies and library for review and approval, or of the paper/project to the library.
- Completion of academic forms required by the School of Graduate Studies.
    - Supervisory Committee Approval
    - Program of Study
    - Master's Thesis Proposal/Project Approval
    - Appointment for Examination
    - Record of Examination
    - Application for Graduation

Course Requirements

Type
Completion Requirement

A. Complete the Required Core (4 credits):

Complete ALL of the following Courses:

- ENVS6800 - Environment and Society Departmental Colloquium - 1cr.
- ENVS6840 - Graduate Orientation Seminar for Environment and Society - 1cr.
- ENVS6841 - The Socio-Environmental Research Process - 1cr.
- ENVS6842 - Methodology for Socio-Environmental Research - 1cr.

B. Complete a Committee-Approved Plan of Study (minimum of 26 additional credits) that Includes:

1. Theory coursework (at least 3 credits)

2. Methods/analysis coursework (at least 3 credits)

3. Thesis research (Plan A) or a paper/project (Plan B)

ENVS6970 THESIS RESEARCH (6 credits for Plan A or 2-3 credits for Plan B)

4. Elective courses (14 credits Plan A or 17-18 credits Plan B)

Complete ALL of the following Courses:

- ENVS6970 - Thesis Research - 1cr.

Program Learning Outcomes

Program Learning Outcomes

https://qanr.usu.edu/envs/about/assessment

Geology - Minor

Program Overview

College
College of Agriculture & Natural Resources

Department
Geosciences

Program Level
Undergraduate

About this Degree
A minor in Geology is available to allow students to learn some of the important principles and concepts of geology without having to earn a bachelor's in it.

Program Requirements

Total Credits Required To Earn This Credential
18

Simple Requisites

Program Requirements

Courses for the minor may not be taken on a pass/fail basis and must be completed with a grade of C- or better.

Section 1

Type
Completion Requirement

Required Courses (8 credits)

Complete ALL of the following Courses:

- GEO1010 - Introduction to Geology (BPS) - 3cr.
  OR GEO1060 - Introduction to Environmental Geoscience (BPS) - 3cr.
  OR GEO1110 - Physical Geology (BPS) - 3cr.
  OR GEO1360 - Planet Earth (BPS) - 3cr.
- GEO1115 - Physical Geology Laboratory - 1cr.
- GEO2200 - The Earth Through Time - 3cr.
- GEO2205 - Earth Through Time Laboratory - 1cr.

NOTE:

1. GEO1110 PHYSICAL GEOLOGY (BPS) is preferred.

Section 2

Type
Completion Requirement

Elective Courses (10 credits)

Complete ANY of the following Courses:

- GEO2800 - Minerals and Rocks - 4cr.

• must choose from Geology courses at the 3400 level or above

Program Learning Outcomes

Program Learning Outcomes
https://www.usu.edu/science/assessment/

Geology - BA, BS

Program Overview

College
College of Agriculture & Natural Resources

Department
Geosciences

Program Level
Undergraduate

About this Degree
Geology is part of broader Earth Science that examines the solid Earth, its composition, history, structure, and how it interacts with the hydrosphere, atmosphere and biosphere.

In this study of how Earth works, geoscientists integrate knowledge of biology, chemistry, engineering, mathematics, and physics. Geologists help us gain energy, mineral, and water resources and evaluate and mitigate hazards due to earthquakes, floods, landslides, and volcanic eruptions, as well as waste disposal and global environmental change.

Students receive a BS by completing all required courses in the major. To receive a BA, students must also gain proficiency in one or more foreign languages. See the following for language course requirements Undergraduate Academic Credential Requirements.

- For more information about Geology, see the Geosciences Department.
- Admitted and current students must meet with an advisor.
- Log on to Degree Works to check student-specific program progress.
- The highest math requirement for this degree is MATH1210 CALCULUS I (QL) and either MATH1220 CALCULUS II (QL) or MATH2250 LINEAR ALG/DIFF EQUATIONS (QI).

Admission Requirements for this Program
- New freshmen must be admitted to USU in Good Standing.
- Transfer students from other institutions or other programs at USU must have a 2.50 GPA.

Program Requirements

Total Credits Required In Program Coursework

Total Credits Required To Earn This Credential
120

Simple Requisites

Program Requirements

Some major coursework may fulfill General Education Requirements and University Studies Requirements. Students must receive a grade of C- or higher in GEO courses for them to count toward the major.

- MATH1210 CALCULUS I (QL) will fulfill the Quantitative Literacy (QL) requirement.
- PHYS2220 PHYS SCI AND ENGR II (BPS)(QI) will fulfill the Breadth Physical Sciences (BPS) requirement.
- ENGL1010 WRITING AS INQUIRY (CL1), and ENGL2010 RSRCH&ARGUMENT PRSPCTVES (CL2) will fulfill the Communications Literacy requirement.

Students must receive a grade of C- or higher in GEO courses for them to count toward the major.

Geology - BA, BS Course Requirements

Type
Completion Requirement

Geology Major Requirements (35 credits)

Complete ALL of the following Courses:

- GEO4500 - Igneous and Metamorphic Petrology - 4cr.
- GEO5200 - Geology Field Camp - 5cr.
- GEO5660 - Applied Geophysics - 4cr.
- GEOG2800 - Introduction to Geographic Information Sciences - 4cr.
  OR CS1400 - Introduction to Computer Science--CS 1 - 4cr.
- MATH1220 - Calculus II (QL) - 4cr.
  OR MATH2250 - Linear Algebra and Differential Equations (QI) - 4cr.
- PHYS2220 - Physics for Scientists and Engineers II (BPS/QI) - 4cr.
- PHYS2225 - Physics for Scientists and Engineers Lab II - 1cr.

• Additionally complete 9 credits from any geology course numbered 4800 or above (except GEO5200 GEOLOGY FIELD CAMP).

Geology Core Requirements (49 credits)

Complete ALL of the following Courses:

- GEO1110 - Physical Geology (BPS) - 3cr.
- GEO1115 - Physical Geology Laboratory - 1cr.
- GEO1220 - Historical Geology - 3cr.
  OR GEO2200 - The Earth Through Time - 3cr.
- GEO1225 - Historical Geology Laboratory - 1cr.
  OR GEO2205 - Earth Through Time Laboratory - 1cr.
- GEO2800 - Minerals and Rocks - 4cr.
- GEO3400 - Communicating Geoscience (CI/DSC) - 3cr.
- GEO3550 - Sedimentation and Stratigraphy - 4cr.
- GEO3600 - Geomorphology - 4cr.
- GEO3700 - Structural Geology - 4cr.
- GEO3900 - Geologic Field Methods (CI) - 3cr.
- CHEM1210 - Principles of Chemistry I - 4cr.
- CHEM1215 - Chemical Principles Laboratory I - 1cr.
- CHEM1220 - Principles of Chemistry II (BPS) - 4cr.
- CHEM1225 - Chemical Principles Laboratory II - 1cr.
- MATH1210 - Calculus I (QL) - 4cr.
- PHYS2210 - Physics for Scientists and Engineers I (QI/BPS) - 4cr.
- PHYS2215 - Physics for Scientists and Engineers Lab I - 1cr.

Open Electives

Complete the following as needed:
Total elective credit is determined by General Education courses taken, degree type selected, additional credits earned, and any additional math or other prerequisite courses needed. Please consult your Academic Advisor for details.

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Bachelor's Degree)

Suggested Degree Maps

Degree Map Name
Suggested Degree Map - Geology BA, BS
Total Degree Map Credits
122 - 124
Degree Map Effective Catalog Year
2026 -

Degree Map Narrative

- Following is a sample four-year plan. Please note that student-specific plans may differ.
- Meet with an academic advisor to create a specific plan that best fits your academic needs.
- The student is ultimately responsible for knowing and completing all degree requirements.
- Make sure you meet the registration requirements for each class by clicking the course link and checking any prerequisites or corequisites.
- Consultation with an advisor may result in an altered plan customized for an individual student.
- Check your Degree Works for requirements and completion.

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	16	0

Requirement Select

- GEO1110 - Physical Geology (BPS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- GEO1115 - Physical Geology Laboratory

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- CHEM1210 - Principles of Chemistry I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- CHEM1215 - Chemical Principles Laboratory I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- MATH1210 - Calculus I (QL)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- ENGL1010 - Writing as Inquiry (CL1)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	16	0

Requirement Select

- GEO2200 - The Earth Through Time
  OR
- GEO1220 - Historical Geology

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- GEO2205 - Earth Through Time Laboratory
  OR
- GEO1225 - Historical Geology Laboratory

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- CHEM1220 - Principles of Chemistry II (BPS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- CHEM1225 - Chemical Principles Laboratory II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- MATH1220 - Calculus II (QL)
  OR
- MATH2250 - Linear Algebra and Differential Equations (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- ENGL2010 - Research and Argument Across Perspectives (CL2)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	15	0

Requirement Select

- GEOG2800 - Introduction to Geographic Information Sciences

  OR
- CS1400 - Introduction to Computer Science--CS 1

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- PHYS2210 - Physics for Scientists and Engineers I (QI/BPS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- PHYS2215 - Physics for Scientists and Engineers Lab I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- Breadth American Institutions (BAI) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Breadth Creative Arts (BCA) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	15	0

Requirement Select

- GEO2800 - Minerals and Rocks

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- PHYS2220 - Physics for Scientists and Engineers II (BPS/QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- PHYS2225 - Physics for Scientists and Engineers Lab II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- Breadth Humanities (BHU) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Breadth Life Sciences (BLS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Fall	14	0

Requirement Select
- GEO3550 - Sedimentation and Stratigraphy

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- GEO3600 - Geomorphology

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- GEO 5XXX Geology Elective (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Breadth Social Sciences (BSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Spring	12 - 13	0

Requirement Select
- GEO3400 - Communicating Geoscience (CI/DSC)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- GEO 5XXX Geology Elective (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- GEO5660 - Applied Geophysics

OR
- GEO 5XXX Geology Elective (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- Elective (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Fall	17	0

Requirement Select
- GEO3700 - Structural Geology

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- GEO4500 - Igneous and Metamorphic Petrology

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- Depth Humanities and Creative Arts (DHA) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Spring	12 - 13	0

Requirement Select
- GEO3900 - Geologic Field Methods (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- GEO5660 - Applied Geophysics
  OR
- GEO 5XXX Geology Elective (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- Depth Social Sciences (DSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Electives (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Summer	5	0

Requirement Select

- GEO5200 - Geology Field Camp

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	5
Progress Credits	-
Contact Hours	5
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Program Learning Outcomes

Program Learning Outcomes

https://agnr.usu.edu/

Geology - Professional Emphasis - BA, BS

Program Overview

College
College of Agriculture & Natural Resources

Department
Geosciences

Program Level
Undergraduate

About this Degree

Geology is the part of broader Earth Science that examines the solid Earth, its composition, history, structure, and how it interacts with the hydrosphere, atmosphere and biosphere.

In this study of how Earth works, geoscientists integrate knowledge of biology, chemistry, engineering, mathematics, and physics. Geologists help us gain energy, mineral, and water resources and evaluate and mitigate hazards due to earthquakes, floods, landslides, and volcanic eruptions, as well as waste disposal and global environmental change.

Students receive a BS by completing all required courses in the major. To receive a BA, students must also gain proficiency in one or more foreign languages. See the following for language course requirements Undergraduate Academic Credential Requirements.

- For more information about Geology, see the Geosciences Department.
- Admitted and current students must meet with an advisor.
- Log on to Degree Works to check student-specific program progress.
- The highest math requirement for this degree is MATH1210 CALCULUS I (QL).

Admission Requirements for this Program

- New freshmen must be admitted to USU in Good Standing.
- Transfer students from other institutions or other programs at USU must have a 2.75 GPA.

Program Requirements

Total Credits Required In Program Coursework
88

Total Credits Required To Earn This Credential
120

Simple Requisites

Program Requirements

Some major coursework may fulfill General Education Requirements and University Studies Requirements. Students must receive a grade of C- or higher in GEO courses for them to count toward the major.

- MATH1210 CALCULUS I (QL) will fulfill the Quantitative Literacy (QL) requirement.
- CHEM1220 PRIN OF CHEMISTRY II (BPS) will fulfill the Breadth Physical Sciences (BPS) requirement.
- ENGL1010 WRITING AS INQUIRY (CL1), and ENGL2010 RSRCH&ARGUMENT PRSPCTVES (CL2) will fulfill the Communications Literacy requirement.
- GEO3400 COMMUNICATING GEOSCI (CI/DSC) and GEO3900 GEOLOGY FIELD METHODS (CI) will fulfill the Communications Intensive (CI) requirement.
- PHYS2210 PHYS SCI AND ENGR I (QI)(BPS) will fulfill the Quantitative Intensive (QI) requirement.

Students must receive a grade of C- or higher in GEO courses for them to count toward the major.

Major Requirements (88 credits)

Type
Completion Requirement

Geology Core Requirements (49 credits)

Complete ALL of the following Courses:

- GEO1110 - Physical Geology (BPS) - 3cr.
- GEO1115 - Physical Geology Laboratory - 1cr.
- GEO1220 - Historical Geology - 3cr.
  OR GEO2200 - The Earth Through Time - 3cr.
- GEO1225 - Historical Geology Laboratory - 1cr.
  OR GEO2205 - Earth Through Time Laboratory - 1cr.
- GEO2800 - Minerals and Rocks - 4cr.
- GEO3400 - Communicating Geoscience (CI/DSC) - 3cr.
- GEO3550 - Sedimentation and Stratigraphy - 4cr.
- GEO3600 - Geomorphology - 4cr.
- GEO3700 - Structural Geology - 4cr.
- GEO3900 - Geologic Field Methods (CI) - 3cr.
- CHEM1210 - Principles of Chemistry I - 4cr.
- CHEM1215 - Chemical Principles Laboratory I - 1cr.
- CHEM1220 - Principles of Chemistry II (BPS) - 4cr.
- CHEM1225 - Chemical Principles Laboratory II - 1cr.
- MATH1210 - Calculus I (QL) - 4cr.
- PHYS2210 - Physics for Scientists and Engineers I (QI/BPS) - 4cr.
- PHYS2215 - Physics for Scientists and Engineers Lab I - 1cr.

Professional Emphasis Courses (24 credits)

Complete ALL of the following Courses:

- GEO3800 - Applied Geoscience Techniques - 3cr.
- GEO4500 - Igneous and Metamorphic Petrology - 4cr.
- GEO5210 - GeoProfessional Field Practicum - 3cr.
- GEO5510 - Groundwater Geology (QI) - 3cr.
- GEO5570 - Engineering Geology (QI) - 3cr.
- GEOG2800 - Introduction to Geographic Information Sciences - 4cr.
- STAT2000 - Statistical Methods (QI) - 4cr.

Professional Emphasis Elective Courses (15 credits)

Students must complete 15 credits from the courses below or others as approved the faculty advisor.

Earn at least 15 credits from the following:

- GEO3150 - Energy in the Twenty-first Century (DSC/QI) - 3cr.
- GEO4850 - Internship/Co-op - 1cr.
- GEO5520 - Techniques of Groundwater Investigations (CI) - 3cr.
- GEO5600 - Geochemistry - 4cr.
- GEO5660 - Applied Geophysics - 4cr.
- GEOG5500 - Advanced Geographic Information Sciences (GIS) - 3cr.

Open Electives

Complete the following as needed:
Total elective credit is determined by General Education courses taken, degree type selected, additional credits earned, and any additional math or other prerequisite courses needed. Please consult your Academic Advisor for details.

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Bachelor's Degree)

Suggested Degree Maps

Degree Map Name
Suggested Degree Map - Geology: Professional Emphasis BA, BS
Total Degree Map Credits
121
Degree Map Effective Catalog Year
2026 -

Degree Map Narrative

- Following is a sample four-year plan. Please note that student-specific plans may differ.
- Meet with an academic advisor to create a specific plan that best fits your academic needs.
- The student is ultimately responsible for knowing and completing all degree requirements.
- Make sure you meet the registration requirements for each class by clicking the course link and checking any prerequisites or corequisites.
- Consultation with an advisor may result in an altered plan customized for an individual student.
- Check your Degree Works for requirements and completion.

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	13	0

Requirement Select
- GEO1110 - Physical Geology (BPS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- GEO1115 - Physical Geology Laboratory

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- CHEM1210 - Principles of Chemistry I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- CHEM1215 - Chemical Principles Laboratory I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- MATH1210 - Calculus I (QL)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	16	0

Requirement Select
- GEO2200 - The Earth Through Time
  OR
- GEO1220 - Historical Geology

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- GEO2205 - Earth Through Time Laboratory
  OR
- GEO1225 - Historical Geology Laboratory

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- STAT2000 - Statistical Methods (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- CHEM1220 - Principles of Chemistry II (BPS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- CHEM1225 - Chemical Principles Laboratory II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- Breadth Creative Arts (BCA) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	15	0

Requirement Select

- GEOG2800 - Introduction to Geographic Information Sciences

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- PHYS2210 - Physics for Scientists and Engineers I (QI/BPS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- PHYS2215 - Physics for Scientists and Engineers Lab I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- ENGL1010 - Writing as Inquiry (CL1)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Breadth Humanities (BHU) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	16	0

Requirement Select

- GEO2800 - Minerals and Rocks

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- Breadth Life Sciences (BLS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Breadth Social Sciences (BSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- ENGL2010 - Research and Argument Across Perspectives (CL2)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Breadth American Institutions (BAI) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Fall	14	0

Requirement Select

- GEO3550 - Sedimentation and Stratigraphy

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- GEO3600 - Geomorphology

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- GEO3700 - Structural Geology

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- GEO3800 - Applied Geoscience Techniques

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Geology: Professional Elective (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- GEO5510 - Groundwater Geology (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Geology: Professional Elective (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Spring	16	0

Requirement Select
- GEO3400 - Communicating Geoscience (CI/DSC)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Depth Humanities and Creative Arts (DHA) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Fall	13	0

Requirement Select
- GEO4500 - Igneous and Metamorphic Petrology

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- GEO3900 - Geologic Field Methods (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- GEO5570 - Engineering Geology (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Geology: Professional Elective (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Spring	15	0

Requirement Select
- Geology: Professional Elective (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Geology: Professional Elective (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Depth Social Sciences (DSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Electives (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Summer	3	0

Requirement Select
- GEO5210 - GeoProfessional Field Practicum

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Program Learning Outcomes

Program Learning Outcomes
https://agnr.usu.edu/

Geology: Hydrogeology, Engineering Emphasis - BA, BS

Program Overview

College	Department	Program Level
College of Agriculture & Natural Resources	Geosciences	Undergraduate

About this Degree
Geology is the part of broader Earth Science that examines the solid Earth, its composition, history, structure, and how it interacts with the hydrosphere, atmosphere and biosphere.

In this study of how Earth works, geoscientists integrate knowledge of biology, chemistry, engineering, mathematics, and physics. Geologists help us gain energy, mineral, and water resources and evaluate and mitigate hazards due to earthquakes, floods, landslides, and volcanic eruptions, as well as waste disposal and global environmental change.

Students receive a BS by completing all required courses in the major. To receive a BA, students must also gain proficiency in one or more foreign languages.

Hydrogeology-Engineering Geology Emphasis: Hydrogeology is the subdiscipline within geology that deals with the distribution and movement of groundwater in the soil and rocks of the earth's crust. Students in the specialization take engineering courses in addition to their geology coursework as they study the engineering of groundwater.

- For more information about Geology, see the Geosciences Department.
- Admitted and current students must meet with an advisor.
- Log on to Degree Works to check student-specific program progress.
- The highest math requirement for this degree is MATH2210 MULTIVARIABLE CALCULUS (QI) or MATH2250 LINEAR ALG/DIFF EQUATIONS (QI)

Admission Requirements for this Program
- New freshmen must be admitted to USU in Good Standing.
- Transfer students from other institutions or other programs at USU must have a 2.75 GPA.

Program Requirements

Total Credits Required To Earn This Credential
120

Simple Requisites

Program Requirements

Students must receive a grade of C- or higher in GEO courses for them to count toward the major.

Geology: Hydrogeology, Engineering Emphasis - BA, BS Course Requirements

Type
Completion Requirement

Geology Core Requirements (49 credits)

Complete ALL of the following Courses:
- GEO1110 - Physical Geology (BPS) - 3cr.

- GEO1115 - Physical Geology Laboratory - 1cr.
- GEO2200 - The Earth Through Time - 3cr.
  OR GEO1220 - Historical Geology - 3cr.
- GEO2205 - Earth Through Time Laboratory - 1cr.
  OR GEO1225 - Historical Geology Laboratory - 1cr.
- GEO2800 - Minerals and Rocks - 4cr.
- GEO3400 - Communicating Geoscience (CI/DSC) - 3cr.
- GEO3550 - Sedimentation and Stratigraphy - 4cr.
- GEO3600 - Geomorphology - 4cr.
- GEO3700 - Structural Geology - 4cr.
- GEO3900 - Geologic Field Methods (CI) - 3cr.
- CHEM1210 - Principles of Chemistry I - 4cr.
- CHEM1215 - Chemical Principles Laboratory I - 1cr.
- CHEM1220 - Principles of Chemistry II (BPS) - 4cr.
- CHEM1225 - Chemical Principles Laboratory II - 1cr.
- MATH1210 - Calculus I (QL) - 4cr.
- PHYS2210 - Physics for Scientists and Engineers I (QI/BPS) - 4cr.
- PHYS2215 - Physics for Scientists and Engineers Lab I - 1cr.

Hydrogeology-Engineering Emphasis (38-41 credits)

Complete ALL of the following Courses:

- GEO5200 - Geology Field Camp - 5cr.
- GEO5510 - Groundwater Geology (QI) - 3cr.
- GEO5520 - Techniques of Groundwater Investigations (CI) - 3cr.
  OR GEO5600 - Geochemistry - 4cr.
- CEE3430 - Engineering Hydrology - 3cr.
  OR CEE3300 - Engineering Soil Mechanics - cr.
- CEE3500 - Civil and Environmental Engineering Fluid Mechanics - 3cr.
- ENGR2010 - Engineering Mechanics Statics - 3cr.
- ENGR2030 - Engineering Mechanics Dynamics - 3cr.
- ENGR2140 - Mechanics of Materials - 3cr.
- MATH1220 - Calculus II (QL) - 4cr.
- MATH2210 - Multivariable Calculus (QI) - 3cr.
  OR MATH2250 - Linear Algebra and Differential Equations (QI) - 4cr.
- PHYS2220 - Physics for Scientists and Engineers II (BPS/QI) - 4cr.
- PHYS2225 - Physics for Scientists and Engineers Lab II - 1cr.

Open Electives

Complete the following as needed:
Total elective credit is determined by General Education courses taken, degree type selected, additional credits earned, and any additional math or other prerequisite courses needed. Please consult your Academic Advisor for details.

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Bachelor's Degree)

Suggested Degree Maps

Degree Map Name
Suggested Degree Map: Geology: Hydrogeology, Engineering Emphasis - BA, BS
Total Degree Map Credits
116 - 119

Degree Map Effective Catalog Year
2026 -

Degree Map Narrative

- Following is a sample four-year plan. Please note that student-specific plans may differ.
- Meet with an academic advisor to create a specific plan that best fits your academic needs.
- The student is ultimately responsible for knowing and completing all degree requirements.
- Make sure you meet the registration requirements for each class by clicking the course link and checking any prerequisites or corequisites.
- Consultation with an advisor may result in an altered plan customized for an individual student.
- Check your Degree Works for requirements and completion.

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	13	0

Requirement Select
- GEO1110 - Physical Geology (BPS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- GEO1115 - Physical Geology Laboratory

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- CHEM1210 - Principles of Chemistry I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- CHEM1215 - Chemical Principles Laboratory I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- MATH1210 - Calculus I (QL)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	15	0

Requirement Select

- GEO2200 - The Earth Through Time

OR

- GEO1220 - Historical Geology

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- GEO2205 - Earth Through Time Laboratory

OR

- GEO1225 - Historical Geology Laboratory

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- GEO2800 - Minerals and Rocks

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- MATH1220 - Calculus II (QL)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- ENGL1010 - Writing as Inquiry (CL1)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	15	0

Requirement Select

- GEO3550 - Sedimentation and Stratigraphy

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- CHEM1220 - Principles of Chemistry II (BPS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- CHEM1225 - Chemical Principles Laboratory II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- ENGL2010 - Research and Argument Across Perspectives (CL2)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Breadth American Institutions (BAI) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	15	0

Requirement Select
- GEO3400 - Communicating Geoscience (CI/DSC)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- GEO3700 - Structural Geology

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- PHYS2210 - Physics for Scientists and Engineers I (QI/BPS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- PHYS2215 - Physics for Scientists and Engineers Lab I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- Breadth Creative Arts (BCA) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Fall	15	0

Requirement Select

- GEO3600 - Geomorphology

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- GEO3900 - Geologic Field Methods (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- PHYS2220 - Physics for Scientists and Engineers II (BPS/QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- PHYS2225 - Physics for Scientists and Engineers Lab II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- Breadth Humanities (BHU) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Spring	14 - 15	0

Requirement Select

- MATH2210 - Multivariable Calculus (QI)

  OR
- MATH2250 - Linear Algebra and Differential Equations (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 4
Progress Credits	-
Contact Hours	3 - 4
Clinical	-
Criticality	No

Requirement Select

- ENGR2010 - Engineering Mechanics Statics

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Breadth Life Sciences (BLS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Breadth Social Sciences (BSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Summer	5	0

Requirement Select

- GEO5200 - Geology Field Camp

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	5
Progress Credits	-
Contact Hours	5
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Fall	15	0

Requirement Select

- GEO5510 - Groundwater Geology (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- CEE3500 - Civil and Environmental Engineering Fluid Mechanics

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- ENGR2030 - Engineering Mechanics Dynamics

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- ENGR2140 - Mechanics of Materials

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Depth Humanities and Creative Arts (DHA) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Spring	9 - 11	0

Requirement Select

- GEO5520 - Techniques of Groundwater Investigations (CI)
  OR
- GEO5600 - Geochemistry

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 4
Progress Credits	-
Contact Hours	3 - 4
Clinical	-
Criticality	No

Requirement Select

- CEE3430 - Engineering Hydrology
  OR
- CEE3300 - Engineering Soil Mechanics

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 4
Progress Credits	-
Contact Hours	0 - 3
Clinical	-
Criticality	No

Requirement Select

- Depth Social Sciences (DSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Program Learning Outcomes

Program Learning Outcomes

https://www.usu.edu/oda/assessment/

Geology - MS

Program Overview

College	Department	Program Level
College of Agriculture & Natural Resources	Geosciences	Graduate

About this Degree

The Master of Science degree in Geology requires original research in a specific area or areas of the geosciences. The successful candidate must demonstrate a breadth of understanding in the geosciences, as well as a depth of understanding in the chosen areas of emphases. Potential students must show an ability to do creative research. This research should be carried out during a significant period of time. Thus, each successful MS candidate will produce a significant piece of original research, presented in a written thesis and defended in an oral examination. This work should be of such scope and quality that may lead to at least one peer-reviewed publication.

Program Contacts:

Tammy Rittenour, PhD

Professor, Graduate Director

Tammy.rittenour@usu.edu

Kelly Bradbury, PhD, PEG

Professional Practice Associate Professor, Graduate Program Coordinator

Kelly.bradbury@usu.edu

Program Description

The department offers advanced study and research opportunities leading to the MS degree in Geology. Although many research specialties require advanced courses selected primarily from Geosciences offerings, additional courses may be selected from other departments on campus, such as Biology; Civil and Environmental Engineering; Mathematics and Statistics; Plants, Soils, and Climate; and departments within the Quinney College of Agriculture and Natural Resources.

Specializations available for the MS in Geosciences: Geomorphology and Earth Surface Processes, Geophysics, Hydrogeology, Petrology and Geochemistry, Sedimentology and Paleoecology, Structure and Tectonics, and Climate Adaptation Science.

Admission Requirements for this Program

- Admission requirements can be found on the USU School of Graduate Studies website (gradschool.usu.edu/admissions/policies) and the Department of Geosciences 'Apply to our Program' page: https://qanr.usu.edu/geo/graduate-program/future-graduates
- Students may need to complete specific undergraduate coursework to prepare them for their graduate program. Seven preparatory core undergraduate courses are *recommended* by the Department of Geosciences: Physical Geology, Minerals and Rocks (Earth Materials, Mineralogy), Earth through Time (Historical Geology), Sedimentation and Stratigraphy, Geomorphology, Structural Geology, and Field Methods or experience. Graduate students are *generally expected* to have taken a minimum of four of the seven core courses, including a field course; however, this depends on each student's background and planned research topic.
- Decisions about any exceptions to these potential prerequisites in a student's graduate program are made by a student's Advisory Committee in their first meeting, and in consultation with the Graduate Director.

- Students are expected to be admitted to the Graduate program as matriculated students before taking coursework leading to the degree.

Additional information about the MS Geoscience program may be obtained by contacting the Department of Geosciences or by visiting the program website at https://qanr.usu.edu/geo/graduate-program/degree-and-information.

Program Requirements

Total Credits Required In Program Coursework
30

Total Credits Required To Earn This Credential
30

Simple Requisites

Program Requirements

30 credits

· **Degree Verification:** A bachelor's degree from an accredited U.S. college or university or a similarly recognized international university is required for admission to and completion of a graduate program. An official transcript must be sent directly to the School of Graduate Studies.

· **Overall Graduate GPA at least 3.0 and no grades of C- or lower:** Graduate students are required to maintain at least a 3.0 GPA for Degree Plan courses. Grades of C- or lower will not be accepted for a graduate degree.

· **Course Number Acceptability:** The program of study for an MS-A Degree Plan cannot include more than 12 semester credits of courses at the 5000 level. Credits in courses numbered below 5000-level are not accepted for this Degree Plan.

· **Matriculation Start Semester:** A MS degree must be completed within six years of entering the degree program. Additional time may be requested by the student's advisor and submitted to the Vice Provost of Graduate Studies for review.

· **Coursework Validity:** Coursework over eight years old at the time of degree completion may not be used for a graduate degree unless it is revalidated.

· **Master's form approvals:**

o Supervisory Committee submitted by the end of the second semester

o Program of Study submitted by the end of the second semester

o Thesis/Project Approval

o Authorship and Copyright

o Thesis Format and Style

o Appointment for Examination (submitted 10 days before date of defense)

o Record of Examination

o Title Page

o Graduation application

o Students in the MS-A Geosciences Degree Plan program are required to take 30 credits beyond a BS degree.

Geology - MS

Type
Completion Requirement

Degree Requirements

Complete the following:

A bachelor's degree from an accredited U.S. college or university or a similarly recognized international university is required for admission to and completion of a graduate program. Students enrolled in the MS Geology program will be expected to complete the majority of the Geology undergraduate core course requirements if they have not done so prior to enrollment (e.g., Introductory or Physical Geology with laboratory, Minerals and Rocks (Earth Materials), Historical Geology, Sedimentation and Stratigraphy, Geomorphology, Structural Geology, and Field Methods or relevant experience).

Only the Plan A thesis option is allowed for the MS degree in Geology. The recommended distribution is 20 credits of coursework and 10 credits of Thesis (GEO6970 THESIS) to obtain the required 30 credits for the MS degree. The Program of Study must include at least 15 semester credits at the level of 6000 or above. Graduate students are required to maintain at least a 3.0 GPA for degree-program courses. Grades of C- or lower will not be accepted for a graduate degree.

At least 24 semester credits for a master's degree must be from a committee-approved and a School of Graduate Studies-approved Program of Study from Utah State University.

The thesis option requires completing a MS thesis proposal. Students must prepare and defend a MS thesis based on their original research. Plan A thesis must be submitted to the Merrill-Cazier Library.

Geoscience graduate students using department or university facilities and/or under Geosciences faculty supervision must register for a minimum of 3 credits every semester, up to and including the semester in which the thesis is cleared by the School of Graduate Studies.

A master's degree must be completed within six years of entering the degree program. Additional time may be requested by the student's committee and submitted to the Vice Provost of Graduate Studies for review. Coursework over eight years old at the time of degree completion may not be used for a graduate degree unless it is revalidated.

Students must submit and obtain approval of academic forms required for master's students by the School of Graduate Studies.

Program Learning Outcomes

Program Learning Outcomes
https://qanr.usu.edu/geo/assessment/graduate/learning-objectives

Geology - PhD

Program Overview

College
College of Agriculture & Natural Resources

Department
Geosciences

Program Level
Graduate

About this Degree

The Doctor of Philosophy degree in Geology requires original research in a specific area or areas of the geosciences. The successful candidate must demonstrate a breadth of understanding in the geosciences, as well as a depth of understanding in the chosen areas of emphases. Potential students must show an ability to complete coursework and demonstrate competence in independent research. Thus, each successful PhD candidate will produce a significant piece of original research, presented in a written dissertation and defended in an oral examination. This work should be of such scope and quality that more than one peer-reviewed publication can be derived from it.

Program Contacts:

Tammy Rittenour, PhD
Professor, Graduate Director
Tammy.rittenour@usu.edu

Kelly Bradbury, PhD, PEG
Professional Practice Associate Professor, Graduate Program Coordinator
Kelly.bradbury@usu.edu

Program Description

The Doctor of Philosophy in Geology requires original research in a specific area of geology, and demonstration of broad knowledge in the field of geology.

Requirements include: 1) completing 72 credits beyond a BS 2) or completing 42 credits beyond your MS; 2) passing a set of comprehensive examinations showing depth and breadth of knowledge in geology and the student's area(s) of emphasis; 3) completing a Dissertation research proposal; and 4) completing and defending a written Dissertation, which may consist of manuscripts submitted for publication. Graduate assistantships are based upon a three-to-four-year PhD program.

Admission Requirements for this Program

- Admission requirements can be found on the USU School of Graduate Studies website (gradschool.usu.edu/admissions/policies) and the Department of Geosciences 'Apply to our Program' page: https://qanr.usu.edu/geo/graduate-program/future-graduates
- Students may need to complete specific undergraduate coursework to prepare them for their graduate program. Seven preparatory core undergraduate courses are recommended by the Department of Geosciences: Physical Geology, Minerals and Rocks (Earth Materials, Mineralogy), Earth through Time (Historical Geology), Sedimentation and Stratigraphy, Geomorphology, Structural Geology, and Field Methods or experience. Graduate students are generally expected to have taken a minimum of four of the seven core courses, including a field course; however, this depends on each student's background and planned research topic.
- Decisions about any exceptions to these potential prerequisites in a student's graduate program are made by a student's Advisory Committee in their first meeting, and in consultation with the Graduate Director.
- Students are expected to be admitted to the Graduate program as matriculated students before taking coursework leading to the degree.

Additional information about the PhD Geoscience program may be obtained by contacting the Department of Geosciences or by visiting the program website at https://qanr.usu.edu/geo/graduate-program/degree-and-information.

Program Requirements

Total Credits Required In Program Coursework
42-72

Total Credits Required To Earn This Credential
42-72

Simple Requisites

Program Requirements

Complete at least 72 credits of graduate coursework.. The Program of Study for a doctoral degree, if the student has a master's degree, must include at least 15 semester credits at the level of 6000 or above. For a doctoral degree, if the student does not have a master's degree, the Program of Study must include at least 30 credits at the level of 6000 or above. An overall GPA of 3.3 or higher and individual course grades of B or higher (in all degree-program coursework) are required.

Successfully complete a written dissertation research proposal, present that proposal orally to the committee, and defend it during an oral examination. The oral examination will include questions of a deep and probing nature and may range beyond the dissertation proposal into geoscience areas unrelated to the student's specialization.

Successfully complete and defend a dissertation. The dissertation will be a written document and should consist of several products submitted or accepted for publication in a peer-reviewed venue. The defense will be oral, including a presentation of the work and successful defense of the work to the faculty. Dissertations must be submitted to the Merrill-Cazier Library.

Geosciences graduate students using department or University facilities and/or under Geosciences faculty supervision must register for a minimum of 3 credits every semester, up to and including the semester in which the dissertation is cleared by the School of Graduate Studies.

A doctorate must be completed within eight years of entering the degree program. Additional time may be requested by the student's committee and submitted to the Vice Provost of Graduate Studies for review. Coursework over eight years old at the time of degree completion may not be used for a graduate degree unless it is revalidated.

Students must submit and obtain approval of academic forms required for doctoral students by the School of Graduate Studies.

• Degree Verification: A bachelor's degree from an accredited U.S. college or university or a similarly recognized international university is required for admission to and completion of a graduate program. An official transcript must be sent directly to the School of Graduate Studies.
• Overall Graduate GPA at least 3.0 and no grades of C- or lower: Graduate students are required to maintain at least a 3.0 GPA for Degree Plan courses. Grades of C- or lower will not be accepted for a graduate degree.
• Course Number Acceptability: The program of study for a PhD Degree Plan cannot include more than 12 semester credits of courses at the 5000 level. Credits in courses numbered below 5000-level are not accepted for this Degree Plan.
• Matriculation Start Semester: A PhD degree must be completed within eight years of entering the degree program. Additional time may be requested by the student's advisor and submitted to the Vice Provost of Graduate Studies for review.
• Coursework Validity: Coursework over eight years old at the time of degree completion may not be used for a graduate degree unless it is revalidated.
• Doctoral form approvals:

o Supervisory Committee submitted by the end of the second semester
o Program of Study submitted by the end of the second semester
o Application for Candidacy
o Authorship and Copyright
o Dissertation Format and Style
o Appointment for Examination (submitted 10 days before date of defense)

o Record of Examination
o Title Page
o Graduation application

• Students in the PhD Geosciences Degree Plan program are required to take 42 credits beyond an MS degree. Students with a Bachelor's degree entering a PhD Degree Plan program are required to take 70 credits beyond a BS degree.

Requirements

Type
Completion Requirement

Dissertation Research Credit

Complete at least 21 credits of GEO7970 DISSERTATION RESEARCH beyond a BS degree; at least 15 credits of GEO7970 DISSERTATION RESEARCH beyond an MS degree.

Complete ALL of the following Courses:

- GEO7970 - Dissertation Research - 1cr.

Program of Study Track Options

Please consult with your program coordinator or faculty mentor for specific program of study credit requirements.

See the following:
Academic Track: Successfully teach one geoscience course under the supervision of a faculty mentor while taking GEO6900 GRAD INTERN/COOP (teaching internship) credits. Coursework in pedagogy may be pursued.

Professional Track: Completion of a professional internship program is encouraged and GEO6900 GRAD INTERN/COOP credits may be taken with this. Coursework developing computational skills may be pursued.

Pass written comprehensive examinations showing depth and breadth of knowledge in geosciences and in the student's area(s) of emphasis. The student may be required to take additional classes to satisfy any deficiencies.

Program Learning Outcomes

Program Learning Outcomes
https://qanr.usu.edu/geo/assessment/graduate/learning-objectives

Gerontology - Certificate

Program Overview

College
College of Education & Human Services

Department
Human Development and Family Studies

Program Level
Undergraduate

About this Degree
The Gerontology Certificate program is a 19-credit program that covers the biological, cognitive,and psychosocial aspects of aging. The program is designed to prepare students for a variety of careers in the field of gerontology, including healthcare, social work, public policy, and research.

Please contact Laura.Holley@usu.edu for more information.

Program Requirements

Total Credits Required In Program Coursework
19

Total Credits Required To Earn This Credential
19

Simple Requisites

Program Requirements

Gerontology - Certificate

Type
Completion Requirement

Required Courses (13 credits)

Complete ALL of the following Courses:

- HDFS1500 - Human Development Across the Lifespan (BSS) - 3cr.
- HDFS3540 - Adult Development and Aging - 3cr.
- HDFS4240 - Social and Family Gerontology - 3cr.
  OR NDFS3080 - Community Nutrition - 3cr.
- HDFS4940 - Gerontology Integration - 1cr.
- HDFS4970 - Gerontology Practicum - 3cr.

NOTE:

1. HDFS4970 GERONTOLOGY PRACTICUM - Application required.

Elective Courses (6 credits)

Students select six additional credits from a list of approved courses across various majors and departments. Students are encouraged to choose electives below that will be most applicable to their chosen field of study.

Earn at least 6 credits from the following:

- BIOL3100 - Bioethics (CI) - 3cr.
- FIN5070 - Retirement Planning - 3cr.
- FIN5080 - Estate Planning - 3cr.
- HDFS3350 - Family Finance (DSS) - 3cr.
- HEP3600 - Functions of Community & Public Health (CI) - 3cr.
- NDFS2020 - Nutrition Throughout the Life Cycle - 3cr.
- NDFS3040 - Nutrition Assessment - 3cr.
- PHIL1120 - Social Ethics (BHU) - 3cr.
- PHIL3500 - Healthcare Ethics (DHA) - 3cr.
- PUBH3120 - Family and Community Health - 3cr.
- SOC3200 - Population and Society (DSS) - 3cr.
- SOC3330 - Medical Sociology (DSS) - 3cr.
- SOC5460 - Sociology of Health, Illness, and Disability - 3cr.

- SPED1010 - Disability and Society (BSS) - 3cr.
- SW5525 - Aging in the 21st Century - 3cr.

Additional Comments:
Please contact laura.holley@usu.edu for more information.

Minimum University Requirements

Minimum University Requirements
Minimum University Requirements (Undergraduate Academic or Technical Certificates)

Program Learning Outcomes

Program Learning Outcomes
https://cehs.usu.edu/about/assessment

German Teaching Emphasis - Minor

Program Overview

College
College of Arts & Sciences

Department
World Languages and Cultures

Program Level
Undergraduate

Program Requirements

Total Credits Required In Program Coursework
48

Total Credits Required To Earn This Credential
48

Simple Requisites

Program Requirements

- **German Teaching Emphasis Minor with Licensure - Total Credits:** 48 (16 credits + 32 STEP credits)
- **Minimum Grade Requirement:** All courses taken for the minor and STEP require a minimum grade of **C** or better. Courses for the minor *may not* be taken on a pass/fail basis, **except** SCED3300 CLINICAL EXPERIENCE I and SCED5630 STUDENT TEACHING SEC SCHOOL**.**
- **German Teaching Emphasis Minor without Licensure (19 credits)**

German Teaching Emphasis Minor Requirements with Licensure

Type
Completion Requirement

German and Linguistics Courses (16 credits)

Fulfill ALL of the following requirements:

Required Courses (10 credits)

Complete ALL of the following Courses:

- GERM3040 - Advanced German Grammar & Culture (CI) - 3cr.
- GERM3300 - Contemporary German Speaking Cultures (DHA) - 3cr.
  OR GERM3550 - Cultural History of German Speaking Peoples (DHA) - 3cr.
- GERM4200 - Applied German Linguistics and Phonetics - 3cr.
- GERM4920 - German Language Tutoring - 1cr.

AND

Elective Courses (6 credits)

Earn at least 6 credits from the following:

- CMST3330 - Intercultural Communication (DSS) - 3cr.
- GERM3116 - Popular Culture in the German-Speaking World - 3cr.
- GERM3117 - Stories and Storytelling: Young Voices & Cultural Identity - 3cr.
- GERM3118 - Berlin: Monuments, Multiculturalism, and Memory - 3cr.
- GERM3300 - Contemporary German Speaking Cultures (DHA) - 3cr.
- GERM3510 - Business German (CI) - 3cr.
- GERM3540 - Techniques in Translating German Texts (CI) -

3cr.
- GERM3550 - Cultural History of German Speaking Peoples (DHA) - 3cr.
- GERM3600 - Classic German Art and Literature (DHA) - 3cr.
- GERM3610 - Contemporary German Art and Literature (DHA)9 - 3cr.
- GERM3800 - German III Study Abroad - 1cr.
- GERM3880 - Individual Readings - 1cr.
- GERM4610 - German Narratives - 3cr.
- GERM4650 - Trends in Modern Germany (DHA) - 3cr.
- GERM4800 - German IV Study Abroad - 1cr.
- GERM4880 - Individual Readings - 1cr.
- GERM4900 - Special Topics - 3cr.
- GERM4910 - German for Special Purposes - 3cr.

Additional Comments:

NOTES:

1. SCED3300 CLINICAL EXPERIENCE I and LING5400 TEACHING MODERN LANGUAGES must be taken during the same semester, and should be the last courses taken for the minor. These courses should be taken the fall semester before student teaching. SCED3300 CLINICAL EXPERIENCE I and LING5400 TEACHING MODERN LANGUAGES are listed in both the STEP and minor requirements for those seeking the German Teaching minor/non-licensure so the non-licensure minors understand the complete list of minor requirements. See additional non-licensure information at bottom of page.
2. GERM3800 GERMAN III STUDY ABRD, GERM3880 INDIVIDUAL READINGS, GERM4800 GERMAN IV STUDY ABRD, GERM4880 INDIVIDUAL READINGS, GERM4900 SPECIAL TOPICS, and GERM4920 GERMAN LANGUAGE TUTOR are repeatable for additional credit.

Secondary Teacher Education Program (STEP) Licensure Requirement

Type

Completion Requirement

Secondary Teacher Education Program (STEP) - Languages, Philosophy, and Communication Studies (32 credits)

Courses for teaching emphases and the teaching minors may be subject to change, and students should contact the Secondary Education Advising Office for a current course list of STEP requirements.

Complete ALL of the following Courses:

- ITLS2500 - Technology Enabled Instruction - 3cr.
- LING5400 - Teaching Modern Languages - 3cr.
  AND SCED3300 - Clinical Experience I - 1cr.
- LING5500 - Student Teaching Seminar - 2cr.
- SCED3210 - Educational and Multicultural Foundations (DSS/CI) - 3cr.
- SCED5100 - Motivation and Classroom Management - 3cr.
- SCED5200 - Language, Literacy, and Learning in the Content Areas (CI) - 3cr.
- SCED5210 - Learning Theory, Curriculum, and Assessment - 3cr.
- SCED5630 - Student Teaching in Secondary Schools - 10cr.
- SPED4000 - Education of Students with Disabilities - 3cr.

NOTES:

1. The Special Methods II course is taught under course number 5400.
2. SCED3300 CLINICAL EXPERIENCE I and LING5400 TEACHING MODERN LANGUAGES must be taken during the same semester, and should be the last courses taken for the minor. These courses should be taken the fall semester before student teaching. SCED3300 CLINICAL EXPERIENCE I and LING5400 TEACHING MODERN LANGUAGES are listed in both the STEP and minor requirements for those seeking the French/German Teaching minor/non-licensure so the non-licensure minors understand the complete list of minor requirements. See non-licensure below.

Additional Comments:

Licensure Notification

This program typically leads to licensure and was designed to meet licensing qualifications in the state of Utah. If students wish to work in another state within the United States, they should review the qualifications for that state and the Education Licensure Compliance Table provided by School of Teacher Education and Leadership.

For more information, please contact the School of Teacher Education and Leadership at https://cehs.usu.edu/teal/

Related Programs

- German - Minor: 12 credits

German Teaching Emphasis Minor without Licensure (19 credits)

Type

Completion Requirement

Minor without Secondary School Licensure (19 credits)

It is possible to have a teaching emphasis within the minor in German without receiving secondary school teaching licensure. However, unless the student is an elementary education major, the student would not be able to teach in Utah public schools (nor at many private ones). Graduating without licensure may allow employment at community colleges and universities.

Fulfill ALL of the following requirements:

Required Courses (13 credits)

Complete ALL of the following Courses:

- GERM3040 - Advanced German Grammar & Culture (CI) - 3cr.
- GERM3300 - Contemporary German Speaking Cultures (DHA) - 3cr.
  OR GERM3550 - Cultural History of German Speaking Peoples (DHA) - 3cr.
- GERM4200 - Applied German Linguistics and Phonetics - 3cr.
- GERM4920 - German Language Tutoring - 1cr.
- LING5400 - Teaching Modern Languages - 3cr.

AND

Elective Courses (6 credits)

Earn at least 6 credits from the following:

- CMST3330 - Intercultural Communication (DSS) - 3cr.
- GERM3116 - Popular Culture in the German-Speaking World - 3cr.
- GERM3117 - Stories and Storytelling: Young Voices & Cultural Identity - 3cr.
- GERM3118 - Berlin: Monuments, Multiculturalism, and

Memory - 3cr.
- GERM3300 - Contemporary German Speaking Cultures (DHA) - 3cr.
- GERM3510 - Business German (CI) - 3cr.
- GERM3540 - Techniques in Translating German Texts (CI) - 3cr.
- GERM3550 - Cultural History of German Speaking Peoples (DHA) - 3cr.
- GERM3600 - Classic German Art and Literature (DHA) - 3cr.
- GERM3610 - Contemporary German Art and Literature (DHA)9 - 3cr.
- GERM3800 - German III Study Abroad - 1cr.
- GERM4610 - German Narratives - 3cr.
- GERM4650 - Trends in Modern Germany (DHA) - 3cr.
- GERM4800 - German IV Study Abroad - 1cr.
- GERM4880 - Individual Readings - 1cr.
- GERM4900 - Special Topics - 3cr.
- GERM4910 - German for Special Purposes - 3cr.

Program Learning Outcomes

Program Learning Outcomes

https://chass.usu.edu/languages/assessments

Geographic Information Science - Minor

Program Overview

College
College of Agriculture & Natural Resources

Department
Watershed Sciences

Program Level
Undergraduate

Program Requirements

Total Credits Required In Program Coursework
16-20

Total Credits Required To Earn This Credential
16-20

Simple Requisites

Program Requirements

All courses required for the Geographic Information Science minor must be taken on an *A-B-C-D-F* basis. A grade of *C-* or better is required for all WATS courses used to meet requirements for this minor.

Section 1

Type
Completion Requirement

A Required Courses (10 credits)

Complete ALL of the following Courses:
- GEOG2800 - Introduction to Geographic Information Sciences - 4cr.
- GEOG5500 - Advanced Geographic Information Sciences (GIS) - 3cr.
- GEOG4900 - GIS Individual Projects - 1cr.
- WILD4950 - Special Topics - 1cr.
- ***Take BOTH Python for ArcGIS and Python GIS Project under WILD4950 SPECIAL TOPICS***
- ***Other courses as approved by advisor***

Section 2

Type
Completion Requirement

B. Electives (6-10 credits)

Select two or more courses from the following:

Complete at least 2 of the following courses:
- CEE2240 - Engineering Surveying - 3cr.
- CEE5003 - Remote Sensing of Land Surfaces - 3cr.
- CEE6440 - Advanced Hydrology Through CUAHSI Virtual University - 1cr.
- ECE5930 - Special Topics in Electrical and Computer Engineering - 1cr.
- ENVS4950 - Special Topics - 1cr.
- ENVS5100 - Introduction to Modeling Human-Environment Systems - 3cr.
- WATS4960 - Directed Readings - 1cr.
- WATS4970 - Undergraduate Research - 1cr.
- WATS6850 - Geomorphic Change Detection: Restoration Monitoring - 1cr.
- WATS6900 - Graduate Special Topics - 1cr.
- WILD4950 - Special Topics - 1cr.

- WILD5750 - Applied Remote Sensing - 3cr.

Program Learning Outcomes

Program Learning Outcomes
https://qcnr.usu.edu/wats/assessment/undergraduate

Global Communication - BA

Program Overview

College	Department	Program Level
College of Arts & Sciences	Communication & Media	Undergraduate

About this Degree
The Global Communication major focuses students on building skills, attitudes, and knowledge as critical global citizens, competent intercultural communicators, and globally minded individuals. We do this through a variety of methodological approaches including the social scientific study of public discourse, the humanist study of cultural texts, and the qualitative and quantitative study of intercultural exchanges.

The Global Communication degree at USU is unique. This program is the only four-year degree dedicated to a robust understanding of global communication in Utah, and it is one of only a handful of programs nationwide. The program specializes in giving the students tools to understand cultural systems and prepare them to work effectively and meaningfully in an increasingly global environment.

- For more information about Global Communication, please see *Communication Studies and Philosophy* website.
- Please make sure to consult regularly with your departmental advisor to confirm what courses will be available and to work out your plan of study.
- Admitted and current students must meet with an academic advisor.
- Log on to Degree Works to check student-specific program progress.
- The highest math requirement for this degree is Quantitative Literacy (QL) course of the student's choice.

Admission Requirements for this Program
- New freshmen must be admitted to USU in Good Standing.
- Transfer students from other institutions or other programs at USU must have a 2.50 GPA.
- Grade Point Average to Apply for the Full Major in Global Communication: 2.0 overall GPA (application required; contact academic advisor for details)

Program Requirements

Total Credits Required In Program Coursework	Total Credits Required To Earn This Credential
40	120

Simple Requisites

Program Requirements

- **Credits in Residence**: Students must complete 20 credits of major applicable coursework at Utah State University
- **Credits in Major**: 40
- **Credits of Upper-Division Courses** (3000 or above): 34
- **Total Credits:** 40
- **Grade Point Average to Graduate with Major:** 2.5 GPA within major coursework
- **Credits in Residence:** At least half (50 percent) of the credits earned for this major must be completed in upper-division USU courses. All other credits (including transfer and study abroad credits) must be approved by the faculty or academic advisor in

order to be counted toward these degrees. As many as 19 credits completed at other colleges or universities may be used to partially satisfy these requirements. For more information, students should contact their advisor.

- **Minimum Grade Requirement:** All courses taken for the major require a minimum grade of **C-** or better. Courses taken for the major may not be taken on a pass/fail basis, **except** CMST5950 GLOBAL COMMUNICATION PRACT.
- **Notes:** Completion of any language minor or major will complete the second language requirement (e. g. Spanish, American Sign Language, Arabic).

Bachelor of Arts Degree Requirement

In addition to completion of the requirements for a bachelor's degree, a Bachelor of Arts (BA) degree signifies proficiency in one or more foreign languages. Please see Minimum University Requirements for Bachelor of Arts Degree Requirement for more details about the language requirements.

Global Communication Major Requirements (40 credits)

Type
Completion Requirement

A. Culture General Requirement (7 credits)

Students will be required to take the one-credit CMST5330 GLOBAL COMM SENIOR CAPSTONE course. This course is designed to be taken in their last year of study.

Complete ALL of the following Courses:

- CMST1330 - Introduction to Global Communication (BSS) - 3cr.
- CMST3330 - Intercultural Communication (DSS) - 3cr.

B. Global Communication Competence (9 credits)

Complete at least 3 of the following courses:

- CMST3270 - Culture and Public Discourse (DHA) - 3cr.
- CMST3730 - Culture and Global Intervention (DHA) - 3cr.
- CMST4270 - Communication, Culture, and Power - 3cr.
- CMST4330 - Advanced Perspectives in Global Communication (CI) - 3cr.

C. Communication Specialization Requirement (12 credits)

Three courses (9 credits) must be completed from the student's chosen Area of Specialization. Students must also take one additional course from the other area of specialization (3 credits):

Fulfill ALL of the following requirements:

Interpersonal and Organizational Communication Competence - Area of Specialization

Complete ANY of the following Courses:

- CMST2110 - Interpersonal Communication (BHU) - 3cr.
- CMST2120 - Group Collaboration and Decision Making - 3cr.
- CMST3250 - Organizational Communication (CI) - 3cr.
- CMST3280 - Organizations and Social Change - 3cr.
- CMST3400 - Persuasion - 3cr.
- CMST3600 - Communication and Conflict - 3cr.
- CMST4200 - Language, Thought, and Action (CI/DSS) - 3cr.
- CMST5110 - Advanced Interpersonal Communication - 3cr.
- CMST5400 - Advanced Persuasion - 3cr.
- CMST5500 - Communication and Leadership - 3cr.

AND

Public Communication Competence - Area of Specialization

Complete ANY of the following Courses:

- CMST3160 - Gender Communication - 3cr.
- CMST3270 - Culture and Public Discourse (DHA) - 3cr.
- CMST3730 - Culture and Global Intervention (DHA) - 3cr.
- CMST4260 - Environmental Communication - 3cr.
- CMST4270 - Communication, Culture, and Power - 3cr.
- CMST4330 - Advanced Perspectives in Global Communication (CI) - 3cr.
- CMST4700 - Health Communication (CI) - 3cr.
- CMST4750 - Strategic Health Messaging - 3cr.
- CMST4820 - Communication Criticism (CI) - 3cr.
- CMST5300 - Visual Rhetoric - 3cr.

D. Language/Culture Specific Requirement (9 credits)

Students must complete 3 classes (either 3 or 4 credits) of an upper division foreign language (3000 level or higher). *Important: All three courses must be from the same language.*

Students may instead complete any combination of 3 classes of upper division language requirements and approved World Affairs classes.

Fulfill ALL of the following requirements:

Language Course Options

Complete at least 3 of the following courses:

- ARBC3010 - Advanced Arabic I - 3cr.
- ARBC3020 - Advanced Arabic II - 3cr.
- ARBC3030 - Introduction to Islam (DHA) - 3cr.
- ARBC4040 - Language and Culture of the Arab World (DHA) - 3cr.
- CHIN3010 - Chinese Third Year I - 4cr.
- CHIN3020 - Chinese Third Year II - 4cr.
- CHIN3060 - Chinese Grammar and Composition - 3cr.
- CHIN3090 - Introduction to Modern Chinese Literature and Film - 3cr.
- CHIN3100 - Readings in Contemporary Chinese Culture (DHA) - 3cr.
- CHIN3510 - Chinese Business Presentations - 3cr.
- CHIN3520 - Chinese Business Strategies - 3cr.
- CHIN3540 - Translating into and from Chinese (CI) - 3cr.
- CHIN3600 - Contemporary Children's Literature in Chinese - 3cr.
- CHIN4010 - Chinese Multimedia - 3cr.
- CHIN4090 - Readings in Masterworks of Classical Chinese Fiction - 3cr.
- CHIN4100 - Teaching Chinese as a Foreign Language - 3cr.
- CHIN4210 - Chinese/Sinophone Theatre and Performance - 3cr.
- FREN3030 - Advanced French for Everyday Communication - 3cr.
- FREN3060 - French Intermediate Written Communication (CI) - 3cr.
- FREN3090 - French Intermediate Written Communication (CI) - 3cr. (Inactive)
- FREN3400 - Introduction to Translation - 3cr.
- FREN3500 - French and Francophone Authors (DHA) - 3cr.
- FREN3510 - Business French (CI) - 3cr.
- FREN3550 - French Civilization (DHA) - 3cr.
- FREN3570 - France Today - 3cr.
- FREN3600 - Textual Analysis - 3cr.
- FREN3700 - Francophone Music (CI) - 3cr.

- FREN4060 - Advanced French Conversation (CI) - 3cr.
- FREN4090 - Advanced Written Communication (CI) - 3cr.
- FREN4200 - French Linguistics and Phonetics - 3cr.
- FREN4610 - Studies in French Literature and Culture (DHA) - 3cr.
- FREN4620 - Genre Studies in French Literature (DHA) - 3cr.
- FREN4630 - French and Francophone Fairy Tales (DHA) - 3cr.
- FREN4640 - Exploring the French and Francophone Short Story - 3cr.
- GERM3000 - Introduction to German Studies (DHA) - 3cr.
- GERM3040 - Advanced German Grammar & Culture (CI) - 3cr.
- GERM3300 - Contemporary German Speaking Cultures (DHA) - 3cr.
- GERM3510 - Business German (CI) - 3cr.
- GERM3540 - Techniques in Translating German Texts (CI) - 3cr.
- GERM3550 - Cultural History of German Speaking Peoples (DHA) - 3cr.
- GERM3600 - Classic German Art and Literature (DHA) - 3cr.
- GERM3610 - Contemporary German Art and Literature (DHA)9 - 3cr.
- GERM4200 - Applied German Linguistics and Phonetics - 3cr.
- GERM4600 - Faust's Legacy - 3cr.
- GERM4610 - German Narratives - 3cr.
- GERM4650 - Trends in Modern Germany (DHA) - 3cr.
- JAPN3010 - Japanese Third Year I - 4cr.
- JAPN3020 - Japanese Third Year II - 4cr.
- JAPN3090 - Introduction to Japanese Literature - 3cr.
- JAPN3100 - Readings in Contemporary Japanese Culture - 3cr.
- JAPN3510 - Japanese for the Business Environment - 3cr.
- JAPN3560 - Studies in Japanese Film - 3cr.
- PORT3040 - Advanced Portuguese Grammar and Composition (CI) - 3cr.
- PORT3400 - Popular Music in the Portuguese-Speaking World - 3cr.
- PORT3510 - Business Portuguese - 3cr.
- PORT3540 - Introduction to Translation Studies in Portuguese - 3cr.
- PORT3570 - Brazilian Culture and Civilization (DHA) - 3cr.
- PORT3630 - Literatures of the Portuguese-Speaking World (DHA) - 3cr.
- PORT3700 - Contemporary Brazilian Cinema - 3cr.
- PORT3820 - Advanced Independent Study Abroad: Experiencing Lusophone Culture III - 2cr.
- PORT4000 - Contemporary Issues in Brazil - 3cr.
- PORT4100 - Trends in Lusophone Cultures - 3cr.
- PORT4200 - Brazilian Media in Global Context - 3cr.
- RUSS3040 - Advanced Russian Grammar and Composition - 3cr.
- RUSS3050 - Advanced Russian Grammar and Composition - 3cr.
- RUSS3300 - Contemporary Russian Language and Culture (DHA) - 3cr.
- RUSS3510 - Business Russian (CI) - 3cr.
- SPAN3040 - Advanced Spanish Grammar - 3cr.
- SPAN3060 - Advanced Spanish Conversation and Composition (CI) - 3cr.
- SPAN3100 - Spanish Healthcare - 3cr.
- SPAN3300 - Introduction to Hispanic Literature and Literary Analysis - 3cr.
- SPAN3400 - Introduction to Hispanic Cinema - 3cr.
- SPAN3510 - Business Spanish - 3cr.
- SPAN3550 - Spanish Culture and Civilization (DHA) - 3cr.
- SPAN3560 - Introduction to U.S. Latino/a Culture - 3cr.
- SPAN3570 - Hispanic American Culture and Civilization (DHA) - 3cr.
- SPAN3600 - Survey of Spanish Literature I (DHA) - 3cr.
- SPAN3610 - Survey of Spanish Literature II (DHA/CI) - 3cr.
- SPAN3620 - Survey of Hispanic American Literature I (DHA) - 3cr.
- SPAN3630 - Survey of Hispanic American Literature II (DHA) - 3cr.
- SPAN3640 - Introduction to U.S. Latino/a Literature - 3cr.
- SPAN4010 - Spanish for Social Services - 3cr.
- SPAN4200 - Introduction to Hispanic Linguistics - 3cr.
- SPAN4900 - Topics of Spanish Cultural Production - 3cr.
- SPAN4910 - Topics of Hispanic American Cultural Production - 3cr.
- SPAN4930 - Topics of U.S. Latina/o Literature and Culture - 3cr.
- SPAN5060 - Spanish for Professional and Academic Purposes - 3cr.

AND

World Affairs Options

Complete ANY of the following Courses:

- ANTH3120 - African Healing Systems - 3cr.
- ANTH3130 - Peoples of Latin America (CI) - 3cr.
- ANTH3180 - Peoples of the Middle East (DSS) - 3cr.
- ANTH3200 - Perspectives on Race (DSS/CI) - 3cr.
- ANTH3550 - Culture of East Asia (DHA) - 3cr.
- ANTH4100 - The Study of Language - 3cr.
- ANTH4115 - Tourism, Culture, and Development - 3cr.
- ANTH5110 - Southwest Indian Cultures, Past and Present (DSS) - 3cr.
- ANTH5140 - Anthropology of Global Health (CI) - 3cr.
- ENGL3610 - Multicultural American Literature - 3cr.
- HIST3230 - Early Modern Europe (DHA) - 3cr.
- HIST3240 - Modern Europe - 3cr.
- HIST3330 - Modern Russia and the Soviet Experiment - 3cr.
- HIST3410 - The Modern Middle East - 3cr.
- HIST3460 - Comparative Asian History (DHA) - 3cr.
- HIST3483 - Modern China 1800 to present (DHA) - 3cr.
- HIST3510 - Africa and the World (DHA) - 3cr.
- HIST3630 - History of Modern Latin America - 3cr.
- HIST3660 - History of Mexico (DHA) - 3cr.
- HIST3670 - Slavery in the Atlantic World (CI) - 3cr.
- HIST4290 - Europe and the French Revolution, 1700-1815 - 3cr.
- HIST4310 - History of Nationalism - 3cr.
- HIST4390 - European Imperialism - 3cr.
- HIST4810 - American Military History - 3cr.
- HIST4815 - World War I: A Global Conflict (DHA) - 3cr.
- HIST4820 - World War II in Europe - 3cr.
- HIST4821 - World War II in Asia (DHA) - 3cr.
- HIST4822 - The Vietnam War (DHA) - 3cr.
- LANG3550 - Culture of East Asia (DHA) - 3cr.
- LANG3570 - Narrative Ethics in Asian Literature and Film (DHA) - 3cr.
- LING4100 - The Study of Language - 3cr.

- LING4700 - Foundations of Dual Language and Immersion Education - 3cr.
- LING4900 - Analysis of Cross-Cultural Difference - 3cr.
- POLS2100 - Introduction to International Relations (BSS) - 3cr.
- POLS2200 - Comparative Politics (BSS) - 3cr.
- POLS3100 - Global Issues: Non-Democratic Politics - 3cr.
- POLS3200 - The Politics of Development (CI/DSS) - 3cr.
- POLS3210 - Western European Government and Politics (DSS) - 3cr.
- POLS3220 - Russian and East European Government and Politics (DSS) - 3cr.
- POLS3230 - Middle Eastern Government and Politics - 3cr.
- POLS3240 - African Government and Politics - 3cr.
- POLS3250 - Chinese Government and Politics (DSS) - 3cr.
- POLS3270 - Latin American Government and Politics (DSS) - 3cr.
- POLS3400 - United States Foreign Policy (DSS) - 3cr.
- POLS3410 - International Human Rights System - 3cr.
- POLS3430 - Political Geography (CI/DSS) - 3cr.
- POLS3700 - Terrorism and Counterterrorism - 3cr.
- POLS4210 - European Union Politics - 3cr.
- POLS4220 - Ethnic Conflict and Cooperation (CI/DSS) - 3cr.
- POLS4230 - Issues in Middle East Politics - 3cr.
- POLS4260 - Asian Government and Politics (DSS) - 3cr.
- POLS4280 - Peacebuilding After War - 3cr.
- POLS4410 - International Negotiations - 3cr.
- POLS4450 - United States and Latin America (CI) - 3cr.
- POLS4460 - National Security Policy - 3cr.
- POLS4462 - The US Intelligence Community - 3cr.
- POLS4463 - Grand Strategy and International Politics - 3cr.
- POLS4464 - Why Nations Fight? International Security in the 21st Century (DSS) - 3cr.
- POLS4470 - Foreign Policy in the Pacific - 3cr.
- POLS4500 - The Politics of Social Movements (DSS) - 3cr.
- POLS5140 - Law, Politics, and War - 3cr.
- POLS5210 - Comparative Political Change/Development - 3cr.
- POLS5270 - Latin American Politics and Development - 3cr.
- POLS5300 - Cyber Warfare and International Politics - 3cr.
- POLS5400 - National Security Strategy and Strategic Uncertainty - 3cr.
- POLS5480 - International Trade Policy - 3cr.
- POLS5770 - Strategic Culture - 3cr.
- PORT3540 - Introduction to Translation Studies in Portuguese - 3cr.
- PSY4240 - Multicultural Psychology (DSS) - 3cr.
- RELS3010 - Introduction to Buddhism (DHA) - 3cr.
- RELS3020 - Introduction to Hinduism (DHA) - 3cr.
- RELS3050 - Introduction to Christianity (DHA) - 3cr.
- RELS3060 - Introduction to Judaism (DHA) - 3cr.
- RELS3080 - Mormonism and the American Religious Experience (DHA) - 3cr.
- RELS4015 - Buddhism and the West - 3cr.
- RELS4230 - The History of Christianity in the West (DHA/CI) - 3cr.
- RELS4555 - Women in Buddhism - 3cr.
- RELS4560 - Women in Islam (DHA) - 3cr.
- RELS4730 - History of Black America (CI) - 3cr.
- SOC1020 - Social Problems (BSS) - 3cr.
- SOC2630 - Sociology of Race and Ethnicity (BSS) - 3cr.
- SOC2650 - Globalization and International Development (BSS) - 3cr.
- SOC3260 - Politics and Society in Post-Colonial States - 3cr.
- SOC3340 - Activism, Protest, and Social Movements (DSS) - 3cr.

E. Practicum (3 credits)

The practicum may not be **completed** (nor enrolled in concurrently) until students have applied and been accepted as a full major in Global Communication.

Student must also take CMST1330 INTRO TO GLOBAL COMM (BSS) and CMST3330 INTERCULTURAL COMM (DSS) *before* enrolling in CMST5950 GLOBAL COMMUNICATION PRACT.

It is best to have at least one year of study and coursework before the planned practicum semester. Students are responsible for arranging for their own practicum. Students are encouraged to find or create a practicum that is related to their personal interests and will serve their goals after graduation. The practicum should tie together various elements of the program through practical experience, in-service learning, or internship experience in a cultural community distinct from the student's own culture. The practicum plan should include at least 135 contact hours. Planning for the practicum early or as soon as the student is accepted into the full major is recommended. Approval for a particular practicum experience must be granted by the student's faculty advisor and the CSPH Department Head prior to the experience. Students should visit with the faculty advisor early in the decision process.

There are four options for a student to complete the practicum requirement.

- Option 1 – Global Studies/Travel - Student goes on a self-designed global engagement or an institutional (USU) experience. Both require going through the Office of Global Engagement at Utah State University.
- Option 2 – Local Intercultural Experience – Student works with advisor on finding a local intercultural experience.
- Option 3 Global Communication Portfolio – Student may use previous travel abroad experience providing it is approved by their assigned faculty advisor and the portfolio demonstrates they have learned the required intercultural knowledge, skills, and attitudes.
- Option 4 - Complete 12 credits from the Critical Global Citizenry Area of the major. Students doing option #4 are not required to enroll in CMST5950 GLOBAL COMMUNICATION PRACT. For all other options, students are required to enroll in CMST5950 GLOBAL COMMUNICATION PRACT.

See the academic advisor for more information about Global Communication practicum options and the Practicum Guidelines Information Packet.

Complete ALL of the following Courses:

- CMST5950 - Global Communication Practicum - 3cr.

Open Electives

Complete the following as needed:
Total elective credit is determined by General Education courses taken, degree type selected, additional credits earned, and any additional math or other prerequisite courses needed. Please consult your Academic Advisor for details.

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Bachelor's Degree)

Suggested Degree Maps

Degree Map Name
Suggested Degree Map - Global Communication BA
Total Degree Map Credits
121 - 130
Degree Map Effective Catalog Year
2027 -

Degree Map Narrative

- Following is a sample four-year plan. Please note that student-specific plans may differ.
- Meet with an academic advisor to create a specific plan that best fits your academic needs.
- The student is ultimately responsible for knowing and completing all degree requirements.
- Make sure you meet the registration requirements for each class by clicking the course link and checking any prerequisites or corequisites.
- Consultation with an advisor may result in an altered plan customized for an individual student.
- Check your Degree Works for requirements and completion.

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	15 - 17	0

Requirement Select
- CMST1330 - Introduction to Global Communication (BSS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Breadth Requirement (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Breadth Requirement (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Breadth Requirement (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Lower-Division Language or Elective (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 5
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	15 - 18	0

Requirement Select
- Communications Literacy (CL1) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Breadth Requirement (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Quantitative Literacy (QL) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Breadth Requirement (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Lower-Division Language or Elective (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 5
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	15 - 17	0

Requirement Select
- Communications Literacy (CL2) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Communication Specialization Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Required minor course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Breadth Requirement (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Lower-Division Language or Elective (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 5
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	15 - 17	0

Requirement Select
- Communication Specialization Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Communication Specialization Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Required minor course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Lower-Division Language or Elective (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 5
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Fall	15	0

Requirement Select
- CMST3330 - Intercultural Communication (DSS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Critical Global Citizenry Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Language/Culture Required Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Upper-Division Language Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Required Minor Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Spring	15	0

Requirement Select
- Critical Global Citizenry Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Language/Culture Required Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Communication Specialization Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Quantitative Intensive (QI) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Communications Intensive (CI) Courses

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Fall	15	0

Requirement Select
- Critical Global Citizenry Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Language/Culture Required Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Communications Intensive (CI) Courses

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Upper-Division Required Minor Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Upper-Division Required Minor Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Spring	16	0

Requirement Select
- CMST5330 - Global Communication Senior Capstone

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- CMST5950 - Global Communication Practicum

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Communication Specialization Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Upper-Division Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Upper-Division Required Minor Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Upper-Division Required Minor Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits
0

Total Major Credits
0

Total Minor Credits
0

Total Elective Credits
0

Program Learning Outcomes

Program Learning Outcomes

https://artsci.usu.edu/communication-media/communication-studies/assessments/communication-studies

Global Peacebuilding - Certificate

Program Overview

College
College of Arts & Sciences

Department
School of Social Sciences

Program Level
Undergraduate

About this Degree

The certificate provides focus on multidisciplinary academic understanding of the historical and contemporary causes of global conflict and efforts to create peace, while building practical skills in conflict resolution, mediation, and other forms of peacebuilding praxis.

Program Requirements

Total Credits Required In Program Coursework
21

Total Credits Required To Earn This Credential
21

Simple Requisites

Program Requirements
- Minimum GPA for Admissions: 2.5
- Cumulative Minimum GPA in Certificate Coursework for Graduation: 2.5
- Cumulative Number of Required Credits: 21
- Courses may not be taken on a pass/fail basis except for those courses which are only taught pass/fail.

Global Peacebuilding - Certificate

Type
Completion Requirement

Lower-Division Requirements (6 credits)

Students must complete two courses (6 credits) at the 1000- or 2000-level.

Fulfill ALL of the following requirements:

Lower-Division Requirements

Complete ALL of the following Courses:
- PI2010 - Introduction to Peace Building and Transformative Conflict (BHU) - 3cr.

AND

Lower-Division Requirements

Complete at least 1 of the following courses:
- CMST1330 - Introduction to Global Communication (BSS) - 3cr.
- HIST1510 - The Modern World (BHU) - 3cr.
- POLS2100 - Introduction to International Relations (BSS) - 3cr.
- POLS2500 - Introduction to International Studies (BSS) - 3cr.
- RELS1070 - Religion, Violence, and Peace (BHU) - 3cr.
- RELS1090 - Introduction to Interfaith Leadership (BHU) - 3cr.
  OR ANTH1090 - Introduction to Interfaith Leadership (BHU) - 3cr.

- SOC2650 - Globalization and International Development (BSS) - 3cr.
- SW1010 - Introduction to Social Welfare (BSS) - 3cr.

Upper-Division Requirements (15 credits)

Students must complete upper-division courses from each of the two areas (A, and B) below for a total of 15 credits.

Fulfill ALL of the following requirements:

Area A. Global Conflict, Peace and Human Rights (6 credits)

Earn at least 6 credits from the following:

- ANTH4200 - The Anthropology of War - 3cr.
- CAI5000 - Foundations of Anticipatory Intelligence - 3cr.
- CAI5300 - Art and Science of Anticipation - 3cr.
- CAI5540 - Future Space Security - 3cr.
- CMST3270 - Culture and Public Discourse (DHA) - 3cr.
- CMST3330 - Intercultural Communication (DSS) - 3cr.
- CMST3730 - Culture and Global Intervention (DHA) - 3cr.
- CMST4270 - Communication, Culture, and Power - 3cr.
- CMST5500 - Communication and Leadership - 3cr.
- ENGL3385 - Postcolonial World Literature - 3cr.
- ENGL3395 - World Literature in Translation - 3cr.
- ENVS4030 - Building Community Environmental Resilience - 3cr.
- HIST3340 - Holocaust History and Memory (DHA) - 3cr.
- HIST4540 - Gender, Violence, and Non-violence - 3cr.
- HIST4720 - The Civil Rights Movement (DHA/CI) - 3cr.
- HIST4815 - World War I: A Global Conflict (DHA) - 3cr.
- HIST4820 - World War II in Europe - 3cr.
- HIST4821 - World War II in Asia (DHA) - 3cr.
- HIST4822 - The Vietnam War (DHA) - 3cr.
- HIST4825 - Historical Roots of the War on Terror (DHA) - 3cr.
- JCOM4130 - Immersive Crisis Communication - 3cr.
- LING4900 - Analysis of Cross-Cultural Difference - 3cr.
- PHIL3530 - Environmental Ethics (DHA) - 3cr.
- POLS3400 - United States Foreign Policy (DSS) - 3cr.
- POLS3410 - International Human Rights System - 3cr.
- POLS3430 - Political Geography (CI/DSS) - 3cr.
- POLS4220 - Ethnic Conflict and Cooperation (CI/DSS) - 3cr.
- POLS4280 - Peacebuilding After War - 3cr.
- POLS4464 - Why Nations Fight? International Security in the 21st Century (DSS) - 3cr.
- POLS4500 - The Politics of Social Movements (DSS) - 3cr.
- RELS4825 - Historical Roots of the War on Terror (DHA) - 3cr.
- SOC2650 - Globalization and International Development (BSS) - 3cr.
- SOC3020 - Inclusive Leadership & Community Engagement (CI) - 3cr.
- SOC3310 - Environmental Justice - 3cr.
- SOC3340 - Activism, Protest, and Social Movements (DSS) - 3cr.
- SOC4620 - Sociology of the Environment and Natural Resources (DSS) - 3cr.
- TCR4220 - Technology and Activism - 3cr.

AND

Area B. Peacebuilding Skills and Career Development (9 credits required)

Fulfill ALL of the following requirements:

Area B. Requirement One (3 credits)

Complete ALL of the following Courses:

- PI4990 - Peacebuilding Capstone - 3cr.

AND

Area B. Requirement Two (6 credits)

Please note that with advisor's approval, students may use one course not listed here to satisfy up to 3 credits of this requirement if undertaken as part of an HPI-approved study abroad experiential learning opportunity.

Earn at least 6 credits from the following:

- ANTH3165 - Bridging Religious Difference in Theory and Practice: an Introduction to Interfaith Leadership - 3cr.
- CMST3600 - Communication and Conflict - 3cr.
- CMST5600 - Advanced Communication and Conflict - 3cr.
- PI3110 - Transformative Mediation - 3cr.
- PI4910 - Special Studies in Heravi Peace Institute - 1cr.
- PI4940 - Peacebuilding Internship - 1cr.
- POLS4410 - International Negotiations - 3cr.
- RELS3110 - Transformative Mediation - 3cr.
- RELS3165 - Bridging Religious Difference in Theory and Practice: an Introduction to Interfaith Leadership - 3cr.
- SW3580 - Crisis Intervention Response - 3cr.
- SW3850 - Spirituality and Social Work - 3cr.
- SW4925 - Resilience and Human Flourishing - 3cr.
- SW5580 - Grief and Loss in Social Work Practice - 3cr.
- SW5920 - Trauma and Resilience - 3cr.

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Undergraduate Academic or Technical Certificates)

Program Learning Outcomes

Program Learning Outcomes

https://chass.usu.edu/history/assessments

German - Minor

Program Overview

College
College of Arts & Sciences

Department
World Languages and Cultures

Program Level
Undergraduate

About this Degree

The German minor prepares students for a high level of language proficiency in a variety of professional and academic contexts, as well as developing durable intercultural competence skills, analytical skills, critical thinking skills, and communication skills. The German program offers many opportunities for cultural activities, tutoring, and study abroad.

Admission Requirements for this Program

2.0 GPA minimum

Program Requirements

Total Credits Required In Program Coursework
12

Total Credits Required To Earn This Credential
12

Simple Requisites

Program Requirements

- **Total Credits:** 12
- **Minimum Grade Requirement:** All courses taken for this minor require a minimum grade of **C-** of better. Courses for the minor *may not* be taken on a pass/fail basis.

German - Minor

Type
Completion Requirement

Required Courses (12 credits)

Earn at least 12 credits from the following:

- GERM3000 - Introduction to German Studies (DHA) - 3cr.
- GERM3040 - Advanced German Grammar & Culture (CI) - 3cr.
- GERM3050 - Advanced German Conversation (CI) - 3cr.
- GERM3116 - Popular Culture in the German-Speaking World - 3cr.
- GERM3117 - Stories and Storytelling: Young Voices & Cultural Identity - 3cr.
- GERM3118 - Berlin: Monuments, Multiculturalism, and Memory - 3cr.
- GERM3300 - Contemporary German Speaking Cultures (DHA) - 3cr.
- GERM3510 - Business German (CI) - 3cr.
- GERM3540 - Techniques in Translating German Texts (CI) - 3cr.
- GERM3550 - Cultural History of German Speaking Peoples (DHA) - 3cr.
- GERM3600 - Classic German Art and Literature (DHA) - 3cr.
- GERM3610 - Contemporary German Art and Literature (DHA)9 - 3cr.
- GERM3750 - German Legends and Fairy Tales - 3cr.
- GERM3800 - German III Study Abroad - 1cr.
- GERM3880 - Individual Readings - 1cr.
- GERM4200 - Applied German Linguistics and Phonetics - 3cr.
- GERM4610 - German Narratives - 3cr.
- GERM4650 - Trends in Modern Germany (DHA) - 3cr.
- GERM4800 - German IV Study Abroad - 1cr.
- GERM4880 - Individual Readings - 1cr.
- GERM4900 - Special Topics - 3cr.
- GERM4910 - German for Special Purposes - 3cr.
- GERM4920 - German Language Tutoring - 1cr.

NOTES:

Only 1 credit of GERM4920 GERMAN LANGUAGE TUTOR may count toward the German minor.

Additional Comments:

Related Program:
German Teaching Emphasis - Minor

Program Learning Outcomes

Program Learning Outcomes

https://chass.usu.edu/languages/assessments

General Studies - Agriculture - BA, BS

Program Overview

College	Department	Program Level
College of Agriculture & Natural Resources	College of Agriculture & Natural Resources	Undergraduate

About this Degree

Please contact an advisor for more information regarding this program.

Transfer and Undeclared students:
University Advising

Location: Merrill-Cazier Library (LIB) 239
Phone: (435) 797-3394
Advisor: Mykel Beorchia

Students in the College of Agriculture and Applied Sciences:
CAAS Advising Center

Location: Agricultural Sciences (AGRS) 417
Phone: (435) 797-3096
Advisor: Dawnetta Mahnken

Program Requirements

Total Credits Required To Earn This Credential

120

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Bachelor's Degree)

Program Learning Outcomes

Program Learning Outcomes

https://www.usu.edu/oda/assessment/

General Studies - Arts and Humanities (CCA) - BA, BS

Program Overview

College	Department	Program Level
College of Arts & Sciences	College of Arts & Sciences	Undergraduate

About this Degree

Please contact the advising office for the College of Arts and Science for more information regarding this program at https://artsci.usu.edu/advising/.

Program Requirements

Total Credits Required To Earn This Credential

120

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Bachelor's Degree)

Program Learning Outcomes

Program Learning Outcomes

https://www.usu.edu/oda/assessment/

General Studies - Human Services - BA, BS

Program Overview

College	Department	Program Level
College of Education & Human Services	Instructional Technology & Learning Sciences, Human Development and Family Studies, College of Education and Human Services	Undergraduate

About this Degree

Please contact the Emma Eccles Jones College of Education and Human Services' Office of Graduation, Educator Licensing, and Accreditation for more information regarding this program.

Location: Emma Eccles Jones Education (EDUC) 103
Phone: (435) 797-1443
Advisor: Lisa Christensen

Program Requirements

Total Credits Required To Earn This Credential

120

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Bachelor's Degree)

Program Learning Outcomes

Program Learning Outcomes

https://www.usu.edu/oda/assessment/

General Studies - Arts and Humanities (CHASS) - BA, BS

Program Overview

College	Department	Program Level
College of Arts & Sciences	College of Arts & Sciences	Undergraduate

About this Degree

Please contact the College of Humanities and Social Sciences Advising Center for more information regarding this program.

CHaSS Advising Center
Location: Old Main 106
Phone: (435) 797-3883
Advisor: Tom Liljegren

The General Studies major in the Humanities though the College of Humanities and Social Sciences is intended to serve the needs of students who want to design a more individualized academic program that can allow students to pursue an interdisciplinary coursework centered in the humanities.

Admission Requirements for this Program

Students may apply for admission to the General Studies major in the Humanities after completing 30 credits with a minimum GPA of 2.00. Students who wish to pursue the General Studies in the Humanities must submit an application online through the CHaSS Advising Center to apply to the program. The application will be reviewed by and discussed with an academic advisor. Students will then work with an academic advisor to create a plan for the major in Degree Works.

Program Requirements

Total Credits Required To Earn This Credential

120

Simple Requisites

Program Requirements

- **Total Credits:** 30
- **Interdisciplinary Focus:** Courses used for the major must include at least 30 credits from the humanities.
- **Upper Division Coursework:** At least 21 of the 30 credits must be at the 3000 level and above.
- **Internship Credit or Capstone Experience:** While not required, it is strongly recommended that you complete an internship as part of your major.
- **Minimum Grade Point Average to Apply to and Graduate in General Studies:** 2.00 USU GPA
- **Credits in Residence:** At least half (50 percent) of the credits earned for the General Studies major must be earned at USU. As many as 15 credits completed at other colleges or universities may be used to partially satisfy major requirements. For more information, students should contact their advisor.

Students can pursue a **BA** or **BS** degree.

Bachelor of Science Degree

Students desiring a (BS) Bachelor of Science degree must complete all major requirements.

Bachelor of Arts Degree

Students desiring a (BA) Bachelor of Arts degree must complete the language proficiency requirements in one of the following ways in addition to the Bachelor of Science (BS) degree requirements. See Minimum University Requirements (Bachelor's Degree) for language requirments.

Credits

Type
Completion Requirement

Total credits:
120

Minimum University Requirements

Minimum University Requirements
Minimum University Requirements (Bachelor's Degree)

Program Learning Outcomes

Program Learning Outcomes
https://www.usu.edu/oda/assessment/

General Studies - Natural Resources - BA, BS

Program Overview

College
College of Agriculture & Natural Resources

Department
College of Agriculture & Natural Resources

Program Level
Undergraduate

About this Degree
Please contact the S.J. and Jessie E. Quinney College of Natural Resources Advising Center for more information regarding this program.

NR Advising Center
Location: Natural Resources (NR) 120
Phone: (435) 797-3375
Advising: qcnr.usu.edu/advising/

Program Requirements

Total Credits Required In Program Coursework

Total Credits Required To Earn This Credential
120

Minimum University Requirements

Minimum University Requirements
Minimum University Requirements (Bachelor's Degree)

Program Learning Outcomes

Program Learning Outcomes
https://www.usu.edu/oda/assessment/

General Studies - Policy and Administration - BA, BS

Program Overview

College
College of Arts & Sciences

Department
College of Arts & Sciences

Program Level
Undergraduate

Program Requirements

Total Credits Required To Earn This Credential
120

General Studies - Science - BA, BS

Program Overview

College
College of Arts & Sciences

Department
College of Arts & Sciences

Program Level
Undergraduate

About this Degree
Please contact the College of Science Advising Center for more information regarding this program.

COS Advising Center
Location: Eccles Science Learning Center (ESLC) 245
Phone: (435) 797-2481
Advisor: JanaLee Johnson

Program Requirements

Total Credits Required To Earn This Credential
120

Minimum University Requirements

Minimum University Requirements
Minimum University Requirements (Bachelor's Degree)

Program Learning Outcomes

Program Learning Outcomes
https://www.usu.edu/oda/assessment/

General Studies - Social Sciences - BA, BS

Program Overview

College	Department	Program Level
College of Arts & Sciences	College of Arts & Sciences	Undergraduate

About this Degree

Please contact the College of Humanities and Social Sciences Advising Center for more information regarding this program.

CHaSS Advising Center
Location: Old Main 106
Phone: (435) 797-3883
Advisor: Tom Liljegren

The General Studies major in the Social Sciences though the College of Humanities and Social Sciences is intended to serve the needs of students who want to design a more individualized academic program that can allow students to pursue an interdisciplinary coursework centered in the social sciences.

Admission Requirements for this Program

Students may apply for admission to the General Studies major in the Social Sciences after completing 30 credits with a minimum GPA of 2.00. Students who wish to pursue the General Studies in the Social Sciences must submit an application online through the CHaSS Advising Center to apply to the program. The application will be reviewed by and discussed with an academic advisor. Students will then work with an academic advisor to create a plan for the major in Degree Works.

Program Requirements

Total Credits Required To Earn This Credential

120

Simple Requisites

Program Requirements

- Total Credits: 30
- Interdisciplinary Focus: Courses used for the major must include at least 30 credits from the humanities.
- Upper Division Coursework: At least 21 of the 30 credits must be at the 3000 level and above.
- Internship Credit or Capstone Experience: While not required, it is strongly recommended that you complete an internship as part of your degree.
- Minimum Grade Point Average to Apply to and Graduate in General Studies: 2.00 USU GPA
- Credits in Residence: At least half (50 percent) of the credits earned for the General Studies major must be earned at USU. As many as 15 credits completed at other colleges or universities may be used to partially satisfy major requirements. For more information, students should contact their advisor.

Students can pursue a BA or BS degree.

Bachelor of Science Degree

Students desiring a (BS) Bachelor of Science degree must complete all major requirements.

Bachelor of Arts Degree

Students desiring a (BA) Bachelor of Arts degree must complete the language proficiency requirements in one of the following ways in addition to the Bachelor of Science (BS) degree requirements:

- Demonstration of proficiency in one foreign language by successful completion of one course at the 2020-level or higher (or its equivalent) OR
- Demonstration of proficiency in American Sign Language by successful completion of American Sign Language IV (COMD 4920) and Socio-Cultural Aspects of Deafness (COMD 4780), and by passing an exit interview OR
- Demonstration of proficiency in two foreign languages by successful completion of the 1020 course level in one language and the 2010 course level in the second language (or its equivalent) OR
- Completion of an upper-division (3000-level or higher) foreign language grammar or literature course requiring the 2020 course level (or its equivalent) as a prerequisite. Conversation courses cannot be considered for satisfying this requirement.

For nonnative English-speaking students only, the following options are available:

- Successful completion of the Intensive English Language Institute (IELI) program for international students OR
- TOEFL, Michigan, or IELI placement scores high enough to meet the University admission criteria.

Credits

Type
Completion Requirement

Total credits:
120

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Bachelor's Degree)

Program Learning Outcomes

Program Learning Outcomes

https://www.usu.edu/oda/assessment/

General Studies - Technology - BA, BS

Program Overview

College
College of Engineering

Department
College of Engineering

Program Level
Undergraduate

About this Degree

Please contact the College of Engineering Advising Center for more information regarding this program.

EN Advising Center
Phone: (435) 797-2705

Program Requirements

Total Credits Required To Earn This Credential
120

Minimum University Requirements

Minimum University Requirements
Minimum University Requirements (Bachelor's Degree)

Program Learning Outcomes

Program Learning Outcomes
https://www.usu.edu/oda/assessment/

Geography Teaching - Minor

Program Overview

College
College of Agriculture & Natural Resources

Department
Environment & Society

Program Level
Undergraduate

About this Degree

Geography is the study of space, place, and the relationships between people and our environment. With studies in geography, students learn essential skills to solve pressing problems at the local, national, and global scale. Geography is an interdisciplinary field that includes coursework in the physical and social sciences, combined with technical expertise in the field of geographic information science. This Geography Teaching minor prepares students to teach the subject of geography at the secondary schooling level.

Admission Requirements for this Program

A teaching minor in Geography **requires** an approved teaching major in another subject.

Program Requirements

Total Credits Required In Program Coursework
17

Total Credits Required To Earn This Credential
17

Simple Requisites

Program Requirements

All courses required for the Geography Teaching minor must be taken on an *A-B-C-D-F* basis. A grade of *C* or better is required for all GEOG courses taken to meet requirements for the minor. A minimum GPA of 2.5 is required for courses taken to complete the minor, but teaching licensure in the State of Utah requires a cumulative GPA of 3.0.

Students should make an appointment with an academic advisor in the S.J. and Jessie E. Quinney College of Agriculture and Natural Resources to add this minor: qanr.usu.edu/advising/.

Subject Courses

Type
Completion Requirement

Disciplinary Foundations in Geography (13 credits)

Complete ALL of the following Courses:

- GEOG1000 - Physical Geography (BPS) - 3cr.
- GEOG1300 - World Geography: Human and Environmental Dynamics (BSS) - 3cr.
  OR GEOG1400 - Human Geography (BSS) - 3cr.
- GEOG4210 - Geography of Utah - 3cr.
- GEOG2800 - Introduction to Geographic Information Sciences - 4cr.
  OR WILD2800 - Introduction to Geographic Information Sciences - 4cr.

Education Courses

Type
Completion Requirement

Geography Education Courses (4 credits)

Complete ALL of the following Courses:

- SCED3300 - Clinical Experience I - 1cr.
  OR SCED4300 - Clinical Experience II - 1cr.
- SCED3500 - Teaching Social Studies - 3cr.

Additional Comments:

Licensure Notification

This program typically leads to licensure and was designed to meet licensing qualifications in the state of Utah. If students wish to work in another state within the United States, they should review the qualifications for that state and the Education Licensure Compliance Table provided by School of Teacher Education and Leadership.

For more information, please contact the School of Teacher Education and Leadership at https://cehs.usu.edu/teal/

Program Learning Outcomes

Program Learning Outcomes

https://qanr.usu.edu/envs/about/assessment

General Theatre Studies - Minor

Program Overview

College	Department	Program Level
College of Arts & Sciences	Theatre Arts	Undergraduate

About this Degree

The General Theatre Studies Minor is designed to serve students who have experience in theatre and a strong interest in remaining actively involved, but do not have the time to commit to a theatre major. A limited number of minors are accepted each year, so early application is advised.

Admission Requirements for this Program

Admission into the Department of Theatre Arts General Studies Minor requires a 2.75 GPA and a separate application and interview with the department head. Acceptance is competitive and not guaranteed.

Program Requirements

Total Credits Required To Earn This Credential

20

Simple Requisites

Program Requirements

Annual Reviews are held for each minor student to determine satisfactory progress. These reviews determine if students will: (A) continue in the program (to continue, students must have demonstrated satisfactory progress and met the appropriate benchmarks); (B) be placed on programmatic probation (if a student fails to meet all benchmarks or has not made satisfactory progress, but in the opinion of the faculty has the potential to recover and meet the requirement within one semester's time, they may be placed on probation); (C) be discontinued from the program (if a student currently on probation fails to meet requirements within the specified time, or if their conduct is such that the faculty do not have confidence that the student will be able to meet requirements, even during a probationary period).

Section 1

Type
Completion Requirement

Required Theatre Arts Courses (20 credits)

Complete ALL of the following Courses:

- THEA1033 - Beginning Acting (BCA) - 3cr.
- THEA1513 - Stagecraft (BCA) - 3cr.
- THEA1713 - Playscript Analysis (BHU) - 3cr.
- THEA2203 - Costume Construction and Technology - 3cr.
- THEA2555 - Production Practicum - 1cr.
- THEA3710 - Theatre History and Literature I (DHA)(CI) - 3cr.
  OR THEA3720 - Theatre History and Literature II (CI/DHA) - 3cr.

NOTE:

1. THEA2555 PRODUCTION PRACTICUM must be repeated twice for a total of 2 credits.

Section 2

Type
Completion Requirement

Theatre Electives (3 credits)

Electives
Select any THEA-prefix course for 3 credits.

Program Learning Outcomes

Program Learning Outcomes
https://www.usu.edu/oda/assessment/

Humans and Animal-Assisted Interventions - Post-Bachelor's Certificate

Program Overview

College	Department	Program Level
College of Agriculture & Natural Resources	Animal, Dairy & Veterinary Sciences	Graduate

About this Degree

The Humans and Animal-Assisted Interventions (HAAI) Post-Bachelor's Certificate is a 12-credit program designed to provide students with a comprehensive understanding of the human-animal bond and its application in therapeutic settings. The curriculum includes four required courses.

The program emphasizes the theoretical foundations of human-animal interactions, explores the physiological and psychological benefits for diverse populations, and ensures students understand the ethical considerations and welfare needs of therapy animals.

This certificate prepares students for careers in fields such as mental health, occupational therapy, social work, and animal-assisted therapy programs, providing them with the knowledge and skills needed to implement effective and ethical animal-assisted interventions. The certificate can be pursued at both the undergraduate and post-bachelor's levels, enhancing professional opportunities in this growing field.

Program Requirements

Total Credits Required In Program Coursework	Total Credits Required To Earn This Credential
12	12

Simple Requisites

Program Requirements

Required Courses

Type
Completion Requirement

Complete the following courses:

Complete ALL of the following Courses:

- ADVS6710 - Conceptualizing the Human-Animal Bond - 3cr.
- ADVS6720 - Animal-Assisted Interventions and Special Populations - 3cr.
- ADVS6730 - Welfare and Behavior of Animals in Animal-Assisted Interventions - 3cr.
- ADVS6740 - Capstone in Humans and Animal-Assisted Interventions - 3cr.

Program Learning Outcomes

Program Learning Outcomes
https://qanr.usu.edu/advs/assessment/

Humans and Animal-Assisted Interventions - Certificate

Program Overview

College
College of Agriculture & Natural Resources

Department
Animal, Dairy & Veterinary Sciences

Program Level
Undergraduate

About this Degree

The Humans and Animal-Assisted Interventions (HAAI) Undergraduate Academic Certificate is a 12-credit program designed to provide students with a comprehensive understanding of the human-animal bond and its application in therapeutic settings. The program emphasizes the theoretical foundations of human-animal interactions, explores the physiological and psychological benefits for diverse populations, and ensures students understand the ethical considerations and welfare needs of therapy animals.

This certificate prepares students for careers in fields such as mental health, occupational therapy, social work, and animal-assisted therapy programs, providing them with the knowledge and skills needed to implement effective and ethical animal-assisted interventions. The certificate can be pursued at both the undergraduate and post-bachelor's levels, enhancing professional opportunities in this growing field.

Admission Requirements for this Program

Students must be declared in a bachelor's degree program.

Program Requirements

Total Credits Required In Program Coursework
12

Total Credits Required To Earn This Credential
12

Simple Requisites

Program Requirements

Required Courses

Type
Completion Requirement

Complete the following courses:

Complete ALL of the following Courses:

- ADVS5710 - Conceptualizing the Human-Animal Bond - 3cr.
- ADVS5720 - Animal-Assisted Interventions and Special Populations - 3cr.
- ADVS5730 - Welfare and Behavior of Animals in Animal-Assisted Interventions - 3cr.
- ADVS5740 - Capstone in Humans and Animal-Assisted Interventions - 3cr.

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Undergraduate Academic or Technical Certificates)

Program Learning Outcomes

Program Learning Outcomes

https://agnr.usu.edu/advs/assessment/

Healthcare Management - Minor

Program Overview

College
Jon M. Huntsman School of Business

Department
Management

Program Level
Undergraduate

Program Requirements

Total Credits Required In Program Coursework
12

Total Credits Required To Earn This Credential
12

Simple Requisites

Program Requirements

Section 1

Type
Completion Requirement

Required Courses (9 credits)

Complete ALL of the following Courses:

- MGT4500 - Principles of Healthcare Management - 3cr.
- MGT4510 - Innovation and Improvement in Healthcare Management - 3cr.
- MGT4520 - Healthcare Policy and Strategy - 3cr.

Section 2

Type
Completion Requirement

Elective Courses (3 credits)

Earn at least 3 credits from the following:

- ANTH4130 - Introduction to Medical Anthropology (DSS) - 3cr.
- CMST4700 - Health Communication (CI) - 3cr.
- CMST4750 - Strategic Health Messaging - 3cr.
- HEP3800 - Health Care Systems and Administration - 3cr.
- HEP4000 - Health Services Administration - 3cr.
- PHIL3500 - Healthcare Ethics (DHA) - 3cr.
- PSY3110 - Health Psychology - 3cr.
- SOC3330 - Medical Sociology (DSS) - 3cr.

Program Learning Outcomes

Program Learning Outcomes

https://huntsman.usu.edu/assessment/assessment-plan

Human Development and Family Studies - Minor

Program Overview

College
College of Education & Human Services

Department
Human Development and Family Studies

Program Level
Undergraduate

About this Degree

Examine the factors driving human development and the central role of family across the lifespan. Students gain a foundational understanding of social, cognitive, and emotional growth, alongside the study of family systems and interpersonal dynamics. This minor equips students to navigate diverse perspectives and apply developmental insights to a variety of professional fields.

Program Requirements

Total Credits Required In Program Coursework
15

Total Credits Required To Earn This Credential
15

Simple Requisites

Program Requirements

- **Credits:** 15 total
- **GPA:** 2.0 minimum in minor coursework
- **Minimum Grade:** C or higher (pass/fail not accepted)
- **Department Website:** https://cehs.usu.edu/hdfs/
- **Advisor:** Laura Holley (Laura.Holley@usu.edu)
- **To Declare:** Email Laura Holley (Laura.Holley@usu.edu) with your name and A number.

Human Development and Family Studies - Minor

Type
Completion Requirement

Required Courses (6 credits)

Complete ALL of the following Courses:

- HDFS1500 - Human Development Across the Lifespan (BSS) - 3cr.
- HDFS2400 - Couple and Family Relationships (BSS) - 3cr.

Elective Courses (9 credits)

Type
Completion Requirement

Elective Courses (9 credits)

Complete at least 3 of the following courses:

- HDFS1010 - Balancing Work and Family (BSS) - 3cr.
- HDFS2100 - Family Resource Management (BSS) - 3cr.
- HDFS2200 - Special Topics in Human Development and Family Studies - 3cr.
- HDFS2660 - Parenting and Child Guidance - 3cr.
- HDFS3100 - Abuse and Neglect in Family Context - 3cr.
- HDFS3110 - Human Sexuality - 3cr.
- HDFS3350 - Family Finance (DSS) - 3cr.
- HDFS3500 - Infancy and Childhood - 3cr.
- HDFS3540 - Adult Development and Aging - 3cr.
- HDFS3570 - Youth and Adolescence - 3cr.
- HDFS3700 - Mental Health Advocacy and Awareness - 3cr.
- HDFS4220 - Family Crises and Interventions - 3cr.
- HDFS4230 - Family and Social Policy - 3cr.
- HDFS4240 - Social and Family Gerontology - 3cr.
- HDFS4250 - Addictions and the Family - 3cr.
- HDFS4260 - Family Life Education Methods - 3cr.
- HDFS4550 - Preschool Methods and Curriculum - 3cr.
- HDFS4420 - Motivation and Medication in Addiction Treatment/Recovery - 3cr.
- PSY3700 - Mental Health Advocacy and Awareness - 3cr.

NOTE:

1. Students should be aware that **only** the HDFS courses listed above can be used to fulfill requirements for the minor.

Advisor: Laura Holley (Laura.Holley@usu.edu)
To Declare: Email Laura Holley with your name and A number.

Program Learning Outcomes

Program Learning Outcomes

https://cehs.usu.edu/about/assessment

Human Development and Family Studies - BA, BS

Program Overview

College
College of Education & Human Services

Department
Human Development and Family Studies

Program Level
Undergraduate

About this Degree

Students gain the skills to uncover the 'why' behind human behavior and family dynamics. The Human Development and Family Services (HDFS) Department's undergraduate major equips students to launch impactful careers. Students explore social, cognitive, and emotional development, and the influence of family relationships through in-depth academic study and applied learning. Gaining essential skills to navigate complex relationships, understand diverse perspectives, and become effective professionals.

A required practicum, a supervised real-world experience, enables students to apply developmental insights in diverse settings, including (but not limited to) youth mentoring programs, family resource centers, crisis intervention services, elder care facilities, and child development centers.

Students are well-prepared for graduate studies or direct employment, supported by personalized advising and long-term academic and career plans.

- **Student Registration Information Guide:**
  - New students: Detailed information for new students
  - Transfer students: Detailed information for transfer students
- **Personalized Plan:** Meet with an academic advisor to create a plan tailored to your specific needs.
- **Student Responsibility:** You are responsible for fulfilling all degree requirements.
- **Course Requirements:** Verify course prerequisites and corequisites by clicking on the course links.
- **Degree Progress:** Track your requirements and completion in Degree Works.
- **Math Requirements**: The math path for this degree is STAT1040 INTRO TO STATISTICS (QL) **or** STAT1045 INTRO STAT WITH ALGEBRA (QL).
- **HDFS Website:** Visit the website for more information about Human Development and Family Studies.

Degree Options:

- Bachelor of Arts (BA) in Human Development and Family Studies. See Undergraduate Academic Credential Requirements for language requirements.
- Bachelor of Science (BS) in Human Development and Family Studies

Emphasis Options:

While the formal emphases in Child Development, Family and Community Services, and Human Development are not currently offered, the HDFS curriculum remains rich in these areas. The department continues to provide a robust selection of coursework in these disciplines, allowing students to gain deep expertise and tailor their education to their specific career goals through our diverse department offerings.

Program Requirements

Total Credits Required In Program Coursework
53

Total Credits Required To Earn This Credential
120

Simple Requisites

Program Requirements

- **GPA and Coursework Standards:**
- A minimum 2.0 GPA and a grade of C or better in all major coursework (including pre-major and required statistics courses) are required for admission, continued enrollment, and graduation.
- HDFS major courses cannot be taken pass/fail.
- **Pre-Major Completion:**
- Students admitted to USU in good standing are initially placed in the HDFS pre-major.
- To formally enter the HDFS major, students must successfully complete HDFS1500 HUMAN DEV LIFESPAN (BSS), HDFS2000 CAREERS IN HDFS, HDFS2400 COUPLE & FAM RELATIONS (BSS) and choose one of STAT1040 INTRO TO STATISTICS (QL) or STAT1045 INTRO STAT WITH ALGEBRA (QL).

Human Development and Family Studies - BA

Type
Completion Requirement

HDFS Pre-Major Courses (10-12 credits)

Complete ALL of the following Courses:

- HDFS1500 - Human Development Across the Lifespan (BSS) - 3cr.
- HDFS2000 - Careers in Human Development and Family Studies (HDFS) - 1cr.
- HDFS2400 - Couple and Family Relationships (BSS) - 3cr.
- STAT1040 - Introduction to Statistics (QL) - 3cr.
  OR STAT1045 - Introduction to Statistics with Elements with Algebra (QL) - 5cr.

NOTE:

The Quantitative Literacy (QL) requirement will be satisfied by successful completion of STAT1040 INTRO TO STATISTICS (QL) or STAT1045 INTRO STAT WITH ALGEBRA (QL).

HDFS Core Courses (21 credits)

Earn at least 21 credits from the following:

- HDFS2660 - Parenting and Child Guidance - 3cr.
- HDFS3100 - Abuse and Neglect in Family Context - 3cr.
- HDFS3110 - Human Sexuality - 3cr.
- HDFS3130 - Research Methods (QI) - 3cr.
- HDFS3210 - Families and Cultural Diversity (CI) - 3cr.
- HDFS3350 - Family Finance (DSS) - 3cr.
- PSY3010 - Psychological Statistics (QI) - 3cr.
  OR SOC3120 - Social Statistics I (QI) - 3cr.

NOTE:

- The Communications Intensive (CI) requirement is satisfied by the successful completion of HDFS 3210 and HDFS 4900.
- The Quantitative Intensive (QI) requirement is satisfied by the successful completion of PSY 3010 and HDFS 3130.

Student-Selected HDFS Courses (16-18 credits)

Students must select at least 6 HDFS courses, of which at least 4 must be upper-division (3000-5000 level).

Complete at least 6 of the following courses:

- HDFS1010 - Balancing Work and Family (BSS) - 3cr.
- HDFS2100 - Family Resource Management (BSS) - 3cr.
- HDFS2200 - Special Topics in Human Development and Family Studies - 3cr.
- HDFS2600 - Seminar in Early Childhood Education - 2cr.
- HDFS2605 - Early Childhood Education Practicum - 2cr.
- HDFS3500 - Infancy and Childhood - 3cr.
- HDFS3540 - Adult Development and Aging - 3cr.
- HDFS3570 - Youth and Adolescence - 3cr.
- HDFS3700 - Mental Health Advocacy and Awareness - 3cr.
- HDFS4220 - Family Crises and Interventions - 3cr.
- HDFS4230 - Family and Social Policy - 3cr.
- HDFS4240 - Social and Family Gerontology - 3cr.
- HDFS4250 - Addictions and the Family - 3cr.
- HDFS4260 - Family Life Education Methods - 3cr.
- HDFS4550 - Preschool Methods and Curriculum - 3cr.
- HDFS4420 - Motivation and Medication in Addiction Treatment/Recovery - 3cr.

Professional Development and Applied Experience (Minimum 6 credits)

Fulfill ALL of the following requirements:

Professional Development

Complete ALL of the following Courses:

- HDFS4900 - Professional Development and Pre-Practicum (CI) - 3cr.

AND

Choose at least one work experience:

Students must complete a minimum of 3 credits in this area. Please note that some work experiences require additional prerequisites, necessitating careful advance planning.

Complete at least 1 of the following courses:

- HDFS4980 - Practicum in Human Development and Family Studies - 1cr.
- HDFS4960 - Practice Teaching in Child Development Laboratories - 3cr.
- HDFS4970 - Gerontology Practicum - 3cr.
- HDFS4950 - Research Practicum in Human Development and Family Studies - 1cr.
- HDFS4990 - Pre-Clinical Practicum in Human Development and Family Studies - 1cr.

NOTE:

1. HDFS4980 PRACTICUM IN HDFS - Enroll in 3 credits
2. HDFS4950 RESEARCH PRACTICUM HDFS - Enroll in 3 credits.
3. HDFS4990 PRE-CLINICAL PRACTICUM IN HDFS - Enroll in 3 credits.

Open Electives

Complete the following as needed:

Total elective credit is determined by General Education courses taken, degree type selected, additional credits earned, and any additional math or other prerequisite courses needed. Please consult your Academic Advisor for details.

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Bachelor's Degree)

Suggested Degree Maps

Degree Map Name
Suggested Degree Map - Human Development and Family Studies - BA, BS
Total Degree Map Credits
117 - 120
Degree Map Effective Catalog Year
2027 -

Degree Map Narrative

- Following is a sample four-year plan. Please note that student-specific plans may differ.
- Meet with an academic advisor to create a specific plan that best fits your academic needs.
- The student is ultimately responsible for knowing and completing all degree requirements.
- Make sure you meet the registration requirements for each class by clicking the course link and checking any prerequisites or corequisites.
- Consultation with an advisor may result in an altered plan customized for an individual student.
- Check your Degree Works for requirements and completion.

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	12 - 14	0

Requirement Select

- HDFS1500 - Human Development Across the Lifespan (BSS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- HDFS2000 - Careers in Human Development and Family Studies (HDFS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- USU1010 - University Connections

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select

- STAT1040 - Introduction to Statistics (QL)
  OR
- STAT1045 - Introduction to Statistics with Elements with Algebra (QL)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 5
Progress Credits	-
Contact Hours	3 - 5
Clinical	-
Criticality	No

Requirement Select

- Choose one Breadth General Education subject area listed below, then select one course within it. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Breadth Creative Arts (BCA) Course
  OR
- Breadth Humanities (BHU) Course
  OR
- Breadth Life Sciences (BLS) Course
  OR
- Breadth Physical Sciences (BPS) Course
  OR
- Breadth American Institutions (BAI) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	15 - 16	0

Requirement Select

- Communications Literacy (CL1) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- HDFS2400 - Couple and Family Relationships (BSS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- PSY3010 - Psychological Statistics (QI)
  OR
- SOC3120 - Social Statistics I (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Choose one Breadth General Education subject area listed below, then select one course within it. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Breadth Creative Arts (BCA) Course
  OR
- Breadth Humanities (BHU) Course
  OR
- Breadth Life Sciences (BLS) Course
  OR
- Breadth Physical Sciences (BPS) Course
  OR
- Breadth American Institutions (BAI) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Elective Course of your choice (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	12	0

Requirement Select

- HDFS2660 - Parenting and Child Guidance

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Communications Literacy (CL2) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- HDFS3350 - Family Finance (DSS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Choose one Breadth General Education subject area listed below, then select one course within it. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Breadth Creative Arts (BCA) Course
  OR
- Breadth Humanities (BHU) Course
  OR
- Breadth Life Sciences (BLS) Course
  OR
- Breadth Physical Sciences (BPS) Course
  OR
- Breadth American Institutions (BAI) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	18	0

Requirement Select

- Depth Humanities and Creative Arts (DHA) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Depth Life and Physical Sciences (DSC) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- HDFS3100 - Abuse and Neglect in Family Context

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- HDFS3130 - Research Methods (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- HDFS3210 - Families and Cultural Diversity (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Elective Course of your choice (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Fall	15	0

Requirement Select
- Elective Course of your choice (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- HDFS3110 - Human Sexuality

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Upper-Division Elective (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Upper-Division Elective (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Student-Selected HDFS Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Spring	15	0

Requirement Select
- Student-Selected HDFS Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- HDFS4900 - Professional Development and Pre-Practicum (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Elective Course of your choice (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective Course of your choice (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective Course of your choice (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Fall	15	0

Requirement Select
- Student-Selected HDFS Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Student-Selected HDFS Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective Course of your choice (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective Course of your choice (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective Course of your choice (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Spring	15	0

Requirement Select

- HDFS4980 - Practicum in Human Development and Family Studies

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	1 - 12
Clinical	-
Criticality	No

Requirement Select

- HDFS4980 Enroll in 3 credits. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Student-Selected HDFS Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Student-Selected HDFS Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Elective Course of your choice (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Elective Course of your choice (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Program Learning Outcomes

Program Learning Outcomes

https://cehs.usu.edu/about/assessment

Human Development and Family Studies - Child Development Emphasis - BA, BS

Program Overview

College
College of Education & Human Services

Department
Human Development and Family Studies

Program Level
Undergraduate

About this Degree

Graduates are prepared for professions assisting individuals across the lifespan: early childhood care and education, community education, financial counseling/ coaching, mental health, research, and human service settings.

Child Development Emphasis: This emphasis focuses on children's social, emotional, intellectual, and physical development and the environments that support optimal growth in these areas. The importance of relationships and early childhood education are also emphasized.

- **Student Registration Information Guide:**
  - New students: Detailed information for new students
  - Transfer students: Detailed information for transfer students
- **Personalized Plan:** Meet with an academic advisor to create a plan tailored to your specific needs.
- **Student Responsibility:** You are responsible for fulfilling all degree requirements.
- **Course Requirements:** Verify course prerequisites and corequisites by clicking on the course links.
- **Degree Progress:** Track your requirements and completion in Degree Works.
- **Math Requirements**: The math path for this degree is STAT1040 INTRO TO STATISTICS (QL) **or** STAT1045 INTRO STAT WITH ALGEBRA (QL).
- **HDFS Website:** Visit the website for more information about Human Development and Family Studies.

Degree Options:

- Bachelor of Arts (BA) in Human Development and Family Studies. See Undergraduate Academic Credential Requirements for language requirements.
- Bachelor of Science (BS) in Human Development and Family Studies

Program Requirements

Total Credits Required In Program Coursework
50

Total Credits Required To Earn This Credential
120

Simple Requisites

Program Requirements

- **GPA and Coursework Standards:**
- A minimum 2.0 GPA and a grade of C or better in all major coursework (including pre-major and required statistics courses) are required for admission, continued enrollment, and graduation.
- HDFS major courses cannot be taken pass/fail.
- **Pre-Major Completion:**
- Students admitted to USU in good standing are initially placed in the HDFS pre-major.
- To formally enter the HDFS major, students must successfully complete HDFS1500 HUMAN DEV LIFESPAN (BSS), HDFS2000 CAREERS IN HDFS, HDFS2400 COUPLE & FAM RELATIONS (BSS) and choose one of STAT1040 INTRO TO STATISTICS (QL), STAT1045 INTRO STAT WITH ALGEBRA (QL), STAT1080 FOUNDATIONS OF DATA SCI (QL).

Human Development and Family Studies - Child Development Emphasis - BA, BS

Type
Completion Requirement

HDFS Pre-Major Courses (10-12 credits)

Complete ALL of the following Courses:

- HDFS1500 - Human Development Across the Lifespan (BSS) - 3cr.
- HDFS2000 - Careers in Human Development and Family Studies (HDFS) - 1cr.
- HDFS2400 - Couple and Family Relationships (BSS) - 3cr.
- STAT1040 - Introduction to Statistics (QL) - 3cr.
  OR STAT1045 - Introduction to Statistics with Elements with Algebra (QL) - 5cr.
  OR STAT1080 - Foundations of Data Science (QL) - 3cr.

HDFS Core Courses (27 credits)

Complete ALL of the following Courses:

- PSY3010 - Psychological Statistics (QI) - 3cr.
  OR SOC3120 - Social Statistics I (QI) - 3cr.
- HDFS2660 - Parenting and Child Guidance - 3cr.
- HDFS3100 - Abuse and Neglect in Family Context - 3cr.
- HDFS3110 - Human Sexuality - 3cr.
- HDFS3130 - Research Methods (QI) - 3cr.
- HDFS3210 - Families and Cultural Diversity (CI) - 3cr.
- HDFS3350 - Family Finance (DSS) - 3cr.
- HDFS4900 - Professional Development and Pre-Practicum (CI) - 3cr.
- HDFS4980 - Practicum in Human Development and Family Studies - 1cr.

NOTE:

1. HDFS4980 PRACTICUM IN HDFS - Minimum of 3 credits required.

Additional Comments:
See Human Development and Family Studies - BA, BS for program requirements.

Child Development Emphasis Courses

Type
Completion Requirement

Required Courses (13 credits)

Complete ALL of the following Courses:

- HDFS3500 - Infancy and Childhood - 3cr.
- HDFS3550 - Infant Lab - 1cr.
- HDFS4550 - Preschool Methods and Curriculum - 3cr.
- HDFS4960 - Practice Teaching in Child Development Laboratories - 3cr.

Open Electives

Complete the following as needed:
Total elective credit is determined by General Education courses taken, degree type selected, additional credits earned, and any additional math or other prerequisite courses needed. Please consult your Academic Advisor for details.

Additional Comments:
See Human Development and Family Studies - BA, BS for Degree Map.

Minimum University Requirements

Minimum University Requirements
Minimum University Requirements (Bachelor's Degree)

Program Learning Outcomes

Program Learning Outcomes
https://www.usu.edu/oda/assessment/

Human Development and Family Studies - Family and Community Services Emphasis - BA, BS

Program Overview

College	Department	Program Level
College of Education & Human Services	Human Development and Family Studies	Undergraduate

About this Degree

Graduates are prepared for professions assisting individuals across the lifespan: early childhood care and education, community education, financial counseling/ coaching, mental health, research, and human service settings.

Family and Community Services Emphasis: In this research-guided emphasis, students learn to work with families across the lifespan. They develop strong skills in family life education, ethics, professionalism, and program development.

- **Student Registration Information Guide:**
  - New students: Detailed information for new students
  - Transfer students: Detailed information for transfer students
- **Personalized Plan:** Meet with an academic advisor to create a plan tailored to your specific needs.
- **Student Responsibility:** You are responsible for fulfilling all degree requirements.
- **Course Requirements:** Verify course prerequisites and corequisites by clicking on the course links.
- **Degree Progress:** Track your requirements and completion in Degree Works.
- **Math Requirements**: The math path for this degree is STAT1040 INTRO TO STATISTICS (QL) **or** STAT1045 INTRO STAT WITH ALGEBRA (QL).
- **HDFS Website:** Visit the website for more information about Human Development and Family Studies.

Degree Options:

- Bachelor of Arts (BA) in Human Development and Family Studies. See Undergraduate Academic Credential Requirements for language requirements.
- Bachelor of Science (BS) in Human Development and Family Studies

Program Requirements

Total Credits Required To Earn This Credential
120

Simple Requisites

Program Requirements

- **GPA and Coursework Standards:**
- A minimum 2.0 GPA and a grade of C or better in all major coursework (including pre-major and required statistics courses) are required for admission, continued enrollment, and graduation.
- HDFS major courses cannot be taken pass/fail.
- **Pre-Major Completion:**

- Students admitted to USU in good standing are initially placed in the HDFS pre-major.
- To formally enter the HDFS major, students must successfully complete HDFS1500 HUMAN DEV LIFESPAN (BSS), HDFS2000 CAREERS IN HDFS, HDFS2400 COUPLE & FAM RELATIONS (BSS) and choose one of STAT1040 INTRO TO STATISTICS (QL), STAT1045 INTRO STAT WITH ALGEBRA (QL), STAT1080 FOUNDATIONS OF DATA SCI (QL).

Human Development and Family Studies - Family and Community Services Emphasis - BA, BS

Type
Completion Requirement

HDFS Pre-Major Courses (10-12 credits)

Complete ALL of the following Courses:

- HDFS1500 - Human Development Across the Lifespan (BSS) - 3cr.
- HDFS2000 - Careers in Human Development and Family Studies (HDFS) - 1cr.
- HDFS2400 - Couple and Family Relationships (BSS) - 3cr.
- STAT1040 - Introduction to Statistics (QL) - 3cr.
  OR STAT1045 - Introduction to Statistics with Elements with Algebra (QL) - 5cr.
  OR STAT1080 - Foundations of Data Science (QL) - 3cr.

HDFS Core Courses (27 credits)

Complete ALL of the following Courses:

- PSY3010 - Psychological Statistics (QI) - 3cr.
  OR SOC3120 - Social Statistics I (QI) - 3cr.
- HDFS2660 - Parenting and Child Guidance - 3cr.
- HDFS3100 - Abuse and Neglect in Family Context - 3cr.
- HDFS3110 - Human Sexuality - 3cr.
- HDFS3130 - Research Methods (QI) - 3cr.
- HDFS3210 - Families and Cultural Diversity (CI) - 3cr.
- HDFS3350 - Family Finance (DSS) - 3cr.
- HDFS4900 - Professional Development and Pre-Practicum (CI) - 3cr.
- HDFS4980 - Practicum in Human Development and Family Studies - 1cr.

NOTE:

1. HDFS4980 PRACTICUM IN HDFS - Enroll in 3 credits.

Family and Community Services Emphasis (12 credits)

Type
Completion Requirement

Family Relations Course Options

Complete at least 3 of the following courses:

- HDFS4220 - Family Crises and Interventions - 3cr.
- HDFS4230 - Family and Social Policy - 3cr.
- HDFS4250 - Addictions and the Family - 3cr.
- HDFS4260 - Family Life Education Methods - 3cr.

Human Development Course Options

Complete at least 1 of the following courses:

- HDFS3500 - Infancy and Childhood - 3cr.
- HDFS3540 - Adult Development and Aging - 3cr.
- HDFS3570 - Youth and Adolescence - 3cr.
- HDFS4550 - Preschool Methods and Curriculum - 3cr.

Open Electives

Complete the following as needed:
Total elective credit is determined by General Education courses taken, degree type selected, additional credits earned, and any additional math or other prerequisite courses needed. Please consult your Academic Advisor for details.

Additional Comments:
See Human Development and Family Studies - BA, BS for Degree Map.

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Bachelor's Degree)

Program Learning Outcomes

Program Learning Outcomes

https://www.usu.edu/oda/assessment/

Human Development and Family Studies - Human Development Emphasis - BA, BS

Program Overview

College
College of Education & Human Services

Department
Human Development and Family Studies

Program Level
Undergraduate

About this Degree

Students gain the skills to uncover the 'why' behind human behavior and family dynamics. The Human Development and Family Services (HDFS) Department's undergraduate major equips students to launch impactful careers. Students explore social, cognitive, and emotional development, and the influence of family relationships through in-depth academic study and applied learning. Gaining essential skills to navigate complex relationships, understand diverse perspectives, and become effective professionals.

A required practicum, a supervised real-world experience, enables students to apply developmental insights in diverse settings, including (but not limited to) youth mentoring programs, family resource centers, crisis intervention services, elder care facilities, and child development centers.

Students are well-prepared for graduate studies or direct employment, supported by personalized advising and long-term academic and career plans.

- **Student Registration Information Guide:**
  - New students: Detailed information for new students
  - Transfer students: Detailed information for transfer students
- **Personalized Plan:** Meet with an academic advisor to create a plan tailored to your specific needs.
- **Student Responsibility:** You are responsible for fulfilling all degree requirements.
- **Course Requirements:** Verify course prerequisites and corequisites by clicking on the course links.
- **Degree Progress:** Track your requirements and completion in Degree Works.
- **Math Requirements**: The math path for this degree is STAT1040 INTRO TO STATISTICS (QL) **or** STAT1045 INTRO STAT WITH ALGEBRA (QL).
- **HDFS Website:** Visit the website for more information about Human Development and Family Studies.

Degree Options:

- Bachelor of Arts (BA) in Human Development and Family Studies. See Undergraduate Academic Credential Requirements for language requirements.
- Bachelor of Science (BS) in Human Development and Family Studies

Program Requirements

Total Credits Required To Earn This Credential

120

Simple Requisites

Program Requirements

- **GPA and Coursework Standards:**
- A minimum 2.0 GPA and a grade of C or better in all major coursework (including pre-major and required statistics courses) are required for admission, continued enrollment, and graduation.
- HDFS major courses cannot be taken pass/fail.
- **Pre-Major Completion:**
- Students admitted to USU in good standing are initially placed in the HDFS pre-major.
- To formally enter the HDFS major, students must successfully complete HDFS1500 HUMAN DEV LIFESPAN (BSS), HDFS2000 CAREERS IN HDFS, HDFS2400 COUPLE & FAM RELATIONS (BSS) and choose one of STAT1040 INTRO TO STATISTICS (QL), STAT1045 INTRO STAT WITH ALGEBRA (QL), STAT1080 FOUNDATIONS OF DATA SCI (QL).

Human Development and Family Studies - Human Development Emphasis - BA, BS

Type

Completion Requirement

HDFS Pre-Major Courses (10-12 credits)

Complete ALL of the following Courses:

- HDFS1500 - Human Development Across the Lifespan (BSS) - 3cr.
- HDFS2000 - Careers in Human Development and Family Studies (HDFS) - 1cr.
- HDFS2400 - Couple and Family Relationships (BSS) - 3cr.
- STAT1040 - Introduction to Statistics (QL) - 3cr.
  OR STAT1045 - Introduction to Statistics with Elements with Algebra (QL) - 5cr.
  OR STAT1080 - Foundations of Data Science (QL) - 3cr.

HDFS Core Courses (21 credits)

Complete ALL of the following Courses:

- PSY3010 - Psychological Statistics (QI) - 3cr.
  OR SOC3120 - Social Statistics I (QI) - 3cr.
- HDFS2660 - Parenting and Child Guidance - 3cr.
- HDFS3100 - Abuse and Neglect in Family Context - 3cr.
- HDFS3110 - Human Sexuality - 3cr.
- HDFS3130 - Research Methods (QI) - 3cr.
- HDFS3210 - Families and Cultural Diversity (CI) - 3cr.
- HDFS3350 - Family Finance (DSS) - 3cr.

NOTE:

1. HDFS3130 RESEARCH METHODS (QI) - Fulfills the Quantitative Intensive (QI) requirement.
2. HDFS3210 FAMILY/CULTURAL DIVERSITY (CI) and HDFS4900 PROF DEVT & PRE-PRACTICUM (CI) - Fulfills the Communications Intensive (CI) requirement.

Student-Selected HDFS Courses (16-18 credits)

Complete at least 6 of the following courses:

- HDFS1010 - Balancing Work and Family (BSS) - 3cr.
- HDFS2100 - Family Resource Management (BSS) - 3cr.
- HDFS2200 - Special Topics in Human Development and Family Studies - 3cr.
- HDFS2600 - Seminar in Early Childhood Education - 2cr.
- HDFS2605 - Early Childhood Education Practicum - 2cr.
- HDFS3450 - Consumer Credit Problems - 3cr.
- HDFS3500 - Infancy and Childhood - 3cr.
- HDFS3540 - Adult Development and Aging - 3cr.

- HDFS3570 - Youth and Adolescence - 3cr.
- HDFS3700 - Mental Health Advocacy and Awareness - 3cr.
- HDFS4220 - Family Crises and Interventions - 3cr.
- HDFS4230 - Family and Social Policy - 3cr.
- HDFS4240 - Social and Family Gerontology - 3cr.
- HDFS4250 - Addictions and the Family - 3cr.
- HDFS4260 - Family Life Education Methods - 3cr.
- HDFS4350 - Advanced Family Finance - 3cr.
- HDFS4460 - Financial Counseling and Coaching - 3cr.
- HDFS4550 - Preschool Methods and Curriculum - 3cr.
- HDFS5340 - Housing Finance and Regulations - 3cr.
- HDFS5460 - Financial Counseling Certification - 3cr.

Additional Comments:

Professional Development and Applied Experience (Minimum 6 credits)

Type
Completion Requirement

Professional Development (3 credits)

Complete ALL of the following Courses:

- HDFS4900 - Professional Development and Pre-Practicum (CI) - 3cr.

Work Experience (3 credits)

Students must complete a minimum of 3 credits in this area. Please note that some work experiences require additional prerequisites, necessitating careful advance planning.

Complete at least 1 of the following courses:

- HDFS4960 - Practice Teaching in Child Development Laboratories - 3cr.
- HDFS4970 - Gerontology Practicum - 3cr.
- HDFS4980 - Practicum in Human Development and Family Studies - 1cr.
- HDFS5950 - Financial Counseling Practicum - 3cr.
- HDFS4950 - Research Practicum in Human Development and Family Studies - 1cr.

NOTE:

1. HDFS4980 PRACTICUM IN HDFS - Enroll in 3 credits.
2. HDFS4950 RESEARCH PRACTICUM HDFS - Enroll in 3 credits.

Open Electives

Complete the following as needed:
Total elective credit is determined by General Education courses taken, degree type selected, additional credits earned, and any additional math or other prerequisite courses needed. Please consult your Academic Advisor for details.

Additional Comments:
See Human Development and Family Studies - BA, BS for Degree Map.

Minimum University Requirements

Minimum University Requirements
Minimum University Requirements (Bachelor's Degree)

Program Learning Outcomes

Program Learning Outcomes
https://www.usu.edu/oda/assessment/

Human Development and Family Studies - MHDFS

Program Overview

College
College of Education & Human Services

Department
Human Development and Family Studies

Program Level
Graduate

About this Degree

This program is open exclusively to students currently admitted to Human Development and Family Studies (HDFS) graduate programs.

The Master of Human Development and Family Studies (MHDFS) program is a Plan C/Non-thesis designed to prepare students for professional roles providing education and services to individuals and families in applied settings. The MHDFS is a practice-oriented degree especially suitable for individuals already working in the family or social services sectors, education, or corrections, and for those who seek employment in applied settings. The MHDFS is not a therapy training degree; a person completing this degree is not eligible to become a licensed therapist or counselor. The MHDFS program will, however, provide excellent preparation for those wanting to gain a greater understanding of children, youth, and families to optimize their ability to provide services and education. MHDFS students work closely with one faculty mentor to develop their own independent capstone project. Because an MHDFS student specializes in a project under the mentorship of a faculty member, understanding the research interests of our faculty may be of interest for prospective MHDFS applicants.

In place of a thesis, they participate in a graduate practicum, and they complete a capstone paper or projects. For more specific information, see the department's Graduate Student Handbook online at: cehs.usu.edu/hdfs/graduate/handbook.

Program Requirements

Total Credits Required In Program Coursework
30

Total Credits Required To Earn This Credential
30

Simple Requisites

Program Requirements

In addition to the department's requirements, the following are the School of Graduate Studies guidelines and are the minimum requirements for students to complete a degree.

Degree Verification
A bachelor's degree from an accredited U.S. college or university or a similarly recognized international university is required for admission to and completion of a graduate program.

Overall Graduate GPA at least 3.0 and no grades of C- or lower
Graduate students are required to maintain at least a 3.0 GPA for degree-program courses. Grades of C- or lower will not be accepted for a graduate degree. Graduate Students may earn no more than two "C's" in their courses.

Course Number Acceptability
The Program of Study for a master's degree must include at least 18 semester credits at the level of 6000 or above. The program of study for a master's degree cannot include more than 12 semester credits of courses below the 6000 level. Credits in the following areas are not acceptable in a degree program: foreign languages (unless included in an approved Program of Study), continuing graduate advisement, individual home study, military science, and courses numbered below 6000.

Matriculation Start Semester
A master's degree must be completed within six years of entering the degree program. Additional time may be requested by the student's committee and submitted to the Vice Provost of Graduate Studies for review.

Coursework Validity
Coursework over eight years old at the time of degree completion may not be used for a graduate degree unless it is revalidated by the Vice Provost of Graduate Studies.

- **Master's Forms:**
  - Approval of academic forms required for master's students by the School of Graduate Studies
    - Supervisory Committee
    - Program of Study
      - (Professional/Plan C students cannot use any thesis/dissertation credits on Program of Study.)

Program Core Requirements (18 credits)

Type
Completion Requirement

Core Courses

Complete ALL of the following Courses:

- EDUC6050 - Applied Statistical Analysis - 3cr.
- HDFS6031 - Research Methodology - 3cr.
- HDFS6060 - Human Development Theories - 3cr.
- HDFS6070 - Family Theories - 3cr.
- HDFS6500 - Master of Human Development and Family Studies Capstone - 3cr.
- HDFS6980 - Master of Human Development and Family Studies Practicum - 1cr.

NOTE:

1. HDFS6980 MHDFS PRACTICUM - Enroll in 3 credits.

Human Development and Family Relations (6 credits)

Type
Completion Requirement

Course Requirements

Complete at least 2 of the following courses:

- HDFS6010 - Family Research and Application - 3cr.
- HDFS6020 - Human Development Research and Application - 3cr.
- HDFS6220 - Interpersonal Family Relationships - 3cr.
- HDFS6510 - Development in Infancy - 3cr.
- HDFS6520 - Development in Childhood - 3cr.
- HDFS6530 - Development in Adolescence - 3cr.
- HDFS6540 - Adulthood and Aging - 3cr.
- HDFS6910 - Parenting - 3cr.

Contemporary Issues (3 credits)

Type
Completion Requirement

Contemporary Issues (3 credits)

Complete at least 1 of the following courses:

- HDFS6210 - Cultural Diversity in Families - 3cr.
- HDFS6230 - Family and Social Policy - 3cr.
- HDFS6240 - Race, Gender, and Social Justice - 3cr.

Elective Credit (3 credits)

Type
Completion Requirement

Elective Course Options

May include any of the Human Development and Family Relations or Contemporary Issues courses, or courses from other departments as approved by your Supervisory Committee.

Earn at least 3 credits from the following:

- HDFS6010 - Family Research and Application - 3cr.
- HDFS6020 - Human Development Research and Application - 3cr.
- HDFS6210 - Cultural Diversity in Families - 3cr.
- HDFS6220 - Interpersonal Family Relationships - 3cr.
- HDFS6230 - Family and Social Policy - 3cr.
- HDFS6240 - Race, Gender, and Social Justice - 3cr.
- HDFS6510 - Development in Infancy - 3cr.
- HDFS6520 - Development in Childhood - 3cr.
- HDFS6530 - Development in Adolescence - 3cr.
- HDFS6540 - Adulthood and Aging - 3cr.
- HDFS6910 - Parenting - 3cr.

Required Orientation Courses

Type
Completion Requirement

Orientation Courses

The School of Graduate Studies requires the following courses for teaching assistantships: Course credit does not count on the Program of Study toward degree requirements.

Complete the following Continuing Education Courses:

- CEUS 7901 - Graduate Teaching Training I: FERPA, Title IX, and Best Practices in Assessment and Communication - 1cr.
- CEUS 7902 - Graduate Teaching Training II: Ethics, Pedagogy, and Student Support - 2cr.

Program Learning Outcomes

Program Learning Outcomes

https://cehs.usu.edu/about/assessment

Human Development and Family Studies: Marriage and Family Therapy Specialization - PhD

Program Overview

College
College of Education & Human Services

Department
Human Development and Family Studies

Program Level
Graduate

About this Degree

Students in the PhD program (Marriage and Family Therapy specialization) complete coursework in the MFT program as well as courses within the Department of Human Development and Family Studies that prepares them for both academic and professional scholarship. They complete a major research dissertation that makes a significant contribution to the theoretical and empirical knowledge in MFT.

In addition to relevant coursework and the dissertation, students are trained in additional research, teaching, and professional competencies. For more specific information, see the PhD Graduate Handbook (and MFT supplement) https://cehs.usu.edu/hdfs/graduate/handbook.

Program Requirements

Total Credits Required In Program Coursework
60

Total Credits Required To Earn This Credential
60

Simple Requisites

Program Requirements

In addition to the department's requirements, the following are the School of Graduate Studies guidelines and are the minimum requirements for students to complete a degree.

School of Graduate Studies Requirements:

• Degree Verification: A bachelor's degree from an accredited U.S. college or university or a similarly recognized international university is required for admission to and completion of a graduate program. An official transcript must be sent directly to the School of Graduate Studies.
• Overall Graduate GPA at least 3.0 and no grades of C- or lower: Graduate students are required to maintain at least a 3.0 GPA for degree-program courses. Grades of C- or lower will not be accepted for a graduate degree.
• Course Number Acceptability: The Program of Study for a doctoral degree must include at least 15 semester credits at the level of 6000 or above.
• Matriculation Start Semester: A doctorate degree must be completed within eight years of entering the degree program. Additional time may be requested by the student's advisor and submitted to the Vice Provost of Graduate Studies for review.
• Coursework Validity: Coursework over eight years old at the time of degree completion may not be used for a graduate degree unless it is revalidated by the Vice Provost of Graduate Studies.
• Required for all defense degrees: Successful defense and submission of the dissertation to the library.
Doctoral forms:

- Approval of academic forms required for doctoral students by the School of Graduate Studies:
  - Complete RCR training
  - Supervisory Committee
  - Program of Study

- Application for Candidacy
- Appointment for Examination
- Record of Examination
- Dissertation Format & Style
- Authorship and Copyright
- Department, SGS, and library review and approval

Human Development and Family Studies: Marriage and Family Therapy Specialization - PhD

Type
Completion Requirement

Core Requirements (45 credits)

Complete ALL of the following Courses:

- HDFS6031 - Research Methodology - 3cr.
- HDFS6060 - Human Development Theories - 3cr.
  OR HDFS6070 - Family Theories - 3cr.
- EDUC6600 - Statistical Foundations - 3cr.
- HDFS7032 - Multivariate and Dyadic Data Analysis in Human Development and Family Studies - 3cr.
- HDFS7080 - Professional Development - 3cr.
- HDFS7300 - Advanced Theories in Marriage and Family Therapy - 3cr.
- HDFS7310 - Contemporary Issues in Marriage and Family Therapy - 3cr.
- HDFS7320 - Foundations of Marriage and Family Therapy Education - 3cr.
- HDFS7330 - Neuropsychology of Interpersonal Relationships - 3cr.
- EDUC7610 - Regression Analysis - 3cr.
- HDFS7950 - Marriage and Family Therapy Internship - 1cr.
- HDFS7970 - Dissertation Research - 1cr.

NOTE:

1. HDFS7080 PROFESSIONAL DEVELOPMENT will be offered each fall to the second-year doctoral cohort.
2. HDFS7950 MFT INTERNSHIP - 3 credits required.
3. HDFS7970 DISSERTATION RESEARCH - 12 credits required.

Family Relations and Human Development (6 credits)

Complete at least 2 of the following courses:

- HDFS7010 - Family Research and Application - 3cr.
- HDFS7020 - Human Development Research and Application - 3cr.
- HDFS7220 - Interpersonal Family Relationships - 3cr.
- HDFS7510 - Development in Infancy - 3cr.
- HDFS7520 - Development in Childhood - 3cr.
- HDFS7530 - Development in Adolescence - 3cr.
- HDFS7540 - Adulthood and Aging - 3cr.
- HDFS7910 - Parenting - 3cr.

Contemporary Issues and Advanced Methods and Statistics (6 credits)

Complete at least 2 of the following courses:

- EDUC6010 - Introduction to Program Evaluation: Evaluation Models and Practical Guidelines - 3cr.
- EDUC6770 - Qualitative Research Methods - 3cr.
- EDUC6800 - Mixed Methods Research - 3cr.
- HDFS7034 - Extant/Secondary Data Analysis - 3cr.
- HDFS7100 - Meta-Analysis and Literature Review - 3cr.
- HDFS7210 - Cultural Diversity in Families - 3cr.
- HDFS7230 - Family and Social Policy - 3cr.
- HDFS7240 - Race, Gender, and Social Justice - 3cr.
- PSY7650 - Multilevel and Marginal Models for the Social Sciences - 3cr.
- PSY7760 - Structural Equation Modeling - 3cr.
- PSY7770 - Longitudinal Data Analysis - 3cr.

Elective (3 credits)

Complete at least 1 of the following courses:

- EDUC6010 - Introduction to Program Evaluation: Evaluation Models and Practical Guidelines - 3cr.
- EDUC6770 - Qualitative Research Methods - 3cr.
- EDUC6800 - Mixed Methods Research - 3cr.
- HDFS7010 - Family Research and Application - 3cr.
- HDFS7020 - Human Development Research and Application - 3cr.
- HDFS7034 - Extant/Secondary Data Analysis - 3cr.
- HDFS7100 - Meta-Analysis and Literature Review - 3cr.
- HDFS7210 - Cultural Diversity in Families - 3cr.
- HDFS7220 - Interpersonal Family Relationships - 3cr.
- HDFS7230 - Family and Social Policy - 3cr.
- HDFS7240 - Race, Gender, and Social Justice - 3cr.
- HDFS7510 - Development in Infancy - 3cr.
- HDFS7520 - Development in Childhood - 3cr.
- HDFS7530 - Development in Adolescence - 3cr.
- HDFS7540 - Adulthood and Aging - 3cr.
- PSY7650 - Multilevel and Marginal Models for the Social Sciences - 3cr.
- PSY7760 - Structural Equation Modeling - 3cr.
- PSY7770 - Longitudinal Data Analysis - 3cr.
- HDFS7910 - Parenting - 3cr.

Required Orientation Courses

The School of Graduate Studies requires the following courses for teaching assistantships: Course credit does not count on the Program of Study toward degree requirements.

Complete the following continuing education courses:

- CEUS 7901 - Graduate Teaching Training I: FERPA, Title IX, and Best Practices in Assessment and Communication
- CEUS 7902 - Graduate Teaching Training II: Ethics, Pedagogy, and Student Support
- CEUS 7903 - Graduate Teaching Training III: Advanced Pedagogy, Policy, and Community Building

Program Learning Outcomes

Program Learning Outcomes

https://cehs.usu.edu/about/assessment

Human Development and Family Studies - MS

Program Overview

College
College of Education & Human Services

Department
Human Development and Family Studies

Program Level
Graduate

About this Degree

The MS in Human Development and Family Studies (HDFS) Plan A program offers advanced study of the comprehensive aspects of individual and family development throughout the lifespan. Delve into the intricate theories of human development, mastering rigorous research methodologies and exploring effective intervention strategies. Our program provides a strong foundation for a variety of professional paths, preparing graduates for impactful careers in academic and applied research, conducting scholarly investigations in academic or applied settings. They also work in education, teaching at the college level or developing educational programs. Furthermore, graduates find roles in human services, contributing to non-profit organizations, government agencies, and community initiatives focused on child welfare, family support, and healthy aging.

For more specific information, see the department's Graduate Student Handbook at: ccehs.usu.edu/hdfs/graduate/handbook.

Program Requirements

Total Credits Required In Program Coursework
30

Total Credits Required To Earn This Credential
30

Simple Requisites

Program Requirements

In addition to the department's requirements, the following are the School of Graduate Studies guidelines and are the minimum requirements for students to complete a degree.

- **Degree Verification**

A bachelor's degree from an accredited U.S. college or university or a similarly recognized international university is required for admission to and completion of a graduate program.

- **Overall Graduate GPA at least 3.0 and no grades of C- or lower**

Graduate students are required to maintain at least a 3.0 GPA for degree-program courses. Grades of C- or lower will not be accepted for a graduate degree. Graduate Students may earn no more than two "C's" in their courses.

- **Course Number Acceptability**

The Program of Study for a master's degree or a doctoral degree must include at least 15 semester credits at the level of 6000 or above.

Credits in the following areas are not acceptable in a degree program: foreign languages (unless included in an approved Program of Study), continuing graduate advisement, individual home study, military science, and courses numbered below 6000.

- **Matriculation Start Semester**

A master's degree must be completed within six years of entering the degree program. Additional time may be requested by the student's committee and submitted to the Vice Provost of Graduate Studies for review.

- **Coursework Validity**

Coursework over eight years old at the time of degree completion may not be used for a graduate degree unless it is revalidated by the Vice Provost of Graduate Studies.

- **Master's Forms:**
  - Approval of academic forms required for master's students by the School of Graduate Studies
    - Supervisory Committee
    - Program of Study
    - Thesis/Project Approval
    - Appointment for Exam
    - Record of Examination
    - Authorship and Copyright
    - Thesis Format & Style
    - Title Page
    - Department, SGS, and library review and approval
  - Required for all Plan A/defense degrees-
    - Complete RCR training.
    - Six thesis credits are required.
    - Successful defense and submission of the thesis to the library.

Plan A - Thesis

Type
Completion Requirement

Core Requirements (18 credits minimum)

Complete ALL of the following Courses:

- HDFS6060 - Human Development Theories - 3cr.
- HDFS6070 - Family Theories - 3cr.
- HDFS6031 - Research Methodology - 3cr.
- EDUC6050 - Applied Statistical Analysis - 3cr.
- HDFS6970 - Thesis Research - 1cr.

NOTE:

1. HDFS6970 THESIS RESEARCH - 6 credits required

Human Development and Family Relations (6 credits)

Complete at least 2 of the following courses:

- HDFS6020 - Human Development Research and Application - 3cr.
- HDFS6510 - Development in Infancy - 3cr.
- HDFS6520 - Development in Childhood - 3cr.
- HDFS6530 - Development in Adolescence - 3cr.
- HDFS6540 - Adulthood and Aging - 3cr.
- HDFS6010 - Family Research and Application - 3cr.
- HDFS6220 - Interpersonal Family Relationships - 3cr.
- HDFS6910 - Parenting - 3cr.

Contemporary Issues (3 credits)

Complete at least 1 of the following courses:

- HDFS6210 - Cultural Diversity in Families - 3cr.
- HDFS6230 - Family and Social Policy - 3cr.
- HDFS6240 - Race, Gender, and Social Justice - 3cr.

Elective (3 credits)

May include any of the Human Development and Family Relations or Contemporary Issues courses, or courses from other departments as approved by the student's Supervisory Committee.

Complete ANY of the following Courses:

- HDFS6010 - Family Research and Application - 3cr.
- HDFS6020 - Human Development Research and Application - 3cr.
- HDFS6210 - Cultural Diversity in Families - 3cr.
- HDFS6220 - Interpersonal Family Relationships - 3cr.
- HDFS6230 - Family and Social Policy - 3cr.
- HDFS6240 - Race, Gender, and Social Justice - 3cr.
- HDFS6510 - Development in Infancy - 3cr.
- HDFS6520 - Development in Childhood - 3cr.
- HDFS6530 - Development in Adolescence - 3cr.
- HDFS6540 - Adulthood and Aging - 3cr.
- HDFS6910 - Parenting - 3cr.

Required Orientation Courses

The School of Graduate Studies requires the following courses for teaching assistantships: Course credit does not count on the Program of Study toward degree requirements.

Complete the following Continuing Education Courses:

- CEU 7901 - Graduate Teaching Training I; FERPA, Title IX, and Best Practices in Assessment and Communication
- CEU 7902 - Graduate Teaching Training II; Ethics, Pedagogy, and Student Support

Program Learning Outcomes

Program Learning Outcomes

https://cehs.usu.edu/about/assessment

Human Development and Family Studies - PhD

Program Overview

College
College of Education & Human Services

Department
Human Development and Family Studies

Program Level
Graduate

About this Degree

Students in the PhD program complete a major research dissertation that makes a significant contribution to the theoretical and empirical knowledge in human development and/or family studies. Students can be admitted into the program with a Bachelor of Science degree if they have adequate research experience (*post-BS PhD*), or after they complete a Master of Science (or Master of Arts, with additional research experience; *post-MS PhD*).

Program Requirements

Total Credits Required In Program Coursework
60-78

Total Credits Required To Earn This Credential
60-78

Simple Requisites

Program Requirements

In addition to coursework and the dissertation, students demonstrate research, teaching, and professional competencies, and pass a comprehensive exam. For more specific information, see the Graduate Student Handbook at: cehs.usu.edu/hdfs/graduate/handbook.

In addition to the department's requirements, the following are the School of Graduate Studies guidelines and are the minimum requirements for students to complete a degree.

- **PhD (Post-MS):** 60 credits min.
- **PhD (Post-BS):** 78 credits min.
- **Degree Verification**

A bachelor's degree from an accredited U.S. college or university or a similarly recognized international university is required for admission to and completion of a graduate program.

- **Overall Graduate GPA at least 3.0 and no grades of C- or lower**

Graduate Students may earn no more than two "C's" in their courses.

- **Course Number Acceptability**

The Program of Study for a doctoral degree if the student has a master's degree must include at least 15 semester credits at the level of 6000 or above. Credits in the following areas are not acceptable in a degree program: foreign languages (unless included in an approved Program of Study), continuing graduate advisement, individual home study, military science, and courses numbered below 6000.

- **Matriculation Start Semester**

A doctorate degree must be completed within eight years of entering the degree program. Additional time may be requested by the student's advisor and submitted to the Vice Provost of Graduate Studies for review.

- **Coursework Validity**

Coursework over eight years old at the time of degree completion may not be used for a graduate degree unless it is revalidated by the Vice Provost of Graduate Studies.

- **Required for all defense degrees:**

Successful defense and submission of the dissertation to the library.

- Doctoral forms:
    - Approval of academic forms required for doctoral students by the School of Graduate Studies.
        - Complete RCR training
        - Supervisory Committee
        - Program of Study
        - Application for Candidacy
        - Appointment for Examination
        - Record of Examination
        - Dissertation Format & Style
        - Authorship and Copyright
        - Department, SGS, and library review and approval

Doctor of Philosophy in Human Development and Family Studies - MS to PhD (60 credits)

Type
Completion Requirement

Core Requirements (36 credits)

Fulfill ALL of the following requirements:

Core Requirements

Complete ALL of the following Courses:

- HDFS7010 - Family Research and Application - 3cr.
- HDFS7020 - Human Development Research and Application - 3cr.
- HDFS7080 - Professional Development - 3cr.
- HDFS7980 - Graduate Research Practicum - 1cr.
- EDUC6600 - Statistical Foundations - 3cr.
- EDUC7610 - Regression Analysis - 3cr.
- HDFS6031 - Research Methodology - 3cr.
- HDFS7032 - Multivariate and Dyadic Data Analysis in Human Development and Family Studies - 3cr.
- HDFS7970 - Dissertation Research - 1cr.

NOTE:

1. HDFS7080 PROFESSIONAL DEVELOPMENT - Course will be offered each fall to the second-year doctoral cohort.
2. HDFS7970 DISSERTATION RESEARCH - 12 credits required.
3. HDFS7980 GRAD RESEARCH PRACTICUM - 3 credits required.

Family Relations and Human Development (6 credits)

Complete at least 2 of the following courses:

- HDFS6070 - Family Theories - 3cr.
- HDFS7220 - Interpersonal Family Relationships - 3cr.
- HDFS7910 - Parenting - 3cr.
- HDFS6060 - Human Development Theories - 3cr.
- HDFS7510 - Development in Infancy - 3cr.
- HDFS7520 - Development in Childhood - 3cr.
- HDFS7530 - Development in Adolescence - 3cr.
- HDFS7540 - Adulthood and Aging - 3cr.

Contemporary Issues and Advanced Methods and Statistics (12 credits)

Complete at least 4 of the following courses:

- HDFS7210 - Cultural Diversity in Families - 3cr.
- HDFS7230 - Family and Social Policy - 3cr.
- HDFS7240 - Race, Gender, and Social Justice - 3cr.
- EDUC6010 - Introduction to Program Evaluation: Evaluation Models and Practical Guidelines - 3cr.
- EDUC6770 - Qualitative Research Methods - 3cr.
- EDUC6800 - Mixed Methods Research - 3cr.
- HDFS7034 - Extant/Secondary Data Analysis - 3cr.
- HDFS7100 - Meta-Analysis and Literature Review - 3cr.
- PSY7650 - Multilevel and Marginal Models for the Social Sciences - 3cr.
- PSY7760 - Structural Equation Modeling - 3cr.
- PSY7770 - Longitudinal Data Analysis - 3cr.

Electives (6 credits)

May include any of the Family Relations and Human Development or Contemporary Issues and Advanced Methods and Statistics courses, or classes from other departments as approved by the Supervisory Committee

Complete at least 2 of the following courses:

- EDUC6010 - Introduction to Program Evaluation: Evaluation Models and Practical Guidelines - 3cr.
- EDUC6770 - Qualitative Research Methods - 3cr.
- EDUC6800 - Mixed Methods Research - 3cr.
- HDFS6060 - Human Development Theories - 3cr.
- HDFS6070 - Family Theories - 3cr.
- HDFS7034 - Extant/Secondary Data Analysis - 3cr.
- HDFS7100 - Meta-Analysis and Literature Review - 3cr.
- HDFS7210 - Cultural Diversity in Families - 3cr.
- HDFS7220 - Interpersonal Family Relationships - 3cr.
- HDFS7230 - Family and Social Policy - 3cr.
- HDFS7240 - Race, Gender, and Social Justice - 3cr.
- HDFS7510 - Development in Infancy - 3cr.
- HDFS7520 - Development in Childhood - 3cr.
- HDFS7530 - Development in Adolescence - 3cr.
- HDFS7540 - Adulthood and Aging - 3cr.
- HDFS7910 - Parenting - 3cr.
- PSY7650 - Multilevel and Marginal Models for the Social Sciences - 3cr.
- PSY7760 - Structural Equation Modeling - 3cr.
- PSY7770 - Longitudinal Data Analysis - 3cr.

Required Orientation Courses

The School of Graduate Studies requires the following courses for teaching assistantships: Course credit does not count on the Program of Study toward degree requirements.

Complete the following Continuing Education courses:

- CEUS 7901- Graduate Teaching Training I: FERPA, Title IX, and Best Practices in Assessment and Communication
- CEUS 7902 - Graduate Teaching Training II: Ethics, Pedagogy, and Student Support
- CEUS 7903 - Graduate Teaching Training III: Advanced Pedagogy, Policy, and Community Building

Doctor of Philosophy in Human Development and Family Studies-BS to PhD (78 credits)

Type
Completion Requirement

Core Requirements (48 credits)

Fulfill ALL of the following requirements:

Required Courses

Complete ALL of the following Courses:

- HDFS6060 - Human Development Theories - 3cr.
- HDFS6070 - Family Theories - 3cr.
- HDFS7010 - Family Research and Application - 3cr.
- HDFS7020 - Human Development Research and Application - 3cr.
- HDFS7080 - Professional Development - 3cr.
- EDUC6600 - Statistical Foundations - 3cr.
- EDUC7610 - Regression Analysis - 3cr.
- HDFS6031 - Research Methodology - 3cr.
- HDFS7032 - Multivariate and Dyadic Data Analysis in Human Development and Family Studies - 3cr.
- HDFS7970 - Dissertation Research - 1cr.
- HDFS7980 - Graduate Research Practicum - 1cr.

NOTE:

1. HDFS7080 PROFESSIONAL DEVELOPMENT - Course will be offered each fall to the second-year doctoral cohort.
2. HDFS7970 DISSERTATION RESEARCH - 12 credits are required.
3. HDFS7980 GRAD RESEARCH PRACTICUM - 9 credits are required.

Family Relations and Human Development (9 credits)

Complete at least 3 of the following courses:

- HDFS7220 - Interpersonal Family Relationships - 3cr.
- HDFS7910 - Parenting - 3cr.
- HDFS7510 - Development in Infancy - 3cr.
- HDFS7520 - Development in Childhood - 3cr.
- HDFS7530 - Development in Adolescence - 3cr.
- HDFS7540 - Adulthood and Aging - 3cr.

Contemporary Issues and Advanced Methods (15 credits)

Complete at least 5 of the following courses:

- HDFS7210 - Cultural Diversity in Families - 3cr.
- HDFS7230 - Family and Social Policy - 3cr.
- HDFS7240 - Race, Gender, and Social Justice - 3cr.
- EDUC6010 - Introduction to Program Evaluation: Evaluation Models and Practical Guidelines - 3cr.
- EDUC6770 - Qualitative Research Methods - 3cr.
- EDUC6800 - Mixed Methods Research - 3cr.
- HDFS7034 - Extant/Secondary Data Analysis - 3cr.
- HDFS7100 - Meta-Analysis and Literature Review - 3cr.
- PSY7650 - Multilevel and Marginal Models for the Social Sciences - 3cr.
- PSY7760 - Structural Equation Modeling - 3cr.
- PSY7770 - Longitudinal Data Analysis - 3cr.

Electives (6 credits)

May include any of the Family Relations and Human Development or Contemporary Issues and Advanced Methods courses, or classes from other departments as approved by the Supervisory Committee.

Earn at least 6 credits from the following:

- EDUC6010 - Introduction to Program Evaluation: Evaluation Models and Practical Guidelines - 3cr.
- EDUC6770 - Qualitative Research Methods - 3cr.
- EDUC6800 - Mixed Methods Research - 3cr.
- HDFS7034 - Extant/Secondary Data Analysis - 3cr.
- HDFS7100 - Meta-Analysis and Literature Review - 3cr.
- HDFS7210 - Cultural Diversity in Families - 3cr.
- HDFS7220 - Interpersonal Family Relationships - 3cr.
- HDFS7230 - Family and Social Policy - 3cr.
- HDFS7240 - Race, Gender, and Social Justice - 3cr.
- HDFS7510 - Development in Infancy - 3cr.
- HDFS7520 - Development in Childhood - 3cr.
- HDFS7530 - Development in Adolescence - 3cr.
- HDFS7540 - Adulthood and Aging - 3cr.
- HDFS7910 - Parenting - 3cr.
- PSY7650 - Multilevel and Marginal Models for the Social Sciences - 3cr.
- PSY7760 - Structural Equation Modeling - 3cr.
- PSY7770 - Longitudinal Data Analysis - 3cr.

Required Orientation Courses

The School of Graduate Studies requires the following courses for teaching assistantships: Course credit does not count on the Program of Study toward degree requirements.

Complete the following continuing education courses:

- CEUS 7901 - Graduate Teaching Training I: FERPA, Title IX, and Best Practices in Assessment and Communication
- CEUS 7902 - Graduate Teaching Training II: Ethics, Pedagogy, and Student Support
- CEUS 7903 - Graduate Teaching Training III: Advanced Pedagogy, Policy, and Community Building

Program Learning Outcomes

Program Learning Outcomes

https://cehs.usu.edu/about/assessment

Human Experience Design and Interaction - BS

Program Overview

College	Department	Program Level
College of Education & Human Services	Instructional Technology & Learning Sciences	Undergraduate

About this Degree

We are surrounded by design that has been done by people but often not designed with the end user in mind. Whether it is an app that doesn't make sense, a car dashboard, a physical space or product, we deserve to interact with software, tools and spaces that make sense for us. The Human Experience Design and Interaction (HEDI) program focuses on instructional design, video game design, product design, or multimedia design, all with an emphasis on being human-centered. HEDI has core classes that include design, product/project management, how people learn, and how to visualize and present data to key stakeholders. Students will also specialize in two emphasis areas of their own choosing. Emphasis options include game studies, marketing, new venture management, multimedia, culturally responsive design, product development, and technical communication.

- For more information about Instructional Technology and Learning Sciences, see the website.
- Admitted and current students must meet with an advisor.
- Log on to Degree Works to check student-specific program progress.
- Students in the program must maintain a minimum 2.0 GPA overall to remain in the program.
- The highest math requirement for this degree is fulfilled through satisfying the Quantitative Literacy (QL) requirement.

Admission Requirements for this Program

A minimum GPA of 2.0 and successfully completing ITLS2000 HEDI ORIENTATION Orientation Course is mandatory. Students with prior work experience, aptitude for technology, and experience with multimedia are preferred but not required.

Students can begin the Human Experience Design and Interaction (HEDI) program at any time during their study at USU. Students are selected based on their GPA in combination with other indicators of achievement.

Program Requirements

Total Credits Required In Program Coursework	Total Credits Required To Earn This Credential
61	120

Simple Requisites

Program Requirements

Once admitted, students are required to obtain a minimum grade of C or better in all classes that are required for, or used as electives in, this major. Students are allowed a total of three course repeats. For classes with an ITLS prefix, students are required to have at least 3.0 cumulative major GPA.

- Students in the program must maintain a minimum 2.0 GPA overall to remain in the program.

Human Experience Design and Interaction - BS

Type
Completion Requirement

Required Courses (40 credits)

Complete ALL of the following Courses:

- ITLS2000 - HEDI Orientation - 1cr.
- ITLS3110 - Design Perspectives and Processes I - 3cr.
- ITLS3120 - Design Perspectives and Processes II - 3cr.
- ITLS3130 - How People Learn - 3cr.
- ITLS3310 - Information and Media Literacy - 3cr.
- ITLS3350 - Introduction to Computational Thinking - 3cr.
- ITLS4110 - Project and Product Management - 3cr.
- ITLS5130 - Data Visualization - 3cr.
- ITLS5215 - Video and Audio Design and Production I - 3cr.
- ITLS5230 - Graphic Design and Production I - 3cr.
- ITLS5250 - Artificial Intelligence for Learning and Design - 3cr.
- ITLS5265 - Internet Design and Development - 3cr.
- ITLS5320 - Writing for Design (CI) - 3cr.
- ITLS4170 - AI-Powered Experience Design - 3cr.

Required Capstone Experience

Complete at least 1 of the following courses:

- ITLS4940 - Internship-Undergraduate - 1cr.
- ITLS4960 - Senior Capstone Project - 1cr.

Required Emphases (21 credits total)

Two emphases are required. See program Advisor for course options.

Complete the following:

- Emphasis 1 is a minimum of 12 required credits.
- Emphasis 2 is a minimum of 9 required credits.

Open Electives

Complete the following as needed:
Total elective credit is determined by General Education courses taken, degree type selected, additional credits earned, and any additional math or other prerequisite courses needed. Please consult your Academic Advisor for details.

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Bachelor's Degree)

Suggested Degree Maps

Degree Map Name
Suggested Degree Map - Human Experience Design and Interaction BS
Total Degree Map Credits
118 - 119
Degree Map Effective Catalog Year
2027 -

Degree Map Narrative

- Following is a sample four-year plan. Please note that student-specific plans may differ.
- Meet with an academic advisor to create a specific plan that best fits your academic needs.
- The student is ultimately responsible for knowing and completing all degree requirements.

- Make sure you meet the registration requirements for each class by clicking the course link and checking any prerequisites or corequisites.
- Consultation with an advisor may result in an altered plan customized for an individual student.
- Check your Degree Works for requirements and completion.

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	17 - 18	0

Requirement Select
- USU1010 - University Connections

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select
- USU1010 is a recommended course. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Breadth Life Sciences (BLS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Breadth Creative Arts (BCA) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Communications Literacy (CL1) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Breadth Humanities (BHU) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Quantitative Literacy (QL) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	12	0

Requirement Select
- Communications Literacy (CL2) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Communications Intensive (CI) Courses

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Breadth Physical Sciences (BPS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Depth Life and Physical Sciences (DSC) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Breadth American Institutions (BAI) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Breadth Social Sciences (BSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	13	0

Requirement Select
- ITLS2000 - HEDI Orientation

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- *Students can take ITLS 2000 anytime during Fall/Spring/ Summer semesters. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	16	0

Requirement Select
- Depth Humanities and Creative Arts (DHA) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Quantitative Intensive (QI) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- ITLS2000 - HEDI Orientation

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Fall	15	0

Requirement Select
- ITLS3110 - Design Perspectives and Processes I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- ITLS3130 - How People Learn

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- ITLS3350 - Introduction to Computational Thinking

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- ITLS5320 - Writing for Design (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Emphasis Area Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Spring	15	0

Requirement Select
- ITLS3120 - Design Perspectives and Processes II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- ITLS3310 - Information and Media Literacy

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- ITLS5320 - Writing for Design (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Emphasis Area Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Emphasis Area Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Fall	15	0

Requirement Select
- ITLS5130 - Data Visualization

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- ITLS5215 - Video and Audio Design and Production I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- ITLS5265 - Internet Design and Development

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Emphasis Area Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Emphasis Area Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Spring	15	0

Requirement Select
- ITLS4110 - Project and Product Management

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- ITLS5250 - Artificial Intelligence for Learning and Design

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- (Enroll in 3 credits of ITLS 4940 or ITLS 4960) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- ITLS4940 - Internship-Undergraduate
  OR
- ITLS4960 - Senior Capstone Project

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	1 - 6
Clinical	-
Criticality	No

Requirement Select

- Emphasis Area Course (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Emphasis Area Course (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Program Learning Outcomes

Program Learning Outcomes

https://cehs.usu.edu/itls/

Health Equity - Post-Bachelor's Certificate

Program Overview

College
College of Arts & Sciences

Department
School of Social Sciences

Program Level
Graduate

About this Degree

The Health Equity Post Bachelor's Certificate provides rigorous social science training and education in social determinants of health, health disparities, and health equity, targeted at both current graduate students and healthcare professionals and practitioners. The certificate requires completion of two health-related courses, which will provide students with training and education in social scientific approaches to health, healthcare, well-being, disability, aging, and mental health. Also required is an inequality course, which will provide students with more depth regarding the history of inequality and factors that shape unequal outcomes.

Students who complete the program will receive a graduate-level certificate in Health Equity. Their USU transcript will list the courses and grades received to complete the program. The certificate may be earned as a stand-alone certification or as part of a USU graduate degree program.

Admission Requirements for this Program

To apply for admittance to the program, a person must complete and submit an application to the School of Graduate Studies. Academic credits obtained from the program may be applied toward a graduate degree.

To apply, the School of Graduate Studies requires:

1. A bachelor's degree (or, for some doctoral programs, a master's degree) that is or will be completed before the student matriculates in the degree program.
2. A 3.0 or higher grade-point average for terms that include the student's last 60 semester credits or 90 quarter credits.
3. Resume/CV
4. International applicants are required to submit proof of proficiency in English.

Program Requirements

Total Credits Required In Program Coursework
9

Total Credits Required To Earn This Credential
9

Simple Requisites

Program Requirements

9 credits

Health Equity - Post-Bachelor's Certificate

Type
Completion Requirement

Health Courses (6 credits)

Complete at least 2 of the following courses:

- SOC6120 - Population and Health - 3cr.
- SOC6450 - Theories and Methods in Medical Sociology - 3cr.
- SOC6460 - Sociology of Health, Illness, and Disability - 3cr.

Inequality courses (3 credits)

Complete at least 1 of the following courses:

- SOC6310 - Sociology of Work and Occupations - 3cr.
- SOC6420 - Gender, Sexuality, and Social Inequality - 3cr.
- SOC6480 - Seminar in Race and Ethnicity - 3cr.
- SOC6700 - Advanced Rural Sociology - 3cr.
- SOC7350 - People, Power, and the Political - 3cr.
- SOC7620 - Sociology of Environmental Hazards and Risks - 3cr.

Program Learning Outcomes

Program Learning Outcomes

https://chass.usu.edu/assessments/

Hearing Foundations - Certificate

Program Overview

College
College of Education & Human Services

Department
Speech and Hearing Sciences

Program Level
Undergraduate

About this Degree

Students completing the certificate will need to take five courses, totaling 15 credits that may be completed in two semesters. This set of coursework addresses speech and hearing problems, auditory anatomy and physiology, and acoustics and sound processing for students with an interest in hearing-related knowledge and skills who do not want to complete the full major in Speech and Hearing Sciences.

Program Requirements

Total Credits Required In Program Coursework
15

Total Credits Required To Earn This Credential
15

Simple Requisites

Program Requirements

To earn the certificate, the courses must be completed with a grade of C or better. A maximum of three repeats across the set of courses is permitted (consistent with the policy for other department undergraduate programs).

Hearing Foundations - Certificate

Type
Completion Requirement

Required Courses

Complete ALL of the following Courses:

- SHS2600 - Introduction to Communication Disorders - 3cr.
- SHS3800 - Anatomy and Physiology of Speech and Hearing - 3cr.
- SHS4700 - Basic Audiology - 3cr.
- SHS5330 - Aural Rehabilitation - 3cr.
- SHS5070 - Acoustics of Speech and Hearing - 3cr.

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Undergraduate Academic or Technical Certificates)

Program Learning Outcomes

Program Learning Outcomes

https://cehs.usu.edu/shs/assessment/university/undergraduate-program/learning-objectives

Healthcare Interpretation - Certificate

Program Overview

College
College of Arts & Sciences

Department
World Languages and Cultures

Program Level
Undergraduate

About this Degree

This Certificate in Healthcare Interpretation is considered a program in high demand by students, employers, and communities across that state. According to the Occupational Outlook Handbook, Interpreters, and translators' projections for employability in the state is 6% which is above the average in other fields. This program will provide students with access to a comprehensive education with a wide range of employment opportunities, as compared with more specialized programs with specific, less widely available, or geographically focused employment outcomes.

Students will gain the skills to be hired and competent as medical interpreters. The certificate is designed to provide the content knowledge and the language skills in translation and interpretation. Students take an advanced Spanish composition class or a medical terminology class to start the certification, the following are theory of interpretation and translation SPAN3061 FUNDMTLS TRANSLN AND INTERPRTN , and then the translation and interpretation skills SPAN4071 SIM & CONSEC HEALTHC INTERPR, SPAN3081 HEALTHCARE TRANSLATION, and they finish with the Medical Certification of code of ethics, different modes of interpreting , healthcare system, and body systems (SPAN4081 MEDICAL INTERPRET TRAINING).

Program Requirements

Total Credits Required In Program Coursework
16

Total Credits Required To Earn This Credential
16

Simple Requisites

Program Requirements

Healthcare Interpretation - Certificate

Type
Completion Requirement

Admission Requirement (3 credits)

Students must take one of the following prerequisite courses:

Complete at least 1 of the following courses:

- SPAN3040 - Advanced Spanish Grammar - 3cr.
- SPAN3060 - Advanced Spanish Conversation and Composition (CI) - 3cr.
- SPAN3100 - Spanish Healthcare - 3cr.

Course Requirements (12 credits)

Complete ALL of the following Courses:

- SPAN3061 - Fundamentals of Translation and Interpretation - 3cr.
- SPAN3081 - Healthcare Translation - 3cr.
- SPAN4071 - Simultaneous and Consecutive Healthcare Interpretation - 3cr.
- SPAN4081 - Medical Interpretation Training (BTG) - 3cr.

Requirement for Completion of the Certificate (3 credits)

Students will ultimately enroll in the following course to complete the certificate:

Complete ALL of the following Courses:

- LANG1050 - Language Skills and Career Design - 1cr.

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Undergraduate Academic or Technical Certificates)

Program Learning Outcomes

Program Learning Outcomes

https://artsci.usu.edu/assessments/

Heavy Equipment Operator - Technical Certificate

Program Overview

College
College of Agriculture & Natural Resources

Department
Technology, Design & Technical Ed

Program Level
Undergraduate

About this Degree

The Heavy Equipment Operator program introduces students to the heavy equipment industry and basic equipment operations. It also blends classroom time, industry related safety and hands on training for a well-rounded learning experience. Topics include OSHA construction safety, orientation to the trade, identification of heavy equipment, basic operational techniques, introduction to earthmoving, rough grading, and finish grading. This program is open-entry/ open-exit, so students can enter when it's convenient for them!

Program Requirements

Total Credits Required In Program Coursework
16

Total Credits Required To Earn This Credential
16

Simple Requisites

Program Requirements

Heavy Equipment Operator Course Requirements

Type
Completion Requirement

Foundational Courses - 10 Credits

Complete ALL of the following Courses:

- TEHE1010 - Heavy Equipment Introduction/Basics - 2cr.
- TEHE1050 - Skid Steer/Compact Loader Operation - 2cr.
- TEHE1100 - Hydraulic Excavator Operation - 2cr.
- TEHE1150 - Backhoe (Tractor Loader Backhoe) Operation - 2cr.
- TEHE1200 - Front End Loader Operation - 2cr.

Supplemental Courses - 6 credits

Complete ALL of the following Courses:

- TEHE1250 - Dozer Operation - 2cr.
- TEHE1300 - Road Grader Operation - 2cr.
- TEHE1400 - Forklift Operation - 1cr.
- TEHE1500 - Worksite Planning for Operators - 1cr.

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Undergraduate Academic or Technical Certificates)

Program Learning Outcomes

Program Learning Outcomes

- At the completion of the course students should demonstrate entry level criteria related to overall safety awareness in the heavy equipment operator job fields.

- Students should meet minimum requirements to safely and effectively perform fundamental operating techniques used in industry.
- Students should be capable of performing a machine pre-operation inspection and know the proper procedures for tagging out and addressing maintenance or repair needs.
- Demonstrate knowledge of the job site awareness and have the ability to seek information and/or communicate needs and/or concerns.
- Meet areas industry needs by providing trained and machine safety certified entry-level operators which relate to the service area of the program.

Health Education Teaching - Minor

Program Overview

College
College of Education & Human Services

Department
Kinesiology and Health Science

Program Level
Undergraduate

About this Degree

The Health Education Teaching Minor at Utah State University prepares students to teach health education in K–12 school settings. This program includes the essential coursework and practicum experiences required to apply for the Health Education endorsement through the Utah State Board of Education (USBE).

Students must either hold or be working toward a valid Utah teaching license to be eligible for the USBE endorsement. The minor is an excellent option for students in teacher preparation programs who want to enhance their credentials and expand their teaching opportunities.

Important Note: Completion of the program's academic requirements does not guarantee a recommendation for the USBE endorsement. A formal recommendation will be made only when the following criteria are met:

- Successful completion of all required coursework (C or better) and Student Teaching Education Program (STEP) requirements
- Possession of a current and valid Utah teaching license
- Submission of all required forms and applicable fees

This minor cannot be used alone for teaching licensure unless the student has a teaching major. For more information, please contact the Academic Advisors in the Department of Kinesiology and Health Science.

Program Requirements

Total Credits Required In Program Coursework
21

Total Credits Required To Earn This Credential
21

Simple Requisites

Program Requirements

Health Education Teaching - Minor

Type
Completion Requirement

Required Courses

Complete ALL of the following Courses:

- HDFS3110 - Human Sexuality - 3cr.
- HEP2000 - First Aid and Emergency Care - 2cr.
- HEP3000 - Drugs and Human Behavior - 3cr.
- HEP4800 - Human Diseases - 3cr.
- KIN3300 - Clinical Experience I - 1cr.
- KIN4910 - Methods of Teaching Health - 3cr.
- NDFS1020 - Science and Application of Human Nutrition (BLS) - 3cr.
- PSY3700 - Mental Health Advocacy and Awareness - 3cr.

Secondary Teacher Education Program (STEP)

Type
Completion Requirement

STEP

Required for students seeking teacher licensure.

Please visit https://cehs.usu.edu/teal/undergraduate/STEP-admissions for STEP admission requirements, and check with minor and STEP advisors for additional information. Required STEP coursework is included in the Required Courses section.

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Minors)

Program Learning Outcomes

Program Learning Outcomes

https://cehs.usu.edu/khs/assessment

Hunger and Food Security Studies - Minor

Program Overview

College

College of Agriculture & Natural Resources

Department

Nutrition, Dietetics & Food Sciences

Program Level

Undergraduate

About this Degree

This minor provides students with a broad understanding of the complexity of hunger and the various programs, policies, and environmental changes that can reduce this significant social issue. This minor is available to all undergraduate majors.

Program Requirements

Total Credits Required In Program Coursework

15-16

Total Credits Required To Earn This Credential

15-16

Simple Requisites

Program Requirements

- **Credits:** 15 - 16 total
- **GPA:** 2.0 minimum in minor coursework
- **Department Website:** https://qanr.usu.edu/ndfs/
- **Advisor:** Dawnetta Mahnken
- **To Declare:** Email Dawnetta Mahnken (dawnetta.mahnken@usu.edu) with your name and A number.

Section 1

Type

Completion Requirement

Required Course

Complete ALL of the following Courses:

- NDFS5010 - Hunger Issues and Solutions - 3cr.

Section 2

Type

Completion Requirement

Food, Nutrition, and Health

Earn at least 3 credits from the following:

- ASTE5620 - Food Security and Solutions - 3cr.
- HEP2500 - Health and Wellness - 2cr.
- NDFS3080 - Community Nutrition - 3cr.
- NDFS3110 - Food, Technology, Sustainability and Health (DSC) - 3cr.
- NDFS5200 - Nutritional Epidemiology - 3cr. (Inactive)
- NDFS5210 - Advanced Public Health Nutrition (CI) - 3cr.
- NDFS5230 - Communication of Current Topics in Nutrition (CI) - 3cr.
- NDFS5432 - Community Nutrition - 3cr.

Section 3

Type
Completion Requirement

History, Sociology, and Anthropology

Earn at least 3 credits from the following:

- ANTH2010 - Peoples of the Contemporary World (BSS) - 3cr.
- ANTH4130 - Introduction to Medical Anthropology (DSS) - 3cr.
- ANTH5140 - Anthropology of Global Health (CI) - 3cr.
- ASTE5620 - Food Security and Solutions - 3cr.
- ENGL3060 - Mind And Body: The Rhetoric Of Health And Healing (DHA) - 3cr.
- ENGL3630 - The Farm in Literature and Culture (CI/DHA) - 3cr.
- HIST3910 - Health, Disease, and Medicine in North America (DHA) - 3cr.
- HIST3950 - Environmental History (DHA/CI) - 3cr.
- SOC2650 - Globalization and International Development (BSS) - 3cr.
- SOC3330 - Medical Sociology (DSS) - 3cr.
- SOC3520 - Sociology of Mental Illness - 3cr.

Section 4

Type
Completion Requirement

Resources, Climate, and Sustainability

Earn at least 3 credits from the following:

- ASTE5620 - Food Security and Solutions - 3cr.
- ENVS2340 - Environment, Natural Resources, and Society (BSS) - 3cr.
- ENVS3010 - Natural Resource and Environmental Policy - 3cr.
- ENVS4700 - Communicating Sustainability (CI) - 3cr.
- TEE2200 - Aquaponic Systems (BPS) - 3cr.

Section 5

Type
Completion Requirement

Geography and the Environment

Select 3-4 credits from the following courses

Earn at least 3 credits from the following:

- ASTE2900 - Food Matters: Ethics, Economics, and the Environment (BSS) - 3cr.
- ASTE2100 - Personal and Team Leadership - 3cr.
- ASTE5260 - Environmental Impacts of Agricultural Systems (CI) - 3cr.
- ASTE5620 - Food Security and Solutions - 3cr.
- ENVS5000 - Environmental Nonprofit and Volunteer Management - 3cr.
- GEOG2800 - Introduction to Geographic Information Sciences - 4cr.
- GEOG3100 - Human-Environment Geography (CI) - 3cr.

Additional Comments:
NOTE:

ASTE 5620 can only be applied to one of the supporting course categories.

Advisor: Dawnetta Mahnken
To Declare: Email Dawnetta Mahnken (dawnetta.mahnken@usu.edu) with your name and A number.

Program Learning Outcomes

Program Learning Outcomes
https://qanr.usu.edu/ndfs/assessment

History - Minor

Program Overview

College	Department	Program Level
College of Arts & Sciences	History, Cultures & Ideas	Undergraduate

Program Requirements

Total Credits Required To Earn This Credential
15

Simple Requisites

Program Requirements

A grade of *C* must be earned in all history courses used for the minor. Minor requirements may not be taken for a pass/fail grade. To graduate with a history minor, students must have a 2.5 minor GPA.

Section 1

Type
Completion Requirement

History Minor Requirements (15 credits)

Fulfill ALL of the following requirements:

History Survey Courses (3 credits

Complete at least 1 of the following courses:

- HIST1100 - European History to 1500 (BHU) - 3cr.
- HIST1110 - European History from 1500 (BHU) - 3cr.
- HIST1500 - Pre-Modern World (BHU) - 3cr.
- HIST1510 - The Modern World (BHU) - 3cr.
- HIST2700 - United States to 1877 (BAI) - 3cr.
- HIST2710 - United States 1877-Present (BAI) - 3cr.

Upper-Division Electives (12 credits)

Electives
Students should complete their remaining 12 credits by taking 3000-and 4000-level history courses for a total of 15 credits in the history minor. At least 3 upper-division credits must be taken in non-US history.

No more than 3 credits of HIST4930 DIRECTED READINGS may be applied toward the minor.

Program Learning Outcomes

Program Learning Outcomes
https://chass.usu.edu/history/assessments-resources/history-and-history-teaching/learning-objectives

History - BA

Program Overview

College
College of Arts & Sciences

Department
History, Cultures & Ideas

Program Level
Undergraduate

About this Degree

The History Department has been recognized by the American Historical Association as one of 12 outstanding history departments in the United States and Canada, selected for its "brilliant teaching and leadership." The department's strongest areas include the modern American West, classics, early modern Europe, and the Atlantic World.

USU history majors have the opportunity to work in-depth on undergraduate research projects. Students learn how to conduct and present their research all while taking advantage of faculty mentoring, study abroad opportunities, internships and more. Students learn the skills needed to research, analyze, think critically, and communicate clearly – all of which are highly valued skills in various career paths. About one-third of history graduates from USU go on to teaching, while two-thirds go into law, medicine, or business fields.

The preferred degree in the history program is the **BA**, which requires proficiency in a foreign language. Students may, however, choose to pursue the BS degree, which requires a significant amount of coursework in the College of Science.

- For more information about History, see the History Department website.
- Admitted and current students must meet with an academic advisor.
- Log on to Degree Works to check student-specific program progress.
- The highest math requirement for this degree is Quantitative Literacy (QL) of student's choice.

Admission Requirements for this Program

- New freshmen must be admitted to USU in Good Standing.
- Transfer students from other institutions or other programs at USU must have a 2.50 GPA.

Program Requirements

Total Credits Required In Program Coursework
36

Total Credits Required To Earn This Credential
120

Simple Requisites

Program Requirements

Minimum GPA for Graduation: 2.5, Major; 2.0, Cumulative

Number of Required Credits: 36

History majors must complete at least four introductory survey courses, two required methods courses, and a number of upper-division electives. Major requirement courses may not be taken pass/fail.

For those students interested in a BA degree, you must complete 16 credits in a single foreign language. See additional options in the Bachelor of Arts Track section below.

Bachelor of Arts Degree Language Requirement

For requirements for a Bachelor of Arts Degree in History, please see Minimum University Requirements (Bachelor's Degree) for required language credit.

History - BA

Type
Completion Requirement

History Major Lower-Division Requirements (12 credits)

Complete the following lower-division survey course requirements in sections A, B and C with a grade of C or better in each class, for a total of 12 credits

Fulfill ALL of the following requirements:

A. European Perspectives (3 credits)

Complete at least 1 of the following courses:

- HIST1100 - European History to 1500 (BHU) - 3cr.
- HIST1110 - European History from 1500 (BHU) - 3cr.

AND

B. World Perspectives (3 credits)

Complete at least 1 of the following courses:

- HIST1500 - Pre-Modern World (BHU) - 3cr.
- HIST1510 - The Modern World (BHU) - 3cr.

AND

C. American Perspectives (6 credits)

Complete ALL of the following Courses:

- HIST2700 - United States to 1877 (BAI) - 3cr.
- HIST2710 - United States 1877-Present (BAI) - 3cr.

NOTE: HIST1700 AMERICAN HISTORY (BAI) American History cannot be applied toward requirements for the history major or minor.

History Major Methods Requirements (6 credits)

Earn a minimum grade of C+ in the following:

- HIST3000 - History Research Methods - 3cr.
- HIST4990 - Undergraduate Research Capstone (CI) - 3cr.

History Upper-Division Course Electives (18 credits)

Earn at least 18 credits
Students take their remaining 18 credits in 3000- and 4000-level history courses (with a grade of C or better in each class). The upper-division classes provide a more focused, detailed and rigorous examination of historical periods and themes.

Any course with a HIST prefix at 3000 or above is acceptable as an elective. No more than 3 credits of HIST4930 DIRECTED READINGS Directed Readings may be applied toward the major.

Requirement for a Minor

See the following information:
Since the study of history requires an understanding of many fields of human behavior, students majoring in history must select a minor. These may include related disciplines such as religious studies, literature, economics, geography, anthropology, political science, sociology, classics, philosophy, and foreign languages, or students may choose a minor in any other program on campus.

Open Electives

Complete the following as needed:

Total elective credit is determined by General Education courses taken, degree type selected, additional credits earned, and any additional math or other prerequisite courses needed. Please consult your Academic Advisor for details.

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Bachelor's Degree)

Suggested Degree Maps

Degree Map Name
Suggested Degree Map - History BA
Total Degree Map Credits
124 - 125
Degree Map Effective Catalog Year
2027 -

Degree Map Narrative

- Following is a sample four-year plan. Please note that student-specific plans may differ.
- Meet with an academic advisor to create a specific plan that best fits your academic needs.
- The student is ultimately responsible for knowing and completing all degree requirements.
- Make sure you meet the registration requirements for each class by clicking the course link and checking any prerequisites or corequisites.
- Consultation with an advisor may result in an altered plan customized for an individual student.
- Check your Degree Works for requirements and completion.

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	15 - 16	0

Requirement Select
- A minimum grade of C is required in all HIST courses. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Communications Literacy (CL1) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- HIST1100 - European History to 1500 (BHU)
  OR
- HIST1500 - Pre-Modern World (BHU)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	C
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Quantitative Literacy (QL) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Breadth Social Sciences (BSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Breadth Physical Sciences (BPS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	15	0

Requirement Select

- A minimum grade of C is required in all HIST courses. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- HIST1110 - European History from 1500 (BHU)
  OR
- HIST1510 - The Modern World (BHU)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	C
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- HIST2700 - United States to 1877 (BAI)
  OR
- HIST2710 - United States 1877-Present (BAI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	C
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Breadth Creative Arts (BCA) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Breadth Life Sciences (BLS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	16	0

Requirement Select

- A minimum grade of C is required in HIST 3000 and Foreign Language 1010 course. Contact Advisor to declare the History - BA degree. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Communications Literacy (CL2) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- HIST3000 - History Research Methods

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	C
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Foreign Language 1010 Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Required Minor Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	16	0

Requirement Select
- A minimum grade of C is required in all HIST courses and Foreign Language 1020 course. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- HIST Upper-Division Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	C
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- HIST Upper-Division Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	C
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Foreign Language 1020 Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	C
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Required Minor Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Fall	16	0

Requirement Select
- A minimum grade of C is required in all HIST courses and Foreign Language 2010 course. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- HIST Upper-Division Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- HIST Upper-Division Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	C
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Foreign Language 2010 Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	C
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Upper-Division Quantitative Intensive (QI) Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Required Minor Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Spring	16	0

Requirement Select

- A minimum grade of C is required in all HIST courses and Foreign Language 2020 course. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Upper-Division Elective Communications Intensive (CI) Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- HIST Upper-Division Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	C
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Foreign Language 2020 Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	C
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Upper-Division Depth Life and Physical Sciences (DSC) Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Required Minor Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Fall	15	0

Requirement Select

- A minimum grade of C is required in all HIST courses. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- HIST4990 - Undergraduate Research Capstone (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	C
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Upper-Division Depth Social Sciences (DSS) Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- HIST Upper-Division Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	C
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Spring	15	0

Requirement Select
- A minimum grade of C is required in all HIST courses. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Required Minor Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- HIST Upper-Division Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	C
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Program Learning Outcomes

Program Learning Outcomes

https://artsci.usu.edu/history-cultures-ideas/history/assessments-resources/history-and-history-teaching/learning-objectives

History - BS

Program Overview

College	Department	Program Level
College of Arts & Sciences	History, Cultures & Ideas	Undergraduate

About this Degree

The History Department has been recognized by the American Historical Association as one of 12 outstanding history departments in the United States and Canada, selected for its "brilliant teaching and leadership." The department's strongest areas include the modern American West, classics, early modern Europe, and the Atlantic World.

USU history majors have the opportunity to work in-depth on undergraduate research projects. Students learn how to conduct and present their research all while taking advantage of faculty mentoring, study abroad opportunities, Internships, and more. Students learn the skills needed to research, analyze, think critically, and communicate clearly – all of which are highly valued skills in various career paths. About one-third of history graduates from USU go on to teaching, while two-thirds go into law, medicine, or business fields.

- For more information about History, see the History Department website.
- Admitted and current students must meet with an academic advisor.
- Log on to Degree Works to check student-specific program progress.
- The highest math requirement for this degree is Quantitative Literacy (QL) of student's choice.

Admission Requirements for this Program

- New freshmen must be admitted to USU in Good Standing.
- Transfer students from other institutions or other programs at USU must have a 2.50 GPA.

Program Requirements

Total Credits Required In Program Coursework	Total Credits Required To Earn This Credential
36	120

Simple Requisites

Program Requirements

Minimum GPA for Graduation: 2.5, Major; 2.0, Cumulative

Number of Required Credits: 36

Major requirement courses may not be taken pass/fail.

History majors must complete at least four introductory survey courses, two required methods courses, and a number of upper-division electives.

Major Requirements (36 credits)

Type
Completion Requirement

History Major Lower-Division Requirements (12 credits)

Complete the following lower-division survey course requirements in sections A, B, and C with a grade of C or better in each class, for a total of 12 credits.

Fulfill ALL of the following requirements:

A. European Perspectives (3 credits)

Complete at least 1 of the following courses:

- HIST1100 - European History to 1500 (BHU) - 3cr.
- HIST1110 - European History from 1500 (BHU) - 3cr.

AND

B. World Perspectives (3 credits)

Complete at least 1 of the following courses:

- HIST1500 - Pre-Modern World (BHU) - 3cr.
- HIST1510 - The Modern World (BHU) - 3cr.

AND

C. American Perspectives (6 credits)

Complete ALL of the following Courses:

- HIST2700 - United States to 1877 (BAI) - 3cr.
- HIST2710 - United States 1877-Present (BAI) - 3cr.

NOTE:

HIST1700 AMERICAN HISTORY (BAI) American History may not be counted toward the history major.

History Required Methods Courses (6 credits)

After satisfying the lower-division major requirements, students will complete two required methods courses (HIST3000 HISTORY RESEARCH METHODS and HIST4990 UNDERGRAD RSRCH CAPSTONE (CI)), and they must earn a C+ grade or better in each class to earn credit toward the major.

Earn a minimum grade of C+ in the following:

- HIST3000 - History Research Methods - 3cr.
- HIST4990 - Undergraduate Research Capstone (CI) - 3cr.

History Upper-Division Course Electives (18 credits)

Complete the following:
Students take their remaining 18 credits in 3000- and 4000-level history courses (with a grade of C or better in each class). The upper-division classes provide a more focused, detailed and rigorous examination of historical periods and themes.

Any course with a HIST prefix at 3000 or above is acceptable as an elective. No more than 3 credits of HIST4930 DIRECTED READINGS Directed Readings may be applied toward the major.

Bachelor of Science Track (3 Credits)

- Students interested in a BS degree must complete 3 credits using EITHER Option A **or** Option B below.
- Students who minor in a science field will automatically fulfill the BS requirement through their minor.

Fulfill ANY of the following requirements:

Option A

Complete one of the following courses with a grade of C or better:

Complete at least 1 of the following courses:

- HIST3900 - Science and Technology in World History (DSC) - 3cr.
- HIST3910 - Health, Disease, and Medicine in North America (DHA) - 3cr.
- HIST3950 - Environmental History (DHA/CI) - 3cr.
- HIST4020 - Public History - 3cr.
- HIST4625 - The History of Natural Disasters (DHA) - 3cr.
- HIST4940 - Historical Internship - 1cr.
- HIST4945 - Archives Management/Archives Internship - 1cr.
- RELS3125 - Religion & Science: Examining a Complex History of Interaction - 3cr.

OR

Option B

Complete the following:
Students must complete one course from the approved list of BLS, BPS, BSS, DSC, or DSS courses with a grade of C- or higher. This cannot be a course that is already being used to fulfill a basic General Education science or social science requirement.

Requirement for a Minor

See the following information:
Since the study of history requires an understanding of many fields of human behavior, students majoring in history must select a minor. These may include related disciplines such as religious studies, literature, economics, geography, anthropology, political science, sociology, classics, philosophy, and foreign languages, or students may choose a minor in any other program on campus.

Students who minor in a science field will fulfill the Mathematics and Science Track requirements of the BS degree through their minor.

Open Electives

Complete the following as needed:
Total elective credit is determined by General Education courses taken, degree type selected, additional credits earned, and any additional math or other prerequisite courses needed. Please consult your Academic Advisor for details.

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Bachelor's Degree)

Suggested Degree Maps

Degree Map Name
Suggested Degree Map - History BS
Total Degree Map Credits
122 - 123
Degree Map Effective Catalog Year
2027 -

Degree Map Narrative

- Following is a sample four-year plan. Please note that student-specific plans may differ.
- Meet with an academic advisor to create a specific plan that best fits your academic needs.

- The student is ultimately responsible for knowing and completing all degree requirements.
- Make sure you meet the registration requirements for each class by clicking the course link and checking any prerequisites or corequisites.
- Consultation with an advisor may result in an altered plan customized for an individual student.
- Check your Degree Works for requirements and completion.

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	15 - 16	0

Requirement Select
- A minimum grade of C is required in all HIST courses. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Communications Literacy (CL1) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- HIST1100 - European History to 1500 (BHU)

OR
- HIST1500 - Pre-Modern World (BHU)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	C
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Breadth Social Sciences (BSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Quantitative Literacy (QL) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Breadth Physical Sciences (BPS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	15	0

Requirement Select
- A minimum grade of C is required in all HIST courses. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- HIST1110 - European History from 1500 (BHU)
  OR
- HIST1510 - The Modern World (BHU)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	C
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- HIST2700 - United States to 1877 (BAI)
  OR
- HIST2710 - United States 1877-Present (BAI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	C
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Breadth Creative Arts (BCA) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Breadth Life Sciences (BLS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	16	0

Requirement Select

- A minimum grade of C- is required in HIST BS Science series course; A minimum grade of C+ or higher is required in HIST 3000. Contact advisor to declare History, BS degree (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Communications Literacy (CL2) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- HIST: 1st course from BS Science Series (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- HIST3000 - History Research Methods

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Required Minor Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	16	0

Requirement Select

- A minimum grade of C is required in all HIST upper-division elective courses. A minimum grade of C- or higher is required in the 2nd course in BS Science series. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- HIST: 2nd course from BS Science Series (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- HIST Upper-Division Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	C
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- HIST Upper-Division Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	C
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Required Minor Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Fall	15	0

Requirement Select

- A minimum grade of C is required in all HIST courses. A minimum grade of C- or higher is required in HIST: STATS (QI) course. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- HIST Upper-Division Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	C
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- HIST Upper-Division Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	C
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Upper-Division HIST: STATS course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	C-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Upper-Division Depth Social Sciences (DSS) Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Required Minor Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Spring	15	0

Requirement Select

- A minimum grade of C is required in all HIST courses. A C- or higher is required in a 2000, 3000, or 4000-level science course with one of the following prefixes: BIOL, CHEM, CS, GEO, MATH, STAT or PHYS. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- HIST Upper-Division Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	C
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- HIST: Science Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	C-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Upper-Division Depth Life and Physical Sciences (DSC) Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	C-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Required Minor Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Fall	15	0

Requirement Select
- A minimum grade of C is required in all HIST Upper-Division Elective Courses. A minimum grade of C+ or higher is required in HIST 4990. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- HIST4990 - Undergraduate Research Capstone (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	C
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- HIST Upper-Division Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	C
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- HIST Upper-Division Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	C
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Required Minor Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Spring	15	0

Requirement Select
- Required Minor Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Upper-Division Communications Intensive (CI) Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	Total Major Credits
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Program Learning Outcomes

Program Learning Outcomes

https://artsci.usu.edu/history-cultures-ideas/history/assessments-resources/history-and-history-teaching/learning-objectives

History: Teaching Emphasis - BA

Program Overview

College	Department	Program Level
College of Arts & Sciences	History, Cultures & Ideas	Undergraduate

About this Degree

The History Department has been recognized by the American Historical Association as one of 12 outstanding history departments in the United States and Canada, selected for its "brilliant teaching and leadership." The department's strongest areas include the modern American West, classics, history of religions, early modern Europe, and the Atlantic World.

USU history majors have the opportunity to work in-depth on undergraduate research projects. Students learn how to conduct and present their research all while taking advantage of faculty mentoring, study abroad opportunities, Internships, and more. Students learn the skills needed to research, analyze, think critically, and communicate clearly – all of which are highly valued skills in various career paths. About one-third of history graduates from USU go on to teaching, while two-thirds go into law, medicine, or business fields.

History Teaching Emphasis: This emphasis is for students interested in teaching, particularly in secondary education. Students will complete history courses and will also be required to take a number of classes that will prepare them to be educators.

- For more information about History: Teaching Emphasis, see the History Department website.
- Admitted and current students must meet with an academic advisor.
- Log on to Degree Works to check student-specific program progress.
- The highest math requirement for this degree is the Quantitative Literacy (QL) of the student's choice.

Admission Requirements for this Program

- New freshmen must be admitted to USU in Good Standing.
- Transfer students from other institutions or other programs at USU must have a 3.0 GPA.

Program Requirements

Total Credits Required In Program Coursework	Total Credits Required To Earn This Credential
36 + STEP (35 credits)	120

Simple Requisites

Program Requirements

History Teaching Emphasis requires 36 credits in history (HIST) and completion of the Secondary Teacher Education Program (STEP).

Minimum GPA for Admission to STEP: 3.0, Major; 2.0 Cumulative

Minimum GPA for Graduation: 3.0, Major; 2.0, USU

Number of Required Credits: 36, plus the Secondary Teaching Education Program (STEP)

History Teaching Emphasis Majors must complete at least five introductory survey courses, two required methods courses, and a number of upper-division electives. Additionally, students must complete the STEP program and graduate with a 3.0 overall GPA for licensure recommendation to be made by USU to the Utah State Board of Education. Major requirements may not be taken for a pass/fail grade except for those STEP courses that are only taught pass/fail.

The History Department does not accept AP credit for use towards the teaching emphasis.

For those students interested in a BA degree, you must complete:

- 16 credits in a single foreign language (see additional options in the Bachelor of Arts Language Track section below.)

History: Teaching Emphasis - BA

Type
Completion Requirement

History Teaching Emphasis Lower-Division Course Requirements (21 credits)

Complete the following course requirements in sections A, B, C, D, and E with a grade of **C** or better in each class, for a total of 21 credits.

Fulfill ALL of the following requirements:

A. European Perspectives (3 credits)

Complete at least 1 of the following courses:

- HIST1100 - European History to 1500 (BHU) - 3cr.
- HIST1110 - European History from 1500 (BHU) - 3cr.

AND

B. World Perspectives (6 credits)

Complete ALL of the following Courses:

- HIST1500 - Pre-Modern World (BHU) - 3cr.
- HIST1510 - The Modern World (BHU) - 3cr.

AND

C. American Perspectives (6 credits)

Complete ALL of the following Courses:

- HIST2700 - United States to 1877 (BAI) - 3cr.
- HIST2710 - United States 1877-Present (BAI) - 3cr.

NOTE:

HIST1700 AMERICAN HISTORY (BAI) American History cannot be applied toward requirements for the history major or minor.

AND

D. Utah History (3 credits)

Complete ALL of the following Courses:

- HIST3850 - History of Utah (DHA/CI) - 3cr.

AND

E. History of Traditionally Underrepresented Communities (3)

Complete at least 1 of the following courses:

- HIST2018 - Introduction to Native American History and Culture (BSS) - 3cr.
- HIST2730 - Writing about Indigenous Histories and Cultures (CL2) - 3cr.
- HIST3615 - Latinx History - 3cr.
- HIST3670 - Slavery in the Atlantic World (CI) - 3cr.
- HIST4540 - Gender, Violence, and Non-violence - 3cr.
- HIST4550 - Women and Gender in America (DHA/CI) - 3cr.
- HIST4650 - Women and Gender in the US West - 3cr.
- HIST4710 - American Indian History - 3cr.
- HIST4711 - Northern Ute History (DHA) - 3cr.
- HIST4720 - The Civil Rights Movement (DHA/CI) - 3cr.
- HIST4730 - History of Black America (CI) - 3cr.

History Required Methods Courses (6 credits)

Students will complete two required methods courses (HIST3000 HISTORY RESEARCH METHODS and HIST4990 UNDERGRAD RSRCH CAPSTONE (CI)), and they must earn a **C+** grade or better in each class to earn credit toward the major.

Complete ALL of the following Courses:

- HIST3000 - History Research Methods - 3cr.
- HIST4990 - Undergraduate Research Capstone (CI) - 3cr.

Upper-Division Course Electives (9 credits)

Earn at least 9 credits
Students take their remaining 9 credits in 3000- and 4000-level history courses (with a grade of **C** or better in each class). The upper-division classes provide a more focused, detailed and rigorous examination of historical periods and times.

Any course with a HIST prefix at the 3000 level or above is acceptable as an elective. No more than 3 credits of HIST4930 DIRECTED READINGS may be applied toward the major.

Bachelor of Arts Language Track (16 credits)

See the following for information about language course requirements:
Minimum University Requirements (Bachelor's Degree)

Required Courses for the Secondary Teacher Education Program (STEP) (35 credits)

To begin the admission process to the STEP, students should see their advisor at least two semesters before they begin Level I coursework. STEP admission deadlines are March 1 for Fall and October 1 for Spring. Please contact the College of Education for minimum grade requirements.

Fulfill ALL of the following requirements:

STEP Requirements

Complete ALL of the following Courses:

- SCED3210 - Educational and Multicultural Foundations (DSS/CI) - 3cr.
- SCED3300 - Clinical Experience I - 1cr.
- SCED3500 - Teaching Social Studies - 3cr.
- SCED4300 - Clinical Experience II - 1cr.
- SCED5100 - Motivation and Classroom Management - 3cr.
- SCED5200 - Language, Literacy, and Learning in the Content Areas (CI) - 3cr.
- SCED5210 - Learning Theory, Curriculum, and Assessment - 3cr.
- SCED5500 - Student Teaching Seminar - 2cr.
- SCED5630 - Student Teaching in Secondary Schools - 10cr.
- SPED4000 - Education of Students with Disabilities - 3cr.
- ITLS2500 - Technology Enabled Instruction - 3cr.

• Students must complete one methods course in history (HIST4990 UNDERGRAD RSRCH CAPSTONE (CI)) and a methods course for their minor (see advisor for the appropriate course).

Open Electives

Complete the following as needed:

Total elective credit is determined by General Education courses taken, degree type selected, additional credits earned, and any additional math or other prerequisite courses needed. Please consult your Academic Advisor for details.

Additional Comments:

Licensure Notification

This program typically leads to licensure and was designed to meet licensing qualifications in the state of Utah. If students wish to work in another state within the United States, they should review the qualifications for that state and the Education Licensure Compliance Table provided by School of Teacher Education and Leadership.

For more information, please contact the School of Teacher Education and Leadership at https://cehs.usu.edu/teal/.

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Bachelor's Degree)

Suggested Degree Maps

Degree Map Name
Suggested Degree Map - History: Teaching Emphasis BA
Total Degree Map Credits
141 - 142
Degree Map Effective Catalog Year
2027 -

Degree Map Narrative

- Following is a sample four-year plan. Please note that student-specific plans may differ.
- Meet with an academic advisor to create a specific plan that best fits your academic needs.
- The student is ultimately responsible for knowing and completing all degree requirements.
- Make sure you meet the registration requirements for each class by clicking the course link and checking any prerequisites or corequisites.
- Consultation with an advisor may result in an altered plan customized for an individual student.
- Check your Degree Works for requirements and completion.

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	15 - 16	0

Requirement Select
- A minimum grade of C is required in all HIST courses (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Communications Literacy (CL1) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- HIST1100 - European History to 1500 (BHU)
  OR
- HIST1500 - Pre-Modern World (BHU)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	C
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Quantitative Literacy (QL) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Breadth Social Sciences (BSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Breadth Creative Arts (BCA) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	15	0

Requirement Select
- A minimum grade of C is required in all HIST courses. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- HIST1110 - European History from 1500 (BHU)
  OR
- HIST1510 - The Modern World (BHU)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	C
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- HIST2700 - United States to 1877 (BAI)
  OR
- HIST2710 - United States 1877-Present (BAI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	C
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Required Teaching Minor Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Breadth Life Sciences (BLS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Breadth Physical Sciences (BPS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	16	0

Requirement Select

- A minimum grade of C+ or higher is required in HIST 3000 and a minimum grade of C is required in the Foreign Language 1010 course. Contact advisor to declare History Teaching emphasis, BA degree. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Communications Literacy (CL2) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- HIST3000 - History Research Methods

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	C+
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Required Teaching Minor Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Required Teaching Minor Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Foreign Language 1010 Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	C
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	16	0

Requirement Select

- A minimum grade of C is required in all HIST courses and in the Foreign Language 1020 course. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Required Teaching Minor Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- HIST Upper-Division Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	C
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Foreign Language 1020 Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	C
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- HIST Upper-Division Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	C
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- HIST Upper-Division Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	C
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Fall	16	0

Requirement Select

- A minimum grade of C is required in the HIST Upper-Division course and the Foreign Language 2010 course. Apply for STEP program (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Depth Social Sciences (DSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- HIST Upper-Division Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	C
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Foreign Language 2010 Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	C
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Required Teaching Minor Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Quantitative Intensive (QI) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Spring	16	0

Requirement Select
- A minimum grade of C is required in all HIST Upper-Division courses and the Foreign Language 2020 course. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- HIST Upper-Division Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	C
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- HIST Upper-Division Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	C
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Foreign Language 2020 Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	C
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Required Teaching Minor Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Required Teaching Minor Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Fall	19	0

Requirement Select

- A minimum grade of C is required in HIST Upper-Division course, minimum grade of C+ or higher in HIST 4990, and minimum grade of C or higher in SCED 3500. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- For SPED 4000, ITLS 2500, SCED 3210, and SCED 3300, please contact the College of Education for minimum grade requirements. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- HIST Upper-Division Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	C
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- HIST4990 - Undergraduate Research Capstone (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	C
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- HIST4990 - Undergraduate Research Capstone (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	C
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- ITLS2500 - Technology Enabled Instruction

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- SCED3210 - Educational and Multicultural Foundations (DSS/CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- SCED3300 - Clinical Experience I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- SCED3500 - Teaching Social Studies

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Spring	16	0

Requirement Select

- A minimum grade of C or higher is required in the Upper-Division minor course. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Teaching minors average 30 credits (can vary from 18-45) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- SCED5200 - Language, Literacy, and Learning in the Content Areas (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- SCED5210 - Learning Theory, Curriculum, and Assessment

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- SCED5100 - Motivation and Classroom Management

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Required Teaching Minor Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- SCED4300 - Clinical Experience II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- Required Upper-Division Minor Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	C
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 5	Fall	12	0

Requirement Select

- A 3.0 overall GPA is required for licensure recommendation to the Utah State Board of Education. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- For these courses, please contact the College of Education for minimum grade requirements (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- SCED5500 - Student Teaching Seminar

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select

- SCED5630 - Student Teaching in Secondary Schools

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	10
Progress Credits	-
Contact Hours	10
Clinical	-
Criticality	No

Total General Education Credits	Total Major Credits
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Program Learning Outcomes

Program Learning Outcomes

https://www.usu.edu/oda/assessment/

History: Teaching Emphasis - BS

Program Overview

College
College of Arts & Sciences

Department
History, Cultures & Ideas

Program Level
Undergraduate

About this Degree

The History Department has been recognized by the American Historical Association as one of 12 outstanding history departments in the United States and Canada, selected for its "brilliant teaching and leadership." The department's strongest areas include the modern American West, history of religions, classics, early modern Europe, and the Atlantic World.

USU history majors have the opportunity to work in-depth on undergraduate research projects. Students learn how to conduct and present their research all while taking advantage of faculty mentoring, study abroad opportunities, internships, and more. Students learn the skills needed to research, analyze, think critically, and communicate clearly – all of which are highly valued skills in various career paths. About one-third of history graduates from USU go on to teaching, while two-thirds go into law, medicine, or business fields.

History Teaching Emphasis: This emphasis is for students interested in teaching, particularly in secondary education. Students will complete history courses and will also be required to take a number of classes that will prepare them to be educators.

- For more information about History: Teaching Emphasis, see the History Department website.
- Admitted and current students must meet with an academic advisor.
- Log on to Degree Works to check student-specific program progress.
- The highest math requirement for this degree is the Quantitative Literacy (QL) of the student's choice.

Admission Requirements for this Program

- New freshmen must be admitted to USU in Good Standing.
- Transfer students from other institutions or other programs at USU must have a 3.0 GPA.

Program Requirements

Total Credits Required In Program Coursework
36 + STEP (35 credits) = 71

Total Credits Required To Earn This Credential
120

Simple Requisites

Program Requirements

Major Requirements (36 credits)

History Teaching Emphasis requires 36 credits in history (HIST) and completion of the Secondary Teacher Education Program (STEP).

Minimum GPA for Admission to STEP: 3.0 Major, 2.0 Cumulative

Minimum GPA for Graduation: 3.0 Major, 2.0 Cumulative

Number of Required Credits: 36 plus the Secondary Teacher Education Program (STEP)

History Teaching Emphasis Majors must complete at least five introductory survey courses, two required methods courses, and a number of upper-division electives. Additionally, students must complete the STEP program and graduate with a 3.0 overall GPA for licensure recommendation to be made by USU to the Utah State Board of Education. Major requirements may not be taken for a pass/fail grade except for those STEP courses that are only taught pass/fail.

- The History Department does **not** accept AP credit for use towards the teaching emphasis.
- In all instances, a grade of *C-* or better is required for any math or science course to be applied toward a BS degree.
- Students who minor in a science field will fulfill the BS requirement through their minor.

Additional Information

Students are encouraged to pursue an additional subject endorsement, a teaching minor, certificate, or other credential to broaden their career possibilities. Consult with an academic advisor to learn more.

History: Teaching Emphasis - BS

Type
Completion Requirement

History Teaching Emphasis Course Requirements

Complete the following course requirements in sections A, B, C, D, and E with a grade of **C** or better in each class, for a total of 21 credits.

Fulfill ALL of the following requirements:

A. European Perspectives (3 credits)

Complete at least 1 of the following courses:

- HIST1100 - European History to 1500 (BHU) - 3cr.
- HIST1110 - European History from 1500 (BHU) - 3cr.

AND

B. World Perspectives (6 credits)

Complete ALL of the following Courses:

- HIST1500 - Pre-Modern World (BHU) - 3cr.
- HIST1510 - The Modern World (BHU) - 3cr.

AND

C. American Perspectives (6 credits)

Complete ALL of the following Courses:

- HIST2700 - United States to 1877 (BAI) - 3cr.
- HIST2710 - United States 1877-Present (BAI) - 3cr.

NOTE:
HIST1700 AMERICAN HISTORY (BAI) American History cannot be applied toward requirements for the History major or Minor.

AND

D. Utah History (3 credits)

Complete ALL of the following Courses:

- HIST3850 - History of Utah (DHA/CI) - 3cr.

AND

E. History of Traditionally Underrepresented Communities (3 credits)

Complete at least 1 of the following courses:

- HIST2018 - Introduction to Native American History and

Culture (BSS) - 3cr.
- HIST2730 - Writing about Indigenous Histories and Cultures (CL2) - 3cr.
- HIST3615 - Latinx History - 3cr.
- HIST3670 - Slavery in the Atlantic World (CI) - 3cr.
- HIST4540 - Gender, Violence, and Non-violence - 3cr.
- HIST4550 - Women and Gender in America (DHA/CI) - 3cr.
- HIST4650 - Women and Gender in the US West - 3cr.
- HIST4710 - American Indian History - 3cr.
- HIST4711 - Northern Ute History (DHA) - 3cr.
- HIST4720 - The Civil Rights Movement (DHA/CI) - 3cr.
- HIST4730 - History of Black America (CI) - 3cr.

History Required Methods Courses (6 credits)

Students will complete two required methods courses (HIST3000 HISTORY RESEARCH METHODS and HIST4990 UNDERGRAD RSRCH CAPSTONE (CI)), and they must earn a **C+** grade or better in each class to earn credit toward the major.

Complete ALL of the following Courses:
- HIST3000 - History Research Methods - 3cr.
- HIST4990 - Undergraduate Research Capstone (CI) - 3cr.

Upper-Division Course Electives (9 credits)

Earn at least 9 credits
Students will take their remaining 9 credits in 3000- and 4000-level history courses (with a grade of **C** or better in each class). The upper-division classes provide a more focused, detailed and rigorous examination of historical periods and times.

Any course with a HIST prefix at the 3000-level or above is acceptable as an elective. No more than 3 credits of HIST4930 DIRECTED READINGS may be applied toward the major.

Required Courses for the Secondary Teacher Education Program (STEP) (35 credits)

To begin the admission process to the STEP, students should see their advisor at least two semesters before they begin Level I coursework. STEP admission deadlines are March 1 for Fall and October 1 for Spring. Please contact the College of Education for minimum grade requirements.

Fulfill ALL of the following requirements:

STEP Requirements

Complete ALL of the following Courses:
- ITLS2500 - Technology Enabled Instruction - 3cr.
- SCED3210 - Educational and Multicultural Foundations (DSS/CI) - 3cr.
- SCED3300 - Clinical Experience I - 1cr.
- SCED3500 - Teaching Social Studies - 3cr.
- SCED4300 - Clinical Experience II - 1cr.
- SCED5100 - Motivation and Classroom Management - 3cr.
- SCED5200 - Language, Literacy, and Learning in the Content Areas (CI) - 3cr.
- SCED5210 - Learning Theory, Curriculum, and Assessment - 3cr.
- SCED5500 - Student Teaching Seminar - 2cr.
- SCED5630 - Student Teaching in Secondary Schools - 10cr.
- SPED4000 - Education of Students with Disabilities - 3cr.

● Students must complete one methods course in history (HIST 4990) and a methods course for their minor (see advisor for the appropriate course).

Bachelor of Science Track (3 credits)

Students interested in a BS degree must complete 3 credits using EITHER Option A OR Option B below.
Students who minor in a science field will automatically fulfill the BS requirement through their minor.

Fulfill ANY of the following requirements:

Option A

Complete ONE of the following courses with a grade of **C** or better:

Complete at least 1 of the following courses:
- HIST3900 - Science and Technology in World History (DSC) - 3cr.
- HIST3910 - Health, Disease, and Medicine in North America (DHA) - 3cr.
- HIST3950 - Environmental History (DHA/CI) - 3cr.
- HIST4020 - Public History - 3cr.
- HIST4625 - The History of Natural Disasters (DHA) - 3cr.
- HIST4940 - Historical Internship - 1cr.
- HIST4945 - Archives Management/Archives Internship - 1cr.
- HIST3125 - Religion & Science: Examining a Complex History of Interaction - 3cr.
  OR RELS3125 - Religion & Science: Examining a Complex History of Interaction - 3cr.

OR

Option B

Complete the following:
Students must complete one course from the approved list of General Education Requirements for BLS, BPS, BSS, Depth Life and Physical Sciences (DSC) or Depth Social Sciences (DSS) courses with a grade of **C-** or higher. This cannot be a course that is already being used to fulfill a basic General Education Science or Social Science requirement.

Open Electives

Complete the following as needed:
Total elective credit is determined by General Education courses taken, degree type selected, additional credits earned, and any additional math or other prerequisite courses needed. Please consult your Academic Advisor for details.

Additional Comments:

Licensure Notification

This program typically leads to licensure and was designed to meet licensing qualifications in the state of Utah. If students wish to work in another state within the United States, they should review the qualifications for that state and the Education Licensure Compliance Table provided by School of Teacher Education and Leadership.

For more information, please contact the School of Teacher Education and Leadership at https://cehs.usu.edu/teal/

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Bachelor's Degree)

Suggested Degree Maps

Degree Map Name
Suggested Degree Map - History: Teaching Emphasis BS
Total Degree Map Credits
121 - 122
Degree Map Effective Catalog Year
2027 -

Degree Map Narrative

- Following is a sample four-year plan. Please note that student-specific plans may differ.
- Meet with an academic advisor to create a specific plan that best fits your academic needs.
- The student is ultimately responsible for knowing and completing all degree requirements.
- Make sure you meet the registration requirements for each class by clicking the course link and checking any prerequisites or corequisites.
- Consultation with an advisor may result in an altered plan customized for an individual student.
- Check your Degree Works for requirements and completion.

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	15 - 16	0

Requirement Select
- A minimum grade of C is required in all HIST courses. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Communications Literacy (CL1) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- HIST1100 - European History to 1500 (BHU)
  OR
- HIST1500 - Pre-Modern World (BHU)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Breadth Social Sciences (BSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Quantitative Literacy (QL) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Breadth Physical Sciences (BPS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	15	0

Requirement Select

- A minimum grade of C is required in all HIST courses. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- HIST1110 - European History from 1500 (BHU)
  OR
- HIST1510 - The Modern World (BHU)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- HIST2700 - United States to 1877 (BAI)
  OR
- HIST2710 - United States 1877-Present (BAI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Breadth Creative Arts (BCA) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Breadth Life Sciences (BLS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	15	0

Requirement Select

- A minimum grade of C- is required in HIST BS Science series course; A minimum grade of C+ or higher is required in HIST 3000. Contact advisor to declare History, BS degree (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Communications Literacy (CL2) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- HIST: 1st course from BS Science Series (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- HIST3000 - History Research Methods

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Required Minor Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	16	0

Requirement Select

- A minimum grade of C is required in all HIST upper-division elective courses. A minimum grade of C- or higher is required in the 2nd course in BS Science series. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- HIST: 2nd course from BS Science Series (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- HIST Upper-Division Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- HIST Upper-Division Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Required Minor Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Fall	15	0

Requirement Select
- A minimum grade of C is required in all HIST courses. A minimum grade of C- or higher is required in HIST: STATS (QI) course. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- HIST Upper-Division Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- HIST Upper-Division Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Upper-Division HIST: STATS course (QI) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Upper-Division Depth Social Sciences (DSS) Course (Generic)

  OR
- Depth Social Sciences (DSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Required Minor Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Spring	15	0

Requirement Select

- A minimum grade of C is required in all HIST courses. A C- or higher is required in a 2000, 3000, or 4000-level science course with one of the following prefixes: BIOL, CHEM, CS, GEO, MATH, STAT or PHYS. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- HIST Upper-Division Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- HIST: Science Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Upper-Division Depth Life and Physical Sciences (DSC) Course (Generic)
  OR
- Depth Life and Physical Sciences (DSC) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Required Minor Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Fall	15	0

Requirement Select

- A minimum grade of C is required in all HIST Upper-Division Elective Courses. A minimum grade of C+ or higher is required in HIST 4990. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- HIST4990 - Undergraduate Research Capstone (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- HIST Upper-Division Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- HIST Upper-Division Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Required Minor Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Spring	15	0

Requirement Select

- Required Minor Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Upper-Division Communications Intensive (CI) Course (Generic)

  OR
- Communications Intensive (CI) Courses

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select	• Elective Course (Generic)
Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Program Learning Outcomes

Program Learning Outcomes

https://artsci.usu.edu/history-cultures-ideas/history/assessments

History - MA

Program Overview

College	Department	Program Level
College of Arts & Sciences	History, Cultures & Ideas	Graduate

About this Degree

The Department of History has been recognized by the American Historical Association as one of 12 outstanding history departments in the United States and Canada, selected for its “brilliant teaching and leadership.”

The department's graduate program attracts students from across the United States and overseas. Because the department limits its entering class to approximately 12, every graduate student is important. Moreover, master's-level students are not competing with doctoral students for the faculty's time or for history-related work experiences.

Faculty members have a broad array of specialties, so students can study a variety of time periods and geographic areas in history. In particular, the department has strengths in environmental history, religious studies, and the history of the American West.

This is an in-person, terminal Master's program normally conducted over the course of two years. Options for part-time students are also available. For more information on the program and admission requirements, visit https://www.usu.edu/degrees-majors/history_ma_ms.

Admission Requirements for this Program

https://www.usu.edu/degrees-majors/history_ma_ms

Program Requirements

Total Credits Required In Program Coursework	Total Credits Required To Earn This Credential
30	30

Simple Requisites

Program Requirements

To receive a Master of Arts (MA) degree, students must demonstrate reading competency in a foreign language. In History, the MA is considered the research degree. Students planning to continue on for a doctorate should be aware that many doctoral programs in history require that students pass written proficiency exams in two or more languages.

Students may demonstrate current competence through any one of three methods:

- successful completion of two years (four semesters) of foreign language at the undergraduate level (either as an undergraduate or as a graduate student),
- passing the USU-administered language exam by showing proficiency at least up to a second-semester, second-year level of language classes,
- or taking a 3000- or 4000-level language course with a grade of *C* or higher.

Additional Requirements

- A bachelor's degree from an accredited U.S. college or university or a similarly recognized international university is required for admission to and completion of a graduate program.

- Graduate students are required to maintain at least a 3.0 GPA for degree-program courses. Grades of B- or lower will not be accepted for a graduate degree.
- The Program of Study for a master's degree must include at least 18 semester credits at the level of 6000 or above.
- Credits in the following areas are not acceptable in a degree program: foreign languages (unless included in an approved Program of Study), continuing graduate advisement, individual home study, military science, and courses numbered below 5000. Students are not allowed more than 12 credits of coursework at the 5000 level.
- The History MA degree must be completed within six years of entering the degree program. Additional time may be requested by the student's committee and submitted to the Vice Provost of Graduate Studies for review.
- Coursework over eight years old at the time of degree completion may not be used for a graduate degree unless it is revalidated.
- Successful defense and submission of the thesis or dissertation to the library.
- Approval of academic forms required for master's students by the School of Graduate Studies:

o Supervisory Committee Approval Form
o Program of Study
o Responsible Conduct of Research training, a brief online training on ethical conduct in research that the university requires
o Thesis Proposal Defense/Approval
o Appointment for Examination
o Record of Examination
o Successful defense and submission of the thesis to the library.
o Other forms may be required; for details refer to the Graduate Student Handbook.

Plan A: Master of Arts Degree (Thesis-HISTORY)

Type
Completion Requirement

Core Requirements

The Plan A option for a master's degree requires the preparation and defense of a thesis. The thesis option should be taken by anyone intending to do research or enter another program for the doctoral degree.

The program consists of 30 semester credits beyond the bachelor's degree.

Complete ALL of the following Courses:

- HIST6000 - Historical Methods and Research - 3cr.
- HIST6010 - History and Theory - 3cr.
- HIST6030 - Research Seminar - 3cr.
- HIST6970 - Thesis Research - 1cr.

NOTE:

1. HIST6970 THESIS RESEARCH - Plan A students take 6 credits

Additional Requirements

The remainder (15 credits) of the 30 credits may be taken as electives in history. Students may complete relevant courses to the degree outside the department if approved by supervisory committee and the Director of Graduate Studies. Students may apply a maximum of 4 internship credits earned toward the total credits required for the program. No more than 3 credits of HIST 6900 Directed Studies may be applied to the degree. Students interested in public history should also take HIST6020 PUBLIC HISTORY.

Please note that only a small selection of courses listed below are offered each semester. Check with the Director of Graduate Studies for the upcoming schedule.

Complete at least 5 of the following courses:

- HIST6020 - Public History - 3cr.
- HIST6165 - The History of Total War - 3cr.
- HIST6200 - Special Topics: Comparative World History - 3cr.
- HIST6230 - Special Topics: Middle Eastern History - 3cr.
- HIST6260 - Special Topics: Asian History - 3cr.
- HIST6300 - Special Topics: African History - 3cr.
- HIST6330 - Special Topics: Latin American History - 3cr.
- HIST6400 - Special Topics: American History - 3cr.
- HIST6410 - Special Topics in Mormon History and Culture - 1cr.
- HIST6420 - Special Topics in Religious History - 3cr.
- HIST6430 - Special Topics: Western American History - 3cr.
- HIST6460 - Seminar in Environmental History - 3cr.
- HIST6500 - Archiving Internship - 2cr.
- HIST6520 - Editing Internship - 2cr.
- HIST6540 - Museum Internship - 2cr.
- HIST6560 - Professional Internship - 2cr.
- HIST6580 - Teaching Internship - 2cr.
- HIST6610 - Seminar on the American West - 3cr.
- HIST6620 - Seminar in Native American Studies - 3cr.
- HIST6700 - Introduction to Folklore Studies - 3cr.
- HIST6710 - Folklore, Landscape, and Place - 3cr.
- HIST6720 - Oral History and Fieldwork Methods - 3cr.
- HIST6740 - Folk Narrative - 3cr.
- HIST6770 - Seminar in Folklore and Folklife - 3cr.
- HIST6800 - History of Books, Manuscripts, and Paleography - 3cr.
- HIST6840 - Archives Management/Archives Internship - 1cr.
- HIST6900 - Directed Studies - 1cr.

Plan B: Master of Arts Degree (Non-thesis-HISTORY)

Type
Completion Requirement

Course Requirements

A non-thesis master's plan can lead a student toward many career paths and is especially suited to those interested in public history. Students completing the Plan B do not write a full-length thesis. Instead, Plan B students develop a project agreed upon by the supervisory committee, such as a digital or physical exhibit or a series of lesson plans, accompanied by a written component.

The program consists of 30 credits beyond the bachelor's degree.

Complete ALL of the following Courses:

- HIST6000 - Historical Methods and Research - 3cr.
- HIST6010 - History and Theory - 3cr.
- HIST6030 - Research Seminar - 3cr.
- HIST6970 - Thesis Research - 1cr.

NOTE:

1. HIST6970 THESIS RESEARCH - Plan B students take 3 credits

Additional Requirements

The remainder (18 credits) of the 30 credits may be taken as electives in history. Students may complete relevant courses to the degree outside the department if approved by supervisory committee and the Director of Graduate Studies. Students may apply a maximum of 4 internship credits earned toward the total credits required for the program. No more than 3 credits of HIST 6900 Directed Studies may be applied to the degree. Students interested in public history should also take HIST6020 PUBLIC HISTORY.

Please note that only a small selection of courses listed below are offered each semester. Check with the Director of Graduate Studies for the upcoming schedule.

Complete at least 6 of the following courses:

- HIST6020 - Public History - 3cr.
- HIST6165 - The History of Total War - 3cr.
- HIST6200 - Special Topics: Comparative World History - 3cr.
- HIST6230 - Special Topics: Middle Eastern History - 3cr.
- HIST6260 - Special Topics: Asian History - 3cr.
- HIST6300 - Special Topics: African History - 3cr.
- HIST6330 - Special Topics: Latin American History - 3cr.
- HIST6400 - Special Topics: American History - 3cr.
- HIST6410 - Special Topics in Mormon History and Culture - 1cr.
- HIST6420 - Special Topics in Religious History - 3cr.
- HIST6430 - Special Topics: Western American History - 3cr.
- HIST6460 - Seminar in Environmental History - 3cr.
- HIST6500 - Archiving Internship - 2cr.
- HIST6520 - Editing Internship - 2cr.
- HIST6540 - Museum Internship - 2cr.
- HIST6560 - Professional Internship - 2cr.
- HIST6580 - Teaching Internship - 2cr.
- HIST6610 - Seminar on the American West - 3cr.
- HIST6620 - Seminar in Native American Studies - 3cr.
- HIST6700 - Introduction to Folklore Studies - 3cr.
- HIST6710 - Folklore, Landscape, and Place - 3cr.
- HIST6720 - Oral History and Fieldwork Methods - 3cr.
- HIST6740 - Folk Narrative - 3cr.
- HIST6770 - Seminar in Folklore and Folklife - 3cr.
- HIST6800 - History of Books, Manuscripts, and Paleography - 3cr.
- HIST6840 - Archives Management/Archives Internship - 1cr.
- HIST6900 - Directed Studies - 1cr.

Additional Comments:

Additional Information

Upon arrival at USU, students are urged to meet with the departmental graduate advisor, who will direct them to one or more faculty members with similar interests. Through consultations with the graduate and faculty advisor, the first-year student will form a thesis or project committee and formulate a course of study. By the end of the first year, students will have submitted to their committees a proposal for the thesis or project, which they will write under the close supervision of the committee members. The oral defense usually takes place in the spring semester of the second year.

Program Learning Outcomes

Program Learning Outcomes

https://artsci.usu.edu/history-cultures-ideas/history/assessments

History - MS

Program Overview

College	Department	Program Level
College of Arts & Sciences	History, Cultures & Ideas	Graduate

About this Degree

The Department of History has been recognized by the American Historical Association as one of 12 outstanding history departments in the United States and Canada, selected for its “brilliant teaching and leadership.”

The department's graduate program attracts students from across the United States and overseas. Because the department limits its entering class to approximately 12, every graduate student is important. Moreover, master’s-level students are not competing with doctoral students for the faculty’s time or for history-related work experiences.

Faculty members have a broad array of specialties, so students can study a variety of time periods and geographic areas in history. In particular, the department has strengths in environmental history, religious studies, and the history of the American West.

This is an in-person, terminal Master's program normally conducted over the course of two years. Options for part-time students are also available. For more information on the program and admission requirements, visit https://www.usu.edu/degrees-majors/history_ma_ms.

Admission Requirements for this Program

https://www.usu.edu/degrees-majors/history_ma_ms

Program Requirements

Total Credits Required In Program Coursework	Total Credits Required To Earn This Credential
33	33

Simple Requisites

Program Requirements

To receive a Master of Science (MS) degree, students should demonstrate the ability to incorporate methodologies from the social or natural sciences into their research to the satisfaction of their supervisory committee. Students pursuing public history often choose the MS degree.

- A bachelor’s degree from an accredited U.S. college or university or a similarly recognized international university is required for admission to and completion of a graduate program.
- Graduate students are required to maintain at least a 3.0 GPA for degree-program courses. Grades of B- or lower will not be accepted for a graduate degree.
- The Program of Study for a master’s degree must include at least 18 semester credits at the level of 6000 or above.
- Credits in the following areas are not acceptable in a degree program: foreign languages (unless included in an approved Program of Study), continuing graduate advisement, individual home study, military science, and courses numbered below 5000. Students are not allowed more than 12 credits of coursework at the 5000 level.
- The History MS degree must be completed within six years of entering the degree program. Additional time may be requested by the student’s committee and submitted to the Vice Provost of Graduate Studies for review.

- Coursework over eight years old at the time of degree completion may not be used for a graduate degree unless it is revalidated.
- Successful defense and submission of the thesis or dissertation to the library.
- Approval of academic forms required for master's students by the School of Graduate Studies:

  o Supervisory Committee Approval Form
  o Program of Study

  o. Responsible Conduct of Research training, a brief online training on ethical conduct in research that the university requires
  o Thesis Proposal Defense/Approval
  o Appointment for Examination
  o Record of Examination
  o Successful defense and submission of the thesis to the library.
  o Other forms may be required; for details refer to the Graduate Student Handbook.

Master of Science Degree, Plan A (Thesis-HISTORY)

Type
Completion Requirement

Core Requirements

The Plan A option for a master's degree requires the preparation and defense of a thesis. The thesis option should be taken by anyone intending to do research or enter another program for the doctoral degree.

The program consists of 33 semester credits beyond the bachelor's degree.

Complete ALL of the following Courses:

- HIST6000 - Historical Methods and Research - 3cr.
- HIST6010 - History and Theory - 3cr.
- HIST6030 - Research Seminar - 3cr.
- HIST6970 - Thesis Research - 1cr.

NOTE:

1. HIST6970 THESIS RESEARCH - Plan A students take 6 credits

Additional Requirements

Three credits of coursework outside the department that involves methodologies from the social or natural sciences (at the 5000 or 6000 level).

The remainder (15 credits) of the 33 credits may be taken as electives in history. Students may complete relevant courses to the degree outside the department if approved by supervisory committee and the Director of Graduate Studies. Students may apply a maximum of 4 internship credits earned toward the total credits required for the program. No more than 3 credits of HIST 6900 Directed Studies may be applied to the degree. Students interested in public history should also take HIST6020 PUBLIC HISTORY.

Please note that only a small selection of courses listed below are offered each semester. Check with the Director of Graduate Studies for the upcoming schedule.

Complete at least 5 of the following courses:

- HIST6020 - Public History - 3cr.
- HIST6165 - The History of Total War - 3cr.
- HIST6200 - Special Topics: Comparative World History - 3cr.
- HIST6230 - Special Topics: Middle Eastern History - 3cr.
- HIST6260 - Special Topics: Asian History - 3cr.
- HIST6300 - Special Topics: African History - 3cr.
- HIST6330 - Special Topics: Latin American History - 3cr.
- HIST6400 - Special Topics: American History - 3cr.
- HIST6410 - Special Topics in Mormon History and Culture - 1cr.
- HIST6420 - Special Topics in Religious History - 3cr.
- HIST6430 - Special Topics: Western American History - 3cr.
- HIST6460 - Seminar in Environmental History - 3cr.
- HIST6500 - Archiving Internship - 2cr.
- HIST6520 - Editing Internship - 2cr.
- HIST6540 - Museum Internship - 2cr.
- HIST6560 - Professional Internship - 2cr.
- HIST6580 - Teaching Internship - 2cr.
- HIST6610 - Seminar on the American West - 3cr.
- HIST6620 - Seminar in Native American Studies - 3cr.
- HIST6700 - Introduction to Folklore Studies - 3cr.
- HIST6710 - Folklore, Landscape, and Place - 3cr.
- HIST6720 - Oral History and Fieldwork Methods - 3cr.
- HIST6740 - Folk Narrative - 3cr.
- HIST6770 - Seminar in Folklore and Folklife - 3cr.
- HIST6800 - History of Books, Manuscripts, and Paleography - 3cr.
- HIST6840 - Archives Management/Archives Internship - 1cr.
- HIST6900 - Directed Studies - 1cr.

Master of Science Degree, Plan B (Non-Thesis-HISTORY)

Type
Completion Requirement

Core Requirements

A non-thesis master's plan can lead a student toward many career paths and is especially suited to those interested in public history. Students completing the Plan B do not write a full-length thesis. Instead, Plan B students develop a project agreed upon by the supervisory committee, such as a digital or physical exhibit or a series of lesson plans, accompanied by a written component.

The program consists of 33 credits beyond the bachelor's degree.

Complete ALL of the following Courses:

- HIST6000 - Historical Methods and Research - 3cr.
- HIST6010 - History and Theory - 3cr.
- HIST6030 - Research Seminar - 3cr.
- HIST6970 - Thesis Research - 1cr.

NOTE:

1. HIST6970 THESIS RESEARCH - Plan B students take 3 credits

Additional Requirements

Three credits of coursework outside the department that involves methodologies from the social or natural sciences (at the 5000 or 6000 level).

The remainder (18 credits) of the 33 credits may be taken as electives in history. Students may complete relevant courses to the degree outside the department if approved by supervisory committee and the Director of Graduate Studies. Students may apply a maximum of 4 internship credits earned toward the total credits required for the program. No more than 3 credits of HIST 6900 Directed Studies may be applied to the degree. Students interested in public history should also take HIST6020 PUBLIC HISTORY.

Please note that only a small selection of courses listed below are offered each semester. Check with the Director of Graduate Studies for the upcoming schedule.

Complete at least 6 of the following courses:

- HIST6020 - Public History - 3cr.
- HIST6165 - The History of Total War - 3cr.
- HIST6200 - Special Topics: Comparative World History - 3cr.
- HIST6230 - Special Topics: Middle Eastern History - 3cr.
- HIST6260 - Special Topics: Asian History - 3cr.
- HIST6300 - Special Topics: African History - 3cr.
- HIST6330 - Special Topics: Latin American History - 3cr.
- HIST6400 - Special Topics: American History - 3cr.
- HIST6410 - Special Topics in Mormon History and Culture - 1cr.
- HIST6420 - Special Topics in Religious History - 3cr.
- HIST6430 - Special Topics: Western American History - 3cr.
- HIST6460 - Seminar in Environmental History - 3cr.
- HIST6500 - Archiving Internship - 2cr.
- HIST6520 - Editing Internship - 2cr.
- HIST6540 - Museum Internship - 2cr.
- HIST6560 - Professional Internship - 2cr.
- HIST6580 - Teaching Internship - 2cr.
- HIST6610 - Seminar on the American West - 3cr.
- HIST6620 - Seminar in Native American Studies - 3cr.
- HIST6700 - Introduction to Folklore Studies - 3cr.
- HIST6710 - Folklore, Landscape, and Place - 3cr.
- HIST6720 - Oral History and Fieldwork Methods - 3cr.
- HIST6740 - Folk Narrative - 3cr.
- HIST6770 - Seminar in Folklore and Folklife - 3cr.
- HIST6800 - History of Books, Manuscripts, and Paleography - 3cr.
- HIST6840 - Archives Management/Archives Internship - 1cr.
- HIST6900 - Directed Studies - 1cr.

Additional Comments:

Additional Information

Upon arrival at USU, students are urged to meet with the departmental graduate advisor, who will direct them to one or more faculty members with similar interests. Through consultations with the graduate and faculty advisor, the first-year student will form a thesis or project committee and formulate a course of study. By the end of the first year, students will have submitted to their committees a proposal for the thesis or project, which they will write under the close supervision of the committee members. The oral defense usually takes place in the spring semester of the second year.

Program Learning Outcomes

Program Learning Outcomes

https://artsci.usu.edu/history-cultures-ideas/history/assessments

Hotel Management - Minor

Program Overview

College
Jon M. Huntsman School of Business

Department
Management

Program Level
Undergraduate

Program Requirements

Total Credits Required To Earn This Credential

13

Simple Requisites

Program Requirements

Students are responsible for completing prerequisite courses where applicable. A minimum GPA of 2.50 is required in minor courses. An overall GPA of 2.50 is required for the minor to be awarded at graduation. Courses for the minor *may not* be taken on a pass/fail basis.

Section 1

Type
Completion Requirement

Hotel Management Minor Required Courses

Complete ALL of the following Courses:

- MGT3940 - Principles of Hotel Management - 3cr.
- MGT3950 - Hotel Operations - 3cr.
- MGT3970 - Hotel Revenue and Cost Management - 3cr.
- MGT4250 - Management Internship - 1cr.
- MGT4760 - Services Management - 2cr.

A grade of B- or better in MGT3940 PRINCIPLES OF HOTEL MANAGEMENT is required before continuing with Hotel Management courses

Program Learning Outcomes

Program Learning Outcomes

https://huntsman.usu.edu/assessment/assessment-plan

Horticulture - Minor

Program Overview

College
College of Agriculture & Natural Resources

Department
Plants, Soils and Climate

Program Level
Undergraduate

About this Degree

The Horticulture minor at Utah State University's College of Agriculture and Applied Sciences, Department of Plants, Soils and Climate, provides students with a comprehensive understanding of horticulture and its applications in diverse environments.

Students will gain knowledge in soil science, pest management, fruit and vegetable production, and ornamental horticulture.

Program Requirements

Total Credits Required To Earn This Credential

16

Simple Requisites

Program Requirements

Horticulture Minor Requirements (16 credits)

Type
Completion Requirement

Required Course

Complete at least 1 of the following courses:

- PSC2010 - Soils, Waters, and the Environment (BPS) - 3cr.
  OR PSC3000 - Fundamentals of Soil Science - 4cr.

Select 6 credits from the following courses:

Earn at least 6 credits from the following:

- PSC1800 - Introduction to Horticulture (BLS) - 3cr.
- PSC4400 - Modern Vegetable Production - 3cr.
- PSC5222 - Temperate Zone Fruit Production - 3cr.
- ***One ornamental horticulture course***

Select the remaining credits from the following:

Complete ANY of the following Courses:

- PSC3800 - Fundamentals of Organic Agriculture - 3cr.
- PSC3000 - Fundamentals of Soil Science - 4cr.
- PSC3300 - Residential Landscapes - 3cr.
- PSC3810 - Turfgrass Management - 3cr.
- PSC4050 - Greenhouse Management and Crop Production - 4cr.

Program Learning Outcomes

Program Learning Outcomes

https://caas.usu.edu/psc/assessment

Horticulture - BS

Program Overview

College
College of Agriculture & Natural Resources

Department
Plants, Soils and Climate

Program Level
Undergraduate

About this Degree

The Horticulture major is designed for students in USU's regional campus system along the Wasatch Front. It is targeted to the field of ornamental horticulture and will prepare students for careers in arboriculture, nursery production, landscape management, greenhouse crop production, and related green industries.

The curriculum is focused on the application of horticultural principles, including weed, insect, and disease control; soils; crop production; plant biology; and others. The degree is distinct from the Plant Science BS offered on the Logan campus by having less emphasis on the science of crop production.

- For more information about Horticulture, see the department website.
- Admitted and current students must meet with an advisor.
- Log on to Degree Works to check student-specific program progress.
- The highest math requirement for this degree is MATH1050 COLLEGE ALGEBRA (QL)
- **Only available at the Wasatch sites (Salt Lake, Kaysville, Orem)**

Admission Requirements for this Program

- New freshmen: Admitted to USU in Good Standing
- Transfer students from other institutions or other programs at USU: 2.75 GPA

Program Requirements

Total Credits Required In Program Coursework

85

Total Credits Required To Earn This Credential

121

Simple Requisites

Program Requirements

A minimum GPA of 2.5 is required in program coursework. Courses should be taken for a letter grade, not pass/fail.

Horticulture - BS Course Requirements

Type
Completion Requirement

Major Requirements (71 credits)

Complete ALL of the following Courses:

- BIOL1610 - Biology I - 3cr.
- BIOL1615 - Biology I Laboratory - 1cr.
- BIOL4500 - Applied Entomology - 3cr.
- CHEM1110 - General Chemistry I (BPS) - 4cr.
- MATH1050 - College Algebra (QL) - 4cr.
- PSC1050 - Plants, Soils, and Climate Orientation - 1cr.
- PSC1800 - Introduction to Horticulture (BLS) - 3cr.
- PSC2200 - Pesticide Certification - 2cr.
- PSC2600 - Herbaceous Plant Materials - 3cr.
- PSC2620 - Woody Plant Materials: Trees and Shrubs for the

Landscape - 3cr.
- PSC3000 - Fundamentals of Soil Science - 4cr.
- PSC3400 - Arboriculture - 3cr.
- PSC3500 - Structure and Function of Plants - 3cr.
- PSC3600 - An Introduction to Plant Breeding and Heredity - 3cr.
- PSC3700 - Plant Propagation - 4cr.
- PSC3810 - Turfgrass Management - 3cr.
- PSC4050 - Greenhouse Management and Crop Production - 4cr.
- PSC4250 - Internship in Plants, Soils, and/or Climate - 1cr.
- PSC4400 - Modern Vegetable Production - 3cr.
- PSC4550 - Integrated Weed Management - 3cr.
- PSC4900 - Special Problems - 1cr.
- PSC5222 - Temperate Zone Fruit Production - 3cr.
- WILD2200 - Ecology of Our Changing World (BLS) - 3cr.
- BIOL1620 - Biology II (BLS) - 3cr.
- BIOL1625 - Biology II Laboratory - 1cr.
- PSC1900 - Spring Pruning - 1cr.
- PSC4450 - Plant Diseases - 3cr.
- PSC4350 - Applied Entomology - 3cr.

Elective Credits (14-20 credits)

These courses may be used to obtain additional credits if needed to complete the student's degree. Courses should be taken for a letter grade, not pass/fail.

Complete ANY of the following Courses:
- PSC2030 - Basic Flower Arranging - 2cr.
- PSC2900 - Special Problems in Plant Science - 1cr.
- PSC3300 - Residential Landscapes - 3cr.
- PSC4900 - Special Problems - 1cr.
- PSC5100 - Professional Turf and Urban Landscape Water Management - 3cr.
- PSC5420 - Landscape Irrigation Design (QI) - 2cr.
- BIOL1620 - Biology II (BLS) - 3cr.
- BIOL1625 - Biology II Laboratory - 1cr.

Open Electives

Complete the following as needed:
Total elective credit is determined by General Education courses taken, degree type selected, additional credits earned, and any additional math or other prerequisite courses needed. Please consult your Academic Advisor for details.

Minimum University Requirements

Minimum University Requirements
Minimum University Requirements (Bachelor's Degree)

Suggested Degree Maps

Degree Map Name
Suggested Degree Map - Horticulture BS
Total Degree Map Credits
113 - 153
Degree Map Effective Catalog Year
2027 -

Degree Map Narrative
- Following is a sample four-year plan. Please note that student-specific plans may differ.
- Meet with an academic advisor to create a specific plan that best fits your academic needs.
- The student is ultimately responsible for knowing and completing all degree requirements.
- Make sure you meet the registration requirements for each class by clicking the course link and checking any prerequisites or corequisites.
- Consultation with an advisor may result in an altered plan customized for an individual student.
- Check your Degree Works for requirements and completion.

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	14	0

Requirement Select
- Even-year (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- BIOL1610 - Biology I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- BIOL1615 - Biology I Laboratory

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- ENGL1010 - Writing as Inquiry (CL1)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- PSC1050 - Plants, Soils, and Climate Orientation

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- PSC1800 - Introduction to Horticulture (BLS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- PSC2620 - Woody Plant Materials: Trees and Shrubs for the Landscape

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- PSC2620 is taught at the Salt Lake Center campus (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	13 - 16	0

Requirement Select
- Odd-year (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- WILD2200 - Ecology of Our Changing World (BLS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- ENGL2010 - Research and Argument Across Perspectives (CL2)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- MATH1050 - College Algebra (QL)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- PSC2200 - Pesticide Certification

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select
- PSC2900 - Special Problems in Plant Science

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1 - 4
Progress Credits	-
Contact Hours	1 - 4
Clinical	-
Criticality	No

Requirement Select
- PSC2900 is an elective course for this semester (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Summer	7 - 11	0

Requirement Select
- Odd-year (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- PSC2600 - Herbaceous Plant Materials

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- PSC2900 - Special Problems in Plant Science

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1 - 4
Progress Credits	-
Contact Hours	1 - 4
Clinical	-
Criticality	No

Requirement Select
- Breadth Social Sciences (BSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- PSC2900 this semester is taught at the Kaysville campus, odd-years (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	13 - 14	0

Requirement Select

- Odd-year (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- CHEM1110 - General Chemistry I (BPS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- Breadth Social Sciences (BSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Elective course (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Elective course (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	10 - 13	0

Requirement Select

- Even-year (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- PSC2900 - Special Problems in Plant Science

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1 - 4
Progress Credits	-
Contact Hours	1 - 4
Clinical	-
Criticality	No

Requirement Select
- Breadth Humanities (BHU) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Breadth Creative Arts (BCA) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective course (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- PSC2900: Spring Pruning section recommended elective, plus one additional Special Problems section (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Summer	4 - 7	0

Requirement Select
- Even-year (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- PSC3500 - Structure and Function of Plants

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- PSC4900 - Special Problems

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1 - 4
Progress Credits	-
Contact Hours	1 - 4
Clinical	-
Criticality	No

Requirement Select
- PSC3500 is taught at the Salt Lake Center campus; PSC 4900: Plant Diseases section. Native Plants section also recommended as an elective. (Kaysville campus even years) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Fall	13 - 17	0

Requirement Select
- Even-year (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- PSC3000 - Fundamentals of Soil Science

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- PSC4250 - Internship in Plants, Soils, and/or Climate

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1 - 4
Progress Credits	-
Contact Hours	1 - 4
Clinical	-
Criticality	No

Requirement Select
- PSC4400 - Modern Vegetable Production

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- PSC5420 - Landscape Irrigation Design (QI)

  OR
- PSC4810 - Climate and Climate Change (DSC)(QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2 - 3
Progress Credits	-
Contact Hours	2 - 3
Clinical	-
Criticality	No

Requirement Select
- PSC4550 - Integrated Weed Management

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- 1 credit is required in PSC4250; PSC 4400, PSC4550 are taught at the Kaysville campus (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Spring	10 - 29	0

Requirement Select
- Odd-year (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- PSC3400 - Arboriculture

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- PSC4500 - Urban Soil Management and Reclamation

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- PSC4050 - Greenhouse Management and Crop Production

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- Depth Social Sciences (DSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	0 - 4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Depth Humanities and Creative Arts (DHA) Course

OR

- Communications Intensive (CI) Courses

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	0 - 15
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- PSC3400, PSC 4050 are taught at the Salt Lake Center campus (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Summer	6	0

Requirement Select

- Odd-year (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- BIOL4500 - Applied Entomology

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- PSC3600 - An Introduction to Plant Breeding and Heredity

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- BIOL4500, PSC3600 are taught at the Kaysville campus, odd years (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Fall	13	0

Requirement Select
- Odd-year (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- PSC3700 - Plant Propagation

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- PSC3810 - Turfgrass Management

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- PSC5222 - Temperate Zone Fruit Production

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Elective course (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- PSC3700, PSC3810 are taught at the Salt Lake Center campus, odd years; PSC 5222 is taught at the Kaysville campus, odd years (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Spring	10 - 13	0

Requirement Select

- Even-year (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- PSC2900 - Special Problems in Plant Science

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1 - 4
Progress Credits	-
Contact Hours	1 - 4
Clinical	-
Criticality	No

Requirement Select

- PSC5100 - Professional Turf and Urban Landscape Water Management

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- ASTE3050 - Technical and Professional Communication Principles (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Elective course (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- PSC2900, PSC5100 are recommended as electives this semester; ASTE3050 is suggested to fulfill the CI requirement (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Program Learning Outcomes

Program Learning Outcomes

https://www.usu.edu/oda/assessment/

Horticulture - MPSH (NOT CURRENTLY OFFERED)

Program Overview

College
College of Agriculture & Natural Resources

Department
Plants, Soils and Climate

Program Level
Graduate

About this Degree

The Master of Science and Doctor of Philosophy degrees are offered as follows:

(1) **Plant Science** with specializations in crop physiology; crop production and management; molecular biology; plant breeding and cytology; plant biotechnology and tissue culture; plant nutrition; space biology; weed science; and bioinformatics and computational biology;

(2) **Soil Science** with specializations in soil and water chemistry; soil biochemistry & ecology; soil conservation systems; soil fertility and plant nutrition; soil physics; soil-plant-water relations; soil taxonomy and genesis; molecular biology; and soils and irrigation;

(3) **Climate Science** with specializations in climate dynamics, hydroclimate modeling, micro-meteorology, and turbulence in plant canopies

(4) **Ecology** interdepartmental degree program see description and requirements at https://www.usu.edu/ecology/students.

The Climate Adaptation Science Specialization is offered as an interdepartmental program.

Human Resource Management - Minor

Program Overview

College
Jon M. Huntsman School of Business

Department
Management

Program Level
Undergraduate

Program Requirements

Total Credits Required In Program Coursework
13-14

Total Credits Required To Earn This Credential
13-14

Simple Requisites

Program Requirements

Students are responsible for completing prerequisite courses where applicable. A minimum GPA of 2.50 is required in minor courses. An overall GPA of 2.50 is required for the minor to be awarded at graduation.

Section 1

Type
Completion Requirement

Human Resource Management Minor Required Courses (11 credits)

Complete ALL of the following Courses:

- MGT3100 - Organizational Behavior - 2cr.
- MGT3250 - Managing Human Capital - 3cr.
- MGT4620 - Talent Acquisition - 3cr.
- MGT4630 - Applied Human Resource Management - 3cr.

If taken prior to Fall 2026, MGT 4610 (2 credits) and MGT 4620 (2 credits) may fulfill the above MGT 4620 (3 credits) requirement.

Section 2

Type
Completion Requirement

Elective Course (2-3 credits)

Complete ANY of the following Courses:

- MGT3710 - Team Management - 2cr.
- MGT3810 - Employment Law (DSS) - 3cr.
- MGT4600 - Negotiations - 2cr.

Program Learning Outcomes

Program Learning Outcomes

https://huntsman.usu.edu/assessment/assessment-plan

History Teaching - Minor

Program Overview

College
College of Arts & Sciences

Department
History, Cultures & Ideas

Program Level
Undergraduate

Program Requirements

Total Credits Required To Earn This Credential
30

Simple Requisites

Program Requirements

A grade of *C* or better must be earned in all history courses used for the minor. Minor requirements may not be taken for a pass/fail grade except where the course is only taught as pass/fail. To graduate with a history teaching minor, students must have a 2.75 minor GPA.

Section 1

Type
Completion Requirement

European Perspectives (3 credits)

Complete at least 1 of the following courses:

- HIST1100 - European History to 1500 (BHU) - 3cr.
- HIST1110 - European History from 1500 (BHU) - 3cr.

Section 2

Type
Completion Requirement

World Perspectives (6 credits)

Complete ALL of the following Courses:

- HIST1500 - Pre-Modern World (BHU) - 3cr.
- HIST1510 - The Modern World (BHU) - 3cr.

Section 3

Type
Completion Requirement

American Perspectives (6 credits)

Complete ALL of the following Courses:

- HIST2700 - United States to 1877 (BAI) - 3cr.
- HIST2710 - United States 1877-Present (BAI) - 3cr.

Section 4

Type
Completion Requirement

Utah History (3 credits)

Complete ALL of the following Courses:

- HIST3850 - History of Utah (DHA/CI) - 3cr.

Section 5

Type
Completion Requirement

History of Traditionally Underrepresented Communities (3 credits)

Complete at least 1 of the following courses:

- HIST2018 - Introduction to Native American History and Culture (BSS) - 3cr.
- HIST2730 - Writing about Indigenous Histories and Cultures (CL2) - 3cr.
- HIST3615 - Latinx History - 3cr.
- HIST3670 - Slavery in the Atlantic World (CI) - 3cr.
- HIST4540 - Gender, Violence, and Non-violence - 3cr.
- HIST4650 - Women and Gender in the US West - 3cr.
- HIST4710 - American Indian History - 3cr.
- HIST4711 - Northern Ute History (DHA) - 3cr.
- HIST4720 - The Civil Rights Movement (DHA/CI) - 3cr.
- HIST4730 - History of Black America (CI) - 3cr.

Section 6

Type
Completion Requirement

History Methods Course (3 credits)

Complete ALL of the following Courses:

- HIST3000 - History Research Methods - 3cr.

Section 7

Type
Completion Requirement

Upper-Division Electives (6 credits)

Electives

- Students should complete their remaining 6 credits by taking 3000- and 4000-level history courses for a total of 30 credits in the history teaching minor.

No more than 3 credits of HIST4930 DIRECTED READINGS can be applied to the history teaching minor.

Note: This minor may only be completed in conjunction with the Secondary Teacher Education Program (STEP). For licensure in the state of Utah, students must successfully pass a PRAXIS exam in the content area in addition to the coursework listed here. For information on licensure in other states, please contact the College of Education (cehs.usu.edu).

Additional Comments:

Licensure Notification

This program typically leads to licensure and was designed to meet licensing qualifications in the state of Utah. If students wish to work in another state within the United States, they should review the qualifications for that state and the Education Licensure Compliance Table provided by School of Teacher Education and Leadership.

For more information, please contact the School of Teacher Education and Leadership at https://cehs.usu.edu/teal/

Program Learning Outcomes

Program Learning Outcomes

https://chass.usu.edu/history/assessments-resources/history-and-history-teaching/learning-objectives

Geography - Human Environment Geography Emphasis - BS

Program Overview

College
College of Agriculture & Natural Resources

Department
Environment & Society

Program Level
Undergraduate

About this Degree

Geography is the study of space, place, and the relationships between people and our environment. With a Geography major, students learn essential skills to solve pressing problems at the local, national, and global scale. Geography is an interdisciplinary degree that includes coursework in the physical and social sciences, combined with technical expertise in the field of geographic information science.

Human-Environment Geography Emphasis: This emphasis provides a broad overview of the relationships between humans and their environments across different cultures, economies, and geographic locations around the globe. It requires an understanding of the dynamics of geology, meteorology, hydrology, biogeography, ecology, and geomorphology, as well as human behavior, decision making, and perception in relation to the environment.

- Admitted and current students must meet with an academic advisor for help with semester-by-semester planning, connections to co-curricular experiences, understanding of USU policies, and accessing USU resources.
- Log on to Degree Works to check student-specific program progress.
- Students can also have an emphasis in Geographic Information Science.
- The highest math requirement for this degree is STAT1040 INTRO TO STATISTICS (QL) or STAT1045 INTRO STAT WITH ALGEBRA (QL).

Admission Requirements for this Program

- New freshmen: Admitted to USU in Good Standing
- Transfer students from other institutions or other programs at USU: 2.5 GPA

Program Requirements

Total Credits Required In Program Coursework
63-65

Total Credits Required To Earn This Credential
120

Simple Requisites

Program Requirements

All courses required for the major must be taken on an A-B-C-D-F grade basis. A grade of C- or better and a grade point average of 2.5 or higher is required for all ENVS, GEOG, WATS, or WILD courses used to meet requirements for a major in Geography.

Geography Major Requirements (63-65 credits)

Type
Completion Requirement

Geography Core (33-35 credits)

Complete ALL of the following Courses:

- ENVS2000 - Natural Resource Professional Orientation - 1cr.

OR WATS2000 - Natural Resource Professional Orientation - 1cr.
OR WILD2000 - Natural Resource Professional Orientation - 1cr.

- GEOG1000 - Physical Geography (BPS) - 3cr.
- GEOG1005 - Physical Geography Lab - 1cr.
- GEOG1300 - World Geography: Human and Environmental Dynamics (BSS) - 3cr.
- GEOG2800 - Introduction to Geographic Information Sciences - 4cr.
  OR WILD2800 - Introduction to Geographic Information Sciences - 4cr.
- ENVS3500 - Environmental Data Science (QI) - 3cr.
- GEOG3100 - Human-Environment Geography (CI) - 3cr.
- GEOG3800 - Geospatial Data Visualization - 3cr.
- GEOG4210 - Geography of Utah - 3cr.
- PSC4810 - Climate and Climate Change (DSC)(QI) - 3cr.
- STAT1040 - Introduction to Statistics (QL) - 3cr.
  OR STAT1045 - Introduction to Statistics with Elements with Algebra (QL) - 5cr.
  OR STAT1080 - Foundations of Data Science (QL) - 3cr.
- BIOL2220 - General Ecology - 3cr.
  OR WATS2220 - General Ecology - 3cr.
  OR WILD2200 - Ecology of Our Changing World (BLS) - 3cr.

Human-Environment Geography Emphasis Core (9 credits)

Earn at least 9 credits from the following:

- ENVS4020 - Foundations of Environmental Thought (DHA/CI) - 3cr.
- GEOG2340 - Environment, Natural Resources, and Society (BSS) - 3cr.
- GEOG3200 - Principles of Remote Sensing - 3cr.
- GEOG4120 - Environment and Development in Latin America (CI) - 3cr.
- GEOG5400 - Natural Hazards and Society - 3cr.
- GEOG5500 - Advanced Geographic Information Sciences (GIS) - 3cr.
- HIST3950 - Environmental History (DHA/CI) - 3cr.

Degree Electives

Complete 21 credits chosen from the following list. Other courses not listed here may also be approved upon review.

Earn at least 21 credits from the following:

- ANTH2010 - Peoples of the Contemporary World (BSS) - 3cr.
- APEC3012 - Introduction to Natural Resource Economics (DSS) - 3cr.
- CMST4260 - Environmental Communication - 3cr.
- ENVS3010 - Natural Resource and Environmental Policy - 3cr.
- ENVS3300 - Fundamentals of Natural Resource Recreation Management - 3cr.
- ENVS3320 - Archaeology of Climate Change (DSS) - 3cr.
- ENVS3600 - Living with Wildlife (DSC) - 3cr.
- ENVS4000 - Human Dimensions of Natural Resource Management (DSS) - 3cr.
- ENVS4020 - Foundations of Environmental Thought (DHA/CI) - 3cr.
- ENVS4030 - Building Community Environmental Resilience - 3cr.
- ENVS4200 - Sustainability Metrics - 3cr.
- ENVS4250 - Advanced Internship/Co-op - 1cr.
- ENVS4700 - Communicating Sustainability (CI) - 3cr.
- ENVS4980 - Environment and Society Departmental Colloquium - 1cr.
- ENVS5000 - Environmental Nonprofit and Volunteer Management - 3cr.
- ENVS5020 - Human Dimensions of Fire Management - 3cr.
- ENVS5100 - Introduction to Modeling Human-Environment Systems - 3cr.
- ENVS5200 - Anthropological Perspectives on Conservation - 3cr.
- ENVS5350 - Ecological Economics - 3cr.
- ENVS5550 - Sustainability: Concepts and Measurement - 3cr.
- ENVS5750 - Global Change Ecology - 3cr.
- ENVS5800 - Environment and Society Departmental Colloquium - 1cr.
- GEO3100 - Natural Disasters (DSC) - 3cr.
- GEOG1400 - Human Geography (BSS) - 3cr.
- GEOG2340 - Environment, Natural Resources, and Society (BSS) - 3cr.
- GEOG3200 - Principles of Remote Sensing - 3cr.
- GEOG3700 - Python Programming for GIS - 3cr.
- GEOG4120 - Environment and Development in Latin America (CI) - 3cr.
- GEOG4900 - GIS Individual Projects - 1cr.
- GEOG4910 - Geographic Information Science Portfolio - 1cr.
- GEOG4920 - GIS Internship - 1cr.
- GEOG5400 - Natural Hazards and Society - 3cr.
- GEOG5300 - Geospatial Analysis with R - 3cr.
- GEOG5500 - Advanced Geographic Information Sciences (GIS) - 3cr.
- GEOG5805 - Introduction to Geospatial Artificial Intelligence: The Remote Sensing and GeoAI Frontier - 3cr.
- GEOG5815 - Insights from Above: Processing and Analyzing Drone Data - 1cr.
- GEOG5825 - Geospatial Artificial Intelligence, Ethics, & Society - 1cr.
- HIST3530 - African Environmental History (DHA) - 3cr.
- HIST3950 - Environmental History (DHA/CI) - 3cr.
- PHIL3530 - Environmental Ethics (DHA) - 3cr.
- LAEP2039 - Foundations of Sustainable Systems - 3cr.
- LAEP5370 - City and Regional Planning (CI) - 3cr.
- PHIL3530 - Environmental Ethics (DHA) - 3cr.
- POLS2430 - Contemporary Geopolitics (BSS) - 3cr.
- POLS3430 - Political Geography (CI/DSS) - 3cr.
- SOC2650 - Globalization and International Development (BSS) - 3cr.
- SOC3010 - Social Inequality (DSS) - 3cr.
- SOC3110 - Methods of Social Research (CI) - 3cr.
- SOC3120 - Social Statistics I (QI) - 3cr.
- SOC3200 - Population and Society (DSS) - 3cr.
- SOC3260 - Politics and Society in Post-Colonial States - 3cr.
- SOC3300 - Sociology of Climate Change - 3cr.
- SOC3310 - Environmental Justice - 3cr.
- SOC3340 - Activism, Protest, and Social Movements (DSS) - 3cr.
- SOC3600 - Finding Community in Today's Society (DSS) - 3cr.
- SOC3610 - Rural People and Places (DSS) - 3cr.
- SOC4350 - People, Power, and the Political - 3cr.
- SOC4620 - Sociology of the Environment and Natural Resources (DSS) - 3cr.
- SOC4640 - Managing Community Conflict (CI) - 3cr.
- SOC4720 - Effective Community Engagement - 3cr.
- SOC5230 - Techniques of Demographic Analysis - 3cr.
- SOC5270 - Global Migration - 3cr.
- SOC5420 - Gender, Sexuality and Social Inequality - 3cr.
- WATS1200 - The Natural World and Our Place Within It (BLS) - 3cr.
- WATS2050 - Data Management for Natural Resources –

Cleaning and Shaping Data - 1cr.
- WATS2060 - Data Management for Natural Resources – Data Display and Analysis - 1cr.
- WATS2500 - Introduction to Marine Biology (BLS) - 3cr.
- WATS3000 - Oceanography (DSC) - 3cr.
- WATS3200 - Marine Ecology: Expedition Sea of Cortez (DSC) - 3cr.
- WATS3450 - Introduction to Coral Reefs-Field Course (DSC) - 3cr.
- WATS4100 - Climate Adaptation Intern Program - 3cr.
- WATS5110 - Environmental Biogeochemistry - 3cr.
- WATS5210 - The Secret Life of Elements on Earth - 2cr.
- WATS5500 - Limnology: Ecology of Inland Waters - 3cr.
- WATS5720 - Drone Data Analysis for Environmental Restoration - 2cr.
- WILD5750 - Applied Remote Sensing - 3cr.

Depth Requirements

In addition to two CI courses, and one QI course, complete at least two credits in approved 3000-level or above courses from each of the following two categories:

Complete at least 1 course in the following course sets:
- Depth Humanities and Creative Arts (DHA) Course
- Depth Life and Physical Sciences (DSC) Course

Open Electives

Complete the following as needed:
Total elective credit is determined by General Education courses taken, degree type selected, additional credits earned, and any additional math or other prerequisite courses needed. Please consult your Academic Advisor for details.

Minimum University Requirements

Minimum University Requirements
Minimum University Requirements (Bachelor's Degree)

Suggested Degree Maps

Degree Map Name
Suggested Degree Map - Geography: Human-Environment Geography Emphasis BS
Total Degree Map Credits
117 - 135
Degree Map Effective Catalog Year
2027 -

Degree Map Narrative
- Following is a sample four-year plan. Please note that student-specific plans may differ.
- Meet with an academic advisor to create a specific plan that best fits your academic needs.
- The student is ultimately responsible for knowing and completing all degree requirements.
- Make sure you meet the registration requirements for each class by clicking the course link and checking any prerequisites or corequisites.
- Consultation with an advisor may result in an altered plan customized for an individual student.
- Check your Degree Works for requirements and completion.

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	15	0

Requirement Select
- ENGL1010 - Writing as Inquiry (CL1)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- ENVS2000 - Natural Resource Professional Orientation
  OR
- WATS2000 - Natural Resource Professional Orientation
  OR
- WILD2000 - Natural Resource Professional Orientation

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- GEOG1000 - Physical Geography (BPS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- GEOG1005 - Physical Geography Lab

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- GEOG1300 - World Geography: Human and Environmental Dynamics (BSS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Elective or minor course (4 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	14 - 17	0

Requirement Select

- STAT1040 - Introduction to Statistics (QL)
  OR
- STAT1045 - Introduction to Statistics with Elements with Algebra (QL)
  OR
- STAT1080 - Foundations of Data Science (QL)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 5
Progress Credits	-
Contact Hours	3 - 5
Clinical	-
Criticality	No

Requirement Select

- Breadth American Institutions (BAI) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Breadth Humanities (BHU) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Elective or minor courses (5-6 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	5 - 6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	16	0

Requirement Select

- GEOG2800 - Introduction to Geographic Information Sciences
  OR
- WILD2800 - Introduction to Geographic Information Sciences

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- ENGL2010 - Research and Argument Across Perspectives (CL2)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- GEOG3100 - Human-Environment Geography (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Degree elective (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Elective or minor course (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	15	0

Requirement Select

- WILD2200 - Ecology of Our Changing World (BLS)
  OR
- BIOL2220 - General Ecology
  OR
- WATS2220 - General Ecology

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Degree electives (6 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Elective or minor courses (6 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Fall	15	0

Requirement Select

- GEOG3800 - Geospatial Data Visualization

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- ENVS3500 - Environmental Data Science (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Human-Environment Geography Emphasis Course (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Degree elective (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective or minor course (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Spring	15	0

Requirement Select
- PSC4810 - Climate and Climate Change (DSC)(QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Human-Environment Geography Emphasis Course (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Degree elective (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective or minor courses (6 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Fall	12 - 27	0

Requirement Select
- GEOG4210 - Geography of Utah

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Communications Intensive (CI) Courses

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	0 - 15
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Degree elective (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective or minor courses (6 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Spring	15	0

Requirement Select
- Human-Environment Geography Emphasis Course (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Degree elective (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective or minor courses (9 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	9
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Program Learning Outcomes

Program Learning Outcomes

Upon completing their program, students will be able to:

- Demonstrate proficiency in application of basic geographic terminology, principles, and concepts
- Explain the diversity and interdependence of regions, places and locations
- Interpret connections between the natural world and human society
- Draw knowledge, understanding and a diversity of approaches from other disciplines to synthesize them in a geographical context
- Apply geographic information systems (GIS) to the analysis of geographic data and spatial relationships

- Apply and interpret appropriate basic statistical and other quantitative analyses for geographic data, including spatially explicit data
- Communicate geographical ideas and information effectively and fluently by written, oral and visual means

https://qanr.usu.edu/envs/about/assessment

Master of Human Resources - MHR

Program Overview

College
Jon M. Huntsman School of Business

Department
Management

Program Level
Graduate

About this Degree

The On-Campus and Online Master of Human Resources (MHR) programs prepare students to take strategic roles assisting organizations in attracting, retaining, developing, and mobilizing talent at all levels. Students receive training in a variety of subjects, including talent acquisition and retention, leadership development, compensation and benefits, organizational effectiveness, employment law, HR analytics, project management, negotiation, and strategy. Students in the three-semester On-Campus program also complete a three-month internship and an international experience and may complete an MBA, MDATA or MMIS degree in one additional semester. For working professionals, the Online program can be completed in three, four or six semesters. It is delivered using a blend of live, technology enhanced delivery and online instruction.

Admission Requirements for this Program

A bachelor's degree from an accredited U.S. college or university or a similarly recognized international university is required for admission to and completion of a graduate program.

Requirements for On-Campus Program: https://huntsman.usu.edu/mhr/campus/apply

Requirements for Online Program: https://huntsman.usu.edu/mhr/professional/apply

Students must also complete the following business acumen: Corporate Finance, Financial Accounting, Fundamentals of Martketing or their equivalents and Excel.

Program Requirements

Total Credits Required In Program Coursework
36-38

Total Credits Required To Earn This Credential
36-38

Simple Requisites

Program Requirements

Course Number Acceptability

The Program of Study for a master's degree or a doctoral degree, if the student has a master's degree, must include at least 15 semester credits at the level of 6000 or above.

Credits in the following areas are not acceptable in a degree program: foreign languages (unless included in an approved Program of Study), continuing graduate advisement, individual home study, military science, and courses numbered below 6000.

A master's degree must be completed within six years of entering the degree program. Additional time may be requested by the student's committee and submitted to the Vice Provost of Graduate Studies for review.

USU Residency

The On-Campus program's designation as a Western Regional Graduate Program (WRGP) means that residents of Alaska, Arizona, California, Colorado, Hawaii, Idaho, Montana, Nevada, New Mexico, North Dakota, Oregon, South Dakota, Utah, Washington and Wyoming are eligible for in-state tuition.

Approval of the Program of Study is required for master's students by the School of Graduate Studies.

A course grade lower than a C does not meet the graduation requirements. In such circumstances, the student will need to repeat the course at Utah State or complete an equivalent course at an approved university and achieve a grade of C or higher. Students must maintain an overall grade point average of 3.0 to be eligible for graduation. Students who fail to do so will be placed on academic probation and will receive a letter from the School of Graduate Studies. Failure to maintain a GPA of 3.0 for two consecutive semesters may result in termination from the program and dismissal from the University. In the case of termination, reapplication is required to regain matriculation.

Additional information about the Masters of Human Resources degree may be obtained by contacting the Department of Management or visiting http://huntsman.usu.edu/MHR/.

Requirements

Type
Completion Requirement

On-Campus Program

Complete ALL of the following Courses:

- MGT6100 - Managing Projects - 2cr.
- MGT6250 - Graduate Internship - 1cr.
- MGT6300 - Human Resource (HR) Career Essentials - 0.5cr.
- MGT6320 - Leadership, Talent, and Organizational Effectiveness - 3cr.
- MGT6330 - Applied Human Resources Research - 3cr.
- MGT6500 - Managing Individuals and Groups - 3cr.
- MGT6550 - Talent Acquisition and Retention - 3cr.
- MGT6600 - Applied Human Resources (HR) Consulting - 3cr.
- MGT6630 - Compensation and Benefits Management - 3cr.
- MGT6670 - Employee Relations and the Labor Movement - 3cr.
- MGT6675 - Mediation, Negotiation, and Conflict Resolution for Human Resource Professionals - 2cr.
- MGT6680 - Human Resource Analytics - 3cr.
- MGT6690 - Human Resource Strategy - 3cr.
- MGT6760 - Employment Law - 3cr.
- MGT6870 - HR in an International Context - 0.5cr.

2 credits of MGT6250 GRADUATE INTERNSHIP required

1 credit of MGT6300 HR CAREER ESSENTIALS required

2 credits of MGT6675 MEDIATION NEGOTIATION CONFLICT required

1 credit of MGT6870 HR IN AN INTERNATIONAL CONTEXT required

Online Program

Complete ALL of the following Courses:

- MGT6100 - Managing Projects - 2cr.
- MGT6150 - Human Resource Information Systems - 2cr.
- MGT6320 - Leadership, Talent, and Organizational Effectiveness - 3cr.
- MGT6330 - Applied Human Resources Research - 3cr.
- MGT6500 - Managing Individuals and Groups - 3cr.
- MGT6550 - Talent Acquisition and Retention - 3cr.
- MGT6620 - Training and Organizational Development - 2cr.
- MGT6630 - Compensation and Benefits Management - 3cr.
- MGT6670 - Employee Relations and the Labor Movement - 3cr.
- MGT6675 - Mediation, Negotiation, and Conflict Resolution for Human Resource Professionals - 2cr.
- MGT6680 - Human Resource Analytics - 3cr.
- MGT6760 - Employment Law - 3cr.
- MGT6690 - Human Resource Strategy - 3cr.

3 credits of MGT6675 MEDIATION NEGOTIATION CONFLICT required

Program Learning Outcomes

Program Learning Outcomes
https://huntsman.usu.edu/assessment/assessment-plan

Heating, Ventilation, Air Conditioning, and Refrigeration Technician - Technical Certificate

Program Overview

College
College of Agriculture & Natural Resources

Department
Technology, Design & Technical Ed

Program Level
Undergraduate

About this Degree

Federal Gainful Employment Information

This program prepares students for an interesting and profitable career as an HVACR Technician. Technicians will install, service and repair equipment in a wide range of applications including residential, commercial, institutional, and industrial settings. This program provides participants with the opportunity to prepare for a successful career, anywhere in the world, and acquire the knowledge and skills that will qualify them for employment opportunities with incomes higher than the typical U.S. household. Additionally, this industry has proven to be resistant to economic downturns. With increasing energy costs and indoor air quality expectations, employment opportunities and earnings are on the rise.

Program Requirements

Total Credits Required In Program Coursework
21

Total Credits Required To Earn This Credential
21

Simple Requisites

Program Requirements

HVAC Course Requirements

Type
Completion Requirement

Technical Education Required Courses

Complete ALL of the following Courses:

- TEAC1010 - Introduction to Air Conditioning, Heating, and Refrigeration - 3cr.
- TEAC1100 - Heating, Ventilation, Air Conditioning, Refrigeration (HVACR) Electrical Essentials - 3cr.
- TEAC1120 - Heating Systems - 3cr.
- TEAC1140 - Basic Refrigeration Systems - 3cr.
- TEAC1160 - Basic Installation Skills - 3cr.
- TEAC1500 - Carbon Steel Piping Practices and Refrigerant Certification - 3cr.
- TEAC1510 - Air Distribution Systems - 3cr.

Program Learning Outcomes

Program Learning Outcomes

- Demonstrate safe work practices during all aspects of training.
- Demonstrate an understanding of electricity as it applies to air conditioning, heating, and refrigeration systems.
- Demonstrate the application of refrigeration theory as it applies to servicing air conditioning, heat pump and refrigeration systems.
- Prepare for the Environmental Protection Agency Section 608 Refrigerant Handling Certification.
- Prepare for the Rocky Mountain Gas Association Natural Gas Technician Certification.
- Demonstrate a variety of methods to assemble pipe and tubing.
- Demonstrate the ability to successfully diagnose electrical and mechanical problems with air conditioning, refrigeration, furnace, and boiler systems.
- Demonstrate the ability to communicate professionally both verbally and in writing.

Health, Wellness, and Equity - Certificate

Program Overview

College
College of Education & Human Services

Department
Special Education & Rehab Counseling

Program Level
Undergraduate

About this Degree

This cross-disciplinary certificate equips students and professionals to design and deliver impactful health and wellness programs, identify and address community needs, address health disparities, and promote healthy lifestyles and environments. Students earning this certificate will benefit from faculty expertise in the departments of Kinesiology and Health Sciences, Special Education and Rehabilitation, Human Development and Family Studies, and Psychology. Please contact laura.holley@usu.edu for more information.

Program Requirements

Total Credits Required In Program Coursework
16-17

Total Credits Required To Earn This Credential
16-17

Simple Requisites

Program Requirements

16-17 credits

Health, Wellness, and Equity - Certificate

Type
Completion Requirement

Required Courses (14 credits)

Complete ALL of the following Courses:

- HEP1500 - Introduction to Global Health (BSS) - 3cr.
- HEP2500 - Health and Wellness - 2cr.
- HDFS3700 - Mental Health Advocacy and Awareness - 3cr. **OR** PSY3700 - Mental Health Advocacy and Awareness - 3cr.
- REH2010 - Neurodiversity and Society - 3cr.
- REH2060 - Health Promotion for Individuals with Chronic Illness and Disability - 3cr.

Elective Course (2-3 credits)

Complete at least 1 of the following courses:

- HDFS4250 - Addictions and the Family - 3cr.
- HEP2000 - First Aid and Emergency Care - 2cr.
- HEP3000 - Drugs and Human Behavior - 3cr.
- HEP3400 - Stress Management - 3cr.
- HEP3600 - Functions of Community & Public Health (CI) - 3cr.
- HEP4100 - Professional Development in Health Promotion - 3cr.
- HEP5000 - Health Trends Across Communities (CI) - 3cr.
- PSY2400 - Happiness: An Evolutionary, Experimental, Experiential Course - 3cr.
- PSY3110 - Health Psychology - 3cr.

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Undergraduate Academic or Technical Certificates)

Program Learning Outcomes

Program Learning Outcomes

https://cehs.usu.edu/about/assessment

Interior Architecture and Design - BIAD

Program Overview

College
College of Arts & Sciences

Department
Art and Design

Program Level
Undergraduate

About this Degree

The Interior Architecture and Design program at Utah State University is accredited by the Council for Interior Design Accreditation (CIDA), the first in the state to gain this recognition. It has a solid reputation for winning national and international design competitions. The Bachelor's of Interior Architecture and Design degree (BIAD) is a four-year degree and students complete 120 semester credits. In this highly competitive technical program students must pass a first-year portfolio review to gain admission and complete a second-year review to continue in the program. A minimum six-week internship is required during the summer of the third year, and students have the opportunity to pass the LEED Green Associate exam, before graduating with a Bachelor of Interior Architecture and Design degree. Our faculty are experts at preparing interior designers for professional success.

Students are provided with numerous experiences to help them acquire and hone their design skills, and each year we bring internationally renowned designers and architects to campus to work with our students. National and international study opportunities for significant design venues and historical sites are also provided. Students are active in professional associations including ASID, IIDA, and USGBC. Students may also desire to continue their studies in architecture and apply for a graduate program that best fits their goals. Our graduates enter the job market with real-world experience, go on to successful careers, and become leaders in the design profession.

- For more information about Interior Architecture and Design, see the department website.
- Admitted and current students must meet with an advisor.
- Log on to Degree Works to check student-specific program progress.
- The highest math requirement for this degree is the fulfillment of the Quantitative Literacy (QL) requirement.

Admission Requirements for this Program

- New freshmen must be admitted to USU in Good Standing.
- Transfer students from other institutions or other programs at USU must have a 2.75 GPA.

Program Requirements

Total Credits Required In Program Coursework
67

Total Credits Required To Earn This Credential
120

Simple Requisites

Program Requirements

The BIAD is a professional degree requiring above-average accomplishment in interior architecture and design. Only students demonstrating considerable promise will be accepted for this more demanding professional degree program. This degree requires 83 semester credits in Art, Art History, Interior Architecture & Design, and Marketing courses, leaving 34 credits to fulfill all other General Education and University Studies requirements.

A cumulative GPA of 2.75 is required for the BIAD degree. A grade of B- or better is required in all art (ART), art history (ARTH), interior architecture and design (IAD), and MSLE 3500 classes. Courses may not be taken on a pass/fail basis, except ART2700 FINE ART SEMINAR,

- For most students, courses taken for the major will fulfill one of the Communications Intensive (CI) requirement.
- One major course having a QI designation will fulfill the Quantitative Intensive (QI) requirement.

Major Requirements (67 credits)

Type
Completion Requirement

Major Requirements

Complete ALL of the following Courses:

- IAD1700 - Seminar Series in Interior Architecture and Design - 1cr.
- IAD1780 - History of Architecture, Interiors, and Furnishings II - 3cr.
- IAD1790 - Foundations in Interior Architecture and Design - 3cr.
- IAD2710 - Architectural Graphics I - 3cr.
- IAD2720 - Architectural Graphics II - 3cr.
- IAD2730 - Space Planning and Human Factors - 3cr.
- IAD2750 - Computer Aided Drafting and Design I - 3cr.
- IAD2760 - Computer Aided Drafting and Design II - 3cr.
- IAD2770 - History of Architecture, Interiors, and Furnishings I - 3cr.
- IAD2790 - Environmental Design for Interiors - 3cr.
- IAD3710 - Pre-Internship in Interior Architecture and Design - 1cr.
- IAD3730 - Interior Materials and Construction (QI) - 3cr.
- IAD3740 - Visual Communication in Interior Architecture and Design - 3cr.
- IAD3760 - Commercial Design Studio - 3cr.
- IAD3770 - Residential Design Studio - 3cr.
- IAD3790 - Architectural Systems - 3cr.
- IAD4710 - Internship in Interior Architecture and Design - 3cr.
- IAD4740 - Business and Professional Practices in Interior Architecture and Design (CI) - 3cr.
- IAD4750 - Senior Design Studio I - 3cr.
- IAD4760 - Senior Design Studio II - 3cr.
- IAD4770 - Senior Exhibit - 1cr.
- IAD4790 - Building Information Modeling in Interior Architecture and Design - 3cr.

Other Requirements (16 credits)

Complete ALL of the following Courses:

- ART1020 - Drawing I (BCA) - 3cr.
- ART1130 - Three-Dimensional Design - 3cr.
- ART2700 - Fine Art Seminar - 0.5cr.
- ARTH2710 - Survey of Western Art: Prehistoric to Medieval (BHU) - 3cr.
- ARTH2720 - Survey of Western Art: Renaissance to Post-Modern (BHU) - 3cr.
- MSLE3500 - Fundamentals of Marketing - 3cr.

Open Electives

Complete the following as needed:

Total elective credit is determined by General Education courses taken, degree type selected, additional credits earned, and any additional math or other prerequisite courses needed. Please consult your Academic Advisor for details.

Additional Comments:

Licensure Notification

Graduates of the Interior Architecture and Design program may become a certified commercial interior designer in the state of Utah through the Division of Occupational and Professional Licensing (see dopl.utah.gov/). In order to be certified as an interior designer in Utah, applicants must pass all sections of the NCIDQ Examination developed by the Council for Interior Design Qualification (CIDQ) (see cidq.org/).

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Bachelor's Degree)

Suggested Degree Maps

Degree Map Name
Suggested Degree Map - Interior Architecture and Design BIAD
Total Degree Map Credits
126
Degree Map Effective Catalog Year
2026 -

Degree Map Narrative

- Following is a sample four-year plan. Please note that student-specific plans may differ.
- Meet with an academic advisor to create a specific plan that best fits your academic needs.
- The student is ultimately responsible for knowing and completing all degree requirements.
- Make sure you meet the registration requirements for each class by clicking the course link and checking any prerequisites or corequisites.
- Consultation with an advisor may result in an altered plan customized for an individual student.
- Check your Degree Works for requirements and completion.

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	16.5	0

Requirement Select
- ART1020 - Drawing I (BCA)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- ART2700 - Fine Art Seminar

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	0.5
Progress Credits	-
Contact Hours	0.5
Clinical	-
Criticality	No

Requirement Select
- ARTH2710 - Survey of Western Art: Prehistoric to Medieval (BHU)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- ENGL1010 - Writing as Inquiry (CL1)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- IAD1700 - Seminar Series in Interior Architecture and Design

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- IAD1780 - History of Architecture, Interiors, and Furnishings II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Breadth American Institutions (BAI) Course
  OR
- Breadth Life Sciences (BLS) Course
  OR
- Breadth Physical Sciences (BPS) Course
  OR
- Breadth Social Sciences (BSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	19.5	0

Requirement Select

- Breadth American Institutions (BAI) Course
  OR
- Breadth Life Sciences (BLS) Course
  OR
- Breadth Physical Sciences (BPS) Course
  OR
- Breadth Social Sciences (BSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- ART1130 - Three-Dimensional Design

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- ART2700 - Fine Art Seminar

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	0.5
Progress Credits	-
Contact Hours	0.5
Clinical	-
Criticality	No

Requirement Select

- ARTH2720 - Survey of Western Art: Renaissance to Post-Modern (BHU)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Breadth American Institutions (BAI) Course
  OR
- Breadth Life Sciences (BLS) Course
  OR
- Breadth Physical Sciences (BPS) Course
  OR
- Breadth Social Sciences (BSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- IAD1700 - Seminar Series in Interior Architecture and Design

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- IAD1790 - Foundations in Interior Architecture and Design

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- IAD2790 - Environmental Design for Interiors

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	16	0

Requirement Select

- ENGL2010 - Research and Argument Across Perspectives (CL2)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- IAD1700 - Seminar Series in Interior Architecture and Design

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- IAD2710 - Architectural Graphics I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- IAD2750 - Computer Aided Drafting and Design I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- IAD2770 - History of Architecture, Interiors, and Furnishings I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Quantitative Literacy (QL) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	16	0

Requirement Select

- IAD1700 - Seminar Series in Interior Architecture and Design

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- IAD2720 - Architectural Graphics II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- IAD2730 - Space Planning and Human Factors

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- IAD2760 - Computer Aided Drafting and Design II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Breadth American Institutions (BAI) Course
  OR
- Breadth Life Sciences (BLS) Course
  OR
- Breadth Physical Sciences (BPS) Course
  OR
- Breadth Social Sciences (BSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Communications Intensive (CI) Courses

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Fall	14	0

Requirement Select

- IAD1700 - Seminar Series in Interior Architecture and Design

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- IAD3710 - Pre-Internship in Interior Architecture and Design

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- IAD3730 - Interior Materials and Construction (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- IAD3760 - Commercial Design Studio

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- IAD3790 - Architectural Systems

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- General Elective (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Spring	14	0

Requirement Select

- IAD1700 - Seminar Series in Interior Architecture and Design

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- IAD3740 - Visual Communication in Interior Architecture and Design

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- IAD3770 - Residential Design Studio

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- IAD4710 - Internship in Interior Architecture and Design

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- IAD4790 - Building Information Modeling in Interior Architecture and Design

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- General Elective (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Fall	19	0

Requirement Select
- IAD1700 - Seminar Series in Interior Architecture and Design

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- IAD2790 - Environmental Design for Interiors

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- IAD4740 - Business and Professional Practices in Interior Architecture and Design (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- IAD4750 - Senior Design Studio I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- MSLE3500 - Fundamentals of Marketing

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Depth Life and Physical Sciences (DSC) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- General Elective (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Spring	11	0

Requirement Select
- IAD1700 - Seminar Series in Interior Architecture and Design

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- IAD4760 - Senior Design Studio II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- IAD4770 - Senior Exhibit

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- Depth Social Sciences (DSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- General Electives (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Program Learning Outcomes

Program Learning Outcomes
https://www.usu.edu/oda/assessment/

Information and Computer Technology - Certificate

Program Overview

College
College of Agriculture & Natural Resources

Department
Technology, Design & Technical Ed

Program Level
Undergraduate

About this Degree

The Information and Computer Technology (ICT) Certificate at Utah State University is a 15-credit, fully online program designed to produce the architects of modern enterprise infrastructure. This program delivers advanced expertise in **cloud computing, network administration, database management, and systems automation.**

While ideal for graduates of Utah's technical college IT programs, this certificate is open to anyone looking to pivot into tech. Students entering the field for the first time will be guided by USU advisors to complete the required prerequisites before beginning advanced coursework.

Designed with flexibility at its core, the ICT certificate **can be stacked directly into the Bachelor of Science in Technology Systems (TESY).** This ensures that your specialized technical training counts toward your four-year degree, eliminating redundant coursework and accelerating your career path.

Program Requirements

Total Credits Required In Program Coursework
15

Total Credits Required To Earn This Credential
15

Simple Requisites

Program Requirements

Information and Computer Technology - Certificate Course Requirements

Type
Completion Requirement

Required courses (15 credits)

Complete ALL of the following Courses:

- TESY4730 - Cloud Computing Architecture - 3cr.
- TESY4750 - Network Administration - 3cr.
- TESY4760 - Information Technology Management - 3cr.
- TESY4770 - Database Administration - 3cr.
- TESY4850 - Scripting for IT and Cybersecurity - 3cr.

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Undergraduate Academic or Technical Certificates)

Program Learning Outcomes

Program Learning Outcomes

Students can architect, deploy, and manage cloud-based systems, demonstrating proficiency in cloud computing concepts, services, and best practices.

Students will demonstrate knowledge of network protocols and data.

Students will demonstrate knowledge of ITIL service management processes.

Students will design, implement, and maintain database systems, demonstrating proficiency in database administration tasks, performance tuning, and data security measures.

Students will demonstrate the ability to write scripts for cybersecurity purposes.

International Business - Institutional Certificate of Proficiency

Program Overview

College
Jon M. Huntsman School of Business

Department
Marketing and Strategy

Program Level
Undergraduate

About this Degree

The International Business Institutional Certificate of Proficiency (IBCP) provides an opportunity for all Utah State University students to receive credentialing indicating the acquisition and development of skills in international business. This is intended to complement any major and serve as a signal to potential employers of competency and understanding of factors that affect competing in the international arena. Earning the IBCP requires the completion of three courses and an academic international experience.

Program Requirements

Total Credits Required In Program Coursework
9

Total Credits Required To Earn This Credential
9

Simple Requisites

Program Requirements

Section 1

Type
Completion Requirement

Students Must Complete This Required Course:

This course counts towards the elective course requirement for all Huntsman Business School major requirements. It also counts towards the Depth Social Science (DSS) Requirement for the University Studies (General Education) requirements.

Complete ALL of the following Courses:

- MSLE3820 - International Business (DSS) - 3cr.

Section 2

Type
Completion Requirement

(2) Students Must Complete One Course From The Following List:

Note some courses my have prerequisite requirements

Complete at least 1 of the following courses:

- ECON3400 - International Economics for Business - 3cr.
- FIN4300 - International Finance - 3cr.
- MGT3830 - International Law - 2cr.
- MGT4790 - Managing Global Value Chains - 2cr.
- MSLE4050 - International Marketing - 3cr.

Section 3

Type
Completion Requirement

(3) Students Must Complete One Course From The Following List:

Students must complete an additional course from the (2) menu or the following menu. Courses outside the HSB from partner departments are selected and approved by both the HSB and the respective department. There is also an "as approved" option for students that can present a relevant globally focused course for consideration to meet this requirement. Examples of courses outside the HSB that qualify to complete the third course requirement are below. Many of these courses also count towards certain General Education requirements.

Complete at least 1 of the following courses:

- CHIN3510 - Chinese Business Presentations - 3cr.
- CHIN3520 - Chinese Business Strategies - 3cr.
- CMST3330 - Intercultural Communication (DSS) - 3cr.
- CMST3730 - Culture and Global Intervention (DHA) - 3cr.
- CMST4270 - Communication, Culture, and Power - 3cr.
- FREN3510 - Business French (CI) - 3cr.
- GEOG1300 - World Geography: Human and Environmental Dynamics (BSS) - 3cr.
- GERM3510 - Business German (CI) - 3cr.
- HIST1510 - The Modern World (BHU) - 3cr.
- POLS3200 - The Politics of Development (CI/DSS) - 3cr.
- POLS4410 - International Negotiations - 3cr.
- PORT3510 - Business Portuguese - 3cr.
- RELS1010 - Introduction to Religious Studies (BHU) - 3cr.
- RELS1070 - Religion, Violence, and Peace (BHU) - 3cr.
- SOC2650 - Globalization and International Development (BSS) - 3cr.
- SPAN3510 - Business Spanish - 3cr.

Section 4

Type
Completion Requirement

(4) International Academic Experience Requirement

Students must complete an international academic experience. These include Huntsman's Global Learning Experiences (including a Huntsman Scholar Experience), SEED Experience (Small Enterprise Education and Development), a full study abroad, a service learning, or other relevant international academic experiences offered at USU or "as approved". This requirement is not required to have been completed through the Huntsman School of Business. A list of approved experiences will be developed and students completing one of these will automatically satisfy this requirement. There is also an "as approved" option for students who can show the completion of a relevant international academic experience/courses that would meet the criteria of providing adequate global perspective and competency. The general criterion is that this experience last at least one week. It would be preferable to have the length requirement be longer, but many USU trips are offered over spring break and many students, such as athletes, may have limited opportunities to pursue longer experiences.

Program Learning Outcomes

Program Learning Outcomes

https://huntsman.usu.edu/assessment/assessment-plan

Instruments and Controls (for Powerplant) - Technical Certificate

Program Overview

College
College of Agriculture & Natural Resources

Department
Technology, Design & Technical Ed

Program Level
Undergraduate

About this Degree

Federal Gainful Employment Information

What if a student could gain the skills needed to work with advanced instrumentation and control systems? So that they're prepared for the demands of maintenance technician roles in industries like power generation, manufacturing, and automation. For example, students will train in accordance with industry standards set by Power Plant Unions, learning to install, maintain, and troubleshoot critical systems. This program is designed with industry needs in mind, ensuring they graduate with the expertise and hands-on experience employers are looking for.

Program Requirements

Total Credits Required In Program Coursework
62

Total Credits Required To Earn This Credential
62

Simple Requisites

Program Requirements

Instruments and Controls (for Powerplant) - Technical Certificate

Type
Completion Requirement

Mathematics Courses

Complete ALL of the following Courses:

- ELET1110 - Technical Mathematics - 3cr.
- MATH1030 - Quantitative Reasoning (QL) - 3cr.
- MATH1050 - College Algebra (QL) - 4cr.
- MATH1060 - Trigonometry - 2cr.

Electricity AC & DC Fundamentals

Complete ALL of the following Courses:

- ELET1130 - Circuit Analysis - 3cr.
- ELET1140 - Circuit Analysis Lab - 2cr.
- ELET1170 - Electronic Devices and Circuits - 3cr.
- ELET1180 - Electronic Devices and Circuits Lab - 1cr.

Instrumentation and Measurement

Complete ALL of the following Courses:

- ELET1200 - Motor Controls - 4cr.
- ELET1210 - Motor Controls Lab - 2cr.
- ELET2150 - Industrial Instrumentation Systems - 3cr.
- ELET2160 - Industrial Instrumentation Systems Lab - 1cr.
- ELET2210 - Advanced PLC's - 3cr.
- ELET2220 - Advanced PLC's Lab - 1cr.
- ELET2250 - Industrial Control Systems - 6cr.
- ELET2260 - Industrial Control Systems Lab - 1cr.

Electronics: Solid State, Computer Basics

Complete ALL of the following Courses:

- CS1030 - Foundations of Computer Science (BPS) - 3cr.
- ELET1120 - Computer Tools for Technology - 3cr.
- ELET1150 - Digital Systems Theory - 4cr.
- ELET1160 - Digital Systems Lab - 1cr.
- ELET2110 - Micro Systems - 3cr.
- ELET2120 - Micro Systems Lab - 2cr.

Elective and Industry Credit

Complete ALL of the following Courses:

- ELET2977 - Cooperative Education - 1cr.
- ELET2988 - Special Problems - 1cr.

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Undergraduate Academic or Technical Certificates)

Program Learning Outcomes

Program Learning Outcomes

- Install, maintain, and troubleshoot industrial instrumentation and control systems used in power generation and automated environments.
- Apply industry-standard procedures and testing methods aligned with Power Plant Union training expectations.
- Interpret and work with advanced measurement, monitoring, and control technologies essential to modern industrial operations.
- Demonstrate hands-on competency with electrical, mechanical, and automated control equipment used in manufacturing, powerplants, and related industries.
- Practice safe, reliable maintenance techniques that meet employer and industry requirements for critical system operations.

Intercultural Communication Competence - Certificate

Program Overview

College
College of Arts & Sciences

Department
Communication & Media

Program Level
Undergraduate

About this Degree

The Intercultural Communication Competence Certificate provides students with practical skills for communicating, engaging, adapting, and fitting within a wide range of intercultural contexts. The certificate offers students, from a variety of colleges and majors, flexible pathways to obtaining the foundations of intercultural competence: intercultural knowledge (knowledge of self and others), skills (communicating, interpreting, relating, interacting, and discovering), and attitudes (valuing others, beliefs, behaviors and relativizing oneself). Together, these learning outcomes help students to become more effective intercultural communicators and to contribute accordingly in their personal and professional lives.

Program Requirements

Total Credits Required In Program Coursework
12

Total Credits Required To Earn This Credential
12

Simple Requisites

Program Requirements

12 credits

Intercultural Communication Competence - UC

Type
Completion Requirement

Tier 1 Intercultural Foundations

Complete ALL of the following Courses:

- CMST1330 - Introduction to Global Communication (BSS) - 3cr.
- CMST3330 - Intercultural Communication (DSS) - 3cr.

Tier 2 Advanced Intercultural Foundations

Earn at least 3 credits from the following:

- CMST3270 - Culture and Public Discourse (DHA) - 3cr.
- CMST3730 - Culture and Global Intervention (DHA) - 3cr.
- CMST4270 - Communication, Culture, and Power - 3cr.
- CMST4330 - Advanced Perspectives in Global Communication (CI) - 3cr.

Tier 3 Area Specialty

Earn at least 3 credits from the following:

- ANTH1010 - Cultural Anthropology (BSS) - 3cr.
- ANTH2010 - Peoples of the Contemporary World (BSS) - 3cr.
- ANTH2018 - Introduction to Native American History and Culture (BSS) - 3cr.
- ANTH2720 - Survey of American Folklore - 3cr.
- ANTH3110 - North American Indian Cultures (DSS) - 3cr.
- ANTH3130 - Peoples of Latin America (CI) - 3cr.
- ANTH3180 - Peoples of the Middle East (DSS) - 3cr.
- ANTH3200 - Perspectives on Race (DSS/CI) - 3cr.
- ANTH3550 - Culture of East Asia (DHA) - 3cr.
- ANTH4110 - Southwest Indian Cultures, Past and Present (DSS) - 3cr.
- ANTH4115 - Tourism, Culture, and Development - 3cr.
- CHIN3116 - Exploring China - Past, Present and You - 3cr.
- CHIN3117 - Chinese Legacies - Tradition and Modernity - 3cr.
- CMST3270 - Culture and Public Discourse (DHA) - 3cr.
- CMST3730 - Culture and Global Intervention (DHA) - 3cr.
- CMST4270 - Communication, Culture, and Power - 3cr.
- CMST4330 - Advanced Perspectives in Global Communication (CI) - 3cr.
- ENGL2060 - Reading Across Borders (BHU) - 3cr.
- ENGL2350 - Indigenous Voices (BHU) - 3cr.
- ENGL2640 - Race and Ethnicity in the United States (BHU) - 3cr.
- ENGL4210 - History of English: Change and Diversity - 3cr.
- ENGL4370 - Native American Literature - 3cr.
- ENGL4375 - U.S. Latinx Literature - 3cr.
- ENGL4380 - African American Literature - 3cr.
- JCOM2400 - Introduction to Social Media - 3cr.
- JCOM3110 - Feature Writing (CI) - 3cr.
- POLS2200 - Comparative Politics (BSS) - 3cr.
- POLS3100 - Global Issues: Non-Democratic Politics - 3cr.
- POLS3210 - Western European Government and Politics (DSS) - 3cr.
- POLS3230 - Middle Eastern Government and Politics - 3cr.
- POLS3270 - Latin American Government and Politics (DSS) - 3cr.
- POLS4270 - The Politics of Global Inequality - 3cr.
- POLS4410 - International Negotiations - 3cr.
- PORT3117 - Cultural Issues Through Literature and FIlm - 3cr.
- PORT3570 - Brazilian Culture and Civilization (DHA) - 3cr.
- RUSS1050 - Eastern Slavic Civilization - 3cr.
- SOC4350 - People, Power, and the Political - 3cr.
- SPAN3560 - Introduction to U.S. Latino/a Culture - 3cr.
- SPAN3570 - Hispanic American Culture and Civilization (DHA) - 3cr.

Program Learning Outcomes

Program Learning Outcomes

Utah State University is committed to excellence, access, and inclusion. The certificate will be available to all USU students and will equip students from all academic and professional foci with the skills necessary to work effectively in multicultural environments. The skills will be paramount in their pursuit of excellence in their professional and personal lives.

Intersectional Gender Studies - Minor

Program Overview

College
College of Arts & Sciences

Department
School of Social Sciences

Program Level
Undergraduate

About this Degree

The Intersectional Gender Studies (IGS) Minor offers students breadth and depth training in the interdisciplinary field of gender studies. This program will prepare students to think critically about social inequality at the intersection of race, ethnicity, social class, gender identity and expression and sexual identity. Students completing the minor will have the opportunity to take courses across a range of disciplines including anthropology, English, history, sociology, political science, psychology, education and biology.

Program Requirements

Total Credits Required In Program Coursework
18

Total Credits Required To Earn This Credential
18

Simple Requisites

Program Requirements

To complete the undergraduate minor, students must complete 18 credits of coursework, including three required core courses and one course from three of the four thematic clusters: (1) *Race, Ethnicity & Indigenous Studies*; (2) *Gender, Sexuality & the Body*; (3) *Global and Transnational Issues;* and (4) *Science, Technology and the Environment*. Courses within each cluster are drawn from a range of disciplines including history, religious studies, sociology, political science and environmental studies.

The minor is available to all majors. A grade of C is required for all courses taken to meet the requirements of the minor. To graduate with an IGS minor, students must have a 2.5 GPA.

For more information regarding intersectional gender studies, please visit https://www.usu.edu/intersections/.

Required Courses

Type
Completion Requirement

Required Courses

Complete ALL of the following Courses:

- SOC1030 - Introduction to Gender & Sexuality Studies (BSS) - 3cr.
- SOC3020 - Inclusive Leadership & Community Engagement (CI) - 3cr.
- SOC3910 - Theories of Gender and Sexuality - 3cr.

Elective Courses

Type
Completion Requirement

Thematic Clusters

Students must select one course from three of the four thematic clusters. Courses listed in multiple thematic clusters may only be used once to satisfy minor requirements.

Elective Cluster #1: Race, Ethnicity and Indigenous Studies (3 credits)

Complete ANY of the following Courses:

- ANTH3110 - North American Indian Cultures (DSS) - 3cr.
- ANTH3200 - Perspectives on Race (DSS/CI) - 3cr.
- ANTH5110 - Southwest Indian Cultures, Past and Present (DSS) - 3cr.
- ARTH3270 - Native North American Art (CI) - 3cr.
- ARTH3840 - Race and Visual Culture (CI) - 3cr.
- CMST3330 - Intercultural Communication (DSS) - 3cr.
- ELED3000 - Historical, Social, and Cultural Foundations of Education (CI) - 3cr.
- ENGL3610 - Multicultural American Literature - 3cr.
- ENGL3620 - Native American Studies - 3cr.
- ENGL4370 - Native American Literature - 3cr.
- ENGL4375 - U.S. Latinx Literature - 3cr.
- ENGL4380 - African American Literature - 3cr.
- ENGL4520 - Teaching Literacy in English Language Arts Classrooms - 2cr.
- ENGL5330 - Race and Ethnicity in Literature (CI) - 3cr.
- FILM3300 - The African American Cinematic Experience (CI) - 3cr.
- HEP5000 - Health Trends Across Communities (CI) - 3cr.
- HIST3615 - Latinx History - 3cr.
- HIST3630 - History of Modern Latin America - 3cr.
- HIST3670 - Slavery in the Atlantic World (CI) - 3cr.
- HIST3750 - Civil War and Reconstruction - 3cr.
- HIST3910 - Health, Disease, and Medicine in North America (DHA) - 3cr.
- HIST4630 - History of the Southwest Borderlands (DHA) - 3cr.
- HIST4710 - American Indian History - 3cr.
- HIST4711 - Northern Ute History (DHA) - 3cr.
- HIST4720 - The Civil Rights Movement (DHA/CI) - 3cr.
- HIST4730 - History of Black America (CI) - 3cr.
- MUSC3020 - History of Jazz (DHA) - 3cr.
- POLS4220 - Ethnic Conflict and Cooperation (CI/DSS) - 3cr.
- PSY4240 - Multicultural Psychology (DSS) - 3cr.
- PSY4940 - Indigenous Community Engaged Learning - 3cr.
- SCED3210 - Educational and Multicultural Foundations (DSS/CI) - 3cr.
- SOC3340 - Activism, Protest, and Social Movements (DSS) - 3cr.
- SOC3650 - Sociology of Education - 3cr.
- SOC4350 - People, Power, and the Political - 3cr.
- SOC4410 - Race and Crime (CI) - 3cr.
- SPAN3300 - Introduction to Hispanic Literature and Literary Analysis - 3cr.
- SPAN3560 - Introduction to U.S. Latino/a Culture - 3cr.
- SPAN3570 - Hispanic American Culture and Civilization (DHA) - 3cr.
- SPAN3620 - Survey of Hispanic American Literature I (DHA) - 3cr.
- SPAN3630 - Survey of Hispanic American Literature II (DHA) - 3cr.
- SPAN3640 - Introduction to U.S. Latino/a Literature - 3cr.

Elective Cluster #2: Gender, Sexuality and the Body (3 credits)

Complete ANY of the following Courses:

- ANTH3140 - Anthropology of Sex and Gender (DSS) - 3cr.
- ANTH3200 - Perspectives on Race (DSS/CI) - 3cr.
- ANTH3225 - Sex, Evolution, and Health (DSC) - 3cr.
- ARTH4710 - Feminist Theory and Practice in the Visual Arts (CI) - 3cr.

- CMST3160 - Gender Communication - 3cr.
- ENGL5320 - Gender and Sexuality in Literature (CI) - 3cr.
- FCSE3080 - Fashion Studies and Society (DHA) - 3cr.
- HDFS3110 - Human Sexuality - 3cr.
- HIST4260 - Witches, Workers, & Wives: Gender and Family in Early Modern Europe and America (DHA) - 3cr.
- JCOM4410 - Gender and the Mass Media - 3cr.
- KIN4910 - Methods of Teaching Health - 3cr.
- PHIL3820 - Theories of Sex and Gender (DHA) - 3cr.
- PSY4230 - Psychology of Gender (DSS) - 3cr.
- SCED3210 - Educational and Multicultural Foundations (DSS/CI) - 3cr.
- SOC2370 - Sociology of Gender (BSS) - 3cr.
- SOC3040 - The History of Sexuality - 3cr.
- SOC3650 - Sociology of Education - 3cr.
- SOC4350 - People, Power, and the Political - 3cr.
- SOC5420 - Gender, Sexuality and Social Inequality - 3cr.
- SPED4300 - What is Normal?: Introduction to Disability Studies - 3cr.
- SPED5500 - Interdisciplinary Disability Awareness and Community Engaged Learning - 3cr.
- THEA3570 - Historic Clothing (DHA) - 3cr.

Elective Cluster #3: Global and Transnational Issues (3 credits)

Complete ANY of the following Courses:

- ANTH3130 - Peoples of Latin America (CI) - 3cr.
- ARTH4520 - The Visual Cultures of Empire (CI) - 3cr.
- CMST4330 - Advanced Perspectives in Global Communication (CI) - 3cr.
- ENGL3385 - Postcolonial World Literature - 3cr.
- GEOG5120 - Environment and Development in Latin America (CI) - 3cr.
- HIST3020 - Introduction to Hinduism (DHA) - 3cr.
- HIST3340 - Holocaust History and Memory (DHA) - 3cr.
- HIST3630 - History of Modern Latin America - 3cr.
- HIST3670 - Slavery in the Atlantic World (CI) - 3cr.
- HIST4540 - Gender, Violence, and Non-violence - 3cr.
- HIST4660 - Work and Migration in North American History (DHA) - 3cr.
- POLS4270 - The Politics of Global Inequality - 3cr.
- PORT3570 - Brazilian Culture and Civilization (DHA) - 3cr.
- RELS3165 - Bridging Religious Difference in Theory and Practice: an Introduction to Interfaith Leadership - 3cr.
- RELS3420 - Gods and Goddesses of India - 3cr.
- SOC2650 - Globalization and International Development (BSS) - 3cr.
- SOC5270 - Global Migration - 3cr.

Elective Cluster #4: Science, Technology and the Environment (3 credits)

Complete ANY of the following Courses:

- CMST4260 - Environmental Communication - 3cr.
- GEOG5120 - Environment and Development in Latin America (CI) - 3cr.
- ENGR1940 - Women in Engineering Seminar - 1cr.
- SOC4620 - Sociology of the Environment and Natural Resources (DSS) - 3cr.
- TCR4220 - Technology and Activism - 3cr.
- TCR4230 - Project Management - 3cr.

Program Learning Outcomes

Program Learning Outcomes

https://chass.usu.edu/assessments/

Industrial Mechanics/Maintenance - Technical Certificate

Program Overview

College
College of Agriculture & Natural Resources

Department
Technology, Design & Technical Ed

Program Level
Undergraduate

About this Degree

What if a student could master the hands-on skills needed to keep power plants, factories, and industrial systems running—so that they graduate ready to step into a high-paying, in-demand career?

For example, in the Industrial Mechanics/Maintenance program, students train on real equipment, learning to install, repair, and maintain complex machinery. From hydraulics and pneumatics to welding and electrical systems, they'll gain the expertise industries rely on.

And that's not all—this program prepares students to take their Journeyman's test in Industrial Maintenance, giving them a competitive edge for jobs in power plants, manufacturing, mining, and beyond. Employers are looking for skilled technicians—so why wait to get started?

Program Requirements

Total Credits Required In Program Coursework
50

Total Credits Required To Earn This Credential
50

Simple Requisites

Program Requirements

Industrial Mechanics Required Courses

Type
Completion Requirement

Welding and Related Subjects

Students must complete 18 credits in courses with a TEWT or WELD prefix. The following are possible courses, but students may talk to the program advisor regarding additional options.

Complete ALL of the following Courses:

- WELD1100 - Shielded Metal Arc Welding (SMAW) - 5cr.
  OR TEWT1111 - Shielded Metal Arc Welding (SMAW) I - 2cr.
- WELD1120 - Beginning Gas Metal Arc Welding (GMAW) and Flux Cored Arc Welding (FCAW) - 5cr.
  OR TEWT1340 - Gas Metal Arc Welding (GMAW) and Flux-Cored Arc Welding (FCAW) Theory - 2cr.
- WELD1150 - Beginning Gas Tungsten Arc Welding (GTAW) - 5cr.
  OR TEWT1211 - Gas Tungsten Arc Welding (GTAW) I - 2cr.
- WELD2400 - Print Reading for Welders - 3cr.

Machine Shop and Related Subjects

Complete ALL of the following Courses:

- TEMT1000 - Manufacturing Fundamentals - 3cr.
- TEMT1200 - Lathe Concepts - 3cr.
- TEMT1100 - Mill Concepts - 3cr.
- TEMT2000 - Process Control - 3cr.
- TEMT1005 - Machining for Manufacturing Trades - 3cr.
- MACH2988 - Special Problems - 1cr.
- WELD2600 - Metallurgy - 3cr.
  OR TEWT1080 - Welding Metallurgy - 3cr.

Industrial Mechanics

Students must take 6 credits of courses with the prefix of ELET and TEEL. Students should consult the program advisor regarding which courses would fit best with the student's goals.

Complete ALL of the following Courses:

- ELET2200 - Industrial Mechanics II - 3cr.
- TEAM1040 - Industrial Mechanics - 3cr.

Technical Mathematics or Equivalent

Complete ALL of the following Courses:

- ELET1110 - Technical Mathematics - 3cr.
  OR MATH1050 - College Algebra (QL) - 4cr.
- MATH1060 - Trigonometry - 2cr.
- MATH1030 - Quantitative Reasoning (QL) - 3cr.

or higher is accepted

Program Learning Outcomes

Program Learning Outcomes

- Install, maintain, and repair industrial machinery and mechanical systems using industry-standard tools and procedures.
- Apply foundational knowledge of hydraulics and pneumatics to troubleshoot and service fluid-powered equipment.
- Perform welding and metal-fabrication tasks required in industrial maintenance settings.
- Diagnose and repair electrical and electronic systems used in industrial environments.
- Demonstrate safe working practices and professional competence aligned with industry expectations and preparation for the Industrial Maintenance Journeyman's test.

International Business - Minor

Program Overview

College
Jon M. Huntsman School of Business

Department
Marketing and Strategy

Program Level
Undergraduate

Program Requirements

Total Credits Required To Earn This Credential
13-14

Simple Requisites

Program Requirements

An International Business minor is available to Huntsman School of Business majors and non-Huntsman School of Business majors. Students are responsible for completing prerequisite courses where applicable. A minimum GPA of 2.50 is required in minor courses. An overall GPA of 2.50 is required for the minor to be awarded at graduation. Courses for the minor *may not* be taken on a pass/fail basis.

There is also a certificate in International Business offered by the University: International Business - Institutional Certificate of Proficiency

Section 1

Type
Completion Requirement

International Business Minor Required Courses (11 credits)

Complete ALL of the following Courses:

- FIN4300 - International Finance - 3cr.
- MGT4790 - Managing Global Value Chains - 2cr.
- MSLE3820 - International Business (DSS) - 3cr.
- MSLE4050 - International Marketing - 3cr.

Select one elective course (2-3 credits)

Complete ANY of the following Courses:

- ECON3500 - Introduction to International Business and Economics (DSS) - 3cr.
- MGT3830 - International Law - 2cr.

Additional Comments:
Any deviation from the program as outlined must be submitted in writing to the department head for approval, including justification for the changes.

Program Learning Outcomes

Program Learning Outcomes
https://huntsman.usu.edu/assessment/assessment-plan

International Business - BA, BS (NOT CURRENTLY OFFERED)

Program Overview

College
Jon M. Huntsman School of Business

Department
Marketing and Strategy

Program Level
Undergraduate

Program Requirements

Total Credits Required In Program Coursework

Total Credits Required To Earn This Credential
120

Aggies Elevated - Integrated College and Community Studies - Certificate

Program Overview

College
College of Education & Human Services

Department
Special Education & Rehab Counseling

Program Level
Undergraduate

About this Degree

Aggies Elevated is an inclusive college program at Utah State University for young adults with intellectual disabilities. The program empowers students with intellectual disabilities to develop the skills needed for meaningful employment, full community inclusion, and independent living to their highest ability. Students work towards a *Certificate* in Integrated College and Community Studies and enjoy access to the same opportunities for academic and career exploration, growth and maturity, and increased social networks that all other college students experience.

The program is housed within the Department of Special Education and Rehabilitation Counseling in the Emma Eccles Jones College of Education and Human Services.

Aggies Elevated has specific eligibility criteria and requires a separate application for admission. For more information, visit our website here.

Program Requirements

Total Credits Required In Program Coursework
36

Total Credits Required To Earn This Credential
36

Simple Requisites

Program Requirements

A minimum of 36 credits are required to receive the Certificate. Students must take and pass all EDUC-designated courses for credit.

Guidance is provided in selecting appropriate elective courses. Electives must be approved by advisor prior to enrolling.

Required Courses

Type
Completion Requirement

Semester 1 (Fall)

Complete ALL of the following Courses:

- EDUC0100 - Foundations of Reading and Writing - 3cr.
- EDUC1020 - Career Exploration I - 3cr.
- EDUC1030 - Healthy Relationships - 2cr.
- USU1010 - University Connections - 2cr.
- USU1120 - Habits for Academic Success - 3cr.

Semester 2 (Spring)

Complete ALL of the following Courses:

- EDUC1040 - Career Exploration II - 3cr.
- EDUC1050 - Self-Determination - 3cr.

• 2 elective credits required (Choose from various courses in the USU catalog with advisor's approval)

Semester 3 (Fall)

Complete ALL of the following Courses:

- EDUC2100 - Everyday Social Skills - 2cr.
- EDUC2110 - Work Internship - 1cr.

• 2 elective credits required (Choose from various courses in the USU catalog with advisor's approval)

NOTE:

1. EDUC2110 WORK INTERNSHIP - 3 credits

Semester 4 (Spring)

Complete ALL of the following Courses:

- EDUC2120 - Navigating Adulthood - 3cr.
- EDUC2110 - Work Internship - 1cr.

• 2 elective credits required (Choose from various courses in the USU catalog with advisor's approval)

NOTE:

1. EDUC2110 WORK INTERNSHIP - 3 credits

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Undergraduate Academic or Technical Certificates)

Program Learning Outcomes

Program Learning Outcomes

https://cehs.usu.edu/about/assessment

Inclusive Leadership - Certificate

Program Overview

College
College of Arts & Sciences

Department
School of Social Sciences

Program Level
Undergraduate

About this Degree

A Certificate in Inclusive Leadership will prepare students to lead in an increasingly diverse and global world. This program is appropriate for students planning careers in the public, private and non-profit sectors. Students will develop grounding in inclusive leadership principles, theories and research and gain valuable communication, collaboration and community engagement skills. Completion of this interdisciplinary program will enhance the professional skills and leadership potential of students from any major.

For more information For more information regarding Inclusive Leadership, please visit www.usu.edu/intersections/.

Program Requirements

Total Credits Required In Program Coursework
18

Total Credits Required To Earn This Credential
18

Simple Requisites

Program Requirements

To complete the undergraduate program, students must complete 18 credits of coursework, including three required courses and at least one course from each of three thematic clusters: (1) Community Engaged Leadership; (2) Understanding Conflict, Power and Difference; and (3) Inclusive Leadership Skills and Perspectives. At least one elective must be a designated Community Engaged Learning (CEL) course.

The Certificate is available to all majors. A grade of C or better is required for all courses taken to meet the requirements for the program. To graduate with a Certificate in Inclusive Leadership, students must have a minimum GPA of 2.5.

Inclusive Leadership - Certificate

Type
Completion Requirement

Required Foundational Course

Complete ALL of the following Courses:

- SOC3020 - Inclusive Leadership & Community Engagement (CI) - 3cr.

Required Skills-Based Courses (6 credits)

Complete at least 2 of the following courses:

- ADVS5650 - Science Communication - 3cr.
- ASTE4155 - Nonformal Teaching Methods - 3cr.
- BUS3200 - Professional Communication with AI (CI) - 3cr.
- CMST3050 - Technical and Professional Communication (DSS) - 3cr. (Inactive)
- CMST3250 - Organizational Communication (CI) - 3cr.
- CMST3330 - Intercultural Communication (DSS) - 3cr.
- CMST3400 - Persuasion - 3cr.
- DATA3100 - Making Decisions with Data - 3cr.
- DATA3300 - Introduction to Modern Data Analytics (QI) - 3cr.
- JCOM2010 - Media Literacy (BSS) - 3cr.
- JCOM3030 - Corporate Communication - 3cr.
- JCOM3050 - Technical and Professional Communication Principles (CI) - 3cr.
- JCOM3200 - Writing for Electronic Media - 3cr.
- JCOM3310 - Writing for Public Relations (CI) - 3cr.
- JCOM3320 - Strategic Research Methods in Public Relations (DSS) - 3cr.
- TCR2100 - Introduction to Technical Communication - 3cr.
- TCR2110 - Digital Writing Technologies - 3cr.
- TCR3100 - Workplace Research - 3cr.

Elective Cluster #1: Community Engaged Leadership (3 credits)

Complete at least 1 of the following courses:

- ANTH1090 - Introduction to Interfaith Leadership (BHU) - 3cr.
- ASTE3625 - Youth Development Education - 2cr.
- ASTE4155 - Nonformal Teaching Methods - 3cr.
- ASTE4215 - Community Programming and Evaluation - 3cr.
- ASTE5220 - Volunteer Programs and Partnerships - 3cr.
- ENVS4000 - Human Dimensions of Natural Resource Management (DSS) - 3cr.
- ENVS4700 - Communicating Sustainability (CI) - 3cr.
- ENVS5000 - Environmental Nonprofit and Volunteer Management - 3cr.
- HEP3600 - Functions of Community & Public Health (CI) - 3cr.
- PSY4240 - Multicultural Psychology (DSS) - 3cr.
- PSY4940 - Indigenous Community Engaged Learning - 3cr.
- RELS3165 - Bridging Religious Difference in Theory and Practice: an Introduction to Interfaith Leadership - 3cr.
- SPAN3010 - Hispanic Outreach Practicum - 1cr.
- SPED5500 - Interdisciplinary Disability Awareness and Community Engaged Learning - 3cr.
- SW2400 - Social Work with Diverse Populations - 3cr.
- SCI1050 - Tutor Training Level I - 1cr.
- TCR4220 - Technology and Activism - 3cr.

Elective Cluster #2: Understanding Conflict, Power and Difference (3 credits)

Complete at least 1 of the following courses:

- CMST3600 - Communication and Conflict - 3cr.
- CMST4270 - Communication, Culture, and Power - 3cr.
- CMST4330 - Advanced Perspectives in Global Communication (CI) - 3cr.
- CMST4260 - Environmental Communication - 3cr.
- ENGL4380 - African American Literature - 3cr.
- HIST4540 - Gender, Violence, and Non-violence - 3cr.
- HIST4720 - The Civil Rights Movement (DHA/CI) - 3cr.
- JCOM5030 - International Communications Problems - 3cr.
- POLS4220 - Ethnic Conflict and Cooperation (CI/DSS) - 3cr.
- SCED3210 - Educational and Multicultural Foundations (DSS/CI) - 3cr.
- SOC1030 - Introduction to Gender & Sexuality Studies (BSS) - 3cr.
- SOC3010 - Social Inequality (DSS) - 3cr.
- SOC3040 - The History of Sexuality - 3cr.
- SOC3320 - Work, Inequality and the American Dream (DSS) - 3cr.
- SOC3340 - Activism, Protest, and Social Movements (DSS) - 3cr.
- SOC3910 - Theories of Gender and Sexuality - 3cr.
- SOC4350 - People, Power, and the Political - 3cr.
- SOC5420 - Gender, Sexuality and Social Inequality - 3cr.

Elective Cluster #3: Inclusive Leadership Skills and Perspectives (3 credits)

Complete at least 1 of the following courses:

- APEC5015 - Applied Economics for Decision Making (QI) - 3cr.
- ASTE4215 - Community Programming and Evaluation - 3cr.
- CMST3280 - Organizations and Social Change - 3cr.
- CMST4330 - Advanced Perspectives in Global Communication (CI) - 3cr.
- CMST4430 - Negotiation in a Global World - 3cr. (Inactive)
- CMST5500 - Communication and Leadership - 3cr.
- HEP3600 - Functions of Community & Public Health (CI) - 3cr.
- MGT3100 - Organizational Behavior - 2cr.
- MGT3150 - Critical Thinking for Managerial Decision Making - 2cr.
- MGT3400 - Managerial Ethics - 2cr.
- MGT4600 - Negotiations - 2cr.
- MSLE3710 - Leading Teams - 2cr.
- MSLE3800 - Leadership - 2cr.
- PHIL3520 - Business Ethics (DHA) - 3cr.
- PHIL3580 - Ethics and Economic Life (DHA) - 3cr.
- POLS4410 - International Negotiations - 3cr.
- PSY5280 - Organizational Behavior Management - 3cr.

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Undergraduate Academic or Technical Certificates)

Program Learning Outcomes

Program Learning Outcomes

https://chass.usu.edu/assessments/

Instructional Coaching - Post-Bachelor's Certificate

Program Overview

College
College of Education & Human Services

Department
Instructional Technology & Learning Sciences

Program Level
Graduate

About this Degree

The Department of Instructional Technology and Learning Sciences (ITLS) and the School of Teacher Education and Leadership (TEAL) propose a *Post-Baccalaureate Certificate* in **Instructional Coaching** to prepare students to work in instructional leadership roles.

Program Requirements

Total Credits Required In Program Coursework
9

Total Credits Required To Earn This Credential
9

Simple Requisites

Program Requirements

The certificate will require 9 credits (3 courses) to deepen theoretical knowledge and implement evidence-based strategies that develop skilled and effective instructional coaches.

Instructional Coaching - Post-Bachelor's Certificate

Type
Completion Requirement

Required Courses (9 credits)

Complete ALL of the following Courses:

- ITLS6400 - Foundations of Instructional Coaching - 3cr.
- ITLS6520 - Instructional Design I - 3cr.
- ITLS6720 - Instructional Technology in Adult Education - 3cr.

Interfaith Leadership Certificate - Certificate

Program Overview

College	Department	Program Level
College of Arts & Sciences	School of Social Sciences	Undergraduate

About this Degree

In today's increasingly complex and religiously diverse world, there is an urgent need for interfaith cooperation, which is characterized by respect for individual religious or non-religious identities, by the capacity to create and sustain mutually inspiring relationships with people of differing faith commitments, and by mastering the vision, knowledge and skills that facilitate the ability to come together across religious differences in service to a common good. The emerging field of Interfaith Studies provides students with an appreciative knowledge of the ways that religious and non-religious commitments shape peoples' lives as well as with the vision and the necessary skills to engage with people of differing world views and faith-commitments. This 18-credit interdisciplinary certificate program has been carefully designed to build undergraduate student capacity for serving as an Interfaith Leader, regardless of the career that you may choose. This Certificate program can be combined with any major or minor and will add real value to any post-graduation employment or graduate-level studies that you seek.

The interdisciplinary nature of this certificate allows you to select from classes already being offered in religious studies, philosophy, history, anthropology, and many other majors, while adding a core set of courses that teach the theory and method. A key component of this Certificate program is the combination of classroom instruction together with opportunities to use these concepts and skills to help solve "real" world challenges through a practicum or community-based internship experience. It is intended to add value to *any* undergraduate major and it has been carefully designed to give you both the tools and the experience to share authentically, engage respectfully, and to bridge religious difference in order to serve the common good.

Program Requirements

Total Credits Required In Program Coursework	Total Credits Required To Earn This Credential
18	18

Simple Requisites

Program Requirements

Program Objectives

- To help students of any major **become interfaith leaders conversant in the theory and practice** of interfaith engagement, as related to a variety of disciplines, their future career, and community, peace & justice issues.
- To teach students **transferable perspectives and skills** including appreciation for diversity, strategies of non-violent communication, ethnographic interviewing and transcription, non-judgmental observation and participation, cultural humility and cultivation of the attitudes associated with becoming a life-long learner and an engaged citizen-scholar.
- To enable students to **integrate interfaith studies into almost any major**; completion of this certificate will make graduates **more attractive on the job market**, given the need for such sensitivity in any field.
- To further the university mission of cultivating a diversity of thought and culture while serving the public through learning, discovery, and engagement.

PROGRAM STRUCTURE AND REQUIREMENTS

The Interfaith Leadership Certificate is open to all USU Undergraduates who have at least a 2.0 cumulative GPA. A grade of C or above must be obtained in each course that is counted for the certificate. Courses are divided into core courses (9 credits) and elective courses (9 credits).

A 3 credit foundations course (ANTH1090 INTERFAITH LEADERSHIP (BHU)/RELS1090 INTERFAITH LEADERSHIP (BHU)) introduces students to the field of Interfaith Studies. This course is required of all who seek to obtain the Interfaith Leadership Certificate. It is offered on-line, and it is available both Fall and Spring semesters. A second 3 credit course is chosen from introductory offerings in either Religious Studies or Anthropology (RELS1010 INTRO RELIGIOUS STUDIES (BHU) or ANTH3160 ANTH OF RELIGION (DSS)). While these courses may not be offered every semester, each of these two courses if offered at least once per year. The third required course is an Interfaith Leadership Practicum (currently ANTH5195 INTERFAITH LEADER PRACTICUM/RELS5195 INTERFAITH LEADER PRACTICUM). This course serves as a capstone experience which is supervised by the Interfaith Leadership Certificate program coordinator. Students should begin discussing this internship/practicum experience with the Program Coordinator early in their course of studies to discuss both possibilities and expectations of this capstone experience.

The three elective courses (for a total of 9 credits) are drawn from multiple course offerings organized into four categories of course offerings including Appreciative Knowledge of Religious Traditions, the History of Religious Conflict and Cooperation, Ways of Knowing, Being, and Interacting in the World and Religious Engagement Beyond the Classroom. Students may choose from any course listed in the matrix, below, to fulfill these requirements. While not required, students are strongly encouraged to choose one course (3 credits) from the category called Religious Engagement Beyond the Classroom because courses in this category have some community-based or experiential learning as one of the course requirements. Because most of these courses are required or elective courses that serve one or more undergraduate majors/minors, students may count these courses for *both* major/minor requirements and for the Interfaith Leadership Certificate as long if the requirements for their major permit this option. Exceptions to this include ANTH1090 INTERFAITH LEADERSHIP (BHU)/RELS1090 INTERFAITH LEADERSHIP (BHU) and sections of ANTH5195 INTERFAITH LEADER PRACTICUM/RELS5195 INTERFAITH LEADER PRACTICUM, which are exclusive to the Interfaith Leadership Certificate. Students are encouraged to talk with the Program Coordinator regarding any concerns or requests for clarification that may come up.

Requirements for this Certificate

1. There is no separate admissions process necessary to pursue this Certificate.
2. Students pursuing this Certificate must be matriculated as degree-seeking USU undergraduate students.
3. Transfer students from other institutions may articulate semester-based courses that align with courses offered in the Appreciative Knowledge of Religious Traditions, the History of Religious Conflict and Cooperation, or the Ways of Knowing, Being and Interacting in the World categories, with permission of the Program Coordinator.
4. Students who have taken courses that articulate with either ANTH3160 ANTH OF RELIGION (DSS) or RELS1010 INTRO RELIGIOUS STUDIES (BHU) at another institution may also articulate these courses.
5. Students must receive a C or better in any course that they intend to count towards the Interfaith Leadership Certificate program.

Academic Advisement

Upon declaring the intent to pursue the Interfaith Leadership Certificate, each student is assigned an advisor. Students are strongly encouraged to meet with their advisor at least once per semester to review their academic progress, plan their program, and discuss postgraduate opportunities. Students are

encouraged to consult with their advisor about course election, academic programs, program requirements, and any other aspect of their college experience. Questions concerning University Studies requirements should be directed to the College of CHASS Advising Center, Taggart Student Center 302, (435) 797-3883.

Interfaith Website

Students are strongly encouraged to use the USU Interfaith Initiative Home Page on the internet at: (http://interfaith.usu.edu) to obtain more detailed information about the program including requirements, detailed course descriptions, tentative course schedules for the coming year, funding opportunities, information about hands-on opportunities in the program, and information about graduate school and employment opportunities where an Interfaith Leadership Certificate will be especially useful.

Interfaith Leadership Certificate - Certificate

Type

Completion Requirement

Required Introductory Courses (6 credits)

Complete at least 2 of the following courses:

- ANTH1090 - Introduction to Interfaith Leadership (BHU) - 3cr.
  OR RELS1090 - Introduction to Interfaith Leadership (BHU) - 3cr.
- ANTH3160 - Anthropology of Religion (DSS) - 3cr.
  OR RELS1010 - Introduction to Religious Studies (BHU) - 3cr.

Structured Electives (9 credits)

Students choose three courses (9 credits) from categories listed below:

Fulfill ANY of the following requirements:

Appreciative Knowledge of Religious Traditions

The courses in this category introduce students to religious/spiritual traditions.

Complete ANY of the following Courses:

- ANTH3090 - Introduction to Shamanism: Shamanic Healing for Personal and Planetary Transformation - 3cr.
- RELS3010 - Introduction to Buddhism (DHA) - 3cr.
- RELS3020 - Introduction to Hinduism (DHA) - 3cr.
- RELS3030 - Introduction to Islam (DHA) - 3cr.
- RELS3050 - Introduction to Christianity (DHA) - 3cr.
- RELS3060 - Introduction to Judaism (DHA) - 3cr.
- RELS3080 - Mormonism and the American Religious Experience (DHA) - 3cr.
- RELS3090 - Introduction to Shamanism: Shamanic Healing for Personal and Planetary Transformation - 3cr.
- RELS3210 - Classical Mythology - 3cr.
- RELS3420 - Gods and Goddesses of India - 3cr.
- RELS3510 - Islamic Visual Cultures (CI/DHA) - 3cr.
- RELS3820 - Hindu Sacred Texts (CI) - 3cr.
- RELS4555 - Women in Buddhism - 3cr.
- RELS4560 - Women in Islam (DHA) - 3cr.
- RELS4795 - Biography, Autobiography, and Joseph Smith - 3cr.

OR

History of Religious Conflict and Cooperation

The courses in this category introduce students to historical and contemporary instances of conflict and cooperation that have religious themes at the core of these interactions.

Complete ANY of the following Courses:

- RELS2050 - The Historical Jesus in a First Century Jewish Context - 3cr.
- RELS3270 - The Crusades (DHA) - 3cr.
- RELS3430 - History of Ancient Religions - 3cr.
- RELS3470 - Religion and Politics in South Asia - 3cr.
- RELS3482 - Ancient China to 1800 (DHA) - 3cr.
- ADVS4230 - Supervised Hours in Providing Equine-Assisted Services - 3cr.
- RELS4565 - Medieval Islam (DHA) - 3cr.
- RELS4566 - Global Faces of Islam (DHA) - 3cr.
- RELS4790 - American Religious History - 3cr.

OR

Ways of Knowing, Being, and Interacting in the World

The courses in this category introduce students to epistemological and ontological assumptions of religious or non-religious worldviews that impact how adherents and non-adherents see and understand the world and one's place within it.

Complete ANY of the following Courses:

- ENGL2340 - Navajo Literature and Philosophy - 3cr.
- LING2500 - Language & Religion - 3cr.
- PHIL3710 - Philosophies of East Asia - 3cr.
- PHIL3720 - Philosophical Theology - 3cr.
- PHIL3730 - Philosophy of the New Testament - 3cr.
- PHIL3750 - Religion and Science in the Modern World - 3cr.
- PHIL4300 - Epistemology (DHA) - 3cr.
- PHIL4310 - Philosophy of Science (DHA) - 3cr.
- PHIL4320 - History of Scientific Thought - 3cr. (Inactive)
- PHIL4400 - Metaphysics - 3cr.
- PHIL4410 - Philosophy of Mind (DHA) - 3cr.
- PHIL4500 - Virtue Ethics (DHA) - 3cr.
- PHIL4530 - Ethics and Biotechnology (DSC) - 3cr.
- RELS2060 - Religion & Science: Examining a Complex History of Interaction - 3cr.
- RELS3170 - Descent and Return: Ancient Views of Hades and the Afterlife - 3cr.

OR

Religious Engagement Beyond the Classroom

Students are encouraged to choose one course (3 credits) from the elective requirement from this category. Courses in this category require students to engage in at least three assignments that take them out of the classroom and into the community.

Complete ANY of the following Courses:

- ANTH3165 - Bridging Religious Difference in Theory and Practice: an Introduction to Interfaith Leadership - 3cr.
  OR RELS3165 - Bridging Religious Difference in Theory and Practice: an Introduction to Interfaith Leadership - 3cr.
- RELS4010 - Yoga Theory - 2cr.
- SW3850 - Spirituality and Social Work - 3cr.
- SW4160 - Practice III - 3cr.

Capstone Requirement (3 credits)

Complete ALL of the following Courses:

- ANTH5195 - Interfaith Leadership Practicum Experience - 3cr.

OR RELS5195 - Interfaith Leadership Practicum Experience - 3cr.

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Undergraduate Academic or Technical Certificates)

Program Learning Outcomes

Program Learning Outcomes

https://chass.usu.edu/assessments/

Industrial Mathematics - MS

Program Overview

College	Department	Program Level
College of Arts & Sciences	Mathematics & Statistics	Graduate

About this Degree

The Industrial Mathematics Program teaches students modeling, simulation, mathematical and statistical analysis for careers in industry and mathematical sciences. Students are prepared to work at a variety of government and industrial research jobs, teaching careers at community colleges as well as for entry to doctoral programs in applied mathematics or statistics. Research project topics are suggested by industrial and scientific internship partners; recent research has developed Bayesian optimization tools for use in quantitative Enzyme-Linked ImmunoSorbant Assay (ELISA) to detect bio-pathogens, used path planning algorithms to govern robotic devices in complicated environments, or developed mathematical models and dynamical systems approaches to optimize genetic amplification technology for industrial pathogen detection. Applicants are welcomed from any undergraduate technical major, including computer science, chemistry, engineering, math, physics and statistics. Undergraduate linear algebra, multivariate calculus and differential equations is prerequisite, as is computer programming experience.

Admission Requirements for this Program

Admission requirements can be found on the USU School of Graduate Studies website (https://gradschool.usu.edu/admissions/policies). Applicants are also expected to have a GPA in math/stat coursework of at least 3.5. Applicants must submit either Official GRE scores (GRE-Q at least 70th percentile, GRE-V of at least 40th percentile) or a research portfolio, consisting of (1) a research statement of no more than 2 pages including references, and (2) (optional) supplemental materials, such as abstracts, paper summaries, of no more than 3 pages. Papers can be provided in the form of web pages, DOIs, or arXiv preprints, but not the full documents.

Program Requirements

Total Credits Required In Program Coursework	Total Credits Required To Earn This Credential
36	36

Simple Requisites

Program Requirements

- Graduate students are required to maintain at least a 3.0 GPA for degree-program courses. Grades of C- or lower will not be accepted for a graduate degree.
- A master's degree must be completed within six years of entering the degree program. Additional time may be requested by the student's committee and submitted to the Vice Provost of Graduate Studies for review.
- This degree requires 36 credits of coursework. At least 24 credits must be at 6000 level or above, excluding STAT6990 and STAT7990 (Continuing Graduate Advisement) with no more than 12 credits allowed at the 5000 level. Credits below the 5000 level are not acceptable for a graduate degree.
- No more than 12 transfer credits may be used toward a graduate degree.
- Supervisory Committee Approval by the end of the second semester
- Program of Study submitted by the end of the second semester

- Appointment for examination form submitted 10 days before defense and during defense semester must be registered for credit
- Record of Examination Form
- Plan B Report/Creative Project form
- Graduation application

This is a Plan B (project/report) degree program, there are no Plan A or Plan C options:

A Plan B option requires the production and defense of a research project which can be conveyed in a technical report or journal-manuscript format. Students are required to complete 3 semester credits of thesis research (MATH6970 THESIS). Successful defense and submission of the paper/project to the library is required.

INDUSTRIAL MATHEMATICS MS – PLAN B

This degree requires 36 credits at or above the 5000 level – 30 credits in coursework, 3 credits for research (MATH6970 THESIS), and 3 credits for internship (MATH6250 GRAD INTERN/COOP) and no more than 12 credits at the 5000 level allowed. At least 15 of the coursework credits must be completed in MATH/STAT courses at the 6000 level or above (including the 3 credits of required internship). The internship could be a formal paid or unpaid summer internship at a tech company, NGO or national lab, but could also be a less formal 'imbedding' experience in another discipline requiring the student to assist with field or lab experiments and data collection. The governing notion is to be completely out of Math & Stats for at least a month, seeing another discipline from the inside and figuring out how Math & Stats could be usefully applied.

Additionally, students must complete a total of 9 graduate-level credits outside of the Department, complementing their internship and final project. A maximum of 3 of these credits may be taken at the 5000-level (i.e., one 3-credit course in another department), provided the student doesn't exceed a total of 12 credits at the 5000-level. To build a foundation in applied mathematics, students are required to take four 5000-level classes in their first year (or receive approval from their Supervisory Committee for substitutes):

Students are also required to complete a final project based on work done during an internship, either with a company or possibly with another department on campus. The project will include a technical write-up suitable to the industry/field, and presentation to the involved faculty and students in the program, following the Plan B option.

Plan B option:

Type
Completion Requirement

Plan B Requirements

A Plan B option requires the production and defense of a project. Students are required to complete 3 semester credits of thesis research (MATH6970 THESIS). Successful defense and submission of the project to the library is required. Approval of academic forms required for master's students by the School of Graduate Studies.

There are no Plan A or Plan C options for this program.

Complete ALL of the following Courses:
- MATH6970 - Thesis - 1cr.

Foundational Requirements

Type
Completion Requirement

Required Core Courses (16 credits)

Earn a minimum grade of B in the following:
- MATH5410 - Methods of Applied Mathematics - 3cr. **OR** MATH5420 - Partial Differential Equations - 3cr.
- MATH5610 - Introduction to Numerical Analysis - 3cr. **OR** MATH5620 - Numerical Algorithms for Approximate Solutions of DE - 3cr.
- MATH6250 - Graduate Internship/Cooperative Studies - 1cr.
- MATH6910 - Directed Reading and Conference - 1cr.
- MATH6970 - Thesis - 1cr.
- STAT5100 - Modern Regression Methods (CI/QI) - 3cr.

NOTE:

1. MATH6250 GRAD INTERN/COOP - 3 credits required
2. MATH6910 DIRECTED READING - Students should take the MATH6910 DIRECTED READING - DR: Modern Research in MATH/STATS the first Fall semester.
3. MATH6970 THESIS - 3 credits required

Additional Required Core Courses (3 credits)

In addition to the above listed required courses, students must one course from either Option 1 or Option 2,

Fulfill ANY of the following requirements:

Option 1

A minimum grade of B is required.

Complete at least 1 of the following courses:
- MATH5270 - Complex Variables - 3cr.
- MATH5460 - Nonlinear Dynamics - 3cr.
- MATH5760 - Applied Stochastic Processes - 3cr.

OR

Option 2

A minimum grade of B is required.

Complete at least 1 of the following courses:
- MATH5410 - Methods of Applied Mathematics - 3cr.
- MATH5420 - Partial Differential Equations - 3cr.
- MATH5610 - Introduction to Numerical Analysis - 3cr.
- MATH5620 - Numerical Algorithms for Approximate Solutions of DE - 3cr.

Elective Credit (17 credits)

Complete the following:
- At least 8 credits of additional MATH/STAT credit approved by their supervisory committee.
- 9 credits of graduate credits outside of the MATH/STATS department approved by their supervisory committee.

Program Learning Outcomes

Program Learning Outcomes
https://www.usu.edu/math/assessment/Mathematics

Information Systems - BA, BS

Program Overview

College
Huntsman School of Business

Department
Data Analytics & Information Systems

Program Level
Undergraduate

About this Degree

Information Systems (IS) provide the technical and human infrastructure that enables companies of all shapes and sizes to compete in today's global electronic marketplace.

- For more information about Data Analytics and Information Systems, see the website.
- Admitted and current students must meet with an advisor.
- Log on to Degree Works to check student-specific program progress.
- The highest math requirement for this degree is satisfied by the fulfillment of the QL requirement. MATH1050 COLLEGE ALGEBRA (QL) is recommended.

Admission Requirements for this Program

First-Year and Transfer Students are admitted to the Huntsman School of Business based on USU's Admission Requirements.

Current USU Students in good standing qualify for admission into a Huntsman School major.

Huntsman School Admission Details: https://huntsman.usu.edu/undergraduate/apply

Program Requirements

Total Credits Required In Program Coursework
120

Total Credits Required To Earn This Credential
120

Simple Requisites

Program Requirements

- Elective credits needed will be determined on an individual basis (a student with continuing education, AP credits, and Language credits may not require additional elective credits).
- Completing a minor is recommended to fulfill elective credits.
- ENGL2010 RSRCH&ARGUMENT PRSPCTVES (CL2) requires a grade of C or better to satisfy prerequisites for further courses.
- A 2.0 overall and a 2.5 major GPA is required to be recommended for graduation.
- Major requirements may *not* be taken on a pass/fail basis.

Information Systems - BA, BS Course Requirements

Type
Completion Requirement

Major Requirements (15 credits)

Students are required to complete the following courses, along with the business acumen and at least one of the emphases below.

Complete ALL of the following Courses:

- IS4250 - Data Analytics and Information Systems Internship - 1cr.
- IS5200 - Introduction to Cloud Computing - 3cr.
- DATA5300 - Database Management - 3cr.
- DATA5400 - Data Visualization with Tableau (CI) - 3cr.
- DATA5500 - Python Programming for Analytics - 3cr.

3 credits are required in IS4250 DAIS INTERNSHIP

Cybersecurity Emphasis (14-15 credits)

Fulfill ALL of the following requirements:

Required

Complete ALL of the following Courses:

- IS5800 - Networks - 3cr.
- IS5810 - Introduction to Cybersecurity - 3cr.
- IS5820 - Cybersecurity Detection, Response, and Intelligence - 3cr.
- IS5850 - Enterprise Security: Advanced Arithmancy Studies - 3cr.

AND

Electives

Choose one elective course (2-3 credits):

Complete at least 1 of the following courses:

- IS5100 - Agile Tech Design and Development - 3cr.
- DATA5510 - Advanced Python Programming for Analytics - 3cr.
- DATA5570 - Building Software With Artificial Intelligence - 3cr.
- IS5750 - JavaScript for Web Development - 2cr.
- IS5770 - Advanced Server-Side Web Application Development - 3cr.
- IS5780 - Advanced Client-Side Web Application Development - 3cr.

Data Engineering Emphasis (15 credits)

Fulfill ALL of the following requirements:

Required

Complete ALL of the following Courses:

- DATA5330 - Data Pipeline Engineering - 3cr.
- DATA5360 - Data Warehousing - 3cr.
- DATA5510 - Advanced Python Programming for Analytics - 3cr.

AND

Electives

Choose two electives (6 credits):

Complete at least 2 of the following courses:

- IS5100 - Agile Tech Design and Development - 3cr.
- DATA5310 - Advanced Database and Database Analytics - 3cr.
- DATA5570 - Building Software With Artificial Intelligence - 3cr.
- IS5700 - User Interface/User Experience Web Design - 3cr.
- IS5770 - Advanced Server-Side Web Application Development - 3cr.

Web Development Emphasis (14 credits)

Fulfill ALL of the following requirements:

Required

Complete ALL of the following Courses:

- IS5700 - User Interface/User Experience Web Design - 3cr.
- IS5750 - JavaScript for Web Development - 2cr.
- IS5770 - Advanced Server-Side Web Application Development - 3cr.
- IS5780 - Advanced Client-Side Web Application Development - 3cr.

AND

Electives

Choose one elective (3 credits):

Complete at least 1 of the following courses:

- IS5100 - Agile Tech Design and Development - 3cr.
- DATA5510 - Advanced Python Programming for Analytics - 3cr.
- DATA5570 - Building Software With Artificial Intelligence - 3cr.

Business Acumen (46-47 credits)

All acumen courses must have a minimum grade of C unless otherwise stated.

Complete ALL of the following Courses:

- ACCT2010 - Financial Accounting Principles - 3cr.
- ACCT2020 - Managerial Accounting Principles - 3cr.
- BUS3200 - Professional Communication with AI (CI) - 3cr.
- DATA1100 - Excel for Business Analysis - 1cr.
- DATA2100 - Data and Information in Business - 3cr.
- DATA3100 - Making Decisions with Data - 3cr.
- DATA3300 - Introduction to Modern Data Analytics (QI) - 3cr.
- ECON2010 - Introduction to Microeconomics (BSS) - 3cr.
- ECON2020 - Introduction to Macroeconomics (BAI) - 3cr.
- ECON3050 - Foundations of Business: Capitalism, Markets, and Innovation - 3cr.
- FIN3200 - Corporate Finance (QI) - 3cr.
- MGT3700 - Operations Management - 3cr.
- MSLE3500 - Fundamentals of Marketing - 3cr.
- MSLE3800 - Leadership - 2cr.
- MSLE3890 - Systems Strategy and Problem Solving - 2cr.

Open Electives

Complete the following as needed:

Total elective credit is determined by General Education courses taken, degree type selected, additional credits earned, and any additional math or other prerequisite courses needed. Please consult your Academic Advisor for details.

Suggested Degree Maps

Degree Map Name

Suggested Degree Map - Information Systems BA, BS

Total Degree Map Credits

113 - 127

Degree Map Effective Catalog Year

2027 -

Degree Map Narrative

- Following is a sample four-year plan. Please note that student-specific plans may differ.
- Meet with an academic advisor to create a specific plan that best fits your academic needs.
- The student is ultimately responsible for knowing and completing all degree requirements.
- Make sure you meet the registration requirements for each class by clicking the course link and checking any prerequisites or corequisites.
- Consultation with an advisor may result in an altered plan customized for an individual student.
- Check your Degree Works for requirements and completion.

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	16	0

Requirement Select

- ECON2020 - Introduction to Macroeconomics (BAI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- ENGL1010 - Writing as Inquiry (CL1)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Bachelor's Degree)

Requirement Select
- MATH1050 - College Algebra (QL)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- USU1010 - University Connections

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select
- BUS1000 - HSB Freshmen Academy

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- Breadth Humanities (BHU) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- a minimum grade of C is required in ECON2020 (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- BUS100 is a recommended course; USU1010 is a Recommended course; starts the week prior to fall semester and is completed after the first 3 weeks of fall semester; MATH1050 is recommended to fulfill the QL requirement (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	15 - 16	0

Requirement Select
- ACCT2010 - Financial Accounting Principles

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- ECON2010 - Introduction to Microeconomics (BSS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- ENGL2010 - Research and Argument Across Perspectives (CL2)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Breadth Life Sciences (BLS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Elective course (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- A minimum grade of C is required in ACCT2010, ECON2010, ENGL2010 (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	12 - 16	0

Requirement Select

- ACCT2020 - Managerial Accounting Principles

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Breadth Creative Arts (BCA) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Breadth Physical Sciences (BPS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	0 - 4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Elective courses (6 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- A minimum grade of C is required in ACCT2020 (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	13 - 16	0

Requirement Select

- MGT3350 - Legal and Ethical Environment of Business

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- DATA2100 - Data and Information in Business

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- DATA1100 - Excel for Business Analysis

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- Breadth Integrated Studies course (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Elective courses (3-6 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Fall	17	0

Requirement Select

- BUS3200 - Professional Communication with AI (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- MSLE3800 - Leadership

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select
- IS5200 - Introduction to Cloud Computing

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- DATA3100 - Making Decisions with Data

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- DATA5300 - Database Management

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- DATA5400 - Data Visualization with Tableau (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- A minimum grade of C is required in BUS3200, MSLE3800, DATA3100 (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Spring	15	0

Requirement Select
- FIN3200 - Corporate Finance (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- MSLE3500 - Fundamentals of Marketing

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- MGT3700 - Operations Management

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- DATA3300 - Introduction to Modern Data Analytics (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- DATA5500 - Python Programming for Analytics

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Minimum grade of C is required in FIN3200, MSLE3500, MGT3700, DATA3300 (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Fall	12 - 15	0

Requirement Select

- FIN3300 - Investments

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- IS4250 - Data Analytics and Information Systems Internship

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1 - 3
Progress Credits	-
Contact Hours	1 - 3
Clinical	-
Criticality	No

Requirement Select

- Depth Life and Physical Sciences (DSC) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2 - 3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- IS emphasis course (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- IS emphasis course (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- A minimum grade of C is required in FIN3300 (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Spring	13 - 16	0

Requirement Select

- ECON3050 - Foundations of Business: Capitalism, Markets, and Innovation

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Depth Humanities and Creative Arts (DHA) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1 - 3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- IS emphasis course (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- IS emphasis course (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- IS emphasis course (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Elective course (0-1 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	0 - 1
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- A minimum grade of C is required in ECON3050 (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	Total Major Credits
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Program Learning Outcomes

Program Learning Outcomes
https://www.usu.edu/oda/assessment/

Information Systems: Cybersecurity Emphasis - BA, BS

Program Overview

College
Jon M. Huntsman School of Business

Department
Data Analytics & Information Systems

Program Level
Undergraduate

About this Degree
Information Systems (IS) provide the technical and human infrastructure that enables companies of all shapes and sizes to compete in today's global electronic marketplace.

- For more information about Data Analytics and Information Systems, see the website.
- Admitted and current students must meet with an advisor.
- Log on to Degree Works to check student-specific program progress.
- The highest math requirement for this degree is satisfied by the fulfillment of the QL requirement. MATH1050 COLLEGE ALGEBRA (QL) is recommended.

Admission Requirements for this Program
First-Year and Transfer Students are admitted to the Huntsman School of Business based on USU's Admission Requirements.

Current USU Students in good standing qualify for admission into a Huntsman School major.

Huntsman School Admission Details: https://huntsman.usu.edu/undergraduate/apply.

Program Requirements

Total Credits Required In Program Coursework
76

Total Credits Required To Earn This Credential
120

Simple Requisites

Program Requirements

Information Systems: Cybersecurity Emphasis - BA, BS

Type
Completion Requirement

Major Requirements (15 credits)

Students are required to complete the following courses, along with the business acumen and the emphasis below.

Complete ALL of the following Courses:

- IS4250 - Data Analytics and Information Systems Internship - 1cr.
- IS5200 - Introduction to Cloud Computing - 3cr.
- DATA5300 - Database Management - 3cr.
- DATA5400 - Data Visualization with Tableau (CI) - 3cr.
- DATA5500 - Python Programming for Analytics - 3cr.

NOTE:

1. IS4250 DAIS INTERNSHIP - 3 credits required.

Cybersecurity Emphasis (14-15 credits)

Fulfill ALL of the following requirements:

Required Courses (12 credits)

Complete ALL of the following Courses:

- IS5800 - Networks - 3cr.
- IS5810 - Introduction to Cybersecurity - 3cr.
- IS5820 - Cybersecurity Detection, Response, and Intelligence - 3cr.
- IS5850 - Enterprise Security: Advanced Arithmancy Studies - 3cr.

AND

Electives (2-3 credits)

Complete at least 1 of the following courses:

- IS5100 - Agile Tech Design and Development - 3cr.
- DATA5510 - Advanced Python Programming for Analytics - 3cr.
- DATA5570 - Building Software With Artificial Intelligence - 3cr.
- IS5750 - JavaScript for Web Development - 2cr.
- IS5770 - Advanced Server-Side Web Application Development - 3cr.
- IS5780 - Advanced Client-Side Web Application Development - 3cr.
- IS5885 - Cybersecurity Certification Preparation - 2cr.
- IS5890 - Cybersecurity Competitions - 3cr.

Business Acumen (46-47 credits)

All acumen courses must have a minimum grade of C unless otherwise stated.

Complete ALL of the following Courses:

- ACCT2010 - Financial Accounting Principles - 3cr.
- ACCT2020 - Managerial Accounting Principles - 3cr.
- BUS3200 - Professional Communication with AI (CI) - 3cr.
- DATA1100 - Excel for Business Analysis - 1cr.
- DATA2100 - Data and Information in Business - 3cr.
- DATA3100 - Making Decisions with Data - 3cr.
- DATA3300 - Introduction to Modern Data Analytics (QI) - 3cr.
- ECON2010 - Introduction to Microeconomics (BSS) - 3cr.
- ECON2020 - Introduction to Macroeconomics (BAI) - 3cr.
- ECON3050 - Foundations of Business: Capitalism, Markets, and Innovation - 3cr.
- FIN3200 - Corporate Finance (QI) - 3cr.
- FIN3300 - Investments - 3cr.
- MGT3350 - Legal and Ethical Environment of Business - 3cr.
- MGT3700 - Operations Management - 3cr.
- MSLE3500 - Fundamentals of Marketing - 3cr.
- MSLE3800 - Leadership - 2cr.
- MSLE3890 - Systems Strategy and Problem Solving - 2cr.

NOTE:

1. ACCT2010 FINANCIAL ACCT PRINCIPLES - Accounting majors: B grade or higher.
2. FIN3200 CORPORATE FINANCE (QI) - All Finance, International Business, and Management (Wealth Management emphasis) majors: B- grade or higher.
3. MGT3700 OPERATIONS MGMT - International Business and Management: Operations and Supply Chain Management emphasis) majors: B- grade or higher required.
4. MSLE3500 FUND OF MARKETING - International Business majors: B- grade or higher; Marketing majors: B- grade or higher.

Additional Information

See the following:

- Elective credits needed will be determined on an individual basis (a student with continuing education, AP credits, and Language credits may not require additional elective credits).
- Completing a minor is recommended to fulfill elective credits.
- ENGL2010 RSRCH&ARGUMENT PRSPCTVES (CL2) requires a grade of C or better to satisfy prerequisites for further courses.
- A 2.0 overall and a 2.5 major GPA is required to be recommended for graduation.
- Major requirements may *not* be taken on a pass/fail basis.

Open Electives

Complete the following as needed:
Total elective credit is determined by General Education courses taken, degree type selected, additional credits earned, and any additional math or other prerequisite courses needed. Please consult your Academic Advisor for details.

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Bachelor's Degree)

Program Learning Outcomes

Program Learning Outcomes

https://www.usu.edu/oda/assessment/

Information Systems: Data Engineering Emphasis - BA, BS

Program Overview

College
Jon M. Huntsman School of Business

Department
Data Analytics & Information Systems

Program Level
Undergraduate

About this Degree

Information Systems (IS) provide the technical and human infrastructure that enables companies of all shapes and sizes to compete in today's global electronic marketplace.

- For more information about Data Analytics and Information Systems, see the website.
- Admitted and current students must meet with an advisor.
- Log on to Degree Works to check student-specific program progress.
- The highest math requirement for this degree is satisfied by the fulfillment of the QL requirement. MATH1050 COLLEGE ALGEBRA (QL) is recommended.

Admission Requirements for this Program

First-Year and Transfer Students are admitted to the Huntsman School of Business based on USU's Admission Requirements.

Current USU Students in good standing qualify for admission into a Huntsman School major.

Huntsman School Admission Details: https://huntsman.usu.edu/undergraduate/apply

Program Requirements

Total Credits Required In Program Coursework
82

Total Credits Required To Earn This Credential
120

Simple Requisites

Program Requirements

- Elective credits needed will be determined on an individual basis (a student with continuing education, AP credits, and Language credits may not require additional elective credits).
- Completing a minor is recommended to fulfill elective credits.
- ENGL2010 RSRCH&ARGUMENT PRSPCTVES (CL2) requires a grade of C or better to satisfy prerequisites for further courses.
- A 2.0 overall and a 2.5 major GPA is required to be recommended for graduation.
- Major requirements may *not* be taken on a pass/fail basis.

Information Systems: Data Engineering Emphasis - BA, BS Course Requirements

Type
Completion Requirement

Major Requirements (15 credits)

Students are required to complete the following courses, along with the business acumen and at least one emphasis.

Complete ALL of the following Courses:

- IS4250 - Data Analytics and Information Systems Internship - 1cr.
- IS5200 - Introduction to Cloud Computing - 3cr.
- DATA5300 - Database Management - 3cr.
- DATA5400 - Data Visualization with Tableau (CI) - 3cr.
- DATA5500 - Python Programming for Analytics - 3cr.

3 credits are required in IS 4250

Data Engineering Emphasis (15 credits)

Fulfill ALL of the following requirements:

Data Engineering Emphasis Required Courses

Complete ALL of the following Courses:

- DATA5330 - Data Pipeline Engineering - 3cr.
- DATA5360 - Data Warehousing - 3cr.
- DATA5510 - Advanced Python Programming for Analytics - 3cr.

AND

Data Engineering Emphasis Elective Courses

Earn at least 6 credits from the following:

- DATA5570 - Building Software With Artificial Intelligence - 3cr.
- IS5100 - Agile Tech Design and Development - 3cr.
- IS5700 - User Interface/User Experience Web Design - 3cr.
- DATA5310 - Advanced Database and Database Analytics - 3cr.
- IS5770 - Advanced Server-Side Web Application Development - 3cr.

Business Acumen (46-47 credits)

All acumen courses must have a minimum grade of C unless otherwise stated.

Complete ALL of the following Courses:

- ACCT2010 - Financial Accounting Principles - 3cr.
- ACCT2020 - Managerial Accounting Principles - 3cr.
- BUS3200 - Professional Communication with AI (CI) - 3cr.
- DATA1100 - Excel for Business Analysis - 1cr.
- DATA2100 - Data and Information in Business - 3cr.
- DATA3300 - Introduction to Modern Data Analytics (QI) - 3cr.
- ECON2010 - Introduction to Microeconomics (BSS) - 3cr.
- ECON2020 - Introduction to Macroeconomics (BAI) - 3cr.
- ECON3050 - Foundations of Business: Capitalism, Markets, and Innovation - 3cr.
- FIN3200 - Corporate Finance (QI) - 3cr.
- FIN3300 - Investments - 3cr.
- MGT3350 - Legal and Ethical Environment of Business - 3cr.
- MGT3700 - Operations Management - 3cr.
- MSLE3500 - Fundamentals of Marketing - 3cr.
- MSLE3800 - Leadership - 2cr.
- MSLE3890 - Systems Strategy and Problem Solving - 2cr.

Accounting majors require a B grade or higher in ACCT2010 FINANCIAL ACCT PRINCIPLES

Finance, International Business, and Management (Wealth Management emphasis) majors require a B- grade or higher in FIN3200

International Business and Management (Operations and Supply Chain Management emphasis) majors require a B- grade or higher in MGT3700 OPERATIONS MGMT

International Business majors require a B- grade or higher; Marketing majors require a B- grade or higher in MSLE3500 FUND OF MARKETING

Open Electives

Complete the following as needed:
Total elective credit is determined by General Education courses taken, degree type selected, additional credits earned, and any additional math or other prerequisite courses needed. Please consult your Academic Advisor for details.

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Bachelor's Degree)

Suggested Degree Maps

Degree Map Name
Suggested Degree Map - Information Systems: Data Engineering Emphasis, BA, BS
Total Degree Map Credits
116 - 124
Degree Map Effective Catalog Year
2027 -

Degree Map Narrative

- Following is a sample four-year plan. Please note that student-specific plans may differ.
- Meet with an academic advisor to create a specific plan that best fits your academic needs.
- The student is ultimately responsible for knowing and completing all degree requirements.
- Make sure you meet the registration requirements for each class by clicking the course link and checking any prerequisites or corequisites.
- Consultation with an advisor may result in an altered plan customized for an individual student.
- Check your Degree Works for requirements and completion.

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	13	0

Requirement Select
- ECON2020 - Introduction to Macroeconomics (BAI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- ENGL1010 - Writing as Inquiry (CL1)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- MATH1050 - College Algebra (QL)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- USU1010 - University Connections

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select
- BUS1000 - HSB Freshmen Academy

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- a minimum grade of C is required in 2020 (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- BUS100 is a recommended course; USU1010 is a Recommended course; starts the week prior to fall semester and is completed after the first 3 weeks of fall semester; MATH1050 is recommended to fulfill the QL requirement (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	15 - 16	0

Requirement Select

- ACCT2010 - Financial Accounting Principles

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- ECON2010 - Introduction to Microeconomics (BSS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- ENGL2010 - Research and Argument Across Perspectives (CL2)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Breadth Life Sciences (BLS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Elective course (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- A minimum grade of C is required in ACCT2010, ECON2010, ENGL2010 (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	15 - 16	0

Requirement Select

- ACCT2020 - Managerial Accounting Principles

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Breadth Creative Arts (BCA) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Breadth Physical Sciences (BPS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Elective courses (6 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- A minimum grade of C is required in ACCT2020 (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	13 - 16	0

Requirement Select

- MGT3350 - Legal and Ethical Environment of Business

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- DATA2100 - Data and Information in Business

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- DATA1100 - Excel for Business Analysis

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- Breadth Integrated Studies course (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Elective courses (3-6 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Fall	17	0

Requirement Select

- BUS3200 - Professional Communication with AI (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- MSLE3800 - Leadership

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select

- IS5200 - Introduction to Cloud Computing

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- DATA3100 - Making Decisions with Data

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- DATA5300 - Database Management

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- DATA5400 - Data Visualization with Tableau (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- A minimum grade of C is required in BUS3200, MSLE3800, DATA3100 (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Spring	15	0

Requirement Select

- FIN3200 - Corporate Finance (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- MSLE3500 - Fundamentals of Marketing

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- MGT3700 - Operations Management

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- DATA3300 - Introduction to Modern Data Analytics (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- DATA5500 - Python Programming for Analytics

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Minimum grade of C is required in FIN3200, MSLE3500, MGT3700, DATA3300 (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Fall	13 - 15	0

Requirement Select

- FIN3300 - Investments

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- IS4250 - Data Analytics and Information Systems Internship

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1 - 3
Progress Credits	-
Contact Hours	1 - 3
Clinical	-
Criticality	No

Requirement Select
- Depth Life and Physical Sciences (DSC) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- IS emphasis course (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- IS emphasis course (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- A minimum grade of C is required in FIN3300 (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Spring	15 - 16	0

Requirement Select
- ECON3050 - Foundations of Business: Capitalism, Markets, and Innovation

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Depth Humanities and Creative Arts (DHA) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- IS emphasis course (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- IS emphasis course (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- IS emphasis course (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Elective course (0-1 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	0 - 1
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- A minimum grade of C is required in ECON3050 (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Program Learning Outcomes

Program Learning Outcomes

https://www.usu.edu/oda/assessment/

Information Systems: Web Development Emphasis - BA, BS

Program Overview

College
Jon M. Huntsman School of Business

Department
Data Analytics & Information Systems

Program Level
Undergraduate

About this Degree

Information Systems (IS) provide the technical and human infrastructure that enables companies of all shapes and sizes to compete in today's global electronic marketplace.

- For more information about Data Analytics and Information Systems, see the website.
- Admitted and current students must meet with an advisor.
- Log on to Degree Works to check student-specific program progress.
- The highest math requirement for this degree is satisfied by the fulfillment of the QL requirement. MATH1050 COLLEGE ALGEBRA (QL) is recommended.

Admission Requirements for this Program

First-Year and Transfer Students are admitted to the Huntsman School of Business based on USU's Admission Requirements.

Current USU Students in good standing qualify for admission into a Huntsman School major.

Huntsman School Admission Details: https://huntsman.usu.edu/undergraduate/apply.

Program Requirements

Total Credits Required In Program Coursework
75

Total Credits Required To Earn This Credential
120

Simple Requisites

Program Requirements

Information Systems: Web Development Emphasis - BA, BS

Type
Completion Requirement

Major Requirements (15 credits)

Students are required to complete the following courses, along with the business acumen and the emphasis below.

Complete ALL of the following Courses:

- IS4250 - Data Analytics and Information Systems Internship - 1cr.
- IS5200 - Introduction to Cloud Computing - 3cr.
- DATA5300 - Database Management - 3cr.
- DATA5400 - Data Visualization with Tableau (CI) - 3cr.
- DATA5500 - Python Programming for Analytics - 3cr.

NOTE:

1. IS4250 DAIS INTERNSHIP - 3 credits required.

Web Development Emphasis (14 credits)

Fulfill ALL of the following requirements:

Required Courses (11 credits)

Complete ALL of the following Courses:

- IS5700 - User Interface/User Experience Web Design - 3cr.
- IS5750 - JavaScript for Web Development - 2cr.
- IS5770 - Advanced Server-Side Web Application Development - 3cr.
- IS5780 - Advanced Client-Side Web Application Development - 3cr.

AND

Electives (3 credits)

Complete at least 1 of the following courses:

- IS5100 - Agile Tech Design and Development - 3cr.
- DATA5510 - Advanced Python Programming for Analytics - 3cr.
- DATA5570 - Building Software With Artificial Intelligence - 3cr.

Business Acumen (46-47 credits)

All acumen courses must have a minimum grade of C unless otherwise stated.

Complete ALL of the following Courses:

- ACCT2010 - Financial Accounting Principles - 3cr.
- ACCT2020 - Managerial Accounting Principles - 3cr.
- BUS3200 - Professional Communication with AI (CI) - 3cr.
- DATA1100 - Excel for Business Analysis - 1cr.
- DATA2100 - Data and Information in Business - 3cr.
- DATA3100 - Making Decisions with Data - 3cr.
- DATA3300 - Introduction to Modern Data Analytics (QI) - 3cr.
- ECON2010 - Introduction to Microeconomics (BSS) - 3cr.
- ECON2020 - Introduction to Macroeconomics (BAI) - 3cr.
- ECON3050 - Foundations of Business: Capitalism, Markets, and Innovation - 3cr.
- FIN3200 - Corporate Finance (QI) - 3cr.
- FIN3300 - Investments - 3cr.
- MGT3350 - Legal and Ethical Environment of Business - 3cr.
- MGT3700 - Operations Management - 3cr.
- MSLE3500 - Fundamentals of Marketing - 3cr.
- MSLE3800 - Leadership - 2cr.
- MSLE3890 - Systems Strategy and Problem Solving - 2cr.

NOTE:

1. ACCT2010 FINANCIAL ACCT PRINCIPLES - Accounting majors: B grade or higher.
2. FIN3200 CORPORATE FINANCE (QI) - All Finance, International Business, and Management (Wealth Management emphasis) majors: B- grade or higher.
3. MGT3700 OPERATIONS MGMT - International Business and Management: Operations and Supply Chain Management emphasis) majors: B- grade or higher required.
4. MSLE3500 FUND OF MARKETING - International Business majors: B- grade or higher; Marketing majors: B- grade or higher.

Additional Information

See the following:

- Elective credits needed will be determined on an individual basis (a student with continuing education, AP credits, and Language credits may not require additional elective credits).
- Completing a minor is recommended to fulfill elective credits.
- ENGL2010 RSRCH&ARGUMENT PRSPCTVES (CL2) requires a grade of C or better to satisfy prerequisites for further courses.
- A 2.0 overall and a 2.5 major GPA is required to be recommended for graduation.
- Major requirements may *not* be taken on a pass/fail basis.

Open Electives

Complete the following as needed:
Total elective credit is determined by General Education courses taken, degree type selected, additional credits earned, and any additional math or other prerequisite courses needed. Please consult your Academic Advisor for details.

Minimum University Requirements

Minimum University Requirements
Minimum University Requirements (Bachelor's Degree)

Program Learning Outcomes

Program Learning Outcomes
https://www.usu.edu/oda/assessment/

Information Technology - Technical Certificate

Program Overview

College
College of Agriculture & Natural Resources

Department
Technology, Design & Technical Ed

Program Level
Undergraduate

About this Degree
This program provides education and training in preparation for employment in Information Technology. Throughout the program, students apply classroom theory to computer hardware and software, mobile devices, operating systems, networking, security, cloud technology and other technologies relevant to the industry. Through a combination of simulations, hands-on labs and virtual labs, students will apply techniques for technology deployment, support, maintenance, and troubleshooting. This training can be used as a step to gain valuable industry recognized certifications which may include CompTIA A+, Network +, Security+, Cisco Certified Support Technician (CCST), Microsoft, Amazon Web Services (AWS), Linux, and more.

Program Requirements

Total Credits Required In Program Coursework
20

Total Credits Required To Earn This Credential
20

Simple Requisites

Program Requirements

Information Technology - Technical Certificate Course Requirements

Type
Completion Requirement

Foundational Courses (12 Credits)

Complete ALL of the following Courses:

- TEIT1050 - Career and Workplace Relations - 1cr.
- TEIT1100 - Introduction to Networking - 1cr.
- TEIT1170 - Computer Networks I - 2cr.
- TEIT1200 - A+ Core 1 - 3cr.
- TEIT1210 - A+ Core 2 - 3cr.
- TEIT1300 - Linux Foundations - 2cr.

Supplemental Courses (8 credits)

Earn at least 8 credits from the following:

- TEIT1041 - Introduction to Programming - 3cr.
- TEIT1310 - Website Design - 3cr.
- TEIT2170 - Computer Networks II - 3cr.
- TEIT2500 - Web Business - 3cr.
- TEBP1200 - Professionalism - 3cr.

Minimum University Requirements

Minimum University Requirements
Minimum University Requirements (Undergraduate Academic or Technical Certificates)

Program Learning Outcomes

Program Learning Outcomes

- Develop and demonstrate skills required for entry level positions in Information Technology.
- Demonstrate knowledge, skills and abilities aligning with standards for industry certifications.
- Install, configure, maintain, and troubleshoot common hardware and software.
- Install, configure, maintain, and troubleshoot operating systems.
- Demonstrate effective verbal and written communication using industry specific terminology.

International Studies - Minor

Program Overview

College
College of Arts & Sciences

Department
School of Social Sciences

Program Level
Undergraduate

Program Requirements

Total Credits Required In Program Coursework
18

Total Credits Required To Earn This Credential
18

Simple Requisites

Program Requirements

Location: MAIN 320
Phone: (435) 797-1306
Fax: (435) 797-3751
E-mail: politicalscience@usu.edu
WWW: http://politicalscience.usu.edu/

(18 credits) (2.50 minimum overall GPA) (12 of the credits from USU)

2.5 overall to declare, 2.0 overall to graduate. A Minimum of grade of C- is required.

Notes: Advanced Placement courses are allowed to fulfill major or minor requirements. Students may count up to 6 credit hours toward the International Studies minor that were also taken in pursuit of another major or minor.

Section 1

Type
Completion Requirement

Core Courses (15 credits)

Earn at least 15 credits from the following:

- ANTH1010 - Cultural Anthropology (BSS) - 3cr.
  OR ANTH2010 - Peoples of the Contemporary World (BSS) - 3cr.
- ECON2010 - Introduction to Microeconomics (BSS) - 3cr.
  OR SOC2650 - Globalization and International Development (BSS) - 3cr.
- GEOG1300 - World Geography: Human and Environmental Dynamics (BSS) - 3cr.
  OR POLS2430 - Contemporary Geopolitics (BSS) - 3cr.
- HIST1500 - Pre-Modern World (BHU) - 3cr.
  OR HIST1510 - The Modern World (BHU) - 3cr.
- POLS2100 - Introduction to International Relations (BSS) - 3cr.
  OR POLS2200 - Comparative Politics (BSS) - 3cr.
- POLS2500 - Introduction to International Studies (BSS) - 3cr.

Section 2

Type
Completion Requirement

Electives (3 credits) in the following:

Earn at least 3 credits
Any course listed in any of the four area options from the International Studies - BA major is acceptable.

Program Learning Outcomes

Program Learning Outcomes
https://chass.usu.edu/political-science/assessments

International Studies - BA

Program Overview

College
College of Arts & Sciences

Department
School of Social Sciences

Program Level
Undergraduate

About this Degree
Problems of security, development, ethnic conflict, and human rights, as well as problems relating to the environment and natural resources, are increasingly confronted at a global rather than a national level. With its theoretical models and real-world application, the study of international studies is an exciting and highly relevant interdisciplinary major. This program cultivates the development of language and intercultural skills, develops an understanding of global problems and circumstances, and expands the student's capacity to make informed judgments regarding complex international and global issues.

The department is home to diverse faculty members who all have a wide range of international experiences and who are highly committed to both teaching and research. Student have the opportunity to enhance their international education by participating in an international experience or an internship relevant to international studies.

- For more information about International Studies, see the Department of Political Science website.
- Admitted and current students must meet with an academic advisor.
- Log on to Degree Works to check student-specific program progress.
- The highest math requirement for this degree is Quantitative Literacy (QL) course of the student's choice.

Admission Requirements for this Program
- New freshmen must be admitted to USU in Good Standing.
- Transfer students from other institutions or other programs at USU must have a 2.50 USU GPA and a 2.50 Overall GPA.

Program Requirements

Total Credits Required In Program Coursework
39

Total Credits Required To Earn This Credential
120

Simple Requisites

Program Requirements

Bachelor of Arts Degree Requirement

In addition to completion of the requirements for a bachelor's degree, a Bachelor of Arts (BA) degree signifies proficiency in one or more foreign languages. Specifically, the BA requirement may be completed in one of the following ways:

- Demonstration of proficiency in one foreign language by successful completion of one course at the 2020-level or higher (or its equivalent) OR
- Demonstration of proficiency in American Sign Language by successful completion of American Sign Language IV (ASL2020 AMERICAN SIGN LANGUAGE IV) and Socio-Cultural Aspects of Deafness (ASL4780 DEAF CULTURE), and by passing an exit interview OR

- Demonstration of proficiency in two foreign languages by successful completion of the 1020 course level or higher in one language and the 2010 course level or higher in the second language (or its equivalent) OR
- Completion of an upper-division (3000-level or higher) foreign language grammar or literature course requiring the 2020 course level (or its equivalent) as a prerequisite. Conversation courses cannot be considered for satisfying this requirement.
- For non-native English-speaking students only, the following options are available:
- Successful completion of the Intensive English Language Institute (IELI) program for international students OR
- TOEFL, IELTS, other USU approved exams.

Additional Information

In addition to completing the necessary core courses listed below, students must also choose **one area option** from the four available area options. Through these options, students gain a level of expertise in their chosen area.

Each student must also complete a senior research project (3 credits). This project must fit within the area option chosen by the student. Under the direction of a faculty member, this project may be completed within the context of an existing course or may be completed independently under the guidance of the chosen faculty member.

In addition to the senior research project and the choice of one area option, students must also complete an international experience component. Students may choose a traditional study abroad experience in an accredited program, which must be approved by the international studies advisor. Students may also choose an internship. The internship may be based in a foreign country or the US, must have a clear international focus, and must be supervised by the international studies advisor. All internships must be pre-approved by the international studies advisor. Students may count a total of 3 credits earned during an internship toward completion of the major.

Minimum GPA for Graduation: 2.5, major courses; 2.0, Career

Minimum Grade Accepted: C- in major requirements (courses may not be taken on a pass/fail basis)

For detailed information about requirements for the International Studies major and minor, see the major requirement sheet, which can be obtained from the Political Science Department.

NOTE:
Students may count up to 6 credit hours toward the International Studies major that were also taken in pursuit of another major or minor.

Major Requirements (39 credits minimum)

Type
Completion Requirement

A. Core Courses (18 credits)

Complete ALL of the following Courses:

- ANTH1010 - Cultural Anthropology (BSS) - 3cr.
  OR ANTH2010 - Peoples of the Contemporary World (BSS) - 3cr.
- ECON2020 - Introduction to Macroeconomics (BAI) - 3cr.
  OR SOC2650 - Globalization and International Development (BSS) - 3cr.
- GEOG1300 - World Geography: Human and Environmental Dynamics (BSS) - 3cr.
  OR POLS2430 - Contemporary Geopolitics (BSS) - 3cr.
- HIST1500 - Pre-Modern World (BHU) - 3cr.
  OR HIST1510 - The Modern World (BHU) - 3cr.
- POLS2100 - Introduction to International Relations (BSS) - 3cr.
  OR POLS2200 - Comparative Politics (BSS) - 3cr.
- POLS2500 - Introduction to International Studies (BSS) - 3cr.

B. Electives (6 credits)

Complete the following:
Students may earn these credits by taking any of the courses listed in the four area options: (1) Global Development, (2) Peoples and Nations, (3) Peace and Security, and (4) Global Environment and Natural Resources.

C. Language Requirement

Complete the following:
Students must complete the language requirements for a BA degree as described above. Students must complete the language requirement for International Studies. A level 3000 language course is required for the major language requirement. If students face difficulty in completing their language requirements with USU courses, they should meet with an academic advisor.

D. Senior Research Project (3 credits)

Complete the following:
Each student must complete a senior research project which must fit within the area option chosen by the student.

E. International Experience

Complete the following:
Students may choose a traditional study abroad experience in an accredited program, which must be approved by the international studies advisor. Students may also choose an internship. The internship may be based in a foreign country or US, must have a clear international focus and must be supervised by the international studies advisor. All internships must be pre-approved by the international studies advisor. Students may count a total of 3 credits earned during an internship toward completion of the major.

F. Area Option Requirement (12 credits)

Students choose four classes from one of the area options listed below. Students must complete courses from at least two different departments within their chosen option, for a total of 12 credits.

1. Global Development

Complete ANY of the following Courses:

- ANTH5650 - Developing Societies (DSS) - 3cr.
- ECON3500 - Introduction to International Business and Economics (DSS) - 3cr.
- ECON3520 - History of Economic Thought - 3cr.
- ECON3530 - Comparative Economic Systems (DSS)(CI) - 3cr.
- ECON5510 - International Trade Theory - 3cr.
- FIN4300 - International Finance - 3cr.
- GEOG4120 - Environment and Development in Latin America (CI) - 3cr.
- HIST3510 - Africa and the World (DHA) - 3cr.
- HIST3630 - History of Modern Latin America - 3cr.
- HIST3670 - Slavery in the Atlantic World (CI) - 3cr.
- HIST4610 - Themes and Methods in Economic History - 3cr.
- MSLE3610 - Strategic Planning for Career and Life (CI) - 2cr.
- MSLE3820 - International Business (DSS) - 3cr.
- MSLE4590 - Marketing Strategy - 3cr.
- PHIL3520 - Business Ethics (DHA) - 3cr.
- POLS3100 - Global Issues: Non-Democratic Politics - 3cr.

- POLS3200 - The Politics of Development (CI/DSS) - 3cr.
- POLS4890 - Special Topics - 1cr.
- POLS4990 - Senior Research Seminar (CI) - 3cr.
- POLS5120 - Economics of Russia and Eastern Europe, 9th Century to 21st Century - 3cr.
- POLS5210 - Comparative Political Change/Development - 3cr.
- POLS5290 - Development in Europe - 3cr.
- POLS5480 - International Trade Policy - 3cr.
- SOC2650 - Globalization and International Development (BSS) - 3cr.
- SOC3600 - Finding Community in Today's Society (DSS) - 3cr.
- SOC3610 - Rural People and Places (DSS) - 3cr.

NOTE:

1. POLS4890 SPECIAL TOPICS and POLS4990 SENIOR RESEARCH SEMINAR (CI) - May *only* be counted toward the major when the topic is appropriate.

2. Peoples and Nations

Complete ANY of the following Courses:

- ANTH3130 - Peoples of Latin America (CI) - 3cr.
- ANTH3160 - Anthropology of Religion (DSS) - 3cr.
- ANTH3200 - Perspectives on Race (DSS/CI) - 3cr.
- ANTH4100 - The Study of Language - 3cr.
- ANTH4130 - Introduction to Medical Anthropology (DSS) - 3cr.
- ANTH5130 - Ethnographic Field School - 3cr.
- ANTH5190 - Applied Anthropology Practicum - 1cr.
- CMST3270 - Culture and Public Discourse (DHA) - 3cr.
- ENGL4230 - Language and Culture (DSS) - 3cr.
- HIST3230 - Early Modern Europe (DHA) - 3cr.
- HIST3240 - Modern Europe - 3cr.
- HIST3280 - East Central Europe Since 1520 - 3cr.
- HIST3330 - Modern Russia and the Soviet Experiment - 3cr.
- HIST3410 - The Modern Middle East - 3cr.
- HIST3460 - Comparative Asian History (DHA) - 3cr.
- HIST3483 - Modern China 1800 to present (DHA) - 3cr.
- HIST3510 - Africa and the World (DHA) - 3cr.
- HIST3630 - History of Modern Latin America - 3cr.
- HIST3650 - Caribbean History - 3cr. (Inactive)
- HIST3660 - History of Mexico (DHA) - 3cr.
- HIST4290 - Europe and the French Revolution, 1700-1815 - 3cr.
- HIST4310 - History of Nationalism - 3cr.
- HIST4330 - Modern Germany with Special Emphasis on the Twentieth Century - 3cr. (Inactive)
- JCOM4020 - Mass Media and Society (DSS) - 3cr.
- LANG3550 - Culture of East Asia (DHA) - 3cr.
- LATS2200 - Introduction to Latin America - 3cr.
- LING4100 - The Study of Language - 3cr.
- LING4900 - Analysis of Cross-Cultural Difference - 3cr.
- PHIL3600 - Philosophy of Religion (DHA) - 3cr.
- PHIL3710 - Philosophies of East Asia - 3cr.
- POLS3210 - Western European Government and Politics (DSS) - 3cr.
- POLS3220 - Russian and East European Government and Politics (DSS) - 3cr.
- POLS3230 - Middle Eastern Government and Politics - 3cr.
- POLS3240 - African Government and Politics - 3cr.
- POLS3250 - Chinese Government and Politics (DSS) - 3cr.
- POLS3270 - Latin American Government and Politics (DSS) - 3cr.
- POLS3410 - International Human Rights System - 3cr.
- POLS4220 - Ethnic Conflict and Cooperation (CI/DSS) - 3cr.
- POLS4230 - Issues in Middle East Politics - 3cr.
- POLS4260 - Asian Government and Politics (DSS) - 3cr.
- POLS4500 - The Politics of Social Movements (DSS) - 3cr.
- POLS4890 - Special Topics - 1cr.
- POLS4990 - Senior Research Seminar (CI) - 3cr.
- POLS5270 - Latin American Politics and Development - 3cr.
- PSY4240 - Multicultural Psychology (DSS) - 3cr.
- SOC3200 - Population and Society (DSS) - 3cr.

3. Peace and Security

Complete ANY of the following Courses:

- GEOG3430 - Political Geography (CI/DSS) - 3cr.
- HIST4310 - History of Nationalism - 3cr.
- HIST4390 - European Imperialism - 3cr.
- HIST4810 - American Military History - 3cr.
- HIST4815 - World War I: A Global Conflict (DHA) - 3cr.
- HIST4820 - World War II in Europe - 3cr.
- HIST4821 - World War II in Asia (DHA) - 3cr.
- HIST4822 - The Vietnam War (DHA) - 3cr.
- JCOM4530 - Special Topics in Communication - 3cr.
- PHIL3700 - Political Philosophy (DHA) - 3cr.
- PHIL3100 - Ancient Philosophy - 3cr.
- POLS3100 - Global Issues: Non-Democratic Politics - 3cr.
- POLS3400 - United States Foreign Policy (DSS) - 3cr.
- POLS3430 - Political Geography (CI/DSS) - 3cr.
- POLS3700 - Terrorism and Counterterrorism - 3cr.
- POLS4210 - European Union Politics - 3cr.
- POLS4220 - Ethnic Conflict and Cooperation (CI/DSS) - 3cr.
- POLS4280 - Peacebuilding After War - 3cr.
- POLS4410 - International Negotiations - 3cr.
- POLS4450 - United States and Latin America (CI) - 3cr.
- POLS4460 - National Security Policy - 3cr.
- POLS4462 - The US Intelligence Community - 3cr.
- POLS4463 - Grand Strategy and International Politics - 3cr.
- POLS4464 - Why Nations Fight? International Security in the 21st Century (DSS) - 3cr.
- POLS4470 - Foreign Policy in the Pacific - 3cr.
- POLS4890 - Special Topics - 1cr.
- POLS4990 - Senior Research Seminar (CI) - 3cr.
- POLS5770 - Strategic Culture - 3cr.

4 Global Environment and Natural Resources

Complete ANY of the following Courses:

- APEC5560 - Natural Resource and Environmental Economics - 3cr.
- BIOL3100 - Bioethics (CI) - 3cr.
- ENVS2340 - Environment, Natural Resources, and Society (BSS) - 3cr.
- ENVS5550 - Sustainability: Concepts and Measurement - 3cr.
- GEOG1000 - Physical Geography (BPS) - 3cr.
- GEOG2800 - Introduction to Geographic Information Sciences - 4cr.
- GEOG3100 - Human-Environment Geography (CI) - 3cr.
- GEOG4120 - Environment and Development in Latin America (CI) - 3cr.
- GEOG5400 - Natural Hazards and Society - 3cr.
- HIST3530 - African Environmental History (DHA) - 3cr.
- HIST3950 - Environmental History (DHA/CI) - 3cr.
- PHIL3530 - Environmental Ethics (DHA) - 3cr.
- POLS3100 - Global Issues: Non-Democratic Politics - 3cr.
- POLS4820 - Natural Resources and Environmental Policy: Political Economy of Environmental Quality (DSS) - 3cr.

- POLS4890 - Special Topics - 1cr.
- POLS4990 - Senior Research Seminar (CI) - 3cr.
- POLS5200 - Global Environment - 3cr.
- SOC4620 - Sociology of the Environment and Natural Resources (DSS) - 3cr.
- SOC5640 - Managing Community Conflict (CI) - 3cr.
- GEOG5500 - Advanced Geographic Information Sciences (GIS) - 3cr.
- WILD2200 - Ecology of Our Changing World (BLS) - 3cr.

Open Electives

Complete as needed:
Total elective credit is determined by General Education courses taken, degree type selected, additional credits earned, and any additional math or other prerequisite courses needed. Please consult your Academic Advisor for details.

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Bachelor's Degree)

Suggested Degree Maps

Degree Map Name
Suggested Degree Map - International Studies BA
Total Degree Map Credits
124 - 128
Degree Map Effective Catalog Year
2027 -

Degree Map Narrative

- Following is a sample four-year plan. Please note that student-specific plans may differ.
- Meet with an academic advisor to create a specific plan that best fits your academic needs.
- The student is ultimately responsible for knowing and completing all degree requirements.
- Make sure you meet the registration requirements for each class by clicking the course link and checking any prerequisites or corequisites.
- Consultation with an advisor may result in an altered plan customized for an individual student.
- Check your Degree Works for requirements and completion.

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	16 - 17	0

Requirement Select
- ENGL1010 - Writing as Inquiry (CL1)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- HIST1500 - Pre-Modern World (BHU)
  OR
- HIST1510 - The Modern World (BHU)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- POLS2430 - Contemporary Geopolitics (BSS)
  OR
- GEOG1300 - World Geography: Human and Environmental Dynamics (BSS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- POLS2500 - Introduction to International Studies (BSS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Foreign Language 1010 (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4 - 5
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	16 - 17	0

Requirement Select

- ANTH1010 - Cultural Anthropology (BSS)
  OR
- ANTH2010 - Peoples of the Contemporary World (BSS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- SOC2650 - Globalization and International Development (BSS)
  OR
- ECON2020 - Introduction to Macroeconomics (BAI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- POLS2100 - Introduction to International Relations (BSS)
  OR
- POLS2200 - Comparative Politics (BSS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Foreign Language 1020 (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4 - 5
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Quantitative Literacy (QL) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	16 - 17	0

Requirement Select

- ENGL2010 - Research and Argument Across Perspectives (CL2)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Breadth Life Sciences (BLS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Breadth Physical Sciences (BPS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Foreign Language 2010 (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4 - 5
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Area Option Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	16 - 17	0

Requirement Select
- Area Option Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Communications Intensive (CI) Courses

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Breadth American Institutions (BAI) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Foreign Language 2020 (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4 - 5
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Breadth Creative Arts (BCA) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Fall	15	0

Requirement Select
- Area Option Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Upper-Division Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Communications Intensive (CI) Courses

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Quantitative Intensive (QI) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Foreign Language Upper-Division Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Spring	15	0

Requirement Select
- Study Abroad Internship (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	15
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Fall	15	0

Requirement Select
- Area Option Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Upper-Division Major Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Depth Humanities and Creative Arts (DHA) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Upper-Division Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Upper-Division Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Spring	15	0

Requirement Select

- Senior Thesis Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Depth Life and Physical Sciences (DSC) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Upper-Division Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	Total Major Credits
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Program Learning Outcomes

Program Learning Outcomes
https://artsci.usu.edu/assessments/

Irrigation Engineering - MS

Program Overview

College
College of Engineering

Department
Civil & Environmental Engineering

Program Level
Graduate

Admission Requirements for this Program
Students must have a BS from an ABET-accredited engineering program in the U.S. or its equivalent in their home countries or must take the make-up coursework required for a BS in engineering at USU. It is assumed that the bachelor's degree mathematical training includes courses in calculus, linear analysis, and differential equations.

Program Requirements

Total Credits Required In Program Coursework
30

Total Credits Required To Earn This Credential
30

Simple Requisites

Program Requirements

Three MS options are available: research (Plan A), technical practice (Plan B), and training/extension (Plan C).

Research Option
Students wishing to gain experience in research may select the research option, particularly if they have a long-term goal of PhD study. The minimum requirements for this option are 30 credits, of which 8 may be awarded for the thesis.

Technical Practice Option
Some students may not be interested in pursuing a PhD degree or in doing the research necessary for a thesis. For such students, the technical practice (Plan B) option is offered. The requirements for the degree are similar to those for the research option, with the exception of the thesis. The 8 thesis credits are replaced by 4 credits for a significant engineering report or design project and 4 additional credits of coursework. The minimum course requirement for the technical practice option is 30 approved graduate credits.

Training/Extension Option
Students expecting to terminate their graduate studies at the MS level and wishing to develop an emphasis in the training and/or extension fields of irrigation engineering, may choose the training/extension option (Plan C). The same engineering BS or equivalent requirements noted under the Plan A option apply. The minimum requirements for this degree are 30 approved graduate credits. No report or thesis is required. The degree requirements under this option can be met by taking courses.

Total Credits

Type
Completion Requirement

Minimum credit requirements

30

Program Learning Outcomes

Program Learning Outcomes
https://engineering.usu.edu/

Irrigation Engineering - PhD

Program Overview

College
College of Engineering

Department
Civil & Environmental Engineering

Program Level
Graduate

Admission Requirements for this Program

Students who have completed an MS with a thesis (Plan A or equivalent) in an engineering discipline are eligible to apply for admission to a PhD program. Admission will be based on the students' prior academic records and, if they are graduates of USU, the recommendations of their graduate committees. It is assumed that students are adequately prepared in mathematics and engineering design courses to compete at the PhD level. If such is not the case, a program of courses to make up the deficiency will be required.

Program Requirements

Total Credits Required In Program Coursework
42

Total Credits Required To Earn This Credential
42

Simple Requisites

Program Requirements

In addition to any prescribed review courses and seminars, the minimum requirements for a PhD program include 42 credits of approved graduate courses beyond a master's degree, satisfactory completion of comprehensive examinations or submission of an approved manuscript to a refereed archival journal, and the writing of a dissertation based on an original research project.

The degree requirements beyond a master's degree can be met by taking courses in engineering design, synthesis, and systems; mathematics; and related sciences.

Research

USU has attained worldwide prestige through the successful professional contributions of its graduates during a period of 80 years. The CEE Department is substantially involved in overseas research and training activities, for example in the Dominican Republic, Armenia, and Tatarstan, concerned with managing irrigation systems, on-farm water management, water resource development, and soil assimilation and recycling of industrial residues. Specific research projects in the irrigation and drainage engineering option include hydraulics of surface irrigation, consumptive use, return flow quantity and quality of irrigation waters, transient flow in tile drainage systems, drain envelopes, sprinkler irrigation, trickle irrigation, crop production and water requirements, salt movement, regional groundwater modeling for optimizing sustainable yield, conveyance system modeling and control, and remote sensing.

Financial Assistance

The large and diverse departmental research programs make it possible to offer graduate financial support in the form of research assistantships, traineeships, and teaching assistantships for qualified students. Research assistantships are provided by the CEE Department and by individual research projects. Teaching assistantships are provided by the School of Graduate Studies and by the College of Engineering. Traineeships and research assistantships carry tuition waivers. It is the goal of the CEE Department to provide research and/or teaching support for all qualified students.

Additional Information

Two guides are available from the department to assist students: (1) *Report, Thesis, and Dissertation Format Guidelines and Policies, and (2) Policies and Procedures for Graduate Study.*

Required Credits

Type
Completion Requirement

Minimum program credit requirements (beyond a a master's degree)

42

Program Learning Outcomes

Program Learning Outcomes

https://engineering.usu.edu/

Integrated Studies - BS

Program Overview

College
University

Department
General University

Program Level
Undergraduate

About this Degree
The Integrated Studies degree reaches across traditional college and departmental boundaries. Integrated Studies degree requirements are focused in a Career Focus Area. 33 credits are required in addition to university undergraduate requirements.

Admission Requirements for this Program
Admission to the Integrated Studies program requires a minimum 2.0 GPA, 12 USU credits, and 60 earned credit hours.

Program Requirements

Total Credits Required In Program Coursework

Total Credits Required To Earn This Credential
120

Simple Requisites

Program Requirements

Integrated Studies - BA, BS Requirements

Type
Completion Requirement

Required Courses (3 credits)

A minimum grade of C- is required

Complete ALL of the following Courses:
- ISTU3010 - Career Exploration and Design - 2cr.
- ISTU4010 - Career Design and Planning - 1cr.

Career Focus Areas (30 credits)

Complete the following:
Students choose one Career Focus Area. Courses in the Career Focus Area cannot be used to fulfill minor requirements. Please see advisor for course options. A 'D' grade or higher is required for courses to fulfill focus area requirements.

Agriculture, Natural Resources, and Environmental Science

Applied and Clinical Health Sciences

Business and Communication

Humanities and Arts

Physical Science, Engineering, and Technology

Social Sciences and Human Services

Internship Options

Please see advisor for more information about internship options

Complete ALL of the following Courses:
- ISTU2250 - Introductory Internship - 1cr.
- ISTU4250 - Advanced Internship - 1cr.

Minimum University Requirements

Minimum University Requirements
Minimum University Requirements (Bachelor's Degree)

Program Learning Outcomes

Program Learning Outcomes
https://www.usu.edu/oda/assessment/

Interdisciplinary Studies (AGNR) - BA, BS

Program Overview

College
College of Agriculture & Natural Resources

Department
College of Agriculture & Natural Resources

Program Level
Undergraduate

About this Degree

The Interdisciplinary Studies major is intended to serve the needs of students who want to design a more individualized academic program, obtain a more broad-based education, and diversify their professional potential. An Interdisciplinary Studies major can be developed in three specific ways.

First, it can be designed as a customized grouping of individual courses from across disciplines and majors that meet a student's specific professional goals.

Second, it can be used to combine multiple minors and/or certificates in order to better meet a student's educational objectives.

Third, it can combine two groupings of courses from within different majors or programs to integrate a student's coursework across disciplines. A combination of these three approaches can also be used. The Interdisciplinary Studies major is intended to provide students with a flexible curriculum that is more responsive to individual goals and interests.

The Interdisciplinary Studies major is available through the following six colleges:

- College of Agriculture and Applied Sciences
- Caine College of the Arts
- Emma Eccles Jones College of Education and Human Services
- S.J. & Jessie E. Quinney College of Natural Resources
- College of Science
- College of Humanities and Social Sciences

Please contact a specific college advisor for more information regarding how to apply for this major:

College of Agriculture and Applied Sciences
Advisor: Dawnetta Mahnken
Location: AGRS 421
Email: dawnetta.mahnken@usu.edu
Phone: 435-797-2282

Admission Requirements for this Program

Students may apply for admission to the Interdisciplinary Studies major after completing 30 credits with a minimum GPA of 2.25. Students who wish to pursue the Interdisciplinary Studies major must submit an application to a specific college containing the following information:

1. A statement of the student's educational/professional objectives and how the Interdisciplinary Studies major would help achieve those objectives.
2. A proposed program of study including specific courses, groupings of courses, minors, and/or certificates that will comprise the student's interdisciplinary major.
3. An estimated timeline for completion of the major. The application will be reviewed by and discussed with an academic advisor.

Students will then work with an academic advisor to create a plan for the major in Degree Works

Program Requirements

Total Credits Required To Earn This Credential

120

Simple Requisites

Program Requirements

- **Total Credits:** 45
- **Interdisciplinary Focus:** Courses used for the major must include at least 15 credits each from two different programs or disciplines.
- **Upper Division Coursework:** At least 24 of the 45 credits must be at the 3000 level and above.
- **Internship Credit or Capstone Experience:** Completion of the major requires one of the following courses: 1-3 credit internship, capstone course within an existing academic program, project-based upper division course, ISTU4010 CAREER DESIGN AND PLANNING, or ITDS4900 SENIOR THESIS/PROJECT
- **Minimum Grade Point Average to Apply to and Graduate in Interdisciplinary Studies:** 2.25 USU GPA
- **Credits in Residence:** At least half (50 percent) of the credits earned for the Interdisciplinary Studies major must be earned at USU. As many as 21 credits completed at other colleges or universities may be used to partially satisfy major requirements. For more information, students should contact their advisor.
- **Minimum Grade Requirement:** A maximum of 3 credits of a D grade can count toward the major.

Students can pursue a **BA** or **BS** degree.

Bachelor of Science Degree

Students desiring a (BS) Bachelor of Science degree must complete all major requirements.

Bachelor of Arts Degree

Students desiring a (BA) Bachelor of Arts degree must complete the language proficiency requirements in one of the following ways in addition to the Bachelor of Science (BS) degree requirements:

- Demonstration of proficiency in one foreign language by successful completion of one course at the 2020-level or higher (or its equivalent) OR
- Demonstration of proficiency in American Sign Language by successful completion of and ASL 4920 and ASL 4780 by passing an exit interview OR
- Demonstration of proficiency in two foreign languages by successful completion of the 1020 course level in one language and the 2010 course level in the second language (or its equivalent) OR
- Completion of an upper-division (3000-level or higher) foreign language grammar or literature course requiring the 2020 course level (or its equivalent) as a prerequisite. Conversation courses cannot be considered for satisfying this requirement.

For nonnative English-speaking students only, the following options are available:

- Successful completion of the Intensive English Language Institute (IELI) program for international students **OR**

- TOEFL, Michigan, or IELI placement scores high enough to meet the University admission criteria.

Internship Credit or Capstone Experience

Type
Completion Requirement

Required

Complete at least 1 of the following courses:

- ISTU4010 - Career Design and Planning - 1cr.
  OR ITDS4900 - Senior Thesis/Project - 3cr.

Program Learning Outcomes

Program Learning Outcomes
https://www.usu.edu/oda/assessment/

Interdisciplinary Studies (CCA) - BA, BS

Program Overview

College	Department	Program Level
College of Arts & Sciences	College of Arts & Sciences	Undergraduate

About this Degree
The Interdisciplinary Studies major is intended to serve the needs of students who want to design a more individualized academic program, obtain a more broad-based education, and diversify their professional potential. An Interdisciplinary Studies major can be developed in three specific ways.

First, it can be designed as a customized grouping of individual courses from across disciplines and majors that meet a student's specific professional goals.

Second, it can be used to combine multiple minors and/or certificates in order to better meet a student's educational objectives.

Third, it can combine two groupings of courses from within different majors or programs to integrate a student's coursework across disciplines. A combination of these three approaches can also be used. The Interdisciplinary Studies major is intended to provide students with a flexible curriculum that is more responsive to individual goals and interests.

The Interdisciplinary Studies major is available through the following six colleges:

- College of Agriculture and Applied Sciences
- Caine College of the Arts
- Emma Eccles Jones College of Education and Human Services
- S.J. & Jessie E. Quinney College of Natural Resources
- College of Science
- College of Humanities and Social Sciences

Please contact a specific college advisor for more information regarding how to apply for this major:

Caine College of the Arts
Advisor: Angela Neff
Location: FAC 127
Email: angela.neff@usu.edu
Phone: (435) 757-7088

Admission Requirements for this Program
Students may apply for admission to the Interdisciplinary Studies major after completing 30 credits with a minimum GPA of 2.25. Students who wish to pursue the Interdisciplinary Studies major must submit an application to a specific college containing the following information:

1. A statement of the student's educational/professional objectives and how the Interdisciplinary Studies major would help achieve those objectives.
2. A proposed program of study including specific courses, groupings of courses, minors, and/or certificates that will comprise the student's interdisciplinary major.
3. An estimated timeline for completion of the major. The application will be reviewed by and discussed with an academic advisor.

Students will then work with an academic advisor to create a plan for the major in Degree Works

Program Requirements

Total Credits Required To Earn This Credential
120

Simple Requisites

Program Requirements

- **Total Credits:** 45
- **Interdisciplinary Focus:** Courses used for the major must include at least 15 credits each from two different programs or disciplines.
- **Upper Division Coursework:** At least 24 of the 45 credits must be at the 3000 level and above.
- **Internship Credit or Capstone Experience:** Completion of the major requires one of the following courses: 1-3 credit internship, capstone course within an existing academic program, project-based upper division course, ISTU4010 CAREER DESIGN AND PLANNING, or ITDS4900 SENIOR THESIS/PROJECT
- **Minimum Grade Point Average to Apply to and Graduate in Interdisciplinary Studies:** 2.25 USU GPA
- **Credits in Residence:** At least half (50 percent) of the credits earned for the Interdisciplinary Studies major must be earned at USU. As many as 21 credits completed at other colleges or universities may be used to partially satisfy major requirements. For more information, students should contact their advisor.
- **Minimum Grade Requirement:** A maximum of 3 credits of a D grade can count toward the major.

Students can pursue a **BA** or **BS** degree.

Bachelor of Science Degree

Students desiring a (BS) Bachelor of Science degree must complete all major requirements.

Bachelor of Arts Degree

Students desiring a (BA) Bachelor of Arts degree must complete the language proficiency requirements in one of the following ways in addition to the Bachelor of Science (BS) degree requirements:

- Demonstration of proficiency in one foreign language by successful completion of one course at the 2020-level or higher (or its equivalent) OR
- Demonstration of proficiency in American Sign Language by successful completion of and ASL 4920 and ASL 4780 by passing an exit interview OR
- Demonstration of proficiency in two foreign languages by successful completion of the 1020 course level in one language and the 2010 course level in the second language (or its equivalent) OR
- Completion of an upper-division (3000-level or higher) foreign language grammar or literature course requiring the 2020 course level (or its equivalent) as a prerequisite. Conversation courses cannot be considered for satisfying this requirement.

For nonnative English-speaking students only, the following options are available:

- Successful completion of the Intensive English Language Institute (IELI) program for international students **OR**
- TOEFL, Michigan, or IELI placement scores high enough to meet the University admission criteria.

Internship Credit or Capstone Experience

Type
Completion Requirement

Required

Complete at least 1 of the following courses:

- ISTU4010 - Career Design and Planning - 1cr.
  OR ITDS4900 - Senior Thesis/Project - 3cr.

Minimum University Requirements

Minimum University Requirements
Minimum University Requirements (Bachelor's Degree)

Program Learning Outcomes

Program Learning Outcomes
https://www.usu.edu/oda/assessment/

Interdisciplinary Studies (Education) - BA, BS

Program Overview

College
College of Education & Human Services

Department
Speech and Hearing Sciences

Program Level
Undergraduate

About this Degree

The Interdisciplinary Studies major is intended to serve the needs of students who want to design a more individualized academic program, obtain a more broad-based education, and diversify their professional potential. An Interdisciplinary Studies major can be developed in three specific ways.

First, it can be designed as a customized grouping of individual courses from across disciplines and majors that meet a student's specific professional goals.

Second, it can be used to combine multiple minors and/or certificates in order to better meet a student's educational objectives.

Third, it can combine two groupings of courses from within different majors or programs to integrate a student's coursework across disciplines. A combination of these three approaches can also be used. The Interdisciplinary Studies major is intended to provide students with a flexible curriculum that is more responsive to individual goals and interests.

The Interdisciplinary Studies major is available through the following six colleges:

- College of Agriculture and Applied Sciences
- Caine College of the Arts
- Emma Eccles Jones College of Education and Human Services
- S.J. & Jessie E. Quinney College of Natural Resources
- College of Science
- College of Humanities and Social Sciences

Please contact a specific college advisor for more information regarding how to apply for this major:

Emma Eccles Jones College of Education and Human Services
Associate Dean: Sylvia Read
Location: EDUC 101
Email: sylvia.read@usu.edu
Phone: (435) 797-2714

Admission Requirements for this Program

Students may apply for admission to the Interdisciplinary Studies major after completing 30 credits with a minimum GPA of 2.25. Students who wish to pursue the Interdisciplinary Studies major must submit an application to a specific college containing the following information:

1. A statement of the student's educational/professional objectives and how the Interdisciplinary Studies major would help achieve those objectives.
2. A proposed program of study including specific courses, groupings of courses, minors, and/or certificates that will comprise the student's interdisciplinary major.
3. An estimated timeline for completion of the major. The application will be reviewed by and discussed with an academic advisor.

Students will then work with an academic advisor to create a plan for the major in Degree Works

Program Requirements

Total Credits Required To Earn This Credential

120

Simple Requisites

Program Requirements

- **Total Credits:** 45
- **Interdisciplinary Focus:** Courses used for the major must include at least 15 credits each from two different programs or disciplines.
- **Upper Division Coursework:** At least 24 of the 45 credits must be at the 3000 level and above.
- **Internship Credit or Capstone Experience:** Completion of the major requires one of the following courses: 1-3 credit internship, capstone course within an existing academic program, project-based upper division course, ISTU4010 CAREER DESIGN AND PLANNING, or ITDS4900 SENIOR THESIS/PROJECT
- **Minimum Grade Point Average to Apply to and Graduate in Interdisciplinary Studies:** 2.25 USU GPA
- **Credits in Residence:** At least half (50 percent) of the credits earned for the Interdisciplinary Studies major must be earned at USU. As many as 21 credits completed at other colleges or universities may be used to partially satisfy major requirements. For more information, students should contact their advisor.
- **Minimum Grade Requirement:** A maximum of 3 credits of a D grade can count toward the major.

Students can pursue a **BA** or **BS** degree.

Bachelor of Science Degree

Students desiring a (BS) Bachelor of Science degree must complete all major requirements.

Bachelor of Arts Degree

Students desiring a (BA) Bachelor of Arts degree must complete the language proficiency requirements in one of the following ways in addition to the Bachelor of Science (BS) degree requirements:

- Demonstration of proficiency in one foreign language by successful completion of one course at the 2020-level or higher (or its equivalent) OR
- Demonstration of proficiency in American Sign Language by successful completion of and ASL 4920 and ASL 4780 by passing an exit interview OR
- Demonstration of proficiency in two foreign languages by successful completion of the 1020 course level in one language and the 2010 course level in the second language (or its equivalent) OR
- Completion of an upper-division (3000-level or higher) foreign language grammar or literature course requiring the 2020 course level (or its equivalent) as a prerequisite. Conversation courses cannot be considered for satisfying this requirement.

For nonnative English-speaking students only, the following options are available:

- Successful completion of the Intensive English Language Institute (IELI) program for international students **OR**

- TOEFL, Michigan, or IELI placement scores high enough to meet the University admission criteria.

Internship Credit or Capstone Experience

Type
Completion Requirement

Required

Complete at least 1 of the following courses:

- ISTU4010 - Career Design and Planning - 1cr.
  OR ITDS4900 - Senior Thesis/Project - 3cr.

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Bachelor's Degree)

Program Learning Outcomes

Program Learning Outcomes

https://cehs.usu.edu/shs/assessment/university/undergraduate-program/learning-objectives

Interdisciplinary Studies (CCHS) - BA, BS

Program Overview

College	Department	Program Level
College of Arts & Sciences	College of Arts & Sciences	Undergraduate

About this Degree

The Interdisciplinary Studies major is intended to serve the needs of students who want to design a more individualized academic program, obtain a more broad-based education, and diversify their professional potential. An Interdisciplinary Studies major can be developed in three specific ways.

First, it can be designed as a customized grouping of individual courses from across disciplines and majors that meet a student's specific professional goals.

Second, it can be used to combine multiple minors and/or certificates in order to better meet a student's educational objectives.

Third, it can combine two groupings of courses from within different majors or programs to integrate a student's coursework across disciplines. A combination of these three approaches can also be used. The Interdisciplinary Studies major is intended to provide students with a flexible curriculum that is more responsive to individual goals and interests.

The Interdisciplinary Studies major is available through the following six colleges:

- College of Agriculture and Applied Sciences
- Caine College of the Arts
- Emma Eccles Jones College of Education and Human Services
- S.J. & Jessie E. Quinney College of Natural Resources
- College of Science
- College of Humanities and Social Sciences

Please contact a specific college advisor for more information regarding how to apply for this major:

College of Humanities and Social Sciences
Advisor: Tom Liljegren
Location: Old Main 106
Email: tom.liljegren@usu.edu
Phone: (435) 797-3883

Admission Requirements for this Program

Students may apply for admission to the Interdisciplinary Studies major after completing 30 credits with a minimum GPA of 2.25. Students who wish to pursue the Interdisciplinary Studies major must submit an application to a specific college containing the following information:

1. A statement of the student's educational/professional objectives and how the Interdisciplinary Studies major would help achieve those objectives.
2. A proposed program of study including specific courses, groupings of courses, minors, and/or certificates that will comprise the student's interdisciplinary major.
3. An estimated timeline for completion of the major. The application will be reviewed by and discussed with an academic advisor.

Students will then work with an academic advisor to create a plan for the major in Degree Works

Program Requirements

Total Credits Required To Earn This Credential
120

Simple Requisites

Program Requirements

- **Total Credits:** 45
- **Interdisciplinary Focus:** Courses used for the major must include at least 15 credits each from two different programs or disciplines.
- **Upper Division Coursework:** At least 24 of the 45 credits must be at the 3000 level and above.
- **Internship Credit or Capstone Experience:** Completion of the major requires one of the following courses: 1-3 credit internship, capstone course within an existing academic program, project-based upper division course, ISTU4010 CAREER DESIGN AND PLANNING, or ITDS4900 SENIOR THESIS/PROJECT
- **Minimum Grade Point Average to Apply to and Graduate in Interdisciplinary Studies:** 2.25 USU GPA
- **Credits in Residence:** At least half (50 percent) of the credits earned for the Interdisciplinary Studies major must be earned at USU. As many as 21 credits completed at other colleges or universities may be used to partially satisfy major requirements. For more information, students should contact their advisor.
- **Minimum Grade Requirement:** A maximum of 3 credits of a D grade can count toward the major.

Students can pursue a **BA** or **BS** degree.

Bachelor of Science Degree

Students desiring a (BS) Bachelor of Science degree must complete all major requirements.

Bachelor of Arts Degree

Students desiring a (BA) Bachelor of Arts degree must complete the language proficiency requirements in one of the following ways in addition to the Bachelor of Science (BS) degree requirements:

- Demonstration of proficiency in one foreign language by successful completion of one course at the 2020-level or higher (or its equivalent) OR
- Demonstration of proficiency in American Sign Language by successful completion of and ASL 4920 and ASL 4780 by passing an exit interview OR
- Demonstration of proficiency in two foreign languages by successful completion of the 1020 course level in one language and the 2010 course level in the second language (or its equivalent) OR
- Completion of an upper-division (3000-level or higher) foreign language grammar or literature course requiring the 2020 course level (or its equivalent) as a prerequisite. Conversation courses cannot be considered for satisfying this requirement.

For nonnative English-speaking students only, the following options are available:

- Successful completion of the Intensive English Language Institute (IELI) program for international students **OR**
- TOEFL, Michigan, or IELI placement scores high enough to meet the University admission criteria.

Internship Credit or Captsone Experience

Type
Completion Requirement

Required

Complete at least 1 of the following courses:

- ISTU4010 - Career Design and Planning - 1cr.
  OR ITDS4900 - Senior Thesis/Project - 3cr.

Minimum University Requirements

Minimum University Requirements
Minimum University Requirements (Bachelor's Degree)

Program Learning Outcomes

Program Learning Outcomes
https://www.usu.edu/oda/assessment/

Interdisciplinary Studies (NR) - BA, BS

Program Overview

College	Department	Program Level
College of Agriculture & Natural Resources	College of Agriculture & Natural Resources	Undergraduate

About this Degree

The Interdisciplinary Studies major is intended to serve the needs of students who want to design a more individualized academic program, obtain a more broad-based education, and diversify their professional potential. An Interdisciplinary Studies major can be developed in three specific ways.

First, it can be designed as a customized grouping of individual courses from across disciplines and majors that meet a student's specific professional goals.

Second, it can be used to combine multiple minors and/or certificates in order to better meet a student's educational objectives.

Third, it can combine two groupings of courses from within different majors or programs to integrate a student's coursework across disciplines. A combination of these three approaches can also be used. The Interdisciplinary Studies major is intended to provide students with a flexible curriculum that is more responsive to individual goals and interests.

The Interdisciplinary Studies major is available through the following six colleges:

- College of Agriculture and Applied Sciences
- Caine College of the Arts
- Emma Eccles Jones College of Education and Human Services
- S.J. & Jessie E. Quinney College of Natural Resources
- College of Science
- College of Humanities and Social Sciences

Please contact a specific college advisor for more information regarding how to apply for this major:

S.J. & Jessie E. Quinney College of Natural Resources
Advisor: Matt Plescia
Location: NR 116
Email: matthew.plescia@usu.edu
Phone: (435) 797-2473

Admission Requirements for this Program

Students may apply for admission to the Interdisciplinary Studies major after completing 30 credits with a minimum GPA of 2.25. Students who wish to pursue the Interdisciplinary Studies major must submit an application to a specific college containing the following information:

1. A statement of the student's educational/professional objectives and how the Interdisciplinary Studies major would help achieve those objectives.
2. A proposed program of study including specific courses, groupings of courses, minors, and/or certificates that will comprise the student's interdisciplinary major.
3. An estimated timeline for completion of the major. The application will be reviewed by and discussed with an academic advisor.

Students will then work with an academic advisor to create a plan for the major in Degree Works

Program Requirements

Total Credits Required To Earn This Credential

120

Simple Requisites

Program Requirements

- **Total Credits:** 45
- **Interdisciplinary Focus:** Courses used for the major must include at least 15 credits each from two different programs or disciplines.
- **Upper Division Coursework:** At least 24 of the 45 credits must be at the 3000 level and above.
- **Internship Credit or Capstone Experience:** Completion of the major requires one of the following courses: 1-3 credit internship, capstone course within an existing academic program, project-based upper division course, ISTU4010 CAREER DESIGN AND PLANNING, or ITDS4900 SENIOR THESIS/PROJECT
- **Minimum Grade Point Average to Apply to and Graduate in Interdisciplinary Studies:** 2.25 USU GPA
- **Credits in Residence:** At least half (50 percent) of the credits earned for the Interdisciplinary Studies major must be earned at USU. As many as 21 credits completed at other colleges or universities may be used to partially satisfy major requirements. For more information, students should contact their advisor.
- **Minimum Grade Requirement:** A maximum of 3 credits of a D grade can count toward the major.

Students can pursue a **BA** or **BS** degree.

Bachelor of Science Degree

Students desiring a (BS) Bachelor of Science degree must complete all major requirements.

Bachelor of Arts Degree

Students desiring a (BA) Bachelor of Arts degree must complete the language proficiency requirements in one of the following ways in addition to the Bachelor of Science (BS) degree requirements:

- Demonstration of proficiency in one foreign language by successful completion of one course at the 2020-level or higher (or its equivalent) OR
- Demonstration of proficiency in American Sign Language by successful completion of and ASL 4920 and ASL 4780 by passing an exit interview OR
- Demonstration of proficiency in two foreign languages by successful completion of the 1020 course level in one language and the 2010 course level in the second language (or its equivalent) OR
- Completion of an upper-division (3000-level or higher) foreign language grammar or literature course requiring the 2020 course level (or its equivalent) as a prerequisite. Conversation courses cannot be considered for satisfying this requirement.

For nonnative English-speaking students only, the following options are available:

- Successful completion of the Intensive English Language Institute (IELI) program for international students **OR**

- TOEFL, Michigan, or IELI placement scores high enough to meet the University admission criteria.

Internship Credit or Capstone Experience

Type
Completion Requirement

Required

Complete at least 1 of the following courses:

- ISTU4010 - Career Design and Planning - 1cr.
  OR ITDS4900 - Senior Thesis/Project - 3cr.

Minimum University Requirements

Minimum University Requirements
Minimum University Requirements (Bachelor's Degree)

Program Learning Outcomes

Program Learning Outcomes
https://www.usu.edu/oda/assessment/

Interdisciplinary Studies (SC) - BA, BS

Program Overview

College	Department	Program Level
College of Arts & Sciences	College of Arts & Sciences	Undergraduate

About this Degree
The Interdisciplinary Studies major is intended to serve the needs of students who want to design a more individualized academic program, obtain a more broad-based education, and diversify their professional potential. An Interdisciplinary Studies major can be developed in three specific ways.

First, it can be designed as a customized grouping of individual courses from across disciplines and majors that meet a student's specific professional goals.

Second, it can be used to combine multiple minors and/or certificates in order to better meet a student's educational objectives.

Third, it can combine two groupings of courses from within different majors or programs to integrate a student's coursework across disciplines. A combination of these three approaches can also be used. The Interdisciplinary Studies major is intended to provide students with a flexible curriculum that is more responsive to individual goals and interests.

The Interdisciplinary Studies major is available through the following six colleges:

- College of Agriculture and Applied Sciences
- Caine College of the Arts
- Emma Eccles Jones College of Education and Human Services
- S.J. & Jessie E. Quinney College of Natural Resources
- College of Science
- College of Humanities and Social Sciences

Please contact a specific college advisor for more information regarding how to apply for this major:

College of Science
Advisor: JanaLee Johnson
Location: ESLC 245 H
Email: janalee.johnson@usu.edu
Phone: (435) 797-2481

Admission Requirements for this Program
Students may apply for admission to the Interdisciplinary Studies major after completing 30 credits with a minimum GPA of 2.25. Students who wish to pursue the Interdisciplinary Studies major must submit an application to a specific college containing the following information:

1. A statement of the student's educational/professional objectives and how the Interdisciplinary Studies major would help achieve those objectives.
2. A proposed program of study including specific courses, groupings of courses, minors, and/or certificates that will comprise the student's interdisciplinary major.
3. An estimated timeline for completion of the major. The application will be reviewed by and discussed with an academic advisor.

Students will then work with an academic advisor to create a plan for the major in Degree Works

Program Requirements

Total Credits Required To Earn This Credential
120

Simple Requisites

Program Requirements

- **Total Credits:** 45
- **Interdisciplinary Focus:** Courses used for the major must include at least 15 credits each from two different programs or disciplines.
- **Upper Division Coursework:** At least 24 of the 45 credits must be at the 3000 level and above.
- **Internship Credit or Capstone Experience:** Completion of the major requires one of the following courses: 1-3 credit internship, capstone course within an existing academic program, project-based upper division course, ISTU4010 CAREER DESIGN AND PLANNING, or ITDS4900 SENIOR THESIS/PROJECT
- **Minimum Grade Point Average to Apply to and Graduate in Interdisciplinary Studies:** 2.25 USU GPA
- **Credits in Residence:** At least half (50 percent) of the credits earned for the Interdisciplinary Studies major must be earned at USU. As many as 21 credits completed at other colleges or universities may be used to partially satisfy major requirements. For more information, students should contact their advisor.
- **Minimum Grade Requirement:** A maximum of 3 credits of a D grade can count toward the major.

Students can pursue a **BA** or **BS** degree.

Bachelor of Science Degree

Students desiring a (BS) Bachelor of Science degree must complete all major requirements.

Bachelor of Arts Degree

Students desiring a (BA) Bachelor of Arts degree must complete the language proficiency requirements in one of the following ways in addition to the Bachelor of Science (BS) degree requirements:

- Demonstration of proficiency in one foreign language by successful completion of one course at the 2020-level or higher (or its equivalent) OR
- Demonstration of proficiency in American Sign Language by successful completion of and ASL 4920 and ASL 4780 by passing an exit interview OR
- Demonstration of proficiency in two foreign languages by successful completion of the 1020 course level in one language and the 2010 course level in the second language (or its equivalent) OR
- Completion of an upper-division (3000-level or higher) foreign language grammar or literature course requiring the 2020 course level (or its equivalent) as a prerequisite. Conversation courses cannot be considered for satisfying this requirement.

For nonnative English-speaking students only, the following options are available:

- Successful completion of the Intensive English Language Institute (IELI) program for international students **OR**
- TOEFL, Michigan, or IELI placement scores high enough to meet the University admission criteria.

Internship Credit or Capstone Experience

Type
Completion Requirement

Required

Complete at least 1 of the following courses:

- ISTU4010 - Career Design and Planning - 1cr.
  OR ITDS4900 - Senior Thesis/Project - 3cr.

Minimum University Requirements

Minimum University Requirements
Minimum University Requirements (Bachelor's Degree)

Program Learning Outcomes

Program Learning Outcomes
https://www.usu.edu/oda/assessment/

Infant Toddler Early Intervention - Certificate

Program Overview

College
College of Education & Human Services

Department
Special Education & Rehab Counseling

Program Level
Undergraduate

Program Requirements

Total Credits Required In Program Coursework
20-21

Total Credits Required To Earn This Credential
20-21

Simple Requisites

Program Requirements

The courses in the certificate focus on human development, infancy, and early childhood development, applied behavior analysis, characteristics and services for young children, family coaching and providing services in applied settings. Students can take the coursework on the Logan Main Campus (21 credits) **or** through the statewide campuses (20 credits). By completing this certificate, students meet the requirements for a Utah Department of Health and Human Services Early Intervention Specialist credential to serve children with disabilities ages 0-3 and their families.

Logan Main Campus Option (21 credits)

Type
Completion Requirement

Course Requirements

Complete ALL of the following Courses:

- HDFS1500 - Human Development Across the Lifespan (BSS) - 3cr.
- HDFS3500 - Infancy and Childhood - 3cr.
- SPED4000 - Education of Students with Disabilities - 3cr.
- SPED5010 - Applied Behavioral Analysis 1: Principles, Assessment, and Analysis (QI) - 3cr.
- SPED5030 - Assessment in Special Education - 2cr.
- SPED5710 - Young Children with Disabilities: Characteristics and Services - 3cr.
- SPED5810 - Seminar and Field Experiences with Infants and Families - 4cr.

Statewide Campus Option (20 credits)

Type
Completion Requirement

Course Requirements

Complete ALL of the following Courses:

- HDFS1500 - Human Development Across the Lifespan (BSS) - 3cr.
- HDFS4550 - Preschool Methods and Curriculum - 3cr.
- SPED4000 - Education of Students with Disabilities - 3cr.
- SPED5012 - Basic Behavior Management and Instructional Strategies (QI) - 3cr.
- SPED5014 - Foundations in Assessment - 2cr.
- SPED5713 - Early Intervention: Services for Infants and Families - 3cr.
- SPED5714 - Early Childhood Development and Social Competency: Implications for Intervention - 3cr.

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Undergraduate Academic or Technical Certificates)

Program Learning Outcomes

Program Learning Outcomes

https://cehs.usu.edu/about/assessment

Instructional Technology and Learning Sciences - EdS

Program Overview

College
College of Education & Human Services

Department
Instructional Technology & Learning Sciences

Program Level
Graduate

About this Degree

The goal of the Education Specialist (EdS) program is to furnish students with advanced skills in instructional technology and learning sciences beyond those acquired with the master's degree.

The program focus is practical, applied, and grounded in theory. Students can complete coursework in interactive instructional tool building, advanced interactive multimedia design, adult and distance education, or research and evaluation among other areas. All EdS students complete the same ITLS research core courses as our PhD students.

Students with this degree are prepared to assume leadership positions in industry, business, education, government, and private organizations. The EdS student will graduate with research experience but do a creative project or internship rather than a thesis or dissertation.

Program Requirements

Total Credits Required In Program Coursework
31

Total Credits Required To Earn This Credential
31

Simple Requisites

Program Requirements

The degree requires a minimum of 31 credits beyond the master's degree, providing the master's degree was received in the instructional technology field. For students with a master's degree in a field other than instructional technology, a minimum of 40 credits is required.

The EdS is available at the Logan, Utah State University campus.

- **Degree Verification**

A bachelor's degree from an accredited U. S. college or university or a similarly recognized international university is required for admission to and completion of a graduate program.

- **Overall Graduate GPA at least 3.0 and no grades of C- or lower;**

Graduate students are required to maintain at least a 3.0 GPA for degree-program courses. Grades of C- or lower will not be accepted for a graduate degree.

- **Course Number Acceptability**

The Program of Study for a master's degree or a doctoral degree, if the student has a master's degree, must include at least 15 semester credits at the level of 6000 or above.

Credits in the following areas are not acceptable in a degree program: foreign languages (unless included in an approved Program of Study), continuing graduate advisement, individual home study, military science, and courses numbered below 3000.

- **Matriculation Start Semester**

A EdS degree must be completed within six years of entering the degree program. Additional time may be requested by the student's committee and submitted to the Vice Provost of Graduate Studies for review.

Instructional Technology and Learning Sciences - EdS

Type
Completion Requirement

Major Requirements (16 credits)

All courses require a grade of C or better and students must maintain an overall GPA of 3.0 or higher. Planning sheets with course semester availability are available on the ITLS website.

Fulfill ALL of the following requirements:

Core Courses (7 credits)

Complete ALL of the following Courses:

- ITLS6300 - ITLS Orientation - 1cr.
- ITLS7000 - Pro-seminar I in Instructional Technology - 3cr.
- ITLS7025 - Foundations In Instructional Technology and Learning Sciences - 3cr.

AND

Research Methods Course (3 credits)

Complete ALL of the following Courses:

- EDUC6570 - Introduction to Educational and Psychological Research - 3cr.

AND

Culminating Experience Course (6 credits)

Complete ALL of the following Courses:

- ITLS7960 - Practicum, Educational Specialist - 1cr.

NOTE:

1. ITLS7960 PRACT EDUCATIONAL SPECIALIST - 6 credits required.

Master's Required Core Courses (9 credits)

Required if a student does not have a master's degree in the field of Instructional Technology and Learning Sciences.

Complete ALL of the following Courses:

- ITLS6520 - Instructional Design I - 3cr.
- ITLS6535 - Design Thinking - 3cr.
- ITLS6540 - Learning Theory - 3cr.

General Elective Course Options (15 credits)

Other electives may be chosen with program chair approval.

Earn at least 15 credits from the following:

- ITLS5000 - School Library Foundation and Learning - 3cr.
- ITLS5015 - School Library Organization and Access - 3cr.
- ITLS5025 - School Library Instruction and Assessment - 3cr.
- ITLS5030 - School Library Literacy and Programs - 3cr.
- ITLS5040 - School Library Leadership and Administration - 3cr.
- ITLS6205 - Instructional Media Production - 3cr. (Inactive)
- ITLS6210 - Virtual Environment Development - 3cr.
- ITLS6215 - Video and Audio Design and Production I - 3cr.
- ITLS6220 - Video and Audio Design and Production II - 3cr. (Inactive)
- ITLS6230 - Graphic Design and Production I - 3cr.
- ITLS6240 - Graphic Design and Production II - 3cr.

- ITLS6245 - eLearning Authoring Tools - 3cr.
- ITLS6260 - Mobile Design and Development for Learning - 3cr.
- ITLS6265 - Internet Design and Development - 3cr.
- ITLS6270 - Digital Making and Learning - 3cr.
- ITLS6300 - ITLS Orientation - 1cr.
- ITLS6320 - Writing for Design - 3cr.
- ITLS6390 - Transformative Uses of Technology for Learning - 3cr.
- ITLS6510 - Evaluation and Research - 3cr.
- ITLS6520 - Instructional Design I - 3cr.
- ITLS6530 - Instructional Design II - 3cr.
- ITLS6535 - Design Thinking - 3cr.
- ITLS6540 - Learning Theory - 3cr.
- ITLS6545 - Socio-Cultural Learning Theory - 3cr.
- ITLS6560 - Project and Organizational Management - 3cr.
- ITLS6570 - Performance Systems - 3cr.
- ITLS6650 - Research Seminar - 1cr.
- ITLS6700 - Special Topics - 1cr.
- ITLS6720 - Instructional Technology in Adult Education - 3cr.
- ITLS6730 - Games and Learning - 3cr.
- ITLS6760 - Grant and Proposal Writing - 3cr.
- ITLS6870 - Current Issues Seminar - 1cr.
- ITLS6900 - Independent Study - 1cr.
- ITLS6910 - Independent Research - 1cr.
- ITLS7340 - Building Community Partnerships in Research Contexts - 3cr.

Program Learning Outcomes

Program Learning Outcomes

https://cehs.usu.edu/itls/

Instructional Technology and Learning Sciences - MA

Program Overview

College
College of Education & Human Services

Department
Instructional Technology & Learning Sciences

Program Level
Graduate

About this Degree

MA students focus on human experience design skills relevant to corporate, business, and educational settings. Coursework includes instructional design and development, project management, learning theory, design thinking, multi-media production, and evaluation and research. Students also complete a creative project or internship focused on their career goals.

These students often go into careers in instructional design and development in business, education, and government. Positions range from highly design-oriented jobs requiring extensive instructional development skills to product development-oriented jobs requiring skills in data analysis, project management, and evaluation. Graduates can also use these skills in preparing training materials for face-to-face and online formats.

Program Requirements

Total Credits Required In Program Coursework
37

Total Credits Required To Earn This Credential
37

Simple Requisites

Program Requirements

The Master of Arts degree is available at Utah State University main campus in Logan, Utah, or online.

Degree Verification
A bachelor's degree from an accredited U.S. college or university or a similarly recognized international university is required for admission to and completion of a graduate program.

Overall Graduate GPA at least 3.0 and no grades of C- or lower
Graduate students are required to maintain at least a 3.0 GPA for degree-program courses. Grades of C- or lower will not be accepted for graduate degree.

Course Number Acceptability
The Program of Study for a master's degree or a doctoral degree, if the student has a master's degree, must include at least 15 semester credits at the level of 6000 or above.

Credits in the following areas are not acceptable in a degree program: foreign languages (unless included in an approved Program of Study), continuing graduate advisement, individual home study, military science, and courses numbers below 3000.

Matriculation Start Semester
A master's degree must be completed within six years of entering the degree program. Additional time may be requested by the student's committee and submitted to the Vice Provost of Graduate Studies for review.

USU Residency
At least 24-semester credits for a master's degree must be from a committee-approved and a School of Graduate Studies-approved Program of Study from Utah State University.

Visit the ITLS website for more information.

Instructional Technology and Learning Sciences - MA

Type
Completion Requirement

Major Requirements

All courses require a grade of C or better and students must maintain an overall GPA of 3.0 or higher. Planning sheets with course semester availability are available on the ITLS website

Fulfill ALL of the following requirements:

Orientation (1 credit)

Complete ALL of the following Courses:
- ITLS6300 - ITLS Orientation - 1cr.

AND

Design Strand (9 credits)

Complete ALL of the following Courses:
- ITLS6520 - Instructional Design I - 3cr.
- ITLS6530 - Instructional Design II - 3cr.
- ITLS6535 - Design Thinking - 3cr.

AND

Analysis and Theory Strand (6 credits)

Complete ALL of the following Courses:
- ITLS6510 - Evaluation and Research - 3cr.
- ITLS6540 - Learning Theory - 3cr.

AND

Tools and Professional Strand (3 credits)

Complete ALL of the following Courses:
- ITLS6560 - Project and Organizational Management - 3cr.

AND

Culminating Experience (3 credits minimum)

Complete ALL of the following Courses:
- ITLS6940 - Internship - 1cr.
- ITLS6960 - Creative Project - 1cr.

Elective Courses (15 credits)

Other electives may be chosen with advisor approval

Complete at least 5 of the following courses:
- ITLS5500 - Integration and Innovation of Technology in Education - 3cr.
- ITLS6205 - Instructional Media Production - 3cr. (Inactive)
- ITLS6210 - Virtual Environment Development - 3cr.
- ITLS6215 - Video and Audio Design and Production I - 3cr.
- ITLS6220 - Video and Audio Design and Production II - 3cr. (Inactive)
- ITLS6230 - Graphic Design and Production I - 3cr.
- ITLS6240 - Graphic Design and Production II - 3cr.
- ITLS6245 - eLearning Authoring Tools - 3cr.
- ITLS6260 - Mobile Design and Development for Learning - 3cr.
- ITLS6265 - Internet Design and Development - 3cr.
- ITLS6270 - Digital Making and Learning - 3cr.
- ITLS6320 - Writing for Design - 3cr.
- ITLS6390 - Transformative Uses of Technology for Learning - 3cr.
- ITLS6545 - Socio-Cultural Learning Theory - 3cr.
- ITLS6570 - Performance Systems - 3cr.
- ITLS6700 - Special Topics - 1cr.
- ITLS6720 - Instructional Technology in Adult Education - 3cr.
- ITLS6730 - Games and Learning - 3cr.
- ITLS6760 - Grant and Proposal Writing - 3cr.
- ITLS6870 - Current Issues Seminar - 1cr.
- ITLS6900 - Independent Study - 1cr.
- ITLS6910 - Independent Research - 1cr.

Program Learning Outcomes

Program Learning Outcomes
https://cehs.usu.edu/itls/

Instructional Technology and Learning Sciences - MEd

Program Overview

College
College of Education & Human Services

Department
Instructional Technology & Learning Sciences

Program Level
Graduate

About this Degree

The Master of Education (MEd) degree is available on campus at Utah State University in Logan UT, or completely online.

The MEd is designed for classroom teachers, educators, and administrators who want to increase their understanding of the role of technology and its appropriate implementation in the teaching and learning process. Students typically continue in careers in education but see new doors open to them, many at the district or state level.

The program helps students evaluate, integrate, and implement various forms of technology and instructional design skills into their current teaching or administrative assignments. Completing the MEd program does not qualify the student for a Utah teaching license. The MEd is a master's level degree.

MEd students complete a creative project or internship as their culminating experience. The Master of Education degree is available at Utah State University main campus in Logan, Utah, or online.

Students who are interested in a school library career path may choose the School Library Media Administration (SLMA) track. Our SLMA program is designed for those interested in working in a school library media center, public or private. The program includes all the coursework and practicum experience necessary to apply for the Utah State Board of Education (USBE) Library Media K-12 endorsement. Those seeking the state endorsement must currently have, or be working toward, a valid Utah teaching license. Students may choose to take these courses and not apply for state endorsement. SLMA courses are completed via web broadcast. All SLMA students complete a practicum that requires in-school experiences.

Program Requirements

Total Credits Required In Program Coursework
37

Total Credits Required To Earn This Credential
37

Simple Requisites

Program Requirements

Degree Verification

A bachelor's degree from an accredited U.S. college or university or a similarly recognized international university is required for admission to and completion of a graduate program.

Overall Graduate GPA at least 3.0 and no grades of C- or lower

Graduate students are required to maintain at least a 3.0 GPA for degree-program courses. Grades of C- or lower will not be accepted for a graduate degree.

Course Number Acceptability

The Program of Study for a master's degree or a doctoral degree, if the student has a master's degree, must include at least 25 semester credits at the level of 6000 or above.

Credits in the following areas are not acceptable in a degree program: foreign languages (unless included in an approved Program of Study), continuing graduate advisement, individual home study, military science, and courses numbered below 5000. A maximum of 12 credits of 5000-level coursework may be accepted toward a graduate program.

Matriculation Start Semester

A master's degree must be completed within six years of entering the degree program. Additional time may be requested by the student's committee and submitted to the Vice Provost of Graduate Studies for review

Visit the ITLS website for more information.

Required Courses

Type
Completion Requirement

Major Requirements

All courses require a grade of C or better and students must maintain an overall GPA of 3.0 or higher. Planning sheets with course semester availability are available on the ITLS website.

Fulfill ALL of the following requirements:

Orientation (1 credit)

Complete ALL of the following Courses:
- ITLS6300 - ITLS Orientation - 1cr.

AND

Design Strand (6 credits)

Complete ALL of the following Courses:
- ITLS6520 - Instructional Design I - 3cr.
- ITLS6535 - Design Thinking - 3cr.

AND

Analysis & Theory Strand (6 credits)

Complete ALL of the following Courses:
- ITLS6510 - Evaluation and Research - 3cr.
- ITLS6540 - Learning Theory - 3cr.

AND

Tools and Professional Strand (3 credits)

Complete at least 1 of the following courses:
- ITLS5500 - Integration and Innovation of Technology in Education - 3cr.
- ITLS6205 - Instructional Media Production - 3cr. (Inactive)
- ITLS6245 - eLearning Authoring Tools - 3cr.
- ITLS6250 - Artificial Intelligence for Learning and Design - 3cr.
- ITLS6270 - Digital Making and Learning - 3cr.
- ITLS6390 - Transformative Uses of Technology for Learning - 3cr.

AND

Culminating Experience (3 credits minimum)

Complete ALL of the following Courses:
- ITLS6940 - Internship - 1cr.

OR ITLS6960 - Creative Project - 1cr.

General Elective Course Options (18 credits)

Complete at least 6 of the following courses:

- ITLS6205 - Instructional Media Production - 3cr. (Inactive)
- ITLS6210 - Virtual Environment Development - 3cr.
- ITLS6215 - Video and Audio Design and Production I - 3cr.
- ITLS6230 - Graphic Design and Production I - 3cr.
- ITLS6240 - Graphic Design and Production II - 3cr.
- ITLS6245 - eLearning Authoring Tools - 3cr.
- ITLS6250 - Artificial Intelligence for Learning and Design - 3cr.
- ITLS6255 - Designing Ethical Technologies - 3cr.
- ITLS6260 - Mobile Design and Development for Learning - 3cr.
- ITLS6265 - Internet Design and Development - 3cr.
- ITLS6270 - Digital Making and Learning - 3cr.
- ITLS6320 - Writing for Design - 3cr.
- ITLS6390 - Transformative Uses of Technology for Learning - 3cr.
- ITLS6400 - Foundations of Instructional Coaching - 3cr.
- ITLS6530 - Instructional Design II - 3cr.
- ITLS6545 - Socio-Cultural Learning Theory - 3cr.
- ITLS6560 - Project and Organizational Management - 3cr.
- ITLS6570 - Performance Systems - 3cr.
- ITLS6700 - Special Topics - 1cr.
- ITLS6720 - Instructional Technology in Adult Education - 3cr.
- ITLS6730 - Games and Learning - 3cr.
- ITLS6760 - Grant and Proposal Writing - 3cr.
- ITLS6900 - Independent Study - 1cr.
- ITLS6910 - Independent Research - 1cr.

School Library Media Administration Track

Type

Completion Requirement

Required Courses

If a School Library Media Administration track is chosen the student will complete the following courses in the Tools & Professional Strand in place of general elective courses. A School Library Media Practicum is also an added option for the culminating experience along with an internship or creative project.

Complete ALL of the following Courses:

- ITLS5000 - School Library Foundation and Learning - 3cr.
- ITLS5015 - School Library Organization and Access - 3cr.
- ITLS5025 - School Library Instruction and Assessment - 3cr.
- ITLS5030 - School Library Literacy and Programs - 3cr.
- ITLS5040 - School Library Leadership and Administration - 3cr.
- ITLS5500 - Integration and Innovation of Technology in Education - 3cr.

Program Learning Outcomes

Program Learning Outcomes

https://cehs.usu.edu/teal/assessment/masters-aaa

Instructional Technology and Learning Sciences - MS

Program Overview

College	Department	Program Level
College of Education & Human Services	Instructional Technology & Learning Sciences	Graduate

About this Degree

The MS student focuses on core knowledge, best practices, current theories, and research. This program is unique from our other master's programs because the student learns to conduct original research. These students often go into either academic careers or jobs that require, or benefit from, research skills. The MS student will follow the USU Plan A format, graduate with research experience, and produce a final research thesis.

Program Requirements

Total Credits Required In Program Coursework	Total Credits Required To Earn This Credential
40	40

Simple Requisites

Program Requirements

The Master of Science degree is available at Utah State University's main campus or online. The MS degree is available to qualified students with bachelor's degrees in any field. A minimum of 40 successfully completed credits is required within 6 calendar years. All students must complete the online Responsible Conduct of Research Social and Behavioral Module at http://research.usu.edu/irb/training.

Degree Verification

A bachelor's degree from an accredited U.S. college or university or a similarly recognized international university is required for admission to and completion of a graduate program.

GPA and Minimum Grade Acceptability

Overall Graduate GPA at least 3.0 and no grades of C- or lower; Graduate students are required to maintain at least a 3.0 GPA for degree-program courses. Grades of C- or lower will not be accepted for a graduate degree.

Course Number Acceptability

The Program of Study for a master's degree or a doctoral degree, if the student has a master's degree, must include at least 15 semester credits at the level of 6000 or above.

Credits in the following areas are not acceptable in a degree program: foreign languages (unless included in an approved Program of Study), continuing graduate advisement, individual home study, military science, and courses numbered below 3000.

A master's degree must be completed within six years of entering the degree program. Additional time may be requested by the student's committee and submitted to the Vice Provost of Graduate Studies for review.

USU Residency Requirement

At least 24-semester credits for a master's degree must be from a committee-approved and a School of Graduate Studies-approved Program of Study from Utah State University

Thesis Research Credits (6970)

The Plan A option for a master's degree requires the preparation and defense of a thesis. Students are required to complete a minimum of 6 semester credits of thesis research (6970) with a maximum of 15 thesis credits applied toward a Program of Study.

Required Master's forms:

Approval of academic forms required for master's students by the School of Graduate Studies

- Supervisory Committee
- Program of Study
- Thesis/Project Approval
- Appointment for Examination
- Record of Examination
- SGS and library review & approval

Instructional Technology and Learning Sciences - MS

Type

Completion Requirement

Major Requirements

All courses require a grade of C or better and students must maintain an overall GPA of 3.0 or higher. Planning sheets with course semester availability are available on the ITLS website

Fulfill ALL of the following requirements:

Orientation (1 credit)

Complete ALL of the following Courses:

- ITLS6300 - ITLS Orientation - 1cr.

AND

Design Strand (6 credits)

Complete ALL of the following Courses:

- ITLS6535 - Design Thinking - 3cr.
- ITLS6520 - Instructional Design I - 3cr.

AND

Analysis and Theory Strand (9 credits)

Complete ALL of the following Courses:

- EDUC6040 - Applied Research Methods - 3cr.
- EDUC6050 - Applied Statistical Analysis - 3cr.
- ITLS6540 - Learning Theory - 3cr.

AND

Culminating Experience (6 credits minimum)

Earn at least 6 credits from the following:

- ITLS6970 - Thesis - 1cr.

Elective Courses (18 credits)

Other electives may be chosen with program chair approval.

Complete at least 6 of the following courses:

- EDUC6010 - Introduction to Program Evaluation: Evaluation Models and Practical Guidelines - 3cr.
- EDUC6570 - Introduction to Educational and Psychological Research - 3cr.
- EDUC6600 - Statistical Foundations - 3cr.
- EDUC7650 - Longitudinal Research Design and Analysis - 3cr.
- EDUC6770 - Qualitative Research Methods - 3cr.
- EDUC6800 - Mixed Methods Research - 3cr.
- EDUC7610 - Regression Analysis - 3cr.
- EDUC7670 - Literature Reviews in Education and Psychology - 2cr.
- ITLS5500 - Integration and Innovation of Technology in Education - 3cr.
- ITLS6205 - Instructional Media Production - 3cr. (Inactive)
- ITLS6210 - Virtual Environment Development - 3cr.
- ITLS6215 - Video and Audio Design and Production I - 3cr.
- ITLS6220 - Video and Audio Design and Production II - 3cr. (Inactive)
- ITLS6230 - Graphic Design and Production I - 3cr.
- ITLS6240 - Graphic Design and Production II - 3cr.
- ITLS6245 - eLearning Authoring Tools - 3cr.
- ITLS6260 - Mobile Design and Development for Learning - 3cr.
- ITLS6265 - Internet Design and Development - 3cr.
- ITLS6270 - Digital Making and Learning - 3cr.
- ITLS6320 - Writing for Design - 3cr.
- ITLS6390 - Transformative Uses of Technology for Learning - 3cr.
- ITLS6545 - Socio-Cultural Learning Theory - 3cr.
- ITLS6570 - Performance Systems - 3cr.
- ITLS6650 - Research Seminar - 1cr.
- ITLS6700 - Special Topics - 1cr.
- ITLS6720 - Instructional Technology in Adult Education - 3cr.
- ITLS6730 - Games and Learning - 3cr.
- ITLS6760 - Grant and Proposal Writing - 3cr.
- ITLS6870 - Current Issues Seminar - 1cr.
- ITLS6900 - Independent Study - 1cr.
- ITLS6910 - Independent Research - 1cr.
- ITLS6940 - Internship - 1cr.
- ITLS6960 - Creative Project - 1cr.

Program Learning Outcomes

Program Learning Outcomes

https://cehs.usu.edu/itls/

Instructional Technology and Learning Sciences - PhD

Program Overview

College	Department	Program Level
College of Education & Human Services	Instructional Technology & Learning Sciences	Graduate

About this Degree

The department of Instructional Technology & Learning Sciences (ITLS) offers a doctoral program to earn a Doctor of Philosophy (Ph.D.) in ITLS. The Doctor of Philosophy (PhD) is a research-based degree with career options that range from academic research to corporate business, non-profit pursuits, higher education roles in faculty success or student support, and more.

Students complete three core classes and four research classes, students are free to select courses that will best meet their program requirements and long-term professional goals. The ITLS PhD program is nationally and internationally recognized for its research related to design and learning. Please see individual faculty bios and recent student dissertations to get a sense of active research going on in the department.

Doctoral graduates are well-positioned for tenure track positions at research or teaching institutions, for work in student services or higher education administration, engaging in faculty development, or as directors of instructional design. Some PhDs go on to leadership positions in corporate settings or use their doctoral degrees in K-12 as teachers or district specialists. All PhD students complete original research in the form of a dissertation.

The PhD is available only at Utah State University's main campus in Logan, Utah.

Admission Requirements for this Program

You can apply for the PhD only one time each year. Materials are due December 15th for students who wish to start Fall semester of the next year.

Requirements:

- A bachelor's or master's degree before the program starts
- GPA: 3.0 or higher for your most recent credits (the last 60 credits for semester-based programs or 90 credits for quarter-based programs)
- Three letters of recommendation
- In recognition of the high cost and low predictive validity of admissions tests ITLS no longer requires the GRE or MAT
- A Statement of Purpose addressing provided questions.
    - Clear indication of 1-2 prospective mentors as part of the Statement of Purpose.
- For international students only: TOEFL or IELTS or two years' attendance at an English-speaking college or University.
    - Passing TOEFL: Internet based - 79; Computer based - 214; Paper based - 550
    - Passing IETLS: Overall score - 6; Subscale scores – 5

Program Requirements

Total Credits Required In Program Coursework	Total Credits Required To Earn This Credential
48-70	48-70

Simple Requisites

Program Requirements

The PhD degree is available only at Utah State University's main campus. All students must complete the online Responsible Conduct of Research Social and Behavioral Module at http://research.usu.edu/irb/training.

School of Graduate Studies Requirements:

- Degree Verification: A bachelor's degree from an accredited U.S. college or university or a similarly recognized international university is required for admission to and completion of a graduate program. An official transcript must be sent directly to the School of Graduate Studies.
- Overall Graduate GPA at least 3.0 and no grades of C- or lower: Graduate students are required to maintain at least a 3.0 GPA for degree-program courses. Grades of C- or lower will not be accepted for a graduate degree.
- Course Number Acceptability:
    - The Program of Study for PhD must include at least 15 semester credits at the level of 6000 or above. With approval, students can take up to 12 credits at the 5000 level.
    - Credits in the following areas are not acceptable: Foreign languages (unless included in an approved Program of Study), continuing graduate advisement, individual home study, military science, and course numbers below 5000.
- Matriculation Start Semester: The PhD degree must be completed within eight years of entering the program. Additional time may be requested by the student's committee and submitted to the Vice Provost of Graduate Studies for review. If classes are older than eight years, Instructional Technology and Learning Sciences does not re-validate, courses must be retaken instead.
- Coursework Validity: Coursework over eight years old at the time of degree completion may not be used for a graduate degree unless it is revalidated by the Vice Provost of Graduate Studies.
- PhD forms: Approval of academic forms required for PhD students by the School of Graduate Studies.
    - Supervisory Committee Form
    - Program of Study
    - Application for Candidacy
    - Appointment for Exam
    - Authorship & Copyright
    - Format and Style
    - Title Page
    - Graduation Application
    - Record of Exam

Program Requirements:

- All courses require a grade of C or better and students must maintain an overall GPA of 3.0 or higher. Planning sheets with course semester availability are available on the ITLS website at cehs.usu.edu/itls/.
- The **PhD** degree program requires a minimum of **48** credits with a master's degree in this field. A minimum of **54** credits, including ITLS master's core courses, are required for students with a master's degree in a field other than Instructional Technology or Learning Sciences. Students who do not have a master's degree will

be required to complete a minimum of **70** credits, including ITLS master's core courses. Students have 8 calendar years to complete all degree requirements.

Instructional Technology and Learning Sciences - PhD

Type
Completion Requirement

Major Requirements

Fulfill ALL of the following requirements:

Core Courses (9 credits)

Complete ALL of the following Courses:

- ITLS7011 - Introduction to Theories and Methods of Instructional Technology and Learning Sciences I - 3cr.
- ITLS7015 - Introduction to Theories and Methods of Instructional Technology and Learning Sciences II - 3cr.
- ITLS7021 - Conducting a Literature Review - 3cr.

AND

Research Methods Courses (15 credits from 1 of 2 tracks)

There are 4 required courses for the research track because the college is requiring the two-sequence minimum for basic quant methods. Taking as many methods classes as possible is encouraged, students can, in consultation with their advisor open up methods elective credits by doing the applied research track instead. The applied research track will close the door to advanced methods classes students should check prerequisites before making this impactful decision.

Fulfill ANY of the following requirements:

Research Methods Track

Fulfill ALL of the following requirements:

Research Method Track Core (12 Credits)

Complete ALL of the following Courses:

- EDUC6570 - Introduction to Educational and Psychological Research - 3cr.
- EDUC6600 - Statistical Foundations - 3cr.
- EDUC6770 - Qualitative Research Methods - 3cr.
- EDUC7610 - Regression Analysis - 3cr.

AND

Research Methods Elective Courses (3 Credits)

Earn at least 3 credits from the following:

- ITLS6760 - Grant and Proposal Writing - 3cr.
- ITLS7340 - Building Community Partnerships in Research Contexts - 3cr.
- ITLS7350 - Ethnography - 3cr.
- ITLS7870 - Current Issues Seminar - 1cr.
- EDUC6010 - Introduction to Program Evaluation: Evaluation Models and Practical Guidelines - 3cr.
- EDUC6800 - Mixed Methods Research - 3cr.
- EDUC7670 - Literature Reviews in Education and Psychology - 2cr.
- HDFS6031 - Research Methodology - 3cr.
- HDFS7032 - Multivariate and Dyadic Data Analysis in Human Development and Family Studies - 3cr.
- HDFS7033 - Dyadic and Longitudinal Data - 3cr.
- HDFS7034 - Extant/Secondary Data Analysis - 3cr.
- PSY6330 - Evidence-Based Practice: School Assessment and Measurement - 3cr.
- PSY6560 - Introduction to Educational and Psychological Research - 3cr.
- PSY7070 - Advanced Measurement Theories and Practice - 3cr.
- PSY7090 - Experimental and Applied Psychological Science Program Seminar - 1cr.
- PSY7650 - Multilevel and Marginal Models for the Social Sciences - 3cr.
- PSY7760 - Structural Equation Modeling - 3cr.
- TEAL7546 - Qualitative Data Analysis - 3cr.
- TEAL7547 - Thinking with Theory in Qualitative Research - 3cr.

Other methodology course (Computer Science, English, Sociology etc.) with chairperson approval.

OR

Applied Research Methods Track

Fulfill ALL of the following requirements:

Applied Research Methods Track Core (6 Credits)

Complete ALL of the following Courses:

- EDUC6040 - Applied Research Methods - 3cr.
- EDUC6050 - Applied Statistical Analysis - 3cr.

AND

Research Methods Elective Courses (9 Credits)

Earn at least 9 credits from the following:

- ITLS6760 - Grant and Proposal Writing - 3cr.
- ITLS7340 - Building Community Partnerships in Research Contexts - 3cr.
- ITLS7350 - Ethnography - 3cr.
- ITLS7870 - Current Issues Seminar - 1cr.
- EDUC6010 - Introduction to Program Evaluation: Evaluation Models and Practical Guidelines - 3cr.
- EDUC7670 - Literature Reviews in Education and Psychology - 2cr.
- HDFS6031 - Research Methodology - 3cr.
- PSY6330 - Evidence-Based Practice: School Assessment and Measurement - 3cr.
- PSY6560 - Introduction to Educational and Psychological Research - 3cr.
- PSY7090 - Experimental and Applied Psychological Science Program Seminar - 1cr.

Other methodology course (Computer Science, English, Sociology etc.) with chairperson approval.

Note: Students can take more than 15 credits of Research Track and Methods electives and count them towards general electives.

Elective Courses (6 credits)

In addition to courses listed above under Research Methods, these courses are suggested general electives, feel free to coordinate with your advisor on specific classes to support your program of study.

Earn at least 6 credits from the following:

- ITLS6270 - Digital Making and Learning - 3cr.
- ITLS6320 - Writing for Design - 3cr.
- ITLS6545 - Socio-Cultural Learning Theory - 3cr.
- ITLS6730 - Games and Learning - 3cr.
- ITLS6910 - Independent Research - 1cr.

• Other General Electives as approved by chairperson.

Master's Core Courses (6 credits)

Required ***if*** students do not have an ITLS master's degree

Complete ALL of the following Courses:

- ITLS6520 - Instructional Design I - 3cr.
- ITLS6535 - Design Thinking - 3cr.

Dissertation Credits for Student with Master's Degree (12 credits)

Earn at least 12 credits from the following:

- ITLS7970 - Dissertation - 1cr.

Dissertation Credits for student with Bachelor's Degree (18 credits)

Earn at least 18 credits from the following:

- ITLS7970 - Dissertation - 1cr.

Program Learning Outcomes

Program Learning Outcomes

The Instructional Technology and Learning Sciences website has program learning outcomes and assessment across all degree programs.

IT Support and Web Development - AAS

Program Overview

College
College of Agriculture & Natural Resources

Department
Technology, Design & Technical Ed

Program Level
Undergraduate

About this Degree

The IT Support and Web Development Associate of Applied Science (AAS) degree prepares students for high-demand careers at the intersection of technology, business, and digital design. The program blends web design training with the technical skills required to support and maintain small-business networks, offering a balanced foundation in both creative and technical IT roles.

Students gain hands-on experience in areas such as website design, digital content creation, networking, scripting, cybersecurity, and operating system support. The curriculum also incorporates key business competencies—professional communication, small business management, and digital marketing—to equip graduates with the entrepreneurial and organizational skills needed to thrive in modern technology environments.

Graduates are prepared for careers in computer networking, website design, photo and video production, and small-business IT management, with the flexibility to pursue roles in both creative and technical fields.

Program Requirements

Total Credits Required In Program Coursework
64-65

Total Credits Required To Earn This Credential
64-65

Simple Requisites

Program Requirements

Required Courses

Type
Completion Requirement

Common Core

Fulfill ALL of the following requirements:

Required Courses

Complete ALL of the following Course Sets:

- Communications Literacy (CL1) Course
- Quantitative Literacy (QL) Course
- Breadth Life Sciences (BLS) Course
  OR Breadth Social Sciences (BSS) Course
  OR Breadth American Institutions (BAI) Course
  OR Breadth Creative Arts (BCA) Course
  OR Breadth Physical Sciences (BPS) Course
  OR Breadth Humanities (BHU) Course
- Breadth Life Sciences (BLS) Course
  OR Breadth Social Sciences (BSS) Course
  OR Breadth American Institutions (BAI) Course
  OR Breadth Creative Arts (BCA) Course
  OR Breadth Physical Sciences (BPS) Course
  OR Breadth Humanities (BHU) Course

Two breadth courses are required, see advisor for options.

Preferred Electives

Students may choose a class with any of the following prefixes: BCIS, BUSN, TEIT, TEBP, or ECON class that is not already required for the degree. The courses listed below are suggested.

BCIS1550 INTRO TO PYTHON - Intro to Python is highly recommended.

Earn at least 16 credits from the following:

- BUSN1021 - Personal Finance - 3cr.
- BUSN1405 - Word Processing - 2cr.
- BUSN2050 - Business Law - 3cr.
- BUSN2710 - Entrepreneurial Mindset - 3cr.
- ECON2010 - Introduction to Microeconomics (BSS) - 3cr.
- BCIS1550 - Introduction to Python - 3cr.
- BCIS2300 - Web Programming - 3cr.

Information Technology

Complete ALL of the following Courses:

- BCIS1250 - A+ Core 1 - 3cr.
  OR TEIT1200 - A+ Core 1 - 3cr.
- BCIS1260 - A+ Core 2 - 3cr.
  OR TEIT1210 - A+ Core 2 - 3cr.
- BCIS1320 - Linux Foundations - 2cr.
  OR TEIT1300 - Linux Foundations - 2cr.
- BCIS1100 - Introduction to Networking - 1cr.
  OR TEIT1100 - Introduction to Networking - 1cr.
- BCIS1050 - Career and Workplace Relations - 1cr.
  OR TEIT1050 - Career and Workplace Relations - 1cr.
- TEIT1170 - Computer Networks I - 2cr.
  OR BCIS2988 - Special Problems - 1cr.

BCIS 2988 should be taken at 2 credit hours.

Networking and Cybersecurity

Complete ALL of the following Courses:

- BCIS2652 - Intro to Cloud Security - 3cr.
  OR TEIT1400 - Introduction to Cloud - 2cr.
- BCIS2651 - Cybersecurity/Security+ - 4cr.
  OR TEIT2200 - Security + - 4cr.
- BCIS2631 - Network+ - 4cr.
  OR TEIT2170 - Computer Networks II - 3cr.

Core Electives

Earn at least 15 credits from the following:

- BCIS1081 - Introduction to Mobile Application Development - 3cr.
  OR TEIT1081 - Introduction to Mobile Application Development - 3cr.
- BCIS1300 - Website Design - 3cr.
  OR TEIT1310 - Website Design - 3cr.
- BCIS1340 - Digital Video Production - 3cr.
  OR TEIT1340 - Digital Video Production - 3cr.
- BCIS2210 - Linux + - 3cr.
  OR TEIT2300 - Linux + - 3cr.
- BCIS2441 - Photoshop - 3cr.
  OR TEIT2441 - Photoshop - 3cr.
- BCIS2500 - Web Business - 3cr.
  OR TEIT2500 - Web Business - 3cr.
- BCIS1040 - Introduction to Programming - 3cr.
  OR TEIT1041 - Introduction to Programming - 3cr.
- BUSN2390 - Organizational Behavior - 3cr.
  OR TEBP1200 - Professionalism - 3cr.
- BUSN1010 - Business Principles (BSS) - 3cr.
  OR TEBP1650 - Management Principles - 2cr.

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Associate Degrees)

Program Learning Outcomes

Program Learning Outcomes

- Install, configure, secure, and troubleshoot computer systems and networks using skills from A+ hardware/software, networking, Linux, and Network+ coursework.
- Apply foundational cybersecurity practices to protect systems and data in organizational environments.
- Design and create functional websites and digital media using modern web design, video production, and image-editing tools.
- Support online business operations and digital marketing efforts, including e-commerce and small-business workflows.
- Use industry-standard software tools to organize data, automate tasks, and support business and IT functions.
- Communicate effectively in technical and business settings, both in writing and verbally.
- Analyze problems and integrate technical, design, and business knowledge to develop practical solutions.

Japanese - Minor

Program Overview

College
College of Arts & Sciences

Department
World Languages and Cultures

Program Level
Undergraduate

Program Requirements

Total Credits Required In Program Coursework
12

Total Credits Required To Earn This Credential
12

Simple Requisites

Program Requirements

- Total Credits:12
- Grade Point Average to Declare Minor: 2.5 Overall GPA
- Grade Point Average to Graduate with Minor and 2.5 GPA within Minor Classes: 2.0 Overall GPA
- **USU Credit Requirement:** At least half (50 percent) of the credits earned for this minor must be earned at USU.

Section 1

Type
Completion Requirement

Required Course (8 credits)

Complete ALL of the following Courses:

- JAPN3010 - Japanese Third Year I - 4cr.
- JAPN3020 - Japanese Third Year II - 4cr.

Section 2

Type
Completion Requirement

Elective Courses (4 credits)

Earn at least 4 credits from the following:

- JAPN3050 - Japanese Calligraphy - 1cr.
- JAPN3060 - Japanese Communication - 3cr.
- JAPN3070 - Introduction to Japanese Culture and Society - 1cr.
- JAPN3090 - Introduction to Japanese Literature - 3cr.
- JAPN3100 - Readings in Contemporary Japanese Culture - 3cr.
- JAPN3150 - Tadoku: Extensive Reading in Japanese - 1cr.
- JAPN3300 - Interdisciplinary Project in Japan - 1cr.
- JAPN3510 - Japanese for the Business Environment - 3cr.
- JAPN3560 - Studies in Japanese Film - 3cr.
- JAPN4200 - Introduction to Japanese Linguistics - 3cr.
- JAPN4920 - Japanese Language Tutoring - 1cr.

NOTE:

1. Gateway to Advanced Japanese, JAPN3000 GATEWAY UPPER-DIVISION JAPN (4 credits), is a required transition course for students who are not quite ready to take JAPN3010 JAPANESE THIRD YR I. If the student needs to take JAPN3000 GATEWAY UPPER-DIVISION JAPN, it will not count towards the Japanese Minor. Instructors for the third-year courses can give students a waiver of this course based on a valuational interview.
2. JAPN3050 JAPANESE CALLIGRAPHY and JAPN4920 JAPN LANG TUTORING are repeatable for credit, and may be taken a maximum of three times.

Program Learning Outcomes

Program Learning Outcomes

https://chass.usu.edu/languages/assessments

Journalism - Minor

Program Overview

College
College of Arts & Sciences

Department
Communication & Media

Program Level
Undergraduate

Program Requirements

Total Credits Required To Earn This Credential
18

Simple Requisites

Program Requirements

Students wishing to declare a minor in Journalism must have a minimum 2.5 Overall GPA and a minimum 2.5 USU GPA as well.

Section 1

Type
Completion Requirement

Journalism Minor Requirements: (18 credits)

Complete ALL of the following Courses:

- JCOM1500 - Introduction to Mass Communication (BSS) - 3cr.
- JCOM1130 - Media Writing - 3cr.

- JCOM Elective; 3 credits
- JCOM Upper-Division Electives; 9 credits

Program Learning Outcomes

Program Learning Outcomes

https://chass.usu.edu/journalism/assessments

Journalism and Communication - BA, BS

Program Overview

College
College of Arts & Sciences

Department
Communication & Media

Program Level
Undergraduate

About this Degree

The Department of Journalism and Communication (JCOM) prepares students for careers in a wide range of communication fields. Students develop knowledge and skills in such areas as information gathering, writing, video production, online journalism, and media literacy.

The journalism and communication bachelor's degree (BA, BS) begins with six foundational courses intended to build competence and insight, and includes four additional areas of mastery: "writing," "critical thinking," "professional application," and "deep exploration." The full program is available to students on any Utah State University campus as well as those studying partially or fully online.

Students receive a by completing all required courses in the major. To receive a BA, students must also gain proficiency in one or more foreign languages.

- For more information about Journalism and Communication, see the department website.
- Admitted and current students must meet with an academic advisor.
- Log on to Degree Works to check student-specific program progress.
- The highest Math Requirement for this degree is: STAT1040 INTRO TO STATISTICS (QL) or STAT1045 INTRO STAT WITH ALGEBRA (QL) or STAT1080 FOUNDATIONS OF DATA SCI (QL).

Admission Requirements for this Program

- New freshmen must be admitted to USU in Good Standing.
- Transfer students from other institutions or other programs at USU must have a 2.50 GPA.

Program Requirements

Total Credits Required In Program Coursework
42

Total Credits Required To Earn This Credential
120

Simple Requisites

Program Requirements

Major Requirements 42 credits.

Major Requirements (42 credits)

Type
Completion Requirement

Foundations Required Courses (18 credits)

These courses are intended to provide the underlying skills and knowledge required for professional communications and are required for all students enrolled in the Journalism and Communication - BA, BS program. A minimum grade of "C" or higher is required with the exception of JCOM1130 MEDIA WRITING, JCOM1500 INTRO TO MASS COMM (BSS), and JCOM2010 MEDIA LITERACY (BSS) which require a minimum grade of **"C"**+ or higher.

Complete ALL of the following Courses:

- JCOM1130 - Media Writing - 3cr.
- JCOM1500 - Introduction to Mass Communication (BSS) - 3cr.
- JCOM2010 - Media Literacy (BSS) - 3cr.
- JCOM2020 - Communication Research Methods (QI) - 3cr.
- JCOM2030 - Multimedia Bootcamp - 4cr.
- JCOM4030 - Mass Media Law (DSS) - 3cr.

NOTE:

1. JCOM1130 MEDIA WRITING, JCOM1500 INTRO TO MASS COMM (BSS), JCOM2010 MEDIA LITERACY (BSS) - A minimum grade of C+ or higher.

Writing (3 credits)

The ability to write with accuracy, brevity, and clarity — and do so in accordance with industry and project-specific standards — is essential for all professional communicators. Every student enrolled in the Journalism and Communication - BA, BS program must take at least three credits from these courses. A minimum grade of **"C"** or higher is required.

Earn at least 3 credits from the following:

- JCOM1720 - Writing for Broadcast - 3cr.
- JCOM3110 - Feature Writing (CI) - 3cr.
- JCOM3140 - Opinion Writing (DSS) - 3cr.
- JCOM3200 - Writing for Electronic Media - 3cr.
- JCOM3310 - Writing for Public Relations (CI) - 3cr.
- JCOM4750 - Special Topics: Advanced Writing for Professional Communicators - 3cr.

Critical Thinking (9 credits)

Theory, history, context, and ethics are essential building blocks for the practice of professional communication in a rapidly changing world. Every student enrolled in the Journalism and Communication - BA, BS program must take at least nine credits from these courses. A minimum grade of **"C"** or higher is required.

Earn at least 9 credits from the following:

- JCOM1510 - Introduction to Broadcasting - 3cr.
- JCOM1660 - Introduction to Television - 3cr.
- JCOM2160 - Introduction to Online Journalism - 3cr.
- JCOM2220 - Introduction to Video Media - 3cr.
- JCOM2300 - Introduction to Public Relations - 3cr.
- JCOM2400 - Introduction to Social Media - 3cr.
- JCOM2977 - Cooperative Education - 1cr.
- JCOM2988 - Special Problems - 1cr.
- JCOM3030 - Corporate Communication - 3cr.
- JCOM3050 - Technical and Professional Communication Principles (CI) - 3cr.
- JCOM3320 - Strategic Research Methods in Public Relations (DSS) - 3cr.
- JCOM3410 - Film as Cultural Communication (DSS) - 3cr.
- JCOM4010 - Mass Communication Ethics (DSS) - 3cr.
- JCOM4020 - Mass Media and Society (DSS) - 3cr.
- JCOM4130 - Immersive Crisis Communication - 3cr.
- JCOM4300 - Integrated Marketing Communication - 3cr.
- JCOM4400 - Mass Media Criticism - 3cr.
- JCOM4410 - Gender and the Mass Media - 3cr.
- JCOM4520 - Senior Thesis - 1cr.
- JCOM4760 - Special Topics: Advanced Critical Thought in Media - 3cr.
- JCOM5010 - Mass Media Historiography - 3cr.
- JCOM5020 - Mass Communication Theory - 3cr.
- JCOM5030 - International Communications Problems - 3cr.
- JCOM5300 - Case Studies in Public Relations (CI) - 3cr.
- JCOM5420 - The Mass Media and Politics - 3cr.

- JCOM6000 - Introduction to Graduate Study in Mass Communication - 3cr.
- JCOM6010 - Mass Media Historiography - 3cr.
- JCOM6020 - Mass Communication Theory - 3cr.
- JCOM6030 - International Communications Problems - 3cr.
- JCOM6040 - Seminar in Mass Media Research Methods - 3cr.
- JCOM6050 - Seminar in Mass Media Issues and Problems - 3cr.
- JCOM6300 - Case Studies in Public Relations - 3cr.

Professional Application (9 credits)

Journalism and communication are professional crafts, the mastery of which require real-world practice. Every student enrolled in the Journalism and Communication - BA, BS program must take at least nine credits from these courses. A minimum grade of **"C"** or higher is required.

Earn at least 9 credits from the following:

- JCOM1040 - Newspaper Production I - 3cr.
- JCOM1050 - Newspaper Production II - 3cr.
- JCOM1560 - Radio Production I - 3cr.
- JCOM1800 - Communication Graphics - 3cr.
- JCOM2070 - Newspaper Production - 3cr.
- JCOM2080 - Newspaper Production IV - 3cr.
- JCOM2180 - Beginning Photojournalism - 3cr.
- JCOM2560 - Radio Production III - 1cr.
- JCOM2660 - Television Practicum - 1cr.
- JCOM3090 - Graphic Design in Agriculture and Media Industries - 3cr.
- JCOM3100 - Reporting Public Affairs (CI) - 3cr.
- JCOM3120 - Editing and Design (CI) - 3cr.
- JCOM4040 - Social Media Content Development - 3cr.
- JCOM4100 - Hard News Café - 3cr.
- JCOM4110 - Investigative Journalism (CI) - 3cr.
- JCOM4120 - Sports Reporting (CI) - 3cr.
- JCOM4150 - Advanced Digital Photojournalism - 3cr.
- JCOM4210 - Newscast I (CI) - 6cr.
- JCOM4220 - Newscast II (CI) - 6cr.
- JCOM4230 - Corporate Video - 3cr.
- JCOM4340 - Event Planning and Manager Communications - 3cr.
- JCOM4770 - Special Topics: Advanced Professional Experiences in Media - 3cr.
- JCOM5110 - Literary Journalism (CI) - 3cr.
- JCOM5210 - Website Design and Production - 3cr.
- JCOM5220 - Advanced Video Production - 3cr.
- JCOM5230 - Advanced Video Documentary Production - 3cr.
- JCOM5310 - Mass Media Management - 3cr.
- JCOM5320 - Public Relations Agency - 3cr.
- JCOM5400 - Social Media Strategy, Analytics & Artificial Intelligence - 3cr.
- JCOM6110 - Literary Journalism - 3cr.
- JCOM6210 - Website Design and Production - 3cr.
- JCOM6220 - Advanced Video Production - 3cr.

Deep Exploration Elective Courses (3 credits)

It is the intention of the Department of Journalism and Communication to provide students with opportunities to follow their interests, aptitudes, and passions. Any three credits with a JCOM prefix, including internships, may be used to fulfill this requirement. A course may only be taken once and is not repeatable for the major requirements. Students are enthusiastically encouraged to pursue additional credits as their time, resources, and needs allow, particularly in consultation with their advisers and professors.

Earn at least 3 credits from the following:

- JCOM1040 - Newspaper Production I - 3cr.
- JCOM1050 - Newspaper Production II - 3cr.
- JCOM1510 - Introduction to Broadcasting - 3cr.
- JCOM1560 - Radio Production I - 3cr.
- JCOM1660 - Introduction to Television - 3cr.
- JCOM1720 - Writing for Broadcast - 3cr.
- JCOM1800 - Communication Graphics - 3cr.
- JCOM2070 - Newspaper Production - 3cr.
- JCOM2080 - Newspaper Production IV - 3cr.
- JCOM2160 - Introduction to Online Journalism - 3cr.
- JCOM2180 - Beginning Photojournalism - 3cr.
- JCOM2220 - Introduction to Video Media - 3cr.
- JCOM2300 - Introduction to Public Relations - 3cr.
- JCOM2400 - Introduction to Social Media - 3cr.
- JCOM2560 - Radio Production III - 1cr.
- JCOM2660 - Television Practicum - 1cr.
- JCOM2977 - Cooperative Education - 1cr.
- JCOM2988 - Special Problems - 1cr.
- JCOM3030 - Corporate Communication - 3cr.
- JCOM3050 - Technical and Professional Communication Principles (CI) - 3cr.
- JCOM3090 - Graphic Design in Agriculture and Media Industries - 3cr.
- JCOM3100 - Reporting Public Affairs (CI) - 3cr.
- JCOM3110 - Feature Writing (CI) - 3cr.
- JCOM3120 - Editing and Design (CI) - 3cr.
- JCOM3140 - Opinion Writing (DSS) - 3cr.
- JCOM3200 - Writing for Electronic Media - 3cr.
- JCOM3310 - Writing for Public Relations (CI) - 3cr.
- JCOM3320 - Strategic Research Methods in Public Relations (DSS) - 3cr.
- JCOM3410 - Film as Cultural Communication (DSS) - 3cr.
- JCOM4010 - Mass Communication Ethics (DSS) - 3cr.
- JCOM4020 - Mass Media and Society (DSS) - 3cr.
- JCOM4040 - Social Media Content Development - 3cr.
- JCOM4100 - Hard News Café - 3cr.
- JCOM4110 - Investigative Journalism (CI) - 3cr.
- JCOM4120 - Sports Reporting (CI) - 3cr.
- JCOM4130 - Immersive Crisis Communication - 3cr.
- JCOM4150 - Advanced Digital Photojournalism - 3cr.
- JCOM4210 - Newscast I (CI) - 6cr.
- JCOM4220 - Newscast II (CI) - 6cr.
- JCOM4230 - Corporate Video - 3cr.
- JCOM4300 - Integrated Marketing Communication - 3cr.
- JCOM4340 - Event Planning and Manager Communications - 3cr.
- JCOM4400 - Mass Media Criticism - 3cr.
- JCOM4410 - Gender and the Mass Media - 3cr.
- JCOM4500 - Projects in Communication - 1cr.
- JCOM4510 - Communication Internship - 1cr.
- JCOM4520 - Senior Thesis - 1cr.
- JCOM4530 - Special Topics in Communication - 3cr.
- JCOM4750 - Special Topics: Advanced Writing for Professional Communicators - 3cr.
- JCOM4760 - Special Topics: Advanced Critical Thought in Media - 3cr.
- JCOM4770 - Special Topics: Advanced Professional Experiences in Media - 3cr.
- JCOM5010 - Mass Media Historiography - 3cr.
- JCOM5020 - Mass Communication Theory - 3cr.
- JCOM5030 - International Communications Problems - 3cr.
- JCOM5110 - Literary Journalism (CI) - 3cr.
- JCOM5210 - Website Design and Production - 3cr.
- JCOM5220 - Advanced Video Production - 3cr.
- JCOM5230 - Advanced Video Documentary Production - 3cr.

- JCOM5300 - Case Studies in Public Relations (CI) - 3cr.
- JCOM5310 - Mass Media Management - 3cr.
- JCOM5320 - Public Relations Agency - 3cr.
- JCOM5400 - Social Media Strategy, Analytics & Artificial Intelligence - 3cr.
- JCOM5420 - The Mass Media and Politics - 3cr.
- JCOM6000 - Introduction to Graduate Study in Mass Communication - 3cr.
- JCOM6010 - Mass Media Historiography - 3cr.
- JCOM6020 - Mass Communication Theory - 3cr.
- JCOM6030 - International Communications Problems - 3cr.
- JCOM6040 - Seminar in Mass Media Research Methods - 3cr.
- JCOM6050 - Seminar in Mass Media Issues and Problems - 3cr.
- JCOM6110 - Literary Journalism - 3cr.
- JCOM6210 - Website Design and Production - 3cr.
- JCOM6220 - Advanced Video Production - 3cr.
- JCOM6230 - Advanced Video Documentary Production - 3cr.
- JCOM6300 - Case Studies in Public Relations - 3cr.

Open Electives

Complete the following as needed:
Total elective credit is determined by General Education courses taken, degree type selected, additional credits earned, and any additional math or other prerequisite courses needed. Please consult your Academic Advisor for details.

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Bachelor's Degree)

Suggested Degree Maps

Degree Map Name
Suggested Degree Map - Journalism and Communication BA, BS
Total Degree Map Credits
120 - 122
Degree Map Effective Catalog Year
2026 -

Degree Map Narrative

- Following is a sample four-year plan. Please note that student-specific plans may differ.
- Meet with an academic advisor to create a specific plan that best fits your academic needs.
- The student is ultimately responsible for knowing and completing all degree requirements.
- Make sure you meet the registration requirements for each class by clicking the course link and checking any prerequisites or corequisites.
- Consultation with an advisor may result in an altered plan customized for an individual student.
- Check your Degree Works for requirements and completion.

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	15 - 17	0

Requirement Select
- Minimum grade of "C+" or higher in JCOM 1500. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- ENGL1010 - Writing as Inquiry (CL1)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Quantitative Literacy (QL) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 5
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- STAT 1040 or STAT 1045 or STAT 1080 recommended (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- JCOM1500 - Introduction to Mass Communication (BSS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	C+
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Breadth Creative Arts (BCA) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	15	0

Requirement Select

- Minimum grade of “C+” or higher in all JCOM courses. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- JCOM1130 - Media Writing

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	C+
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- JCOM2010 - Media Literacy (BSS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	C+
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Breadth Life Sciences (BLS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Breadth Humanities (BHU) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	15	0

Requirement Select

- Minimum grade of “C” or higher in all JCOM courses. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- ENGL2010 - Research and Argument Across Perspectives (CL2)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- JCOM Professional Application (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	C+
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- JCOM2020 - Communication Research Methods (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	C+
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Breadth American Institutions (BAI) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Breadth Physical Sciences (BPS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	15	0

Requirement Select

- Minimum grade of “C” or higher in all JCOM courses. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- JCOM Writing (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	C
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- JCOM2300 - Introduction to Public Relations

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	C
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Depth Life and Physical Sciences (DSC) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Fall	15	0

Requirement Select
- Minimum grade of “C” or higher in all JCOM courses. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- JCOM Critical Thinking (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	C
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- JCOM Professional Application (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	C
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Upper-Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Spring	15	0

Requirement Select
- Minimum grade of “C” or higher in all JCOM courses. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- JCOM Critical Thinking (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	C
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- JCOM Professional Application (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	C
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Depth Humanities and Creative Arts (DHA) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Upper-Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Fall	15	0

Requirement Select
- Minimum grade of "C" or higher in all JCOM courses. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- JCOM4030 - Mass Media Law (DSS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	C
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- JCOM Critical Thinking (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	C
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Communications Intensive (CI) Courses

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Upper-Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Upper-Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Spring	15	0

Requirement Select
- Minimum grade of "C" or higher in all JCOM courses. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- JCOM Deep Exploration (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Communications Intensive (CI) Courses

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Upper-Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Program Learning Outcomes

Program Learning Outcomes

https://artsci.usu.edu/communication-media/journalism-communication/assessments

Juvenile Justice - Certificate

Program Overview

College
College of Arts & Sciences

Department
School of Social Sciences

Program Level
Undergraduate

About this Degree

The Undergraduate Certificate in Juvenile Justice will be housed and administered by USU's School of Social Sciences in the College of Arts and Sciences.

While only three courses are required for certificate completion, students will be welcome and invited to take additional courses of electives.

Program Requirements

Total Credits Required In Program Coursework
9

Total Credits Required To Earn This Credential
9

Simple Requisites

Program Requirements

Certificate completion will require three courses totaling 9 credit hours.

Juvenile Justice - Certificate

Type
Completion Requirement

Required Courses (6 credits)

Complete ALL of the following Courses:

- CJ2330 - Juvenile Justice - 3cr.
- SW3350 - Child Welfare - 3cr.

Required Course (3 credits)

Complete at least 1 of the following courses:

- CJ2360 - Juvenile Law and Procedures - 3cr.
- SW3360 - Adolescents: Theories, Problems, and Issues - 3cr.

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Undergraduate Academic or Technical Certificates)

Program Learning Outcomes

Program Learning Outcomes

Objectives:

1- Students will explore the origin, philosophy, and development of the juvenile justice system, focusing on the nature of juvenile law and the guiding principles that shape the system.

2- Students will analyze the impact of poverty and violence on children, examining the changing American family and the systems, including the Child Welfare and Juvenile Justice Systems, that affect children's well-being.

3- Students will examine the juvenile justice system with a focus on law and procedure, exploring the distinctions between juvenile and adult systems, and analyze major social problems affecting youth today, including substance abuse, unemployment, education, and mental health.

Kinesiology - Exercise Science Emphasis - BS

Program Overview

College
College of Education & Human Services

Department
Kinesiology and Health Science

Program Level
Undergraduate

About this Degree

The Kinesiology degree at USU provides two different options for students who wish to pursue careers in exercise science or physical therapy. Many graduates from the program are accepted into advanced degree programs in kinesiology, physical and occupational therapy, medical schools, or other various health professional programs. In all of these areas, students study the psychological, neurophysiological, and biomechanical/biophysical aspects of human movement. Through mentoring, students are given the opportunity to conduct undergraduate research. The department collaborates with USU athletics and fitness centers to provide students with opportunities for hands-on experience and professional training.

Exercise Science Emphasis: The exercise science emphasis is science-based and focuses on the integration of anatomical, psychological, biomechanical, and physiological principles related to human movement, exercise, and sport. Many students complete the exercise science emphasis in order to build a strong foundation prior to pursuing graduate study in exercise science fields or health professions, such as medicine, physician assistant, dentistry, or chiropractic.

- For more information about Kinesiology, see the department website.
- Admitted and current students must meet with an advisor.
- Log on to Degree Works to check student-specific program progress.
- The highest math requirement for this degree is STAT1045 INTRO STAT WITH ALGEBRA (QL) or higher.

Admission Requirements for this Program

- New freshmen must be admitted to USU in Good Standing.
- Transfer students from other institutions or other programs at USU must have an overall 2.0 GPA.

Program Requirements

Total Credits Required In Program Coursework
59

Total Credits Required To Earn This Credential
120

Simple Requisites

Program Requirements

- Program Graduation Requirement: **2.0 overall GPA**
- All required major and elective courses may not be taken for a pass/fail grade, except for PE Skill Development courses.
- A minor is not required for this degree, but is strongly encouraged. Please visit with your advisor about career and graduate school options.

Kinesiology - Exercise Science Emphasis - BS

Type
Completion Requirement

I. Prerequisites (11-13 credits)

Complete ALL of the following Courses:

- BIOL2320 - Human Anatomy - 4cr.
- BIOL2420 - Human Physiology - 4cr.
- MATH1030 - Quantitative Reasoning (QL) - 3cr.
  OR MATH1050 - College Algebra (QL) - 4cr.
  OR MATH1100 - Calculus Techniques (QL) - 3cr.
  OR MATH1210 - Calculus I (QL) - 4cr.
  OR STAT1040 - Introduction to Statistics (QL) - 3cr.
  OR STAT1045 - Introduction to Statistics with Elements with Algebra (QL) - 5cr.
  OR STAT1080 - Foundations of Data Science (QL) - 3cr.

• Or acceptable Math exam scores, ACT, SAT, AP.

II. Professional Foundation Required Courses (29 credits)

Complete ALL of the following Courses:

- KIN2000 - Introduction to Kinesiology - 2cr.
- KIN3000 - Principles of Health and Fitness - 3cr.
- KIN3100 - Athletic Injuries - 3cr.
- KIN3250 - Anatomical Kinesiology - 3cr.
- KIN4000 - Mental Aspects of Sports Performance - 3cr.
- KIN4100 - Exercise Physiology - 4cr.
- KIN4200 - Biomechanics (QI) - 4cr.
- KIN4400 - Measurement and Evaluation in Kinesiology (QI) - 3cr.
- KIN5100 - Fitness Assessment and Exercise Programs - 4cr.

III. Professional Development Courses (16 credits)

Fulfill ALL of the following requirements:

Health & Kinesiology (must complete at least 3 credits)

Earn at least 3 credits from the following:

- HEP2000 - First Aid and Emergency Care - 2cr.
- HEP2500 - Health and Wellness - 2cr.
- HEP3200 - Consumer Health - 3cr.
- HEP3400 - Stress Management - 3cr.
- KIN3200 - Motor Control and Learning (CI) - 3cr.
- KIN4460 - Exercise Electrocardiogram Interpretation - 2cr.
- KIN5430 - History and Philosophy of Physical Activity and Sport (CI) - 3cr.

AND

Biology Courses (must complete at least 3 credits)

Earn at least 3 credits from the following:

- BIOL1010 - Biology and the Citizen (BLS) - 3cr.
- BIOL1610 - Biology I - 3cr.
  AND BIOL1615 - Biology I Laboratory - 1cr.
- BIOL1620 - Biology II (BLS) - 3cr.
  AND BIOL1625 - Biology II Laboratory - 1cr.
- BIOL2060 - Elementary Microbiology - 4cr.
- BIOL3060 - Principles of Genetics (QI) - 3cr.
- BIOL3300 - General Microbiology - 3cr.

AND

Chemistry Courses (must complete at least 3 credits)

Earn at least 3 credits from the following:

- CHEM1010 - Introduction to Chemistry (BPS) - 3cr.
- CHEM1110 - General Chemistry I (BPS) - 4cr.
- CHEM1120 - General Chemistry II (BPS) - 4cr.
- CHEM1210 - Principles of Chemistry I - 4cr.

- CHEM1220 - Principles of Chemistry II (BPS) - 4cr.

NOTE:

1. CHEM1120 GENERAL CHEMISTRY II (BPS) - Although not required for the major, student should consider taking the appropriate lab as well.
2. CHEM1210 PRIN OF CHEMISTRY I - Although not required for the major, student should consider taking the appropriate lab as well.
3. CHEM1220 PRIN OF CHEMISTRY II (BPS) - Although not required for the major, student should consider taking the appropriate lab as well.

AND

Integrated Courses (must complete at least 7 credits)

Earn at least 7 credits from the following:

- NDFS1020 - Science and Application of Human Nutrition (BLS) - 3cr.
- NDFS2030 - Nutrition and Physical Performance - 2cr.
- PHYS1100 - Great Ideas in Physics (BPS) - 3cr.
- PHYS1200 - Introduction to Physics by Hands-on Exploration (BPS) - 4cr.
- PHYS2110 - General Physics—Life Sciences I - 4cr.
- PHYS2120 - General Physics - Life Sciences II (BPS) - 4cr.
- PSY1010 - General Psychology (BSS) - 3cr.
- PSY2100 - Developmental Psychology: Adolescence - 3cr.
- PSY2300 - Psychological Disorders - 3cr.
- PSY3010 - Psychological Statistics (QI) - 3cr.

IV. Skill Development Courses (must complete at least 3 credits)

KIN Courses and PE activity courses may not be repeated for credit in the major. Must be three different activity courses.

Earn at least 3 credits from the following:

- KIN2100 - Skills 1 (Swimming, Volleyball, Football) - 1cr.
- KIN2200 - Skills 2 (Lifetime Activities) - 1cr.
- KIN2300 - Skills 3 (Softball, Basketball, Soccer) - 1cr.
- KIN2400 - Skills 4 (Tennis, Badminton, Track and Field) - 1cr.

• or any three PE activity courses from PE 1000-2120

Open Electives (0-19 estimated credits)

Complete the following as needed:
Total elective credit is determined by General Education courses taken, degree type selected, additional credits earned, and any additional math or other prerequisite courses needed. Please consult your Academic Advisor for details.

Additional Comments:

Suggested Degree Map - Kinesiology: Exercise Science Emphasis BS

Total Degree Map Credits
117 - 125

Degree Map Effective Catalog Year
2027 -

Degree Map Narrative

- Following is a sample four-year plan. Please note that student-specific plans may differ.
- Meet with an academic advisor to create a specific plan that best fits your academic needs.
- The student is ultimately responsible for knowing and completing all degree requirements.
- Make sure you meet the registration requirements for each class by clicking the course link and checking any prerequisites or corequisites.
- Consultation with an advisor may result in an altered plan customized for an individual student.
- Check your Degree Works for requirements and completion.

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	16 - 19	0

Requirement Select

- Breadth Life Sciences (BLS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Communications Literacy (CL1) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Bachelor's Degree)

Suggested Degree Maps

Degree Map Name

Requirement Select
- Quantitative Literacy (QL) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- KIN2000 - Introduction to Kinesiology

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select
- USU1010 - University Connections

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select
- Breadth Social Sciences (BSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	13 - 17	0

Requirement Select
- Breadth Physical Sciences (BPS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	0 - 4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Breadth American Institutions (BAI) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Breadth Humanities (BHU) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- MATH1030 - Quantitative Reasoning (QL)
  OR
- MATH1050 - College Algebra (QL)
  OR
- MATH1100 - Calculus Techniques (QL)
  OR
- MATH1210 - Calculus I (QL)
  OR
- STAT1040 - Introduction to Statistics (QL)
  OR
- STAT1045 - Introduction to Statistics with Elements with Algebra (QL)
  OR
- STAT1080 - Foundations of Data Science (QL)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3 - 5
Clinical	-
Criticality	No

Requirement Select

- KIN Skill Development or PE Activity course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Breadth Creative Arts (BCA) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	14	0

Requirement Select

- KIN3000 - Principles of Health and Fitness

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Communications Literacy (CL2) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- BIOL1010 - Biology and the Citizen (BLS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- PSY, NDFS, or PHYS integrated Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- KIN Skill Development or PE Activity Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Elective (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	17	0

Requirement Select

- KIN3100 - Athletic Injuries

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- BIOL2320 - Human Anatomy

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- PSY, NDFS, PHYS Integrated Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- CHEM1010 - Introduction to Chemistry (BPS)

OR

- Another Chemistry Professional Development Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- KIN Skill Development or PE Activity Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Kinesiology & Health Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Fall	15 - 16	0

Requirement Select
- BIOL2420 - Human Physiology

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- KIN3250 - Anatomical Kinesiology

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- PSY, NDFS, or PHYS Integrated Approved Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2 - 3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Depth Social Sciences (DSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- KIN4000 - Mental Aspects of Sports Performance

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Spring	16	0

Requirement Select
- KIN4100 - Exercise Physiology

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- KIN4400 - Measurement and Evaluation in Kinesiology (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Communications Intensive (CI) Courses

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Depth Humanities and Creative Arts (DHA) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Upper-Division (#3000 or higher) Coruse (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Fall	14	0

Requirement Select
- KIN5100 - Fitness Assessment and Exercise Programs

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- Communications Intensive (CI) Courses

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- KIN4200 - Biomechanics (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Spring	12	0

Requirement Select
- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Program Learning Outcomes

Program Learning Outcomes

https://cehs.usu.edu/khs/assessment

Kinesiology - MS

Program Overview

College	Department	Program Level
College of Education & Human Services	Kinesiology and Health Science	Graduate

About this Degree

The Master of Science in Kinesiology program provides a comprehensive foundation in the biological, physical, mechanical, and social sciences of human movement. Students gain expertise in areas such as exercise physiology, biomechanics, sport psychology, motor control, wellness, and sport ethics, preparing them for advanced study or professional practice.

Graduate students combine advanced coursework with practical and research experiences, developing skills to critically evaluate evidence, apply scientific principles, and address complex questions in health, performance, and sport.

The program offers two pathways:

- Research/Thesis Pathway: Students conduct empirical research under faculty mentorship, producing a thesis or scholarly research paper. This pathway is ideal for students preparing for doctoral study or research-focused careers.
- Applied/Literature-Informed Pathway: Students engage in literature reviews and supervised applied experiences, producing a scholarly paper based on evidence-informed practice. This pathway is ideal for students preparing for applied careers in health, performance, or wellness.

Graduates are prepared for doctoral programs, medical and allied health professions, or applied careers in areas such as cardiac rehabilitation, strength and conditioning coaching, wellness programming, and research or clinical settings. Through advanced coursework, research, and practical experiences, students gain the skills and knowledge to excel in these fields. For more information on admissions, courses, and faculty research, please visit the department website at https://cehs.usu.edu/khs/graduate/ms-kinesiology.

Program Requirements

Total Credits Required In Program Coursework	Total Credits Required To Earn This Credential
30	30

Simple Requisites

Program Requirements

School of Graduate Studies Requirements

- **Degree Verification:** A bachelor's degree from an accredited U.S. college or university or a similarly recognized international university is required for admission to and completion of a graduate program. An official transcript must be sent directly to the School of Graduate Studies.
- **Overall Graduate GPA at least 3.0 and no grades of C- or lower:** Graduate students are required to maintain at least a 3.0 GPA for degree-program courses. Grades of C- or lower will not be accepted for a graduate degree.
- **Course Number Acceptability:** The Program of Study for a master's degree must include at least 18 semester credits at the level of 6000 or above. Credits in the following areas are not acceptable in a degree program: foreign languages (unless included in an approved Program of Study), continuing graduate advisement, individual home study, military science, and courses numbered

below 6000. The program of study for a master's degree cannot include more than 12 semester credits of courses at the 5000 level. Credits in the following areas are not acceptable in a degree program: foreign languages (unless included in an approved Program of Study), continuing graduate advisement, individual home study, military science, and courses numbered below 5000.

- **Matriculation Start Semester:** A master's degree must be completed within six years of entering the degree program. Additional time may be requested by the student's committee and submitted to the Vice Provost of Graduate Studies for review.
- **Coursework Validity:** Coursework over eight years old at the time of degree completion may not be used for a graduate degree unless it is revalidated by the School of Graduate Studies.
- **Thesis Research Credits**
    - **Plan A students:** The Plan A option for a master's degree requires the preparation and defense of a thesis. Students are required to complete a minimum of 6 semester credits of thesis research with a maximum of 15 thesis credits applied toward a Program of Study.
    - **Plan B students:** A Plan B option requires the production and defense of a paper or project, depending on the department and program. A minimum of two credits of thesis research are required, but no more than three thesis research credits can be included in an approved Program of Study. Some degree programs require creative project credits in addition to or in place of research.
- **Required for all defense degrees:** Successful defense and submission of the thesis or paper to the library.
- **Master's forms:** Approval of academic forms required for master's students by the School of Graduate Studies This includes the Supervisory Committee Approval Form (SCAF), Program of Study (POS), Thesis Proposal Approval (TPA), Appointment for Examination (AFE), Record of Examination (ROE), Thesis/ Dissertation Format and Style (F&S) and Electronic Publication Approval – required for Plan A, not Plan B, Authorship and Copyright (A&C) form – required for Plan A, not Plan B, Submission of paper to the USU Library, and USU Graduation Application.

Kinesiology - MS (30 credits)

Type
Completion Requirement

Courses

MS students must select to follow either Plan A (thesis option) or the Plan B (research/creative project option).

Fulfill ALL of the following requirements:

Required Core Courses (10 credits)

Complete ALL of the following Courses:

- KIN6300 - Seminar in Kinesiology - 1cr.
- KIN6810 - Research Methods in Kinesiology - 3cr.
- KIN6700 - Special Topics - 1cr.
- EDUC6050 - Applied Statistical Analysis - 3cr.

AND

Capstone/Culminating Experience Requirement - Plan A (6 credits);

Plan B (3 credits)

Complete ALL of the following Courses:

- KIN6970 - Thesis - 1cr.
  OR KIN6500 - Practicum in Corporate Wellness - 1cr.

NOTE:

● Plan A students must take a minimum of 6 credits of KIN6970 THESIS.
● Plan B students must take 3 credits of either KIN6970 THESIS or KIN6500 PRACT CORP WELLNESS depending on their culminating experience.

AND

Electives (14-17 credits)

Students can select electives from list of courses below, or other courses with approval from their supervisory committee. **Plan A** students need 14 elective credits and **Plan B** students need 17 credits.

Complete ANY of the following Courses:

- KIN6050 - Psychological Aspects of Sports Performance - 3cr.
- KIN6210 - Biophysical Aspects of Sport and Exercise - 3cr.
- KIN6270 - Injury Prevention and Risk Management - 3cr.
- KIN6410 - Bioenergetics and Exercise Metabolism - 2cr.
- KIN6425 - Exercise in Extreme Environments - 2cr.
- KIN6440 - Body Composition - 2cr.
- KIN6460 - Exercise Electrocardiogram Interpretation - 2cr.
- KIN6480 - Advanced Neuromuscular Exercise Physiology - 2cr.
- KIN6610 - Topics in Biomechanics - 2cr.
- KIN6620 - Methods in Biomechanics - 1cr.
- KIN6840 - Fundamentals of Motor Behavior - 2cr.
- KIN6850 - Neural Aspects of Rehabilitation - 2cr.
- KIN6860 - Motor Development - 2cr.
- KIN6500 - Practicum in Corporate Wellness - 1cr.
- KIN6900 - Independent Study - 1cr.

Additional courses that are not listed can count towards a students program of study with approval from the department and the students supervisory committee.

Program Learning Outcomes

Program Learning Outcomes
https://cehs.usu.edu/khs/assessment

Kinesiology: Pre-Physical Therapy Emphasis - BS

Program Overview

College
College of Education & Human Services

Department
Kinesiology and Health Science

Program Level
Undergraduate

About this Degree

The Kinesiology degree at USU provides two different options for students who wish to pursue careers in exercise science or physical therapy (PT). Many graduates from the program are accepted into advanced degree programs in kinesiology, physical and occupational therapy, medical schools, or other various health professional programs. In all of these areas, students study the psychological, neurophysiological, and biomechanical/biophysical aspects of human movement. Through mentoring, students are given the opportunity to conduct undergraduate research. The department collaborates with USU athletics and fitness centers to provide students with opportunities for hands-on experience and professional training.

Pre-Physical Therapy Emphasis: The pre-physical therapy emphasis prepares students with the necessary coursework, including common PT prerequisites (not all), to apply to a graduate physical therapy program. Physical therapists help people who have limited abilities to move and perform functional activities. They work in a variety of settings, including hospitals, private practices, outpatient clinics, home health agencies, schools, sports and fitness facilities, work settings, and nursing homes.

- For more information about Kinesiology, see the department website.
- Admitted and current students must meet with an advisor.
- Log on to Degree Works to check student-specific program progress.
- The highest math requirement for this degree is MATH1060 TRIGONOMETRY or MATH1100 CALCULUS TECHNIQUES (QL) or MATH1210 CALCULUS I (QL).

Admission Requirements for this Program

- New freshmen must be admitted to USU in Good Standing.
- Transfer students from other institutions or other programs at USU must have an overall 2.0 GPA.

Program Requirements

Total Credits Required In Program Coursework
71

Total Credits Required To Earn This Credential
120

Simple Requisites

Program Requirements

- Program Graduation Requirement: **2.0 overall GPA**
- Coursework for the major may not be taken pass/fail, except KIN4250 ADV COOP WORK EXPER.
- It is ultimately the student's responsibility to investigate physical therapy or other graduate/professional programs to determine all required prerequisites for admissions, and meet with their academic advisor to ensure the degree plan includes any remaining prerequisites to take.

Additional Information

Some Physical Therapy (PT) or other graduate programs may require additional coursework for admission. Students can verify prerequisites for most PT programs they are interested in here: https://www.apta.org/cas/ptcas (physical therapy programs) or on individual program websites. **Many PT schools could require specific prerequisite Math and Science courses to be completed (graded) before applying to their program.** The GRE is also a possible prerequisite for PT school, but requirements vary and are subject to change. It is strongly recommended that students use USU Pre-Health Advising for additional guidance on preparing for health profession programs.

Kinesiology: Pre-Physical Therapy Emphasis - BS

Type

Completion Requirement

I. Prerequisites (11-13 credits)

Note: Must complete BIOL2320 HUMAN ANATOMY & BIOL2420 HUMAN PHYSIOLOGY (or BIOL4600 ADV HUMAN PHYSIOLOGY) before enrolling in KIN3250 ANATOMICAL KINESIOLOGY, KIN4100 EXERCISE PHYSIOLOGY, KIN4200 BIOMECHANICS (QI), and KIN5100 FITNESS ASSESSMENT.

Complete ALL of the following Courses:

- BIOL2320 - Human Anatomy - 4cr.
- BIOL2420 - Human Physiology - 4cr.
  OR BIOL4600 - Advanced Human Physiology - 5cr.
- PSY1010 - General Psychology (BSS) - 3cr.
- MATH1050 - College Algebra (QL) - 4cr.

● Or ACT Math Score of 26 or higher; SAT Math Score Equivalent.

II. Professional Foundations (30 credits)

Complete ALL of the following Courses:

- KIN2020 - Introduction to Physical Therapy - 2cr.
- KIN3000 - Principles of Health and Fitness - 3cr.
- KIN3100 - Athletic Injuries - 3cr.
- KIN3250 - Anatomical Kinesiology - 3cr.
- KIN4100 - Exercise Physiology - 4cr.
- KIN4200 - Biomechanics (QI) - 4cr.
- KIN4250 - Advanced Cooperative Work Experience - 1cr.
- KIN4400 - Measurement and Evaluation in Kinesiology (QI) - 3cr.
- KIN5100 - Fitness Assessment and Exercise Programs - 4cr.

NOTE:

1. KIN4250 ADV COOP WORK EXPER - 4 credits required, but 10 credits is the maximum allowed for this course.

III. Professional Development (30-33 credits)

Fulfill ALL of the following requirements:

Biology (4 credits required, including lab)

It is the student's responsibility to determine which biology courses are required for the particular graduate schools they are interested in attending. Many schools require both BIOL1610 BIOLOGY I/BIOL1615 BIOLOGY I LABORATORY **AND** BIOL1620 BIOLOGY II (BLS)/BIOL1625 BIOLOGY II LABORATORY.

Earn at least 4 credits from the following:

- BIOL1610 - Biology I - 3cr.
- BIOL1615 - Biology I Laboratory - 1cr.
- BIOL1620 - Biology II (BLS) - 3cr.
- BIOL1625 - Biology II Laboratory - 1cr.
- BIOL2060 - Elementary Microbiology - 4cr.
- BIOL3060 - Principles of Genetics (QI) - 3cr.

- BIOL3300 - General Microbiology - 3cr.

NOTE:

1. BIOL1610 BIOLOGY I and BIOL1615 BIOLOGY I LABORATORY - Are recommended.
2. BIOL1620 BIOLOGY II (BLS) and BIOL1625 BIOLOGY II LABORATORY - Are recommended after completion of BIOL 1610 & 1615.

AND

Chemistry (10 credits required)

Required prerequisite/corequisite(s) to enroll in the chemistry courses: Math ACT score of at least 25 or equivalent SAT Math score **or** MATH1050 COLLEGE ALGEBRA (QL) or higher (may be taken concurrently).

Complete ALL of the following Courses:

- CHEM1210 - Principles of Chemistry I - 4cr.
  AND CHEM1215 - Chemical Principles Laboratory I - 1cr.
- CHEM1220 - Principles of Chemistry II (BPS) - 4cr.
  AND CHEM1225 - Chemical Principles Laboratory II - 1cr.

AND

Mathematics (2-4 credits) Choose one course

The math requirement in the Pre-Physical Therapy program is required for the physics courses. Thus, any of the following will suffice. However, it is the student's responsibility to determine which math course(s) may be required for the specific Physical Therapy schools they intend to apply to.

Please note that AP Calculus credit is typically not acceptable for many physical therapy schools and/or other medical schools. Check the university catalog or academic advisor to verify prerequisites to enroll in the math course.

Complete at least 1 of the following courses:

- MATH1060 - Trigonometry - 2cr.
- MATH1100 - Calculus Techniques (QL) - 3cr.
- MATH1210 - Calculus I (QL) - 4cr.

AND

Statistics (3-4 credits) Choose one course

Check the university catalog or academic advisor to verify prerequisites to enroll in the statistic course.

Complete at least 1 of the following courses:

- STAT2000 - Statistical Methods (QI) - 4cr.
- STAT2300 - Business Statistics (QL) - 4cr.
- STAT3000 - Statistics for Scientists (QI) - 3cr.

AND

Physics (8 credits required)

MATH1060 TRIGONOMETRY or MATH1100 CALCULUS TECHNIQUES (QL) or MATH1210 CALCULUS I (QL) (only one of the three math required) must be completed before enrolling in PHYS2110 GENERAL PHYS LIFE SCI I and PHYS2120 GENERAL PHYS LIFE SCI II (BPS). Labs are required in the 4 credits for each course.

Earn at least 8 credits from the following:

- PHYS2110 - General Physics—Life Sciences I - 4cr.
- PHYS2120 - General Physics - Life Sciences II (BPS) - 4cr.
- PHYS2210 - Physics for Scientists and Engineers I (QI/BPS) - 4cr.
- PHYS2220 - Physics for Scientists and Engineers II (BPS/QI) - 4cr.

NOTE:

1. PHYS2210 PHYS SCI AND ENGR I (QI)(BPS) and PHYS2220 PHYS SCI AND ENGR II (BPS)(QI) - Are also acceptable, but are generally for math, science, and engineering students.

AND

Psychology (3 credits) Choose one course

PSY1010 GENERAL PSYCHOLOGY (BSS) must be completed first before either course.

Complete at least 1 of the following courses:

- PSY2100 - Developmental Psychology: Adolescence - 3cr.
- PSY2300 - Psychological Disorders - 3cr.

Open Electives (0-3 estimated credits)

Complete the following as needed:
Total elective credit is determined by General Education courses taken, degree type selected, additional credits earned, and any additional math or other prerequisite courses needed. Please consult your Academic Advisor for details.

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Bachelor's Degree)

Suggested Degree Maps

Degree Map Name
Suggested Degree Map - Kinesiology: Pre-Physical Therapy Emphasis BS
Total Degree Map Credits
117 - 127
Degree Map Effective Catalog Year
2027 -

Degree Map Narrative

- Following is a sample four-year plan. Please note that student-specific plans may differ.
- Meet with an academic advisor to create a specific plan that best fits your academic needs.
- The student is ultimately responsible for knowing and completing all degree requirements.
- Make sure you meet the registration requirements for each class by clicking the course link and checking any prerequisites or corequisites.
- Consultation with an advisor may result in an altered plan customized for an individual student.

- Check your Degree Works for requirements and completion.

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	17 - 18	0

Requirement Select
- Communications Literacy (CL1) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Quantitative Literacy (QL) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- KIN2020 - Introduction to Physical Therapy

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select
- Breadth Social Sciences (BSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- USU1010 - University Connections

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select
- Breadth Humanities (BHU) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	11 - 17	0

Requirement Select
- MATH1050 - College Algebra (QL)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2 - 4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- Breadth Creative Arts (BCA) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Breadth American Institutions (BAI) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Breadth Life Sciences (BLS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Breadth Physical Sciences (BPS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	0 - 4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	14 - 16	0

Requirement Select
- KIN3000 - Principles of Health and Fitness

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- BIOL1610 - Biology I
- **AND** BIOL1615 - Biology I Laboratory

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- PSY1010 - General Psychology (BSS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- MATH1060 - Trigonometry
  OR
- MATH1100 - Calculus Techniques (QL)
  OR
- MATH1210 - Calculus I (QL)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2 - 4
Progress Credits	-
Contact Hours	2 - 4
Clinical	-
Criticality	No

Requirement Select
- Communications Literacy (CL2) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	14 - 15	0

Requirement Select

- BIOL2320 - Human Anatomy

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- BIOL1620 - Biology II (BLS)
- **AND** BIOL1625 - Biology II Laboratory

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- Depth Social Sciences (DSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- STAT2000 - Statistical Methods (QI)
  OR
- STAT2300 - Business Statistics (QL)
  OR
- STAT3000 - Statistics for Scientists (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 4
Progress Credits	-
Contact Hours	3 - 4
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Fall	16	0

Requirement Select

- Enroll in 4 credits of KIN 4250. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- BIOL2420 - Human Physiology

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- CHEM1210 - Principles of Chemistry I
- **AND** CHEM1215 - Chemical Principles Laboratory I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	5
Progress Credits	-
Contact Hours	5
Clinical	-
Criticality	No

Requirement Select

- KIN4250 - Advanced Cooperative Work Experience

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	1 - 10
Clinical	-
Criticality	No

Requirement Select

- PSY2100 - Developmental Psychology: Adolescence
  OR
- PSY2300 - Psychological Disorders

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Spring	15	0

Requirement Select

- Note: BIOL 2320 & BIOL 2420 must be completed before enrolling in KIN 3250 and KIN 4100. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- CHEM1220 - Principles of Chemistry II (BPS)
- **AND** CHEM1225 - Chemical Principles Laboratory II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	5
Progress Credits	-
Contact Hours	5
Clinical	-
Criticality	No

Requirement Select

- KIN4100 - Exercise Physiology

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- KIN3250 - Anatomical Kinesiology

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Communications Intensive (CI) Courses

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Fall	14	0

Requirement Select

- Note: KIN 4100 must be completed before enrolling in KIN 5100. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- PHYS2110 - General Physics—Life Sciences I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- Depth Humanities and Creative Arts (DHA) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- KIN3100 - Athletic Injuries

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- KIN5100 - Fitness Assessment and Exercise Programs

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Spring	16	0

Requirement Select
- KIN4200 - Biomechanics (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- PHYS2120 - General Physics - Life Sciences II (BPS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- GECI - COMM INTENSIVE

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Elective (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- KIN4400 - Measurement and Evaluation in Kinesiology (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Total General Education Credits	Total Major Credits
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Program Learning Outcomes

Program Learning Outcomes
https://cehs.usu.edu/khs/assessment

Landscape Architecture - Minor

Program Overview

College
College of Agriculture & Natural Resources

Department
Landscape Architecture & Environmental Planning

Program Level
Undergraduate

About this Degree
The Landscape Architecture Minor helps students better understand the form and function of natural, cultural, and built environments. Students from all disciplines will find compelling connections to their own interests as they become more familiar with how landscapes emerge and evolve. With a solid introduction to landscape architecture history, environmental systems, and design analysis, students gain an appreciation for the many dimensions of the landscape architecture field.

Program Requirements

Total Credits Required In Program Coursework
18

Total Credits Required To Earn This Credential
18

Simple Requisites

Program Requirements

- Courses may not count in more than one of the categories.
- All existing course pre-requisites apply.
- A minimum overall GPA of 3.0 is required in LAEP-prefix courses, with no individual LAEP-prefix course grade less than a C-. No pass/fail grades are accepted to fulfill LAEP-prefix courses. A minimum USU overall GPA of 2.5 is required for all other courses used to fulfill minor requirements.

Section 1

Type
Completion Requirement

Professional Foundations (6 credits)

Complete ALL of the following Courses:

- LAEP2300 - History of Landscape Architecture (BHU) - 3cr.
- CIVC1610 - Design Thinking (BCA) - 3cr.

Section 2

Type
Completion Requirement

Skills Foundation (6 credits minimum)

Earn at least 6 credits from the following:

- LAEP1200 - Introduction to Graphics and Illustration - 4cr.
- LAEP1300 - Digital Drafting, Illustration, and Modeling - 3cr.
- LAEP1350 - Theory of Design - 4cr.
- LAEP2039 - Foundations of Sustainable Systems - 3cr.
- LAEP2700 - Analysis Design I - 5cr.

Section 2

Type
Completion Requirement

Advanced Skills (2 credits minimum)

Earn at least 2 credits from the following:

- LAEP2500 - Construction Materials and Detailing - 4cr.
- LAEP2510 - Landscape Materials - 2cr.
- LAEP2600 - Landscape Construction I (QI) - 4cr.
- LAEP2720 - Analysis and Design 2 - 5cr.
- LAEP5370 - City and Regional Planning (CI) - 3cr.

Section 3

Type
Completion Requirement

Natural Systems (3 credits minimum)

Earn at least 3 credits from the following:

- ENVS1350 - Introduction to Environmental Science (BLS) - 3cr.
- ENVS2340 - Environment, Natural Resources, and Society (BSS) - 3cr.
- LAEP1040 - Introduction to Environmental Planning and Sustainable Development (BLS) - 3cr.
- PHIL3530 - Environmental Ethics (DHA) - 3cr.
- PSC2620 - Woody Plant Materials: Trees and Shrubs for the Landscape - 3cr.
- WILD2200 - Ecology of Our Changing World (BLS) - 3cr.

Program Learning Outcomes

Program Learning Outcomes
https://caas.usu.edu/laep/assessment/

Landscape Architecture - BLA

Program Overview

College
College of Agriculture & Natural Resources

Department
Landscape Architecture & Environmental Planning

Program Level
Undergraduate

About this Degree
Landscape architecture is the design of built and natural spaces to achieve environmental, socio-behavioral, and aesthetic outcomes. USU's landscape architecture program is the 13th oldest landscape architecture program in the United States and is accredited by the American Society of Landscape Architects.

- For more information about Landscape Architecture, see the website.
- Admitted and current students must meet with an advisor.
- Log on to Degree Works to check student-specific program progress.
- Please note that LAEP students have specific computer requirements.
- The highest math requirement for this degree is MATH1050 COLLEGE ALGEBRA (QL) or any Quantitative Literacy (QL) course.

Admission Requirements for this Program
- New freshmen: Admitted to USU in Good Standing
- Transfer students from other institutions or other programs at USU: 2.5 GPA

Undergraduate students must matriculate (be accepted) to the program at the end of their sophomore year, in order to move on to the subsequent program years.

Students pursuing the Landscape Architecture degree need to apply to matriculate by the last Monday in March at the end of a student's sophomore year. An average of up to 30 students are accepted to the program per year. Matriculation is based on performance in LAEP1200 INTRO GRAPHIC AND ILLUSTRATION, LAEP1300 DIGITAL DRAFTING, ILLUS, MODEL, LAEP1350 THEORY OF DESIGN, LAEP2300 HIST LANDSCAPE ARCHITECT (BHU), LAEP2500 CONSTRUCTION MATERIALS, LAEP2600 LANDSCAPE CONSTRUCTION I (QI), LAEP2700 ANALYSIS DESIGN I, LAEP2720 ANALYSIS AND DESIGN 2, and PSC2620 WOODY PLANT MATERIALS, a portfolio of work from those courses, and a statement of intent. A 3.0 LAEP GPA is required, with no grade lower than C- in any course required for matriculation. Matriculation Portfolios are due the last Monday in March. Learn more about the matriculation application process at https://qanr.usu.edu/laep/undergraduate/matriculation.

Please note that LAEP students have specific computer requirements.

Program Requirements

Total Credits Required In Program Coursework
90

Total Credits Required To Earn This Credential
120

Simple Requisites

Program Requirements

A minimum GPA of 3.0 is required in LAEP-prefix courses, with no individual LAEP-prefix course grade less than a C-. No pass/fail grades are accepted to fulfill LAEP-prefix courses. A minimum GPA of 2.5 is required for all other courses used to fulfill major requirements.

Once matriculated, an overall minimum GPA of 3.0 is required to maintain good standing.

Landscape Architecture - BLA Course Requirements

Type
Completion Requirement

LAEP Courses Required for Matriculation (35 credits)

Complete ALL of the following Courses:

- LAEP1200 - Introduction to Graphics and Illustration - 4cr.
- LAEP1300 - Digital Drafting, Illustration, and Modeling - 3cr.
- LAEP1350 - Theory of Design - 4cr.
- LAEP2300 - History of Landscape Architecture (BHU) - 3cr.
- LAEP2500 - Construction Materials and Detailing - 4cr.
- LAEP2600 - Landscape Construction I (QI) - 4cr.
- LAEP2700 - Analysis Design I - 5cr.
- LAEP2720 - Analysis and Design 2 - 5cr.
- PSC2620 - Woody Plant Materials: Trees and Shrubs for the Landscape - 3cr.

BLA Courses (44 credits)

Complete ALL of the following Courses:

- LAEP2200 - AutoCAD for Environmental Design - 3cr.
- LAEP2400 - 3D Representation - 3cr.
- LAEP3500 - Planting Design - 4cr.
- LAEP4110 - Landscape Construction II - 4cr.
- LAEP4910 - Foundations of Business in Design and Planning (CI) - 3cr.
- LAEP5310 - Recreation and Open Space Planning and Design - 5cr.
- LAEP5320 - Land Planning for Residential Development - 5cr.
- LAEP5370 - City and Regional Planning (CI) - 3cr.
  OR LAEP5060 - E Studio/Entrepreneurship in Planning and Design (CI) - 3cr.
- LAEP5410 - Urban Theory, Systems, and Design - 5cr.
- LAEP5100 - Senior Capstone: Planning & Design Leadership - 5cr.
- LAEP5300 - GIS for Environmental Planning - 4cr.

Study Abroad Requirement (2 credits)

In addition to travel within studios, the Bachelor of Landscape Architecture degree requires students to complete at least one study abroad experience sanctioned by the department during the Spring semester following matriculation (generally the Junior year). Three options are available to students: Semester-long Study Abroad, Individual Study Abroad Experience, and Faculty-led Study Abroad. Students are strongly encouraged to participate in faculty-led study abroad experiences

The faculty-led study abroad course occurs over spring break. Costs associated with the study abroad course vary, and students will be informed of their financial responsibility associated with the trip in a timely manner. **Students are individually responsible for finding and purchasing their own airfare to and from the destination.**

These study abroad experiences are planned well in advance, and require advance planning on the part of students. A significant course fee is associated with faculty led study abroad which covers shared expenses such as lodging, local transportation, and venue entry. In addition, students are responsible for and will need to plan for the cost of travel to and from the destination, meals during the trips, as well as souvenirs and any costs associated with personal care and toiletries, all of which are not included in the course fee. International travel requires legal documentation (i.e., a U.S. Passport), which is also the responsibility of the student. Passport applications should be processed the Fall semester before planned travel to study abroad.

Travel Course Requirement must be completed during the Spring semester following matriculation.

Learn more at https://caas.usu.edu/laep/undergraduate/study-abroad-requirements.

Complete ALL of the following Courses:

- LAEP5550 - Travel Course - 2cr.

Required Courses for BLA Majors that will Fulfill General Education Requirements (30 credits)

University General Education requirements must be met in the following areas:

Complete at least 1 course in the following course sets:

- Quantitative Literacy (QL) Course
- Breadth Creative Arts (BCA) Course
- Breadth American Institutions (BAI) Course
- Breadth Physical Sciences (BPS) Course
- Breadth Social Sciences (BSS) Course

University General Education course options

Additionally, the following courses are required to meet BLA requirements and also will fulfill General Education requirements, beyond those met through BLA core coursework.

Complete ALL of the following Courses:

- ENGL1010 - Writing as Inquiry (CL1) - 3cr.
- ENGL2010 - Research and Argument Across Perspectives (CL2) - 3cr.
- LAEP1040 - Introduction to Environmental Planning and Sustainable Development (BLS) - 3cr.
  OR WILD2200 - Ecology of Our Changing World (BLS) - 3cr.
- GEO3000 - Epic Earth - Geoscience of National Parks (DSC) - 3cr.
  OR GEO3100 - Natural Disasters (DSC) - 3cr.
  OR PSC3100 - Soils and Civilization (DSC) - 3cr.
  OR ENVS3600 - Living with Wildlife (DSC) - 3cr.
  OR PSC5760 - Climate and Climate Change (DSC)(QI) - 3cr.
- SOC3610 - Rural People and Places (DSS) - 3cr.
  OR SOC4620 - Sociology of the Environment and Natural Resources (DSS) - 3cr.
  OR ANTH5650 - Developing Societies (DSS) - 3cr.
  OR ENVS4000 - Human Dimensions of Natural Resource Management (DSS) - 3cr.
  OR POLS4820 - Natural Resources and Environmental Policy: Political Economy of Environmental Quality (DSS) - 3cr.

Elective Courses (9 credits)

Elective courses:
In addition to the core coursework required to meet accreditation standards for professional skills and competency to practice Landscape Architecture, the degree program is structured to provide students with opportunities to differentiate themselves in the professional marketplace according to their interests and aptitudes. Students seeking a Bachelor of Landscape Architecture degree should complete a Certificate or Minor in:

- Advanced Design, Geospatial, and Visualization Technologies
- Design Entrepreneurship
- Digital Modeling and Visualization
- Environmental Planning
- Sustainable Systems – Minor

These Certificates of Proficiency may be completed within the 120 credit requirement for the degree. Students seeking an alternate certificate should consult with their Academic Advisor to declare a

certificate and make a plan to complete all degree requirements (general education, core coursework, certificate) without extending beyond the 120 credits required to earn the Bachelor of Landscape Architecture degree.

Additional Comments:

Licensure Notification

This program typically leads to licensure and is accredited by the Landscape Architectural Accreditation Board (LAAB) to meet the educational requirements for licensure in the United States and its territories. USU has not determined if the program curriculum meets all the licensure requirements for individual jurisdictions, as each sets its own requirements for licensure and may have additional requirements such as a supervised employment period. Students wishing to work within the United States should review the qualifications for their intended jurisdiction, and complete the LARE exam for that state or territory. For more information, please visit www.clarb.org/home/about-clarb.

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Bachelor's Degree)

Suggested Degree Maps

Degree Map Name
Suggested Degree Map - Landscape Architecture BLA
Total Degree Map Credits
121 - 131
Degree Map Effective Catalog Year
2027 -

Degree Map Narrative

- Following is a sample four-year plan. Please note that student-specific plans may differ.
- Meet with an academic advisor to create a specific plan that best fits your academic needs.
- The student is ultimately responsible for knowing and completing all degree requirements.
- Make sure you meet the registration requirements for each class by clicking the course link and checking any prerequisites or corequisites.
- Consultation with an advisor may result in an altered plan customized for an individual student.
- Check your Degree Works for requirements and completion.

Students pursuing the Landscape Architecture degree need to apply to matriculate by the last Monday in March at the end of a student's sophomore year. Learn more about the matriculation application process at https://caas.usu.edu/laep/undergraduate/matriculation.

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	16 - 17	0

Requirement Select
- ENGL1010 - Writing as Inquiry (CL1)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- LAEP1200 - Introduction to Graphics and Illustration

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- PSC2620 - Woody Plant Materials: Trees and Shrubs for the Landscape

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Quantitative Literacy (QL) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Breadth Creative Arts (BCA) Course

Course Requirement Group	
Course Requirement Group (Free Text)	CIVC 1610 Design Thinking (BCA) recommended
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	13 - 17	0

Requirement Select

- ENGL2010 - Research and Argument Across Perspectives (CL2)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- LAEP1300 - Digital Drafting, Illustration, and Modeling

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- LAEP1350 - Theory of Design

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- Breadth American Institutions (BAI) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Breadth Physical Sciences (BPS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	0 - 4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- APEC1600 is recommended to fulfill the BAI requirement; PSC2010 is recommended to fulfill the BPS requirement (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	15 - 16	0

Requirement Select

- LAEP1040 - Introduction to Environmental Planning and Sustainable Development (BLS)

  OR

- WILD2200 - Ecology of Our Changing World (BLS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- LAEP2600 - Landscape Construction I (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- LAEP2700 - Analysis Design I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	5
Progress Credits	-
Contact Hours	5
Clinical	-
Criticality	No

Requirement Select
- Breadth Social Sciences (BSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- ENVS2340 or APEC 2010 are recommended to fulfill the BSS requirement (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	16 - 20	0

Requirement Select
- LAEP2300 - History of Landscape Architecture (BHU)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- LAEP2500 - Construction Materials and Detailing

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- LAEP2720 - Analysis and Design 2

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	5
Progress Credits	-
Contact Hours	5
Clinical	-
Criticality	No

Requirement Select
- LAEP4900 - Special Problems

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1 - 5
Progress Credits	-
Contact Hours	1 - 5
Clinical	-
Criticality	No

Requirement Select

- LAEP2200 - AutoCAD for Environmental Design

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Fall	15	0

Requirement Select

- LAEP2400 - 3D Representation

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- LAEP3500 - Planting Design

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- LAEP5320 - Land Planning for Residential Development

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	5
Progress Credits	-
Contact Hours	5
Clinical	-
Criticality	No

Requirement Select

- Elective (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Spring	17	0

Requirement Select

- LAEP4110 - Landscape Construction II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- LAEP5310 - Recreation and Open Space Planning and Design

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	5
Progress Credits	-
Contact Hours	5
Clinical	-
Criticality	No

Requirement Select

- LAEP4910 - Foundations of Business in Design and Planning (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- LAEP5550 - Travel Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select

- Elective (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Fall	15	0

Requirement Select

- LAEP5410 - Urban Theory, Systems, and Design

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	5
Progress Credits	-
Contact Hours	5
Clinical	-
Criticality	No

Requirement Select

- LAEP5300 - GIS for Environmental Planning

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- LAEP5370 - City and Regional Planning (CI)
  OR
- LAEP5060 - E Studio/Entrepreneurship in Planning and Design (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- GEO3000 - Epic Earth - Geoscience of National Parks (DSC)
  OR
- GEO3100 - Natural Disasters (DSC)
  OR
- PSC3100 - Soils and Civilization (DSC)
  OR
- ENVS3600 - Living with Wildlife (DSC)
  OR
- PSC5760 - Climate and Climate Change (DSC)(QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Spring	14	0

Requirement Select

- LAEP5100 - Senior Capstone: Planning & Design Leadership

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	5
Progress Credits	-
Contact Hours	5
Clinical	-
Criticality	No

Requirement Select

- LAEP5060 - E Studio/Entrepreneurship in Planning and Design (CI)
  OR
- LAEP5370 - City and Regional Planning (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- SOC3610 - Rural People and Places (DSS)
  OR
- SOC4620 - Sociology of the Environment and Natural Resources (DSS)
  OR
- ANTH5650 - Developing Societies (DSS)
  OR
- ENVS4000 - Human Dimensions of Natural Resource Management (DSS)
  OR
- POLS4820 - Natural Resources and Environmental Policy: Political Economy of Environmental Quality (DSS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Elective Course (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Program Learning Outcomes

Program Learning Outcomes

https://www.usu.edu/oda/assessment/

Accelerated Master of Landscape Architecture - BLA, MLA

Program Overview

College
College of Agriculture & Natural Resources

Department
Landscape Architecture & Environmental Planning

Program Level
Graduate

About this Degree

The accelerated Bachelor of Landscape Architecture and Master of Landscape Architecture (BLA+MLA) program allows advanced Landscape Architecture and Environmental Planning (LAEP) undergraduates the opportunity to pursue a combined bachelor's and master's degree program within an accelerated time frame.

The mission of the accelerated BLA+MLA program is to prepare future professionals to address the dynamic issues and scales of landscapes across the Intermountain West and around the world and engage in creative intellectual work that contributes to the theory and practice of landscape architecture.

- For more information about Landscape Architecture, see the website.
- Please consult the LAEP undergraduate advisor, and the LAEP Graduate Program Coordinator if interested in pursuing this dual degree.
- Admitted and current students must meet with an advisor.
- Log on to Degree Works to check student-specific program progress.
- The highest math requirement for this degree is MATH1050 COLLEGE ALGEBRA (QL)

Admission Requirements for this Program

Undergraduate students must matriculate (be accepted) to the program at the end of their sophomore year. Please contact the LAEP Department at (435) 797-0500 for more information.

Matriculated landscape architecture undergraduate students will apply for this accelerated B+MLA program by March 15th of their Junior year.

Program Requirements

Total Credits Required In Program Coursework
120

Total Credits Required To Earn This Credential
120

Simple Requisites

Program Requirements

A minimum overall GPA of 3.0 is required in LAEP-prefix courses, with no individual LAEP-prefix course grade less than a C-. No pass/fail grades are accepted to fulfill LAEP-prefix courses. A minimum USU overall GPA of 2.5 is required for all other courses used to fulfill major requirements.

Course Number Acceptability

Credits in the following areas are not acceptable in a graduate degree program: foreign languages (unless included in an approved Program of Study), continuing graduate advisement, individual home study, military science, and courses numbered below 5000.

A master's degree must be completed within six years of entering the degree program. Additional time may be requested by the student's committee and submitted to the Vice Provost of Graduate Studies for review.

At least 30-semester graduate credits for a master's degree must be from a committee-approved and a School of Graduate Studies-approved Program of Study from Utah State University.

Accelerated Master of Landscape Architecture - BLA, MLA Course Requirements

Type
Completion Requirement

University General Education course options

Additionally, the following courses are required to meet BLA requirements and also will fulfill General Education requirements, beyond those met through BLA core coursework.

Complete ALL of the following Courses:

- ENGL1010 - Writing as Inquiry (CL1) - 3cr.
- ENGL2010 - Research and Argument Across Perspectives (CL2) - 3cr.
- GEO3100 - Natural Disasters (DSC) - 3cr.
  OR GEO3000 - Epic Earth - Geoscience of National Parks (DSC) - 3cr.
  OR PSC3100 - Soils and Civilization (DSC) - 3cr.
  OR ENVS3600 - Living with Wildlife (DSC) - 3cr.
  OR PSC5760 - Climate and Climate Change (DSC)(QI) - 3cr.
- SOC3610 - Rural People and Places (DSS) - 3cr.
  OR SOC4620 - Sociology of the Environment and Natural Resources (DSS) - 3cr.
  OR ANTH5650 - Developing Societies (DSS) - 3cr.
  OR ENVS4000 - Human Dimensions of Natural Resource Management (DSS) - 3cr.
  OR POLS4820 - Natural Resources and Environmental Policy: Political Economy of Environmental Quality (DSS) - 3cr.
- LAEP1040 - Introduction to Environmental Planning and Sustainable Development (BLS) - 3cr.
  OR WILD2200 - Ecology of Our Changing World (BLS) - 3cr.

LAEP Courses Required for Matriculation (35 credits)

Students must matriculate (be accepted) to the BLA program. Matriculation is based on performance in the following courses and submission of a design portfolio and letter of intent. Learn more at laep.usu.edu/students/how-to-apply.

Complete ALL of the following Courses:

- LAEP1200 - Introduction to Graphics and Illustration - 4cr.
- LAEP1300 - Digital Drafting, Illustration, and Modeling - 3cr.
- LAEP1350 - Theory of Design - 4cr.
- LAEP2300 - History of Landscape Architecture (BHU) - 3cr.
- LAEP2500 - Construction Materials and Detailing - 4cr.
- LAEP2600 - Landscape Construction I (QI) - 4cr.
- LAEP2700 - Analysis Design I - 5cr.
- LAEP2720 - Analysis and Design 2 - 5cr.
- PSC2620 - Woody Plant Materials: Trees and Shrubs for the Landscape - 3cr.

BLA Courses (43 credits)

The following courses are required for the BLA undergraduate portion of the degree.

Complete ALL of the following Courses:

- LAEP2200 - AutoCAD for Environmental Design - 3cr.
- LAEP2400 - 3D Representation - 3cr.
- LAEP5310 - Recreation and Open Space Planning and Design - 5cr.
- LAEP5320 - Land Planning for Residential Development - 5cr.

- LAEP5300 - GIS for Environmental Planning - 4cr.
- LAEP3500 - Planting Design - 4cr.
- LAEP5410 - Urban Theory, Systems, and Design - 5cr.
- LAEP4110 - Landscape Construction II - 4cr.
- LAEP5100 - Senior Capstone: Planning & Design Leadership - 5cr.
- LAEP5550 - Travel Course - 2cr.
- LAEP4910 - Foundations of Business in Design and Planning (CI) - 3cr.

Undergraduate Electives (9 credits)

Complete the following as needed:
Total undergraduate elective credit is determined by General Education courses taken, degree type selected, additional credits earned, and any additional math or other prerequisite courses needed. Students seeking an accelerated degree program are not required to complete a Certificate of Proficiency or Minor. Please consult your Academic Advisor for details.

Theory Graduate Courses (9 credits)

Complete ALL of the following Courses:

- LAEP6740 - Planning Theory and Implementation Issues - 3cr.
- LAEP6750 - Implementation and Regulatory Techniques in Planning - 3cr.
- LAEP6860 - Faculty/Interdisciplinary Seminar I - 1cr.
- LAEP6910 - Readings in Landscape Architecture - 1cr.
- LAEP6930 - Readings in Environmental Planning - 1cr.

Thesis Courses (8 credits)

To be accepted into the combined BLA+MLA program, students must apply for the Master's of Landscape Architecture Degree via applynow.usu.edu during their junior year. If accepted, they begin taking graduate-level courses during their senior year. Students only pay graduate-level tuition during their fifth year of study. Learn more on the LAEP website.

A Plan A thesis or Plan B paper/project option is required and is to be negotiated with the candidate, major professor, and supervisory committee. Every graduate student is required to complete 2 credits of LAEP6970 THESIS RESEARCH, and an additional 3 credits of LAEP6970 THESIS RESEARCH **or** 3 credits in LAEP6960 MASTER'S PROJECT, depending on plan type.

Complete ALL of the following Courses:

- LAEP6880 - Landscape Architecture Research Methods - 2cr.
- LAEP6890 - Seminar on Thesis Proposals and Procedures - 1cr.
- LAEP6970 - Thesis Research - 1cr.

all students are required to complete 2 credits of LAEP6970 THESIS RESEARCH

Plan-specific Thesis Requirements

Fulfill ANY of the following requirements:

Plan A

Earn at least 3 credits from the following:

- LAEP6970 - Thesis Research - 1cr.

Plan A students required to complete 3 additional credits

OR

Plan B

Earn at least 3 credits from the following:

- LAEP6960 - Master's Project - 1cr.

Plan B students required to complete 3 additional credits

Graduate Design Courses (11 credits)

Complete ALL of the following Courses:

- LAEP6060 - E Studio / Entrepreneurship in Planning and Design (CI) - 3cr.
- LAEP6110 - Landscape Ecology for Planning - 3cr.
- LAEP6200 - Bioregional Analysis and Planning - 5cr.

Graduate Electives (11 credits)

Complete the following as needed:
Elective courses must be 5000 level or higher. Students should consult their major professor when selecting elective courses.

Required Courses for BLA Majors that will Fulfill General Education Requirements (30 credits)

University General Education requirements must be met in the following areas:

Complete at least 1 course in the following course sets:

- Quantitative Literacy (QL) Course
- Breadth Creative Arts (BCA) Course
- Breadth American Institutions (BAI) Course
- Breadth Physical Sciences (BPS) Course
- Breadth Social Sciences (BSS) Course

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Bachelor's Degree)

Suggested Degree Maps

Degree Map Name
Suggested Degree Map - Accelerated Master of Landscape Architecture - BLA, MLA
Total Degree Map Credits
154
Degree Map Effective Catalog Year
2027 -

Degree Map Narrative

- Following is a sample four-year plan. Please note that student-specific plans may differ.
- Meet with an academic advisor to create a specific plan that best fits your academic needs.
- The student is ultimately responsible for knowing and completing all degree requirements.
- Make sure you meet the registration requirements for each class by clicking the course link and checking any prerequisites or corequisites.
- Consultation with an advisor may result in an altered plan customized for an individual student.
- Check your Degree Works for requirements and completion.

Apply for matriculation to the BLA program spring semester of second year. Applications are due the last Monday in March.

Apply to the Accelerated Master of Landscape Architecture B+MLA by March 15th of third year.

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	16	0

Requirement Select

- LAEP1200 - Introduction to Graphics and Illustration

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- PSC2620 - Woody Plant Materials: Trees and Shrubs for the Landscape

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- ENGL1010 - Writing as Inquiry (CL1)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Quantitative Literacy (QL) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- CIVC1610 - Design Thinking (BCA)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	16	0

Requirement Select

- LAEP1350 - Theory of Design

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- LAEP1300 - Digital Drafting, Illustration, and Modeling

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- ENGL2010 - Research and Argument Across Perspectives (CL2)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- PSC2010 is recommended to fulfill the BAI requirement; APEC1600 is recommended to fulfill the BPS requirement (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	15	0

Requirement Select

- LAEP1040 - Introduction to Environmental Planning and Sustainable Development (BLS)
  OR
- WILD2200 - Ecology of Our Changing World (BLS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- LAEP2600 - Landscape Construction I (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- LAEP2700 - Analysis Design I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	5
Progress Credits	-
Contact Hours	5
Clinical	-
Criticality	No

Requirement Select

- APEC2010 or ENVS2340 is recommended to fulfill the BSS requirement (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	15	0

Requirement Select

- LAEP2720 - Analysis and Design 2

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	5
Progress Credits	-
Contact Hours	5
Clinical	-
Criticality	No

Requirement Select

- LAEP2300 - History of Landscape Architecture (BHU)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- LAEP2500 - Construction Materials and Detailing

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- LAEP2200 - AutoCAD for Environmental Design

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Fall	15	0

Requirement Select

- LAEP5320 - Land Planning for Residential Development

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	5
Progress Credits	-
Contact Hours	5
Clinical	-
Criticality	No

Requirement Select

- LAEP3500 - Planting Design

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- LAEP2400 - 3D Representation

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- General Elective course (3 credits) (see suggested electives listed above) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Spring	17	0

Requirement Select

- LAEP4110 - Landscape Construction II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- LAEP4910 - Foundations of Business in Design and Planning (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- LAEP5310 - Recreation and Open Space Planning and Design

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	5
Progress Credits	-
Contact Hours	5
Clinical	-
Criticality	No

Requirement Select
- LAEP5550 - Travel Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select
- General Elective course (3 credits) (see suggested electives listed above) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Fall	15	0

Requirement Select
- LAEP5300 - GIS for Environmental Planning

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- LAEP5410 - Urban Theory, Systems, and Design

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	5
Progress Credits	-
Contact Hours	5
Clinical	-
Criticality	No

Requirement Select
- LAEP6860 - Faculty/Interdisciplinary Seminar I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- LAEP6890 - Seminar on Thesis Proposals and Procedures

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- LAEP6930 - Readings in Environmental Planning

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- GEO3000 - Epic Earth - Geoscience of National Parks (DSC)
  OR
- GEO3100 - Natural Disasters (DSC)
  OR
- PSC3100 - Soils and Civilization (DSC)
  OR
- ENVS3600 - Living with Wildlife (DSC)
  OR
- PSC5760 - Climate and Climate Change (DSC)(QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits

Year 4	Spring	14	0

Requirement Select
- LAEP5100 - Senior Capstone: Planning & Design Leadership

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	5
Progress Credits	-
Contact Hours	5
Clinical	-
Criticality	No

Requirement Select
- LAEP6880 - Landscape Architecture Research Methods

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select
- LAEP6750 - Implementation and Regulatory Techniques in Planning

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- LAEP6910 - Readings in Landscape Architecture

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- SOC3610 - Rural People and Places (DSS)
  OR
- SOC4620 - Sociology of the Environment and Natural Resources (DSS)
  OR
- ANTH5650 - Developing Societies (DSS)
  OR
- ENVS4000 - Human Dimensions of Natural Resource Management (DSS)
  OR
- POLS4820 - Natural Resources and Environmental Policy: Political Economy of Environmental Quality (DSS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 5	Fall	16	0

Requirement Select
- LAEP6200 - Bioregional Analysis and Planning

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	5
Progress Credits	-
Contact Hours	5
Clinical	-
Criticality	No

Requirement Select
- LAEP6740 - Planning Theory and Implementation Issues

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- LAEP6110 - Landscape Ecology for Planning

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- LAEP6970 - Thesis Research

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	1 - 6
Clinical	-
Criticality	No

Requirement Select

- Elective (3 credits) must be 5000 level or higher (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- 2 credits are required in LAEP6970 (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 5	Spring	15	0

Requirement Select

- LAEP6970 - Thesis Research
  OR
- LAEP6960 - Master's Project

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	1 - 6
Clinical	-
Criticality	No

Requirement Select

- LAEP6060 - E Studio / Entrepreneurship in Planning and Design (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Electives (8 credits) must be 5000 level or higher (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	8
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- 3 credits of LAEP6970 are required for Plan A students; 3 credits of LAEP6960 are required for Plan B students; (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	Total Major Credits
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Program Learning Outcomes

Program Learning Outcomes
https://www.usu.edu/oda/assessment/

Accelerated Bachelor of Landscape Architecture and Master of Science in Environmental Planning - BLA, MsEP

Program Overview

College
College of Agriculture & Natural Resources

Department
Landscape Architecture & Environmental Planning

Program Level
Graduate

About this Degree

The accelerated Bachelor of Landscape Architecture and Master of Science in Environmental Planning (BLA+EP) program allows advanced Landscape Architecture and Environmental Planning (LAEP) undergraduates the opportunity to pursue a combined bachelor's and master's degree program within an accelerated time frame.

The accelerated BLA+EP program prepares future professionals to recognize the reciprocal relationship between the biophysical attributes of a region and the human dimensions of settlement and culture; build expertise in landscape level analysis and planning, and prepare to serve as leaders within a transdisciplinary environment to develop better alternatives for land-use decisions and policy. The accelerated program is comprised of a core set of undergraduate landscape architecture and graduate environmental planning courses and experiences.

- For more information about Landscape Architecture, see the website.
- Admitted and current students must meet with an advisor.
- Log on to Degree Works to check student-specific program progress.
- The highest math requirement for this degree is MATH1050 COLLEGE ALGEBRA (QL)

Admission Requirements for this Program

Undergraduate students must matriculate (be accepted) to the program at the end of their sophomore year. Please contact the LAEP Department at (435) 797-0500 for more information.

Matriculated landscape architecture undergraduate students will apply for this accelerated BLA+EP program by March 15th of their Junior year.

Program Requirements

Total Credits Required In Program Coursework
120

Total Credits Required To Earn This Credential
120

Simple Requisites

Program Requirements

A minimum overall GPA of 3.0 is required in LAEP-prefix courses, with no individual LAEP-prefix course grade less than a C-. No pass/fail grades are accepted to fulfill LAEP-prefix courses. A minimum USU overall GPA of 2.5 is required for all other courses used to fulfill major requirements.

Course Number Acceptability

Credits in the following areas are not acceptable in a graduate degree program: foreign languages (unless included in an approved Program of Study), continuing graduate advisement, individual home study, military science, and courses numbered below 5000.

A master's degree must be completed within six years of entering the degree program. Additional time may be requested by the student's committee and submitted to the Vice Provost of Graduate Studies for review.

At least 30-semester graduate credits for a master's degree must be from a committee-approved and a School of Graduate Studies-approved Program of Study from Utah State University.

Accelerated Bachelor of Landscape Architecture and Master of Science in Environmental Planning - BLA, MsEP Course Requirements

Type
Completion Requirement

University General Education course options

Additionally, the following courses are required to meet BLA requirements and also will fulfill General Education requirements, beyond those met through BLA core coursework.

Complete ALL of the following Courses:

- ENGL1010 - Writing as Inquiry (CL1) - 3cr.
- ENGL2010 - Research and Argument Across Perspectives (CL2) - 3cr.
- GEO3100 - Natural Disasters (DSC) - 3cr.
  OR GEO3000 - Epic Earth - Geoscience of National Parks (DSC) - 3cr.
  OR PSC3100 - Soils and Civilization (DSC) - 3cr.
  OR ENVS3600 - Living with Wildlife (DSC) - 3cr.
  OR PSC5760 - Climate and Climate Change (DSC)(QI) - 3cr.
- SOC3610 - Rural People and Places (DSS) - 3cr.
  OR SOC4620 - Sociology of the Environment and Natural Resources (DSS) - 3cr.
  OR ANTH5650 - Developing Societies (DSS) - 3cr.
  OR ENVS4000 - Human Dimensions of Natural Resource Management (DSS) - 3cr.
  OR POLS4820 - Natural Resources and Environmental Policy: Political Economy of Environmental Quality (DSS) - 3cr.
- LAEP1040 - Introduction to Environmental Planning and Sustainable Development (BLS) - 3cr.
  OR WILD2200 - Ecology of Our Changing World (BLS) - 3cr.

LAEP Courses Required for Matriculation (35 credits)

Students must matriculate (be accepted) to the BLA program. Matriculation is based on performance in the following courses and submission of a design portfolio and letter of intent. Learn more at laep.usu.edu/students/how-to-apply.

Complete ALL of the following Courses:

- LAEP1200 - Introduction to Graphics and Illustration - 4cr.
- LAEP1300 - Digital Drafting, Illustration, and Modeling - 3cr.
- LAEP1350 - Theory of Design - 4cr.
- LAEP2300 - History of Landscape Architecture (BHU) - 3cr.
- LAEP2500 - Construction Materials and Detailing - 4cr.
- LAEP2600 - Landscape Construction I (QI) - 4cr.
- LAEP2700 - Analysis Design I - 5cr.
- LAEP2720 - Analysis and Design 2 - 5cr.
- PSC2620 - Woody Plant Materials: Trees and Shrubs for the Landscape - 3cr.

BLA Courses (42 credits)

The following courses are required for the BLA undergraduate portion of the degree:

Complete ALL of the following Courses:

- LAEP2200 - AutoCAD for Environmental Design - 3cr.
- LAEP2400 - 3D Representation - 3cr.
- LAEP3500 - Planting Design - 4cr.
- LAEP4110 - Landscape Construction II - 4cr.
- LAEP4910 - Foundations of Business in Design and Planning (CI) - 3cr.
- LAEP5300 - GIS for Environmental Planning - 4cr.
- LAEP5310 - Recreation and Open Space Planning and Design - 5cr.
- LAEP5320 - Land Planning for Residential Development - 5cr.
- LAEP5400 - Advanced Geospatial Analysis and Visualization for Environmental Planning - 4cr.
- LAEP5410 - Urban Theory, Systems, and Design - 5cr.
- LAEP5550 - Travel Course - 2cr.

Undergraduate Electives (9 credits)

Complete the following as needed:
Total undergraduate elective credit is determined by General Education courses taken, degree type selected, additional credits earned, and any additional math or other prerequisite courses needed. Students seeking an accelerated degree program are not required to complete a Certificate of Proficiency or Minor. Please consult your Academic Advisor for details.

Theory Graduate Courses (8 credits)

Complete ALL of the following Courses:

- LAEP6740 - Planning Theory and Implementation Issues - 3cr.
- LAEP6750 - Implementation and Regulatory Techniques in Planning - 3cr.
- LAEP6910 - Readings in Landscape Architecture - 1cr.
- LAEP6930 - Readings in Environmental Planning - 1cr.

Thesis Courses (8 credits)

To be accepted into the combined BLA+EP program, students must apply to the Environmental Planning Master's Degree via applynow.usu.edu during their junior year. If accepted, they begin taking graduate level courses during their senior year. Students only pay graduate level tuition during their fifth year of study. Learn more at https://caas.usu.edu/degrees/laep/accelerated/bla-msep.

A Plan A thesis or Plan B paper/project option is required and is to be negotiated with the candidate, major professor, and supervisory committee. Students will then either complete 3 credits of LAEP6970 THESIS RESEARCH or 3 credits in LAEP6960 MASTER'S PROJECT, depending on the student's plan type.

Complete ALL of the following Courses:

- LAEP6880 - Landscape Architecture Research Methods - 2cr.
- LAEP6890 - Seminar on Thesis Proposals and Procedures - 1cr.
- LAEP6970 - Thesis Research - 1cr.

all students must complete 2 credits of LAEP6970 THESIS RESEARCH

Plan-Specific Thesis Requirements

Fulfill ANY of the following requirements:

Plan A

Earn at least 3 credits from the following:

- LAEP6970 - Thesis Research - 1cr.

OR

Plan B

Earn at least 3 credits from the following:

- LAEP6960 - Master's Project - 1cr.

Environmental Planning Graduate Courses (16 credits)

Complete ALL of the following Courses:

- LAEP6110 - Landscape Ecology for Planning - 3cr.
- LAEP6200 - Bioregional Analysis and Planning - 5cr.
- LAEP6210 - Bioregional Management and Policy - 5cr.
- LAEP6370 - City and Regional Planning - 3cr.

Graduate Electives (7 credits)

Graduate elective courses must be 5000 level or higher.

The following are suggested electives:

Complete ALL of the following Courses:

- ENVS6310 - Introduction to Environmental Laws and Policy - 3cr.

Required Courses for BLA Majors that will Fulfill General Education Requirements (30 credits)

University General Education requirements must be met in the following areas:

Complete at least 1 course in the following course sets:

- Quantitative Literacy (QL) Course
- Breadth Creative Arts (BCA) Course
- Breadth American Institutions (BAI) Course
- Breadth Physical Sciences (BPS) Course
- Breadth Social Sciences (BSS) Course

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Bachelor's Degree)

Suggested Degree Maps

Degree Map Name
Suggested Degree Map - Accelerated Bachelor of Landscape Architecture and Master of Science in Environmental Planning - BLA, MsEP
Total Degree Map Credits
152
Degree Map Effective Catalog Year
2027 -

Degree Map Narrative

- Following is a sample four-year plan. Please note that student-specific plans may differ.
- Meet with an academic advisor to create a specific plan that best fits your academic needs.
- The student is ultimately responsible for knowing and completing all degree requirements.
- Make sure you meet the registration requirements for each class by clicking the course link and checking any prerequisites or corequisites.
- Consultation with an advisor may result in an altered plan customized for an individual student.
- Check your Degree Works for requirements and completion.

Apply for matriculation to the BLA program spring semester of second year. Applications are due the last Monday in March.

Apply to the Accelerated Bachelor of Landscape Architecture and Master of Science in Environmental Planning BLA+EP by March 15th of third year.

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	16	0

Requirement Select

- LAEP1200 - Introduction to Graphics and Illustration

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- PSC2620 - Woody Plant Materials: Trees and Shrubs for the Landscape

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- ENGL1010 - Writing as Inquiry (CL1)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Quantitative Literacy (QL) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- CIVC1610 - Design Thinking (BCA)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	16	0

Requirement Select

- LAEP1350 - Theory of Design

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- LAEP1300 - Digital Drafting, Illustration, and Modeling

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- ENGL2010 - Research and Argument Across Perspectives (CL2)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- PSC2010 is recommended to fulfill the BPS requirement; APEC1600 is recommended to fulfill the BAI requirement (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	15	0

Requirement Select

- LAEP1040 - Introduction to Environmental Planning and Sustainable Development (BLS)

  OR

- WILD2200 - Ecology of Our Changing World (BLS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- LAEP2600 - Landscape Construction I (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- LAEP2700 - Analysis Design I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	5
Progress Credits	-
Contact Hours	5
Clinical	-
Criticality	No

Requirement Select

- APEC2010 or ENVS2340 is recommended to fulfill the BSS requirement (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	15	0

Requirement Select

- LAEP2720 - Analysis and Design 2

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	5
Progress Credits	-
Contact Hours	5
Clinical	-
Criticality	No

Requirement Select

- LAEP2300 - History of Landscape Architecture (BHU)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- LAEP2500 - Construction Materials and Detailing

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- LAEP2200 - AutoCAD for Environmental Design

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Fall	15	0

Requirement Select

- LAEP2400 - 3D Representation

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- LAEP3500 - Planting Design

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- LAEP5320 - Land Planning for Residential Development

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	5
Progress Credits	-
Contact Hours	5
Clinical	-
Criticality	No

Requirement Select

- General Elective course (3 credits) (see suggested electives listed on program page) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Spring	17	0

Requirement Select

- LAEP4110 - Landscape Construction II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- LAEP4910 - Foundations of Business in Design and Planning (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- LAEP5310 - Recreation and Open Space Planning and Design

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	5
Progress Credits	-
Contact Hours	5
Clinical	-
Criticality	No

Requirement Select

- LAEP5550 - Travel Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select

- General Elective course (3 credits) (see suggested electives listed above) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Fall	16	0

Requirement Select

- LAEP5300 - GIS for Environmental Planning

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- LAEP5410 - Urban Theory, Systems, and Design

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	5
Progress Credits	-
Contact Hours	5
Clinical	-
Criticality	No

Requirement Select

- LAEP6370 - City and Regional Planning

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- LAEP6890 - Seminar on Thesis Proposals and Procedures

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- GEO3000 - Epic Earth - Geoscience of National Parks (DSC)
  OR
- GEO3100 - Natural Disasters (DSC)
  OR
- PSC3100 - Soils and Civilization (DSC)
  OR
- ENVS3600 - Living with Wildlife (DSC)
  OR
- PSC5760 - Climate and Climate Change (DSC)(QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Spring	12	0

Requirement Select

- LAEP5400 - Advanced Geospatial Analysis and Visualization for Environmental Planning

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- LAEP6750 - Implementation and Regulatory Techniques in Planning

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- LAEP6880 - Landscape Architecture Research Methods

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select

- SOC3610 - Rural People and Places (DSS)
  OR
- SOC4620 - Sociology of the Environment and Natural Resources (DSS)
  OR
- ANTH5650 - Developing Societies (DSS)
  OR
- ENVS4000 - Human Dimensions of Natural Resource Management (DSS)
  OR
- POLS4820 - Natural Resources and Environmental Policy: Political Economy of Environmental Quality (DSS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 5	Fall	17	0

Requirement Select

- LAEP6110 - Landscape Ecology for Planning

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- LAEP6200 - Bioregional Analysis and Planning

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	5
Progress Credits	-
Contact Hours	5
Clinical	-
Criticality	No

Requirement Select

- LAEP6930 - Readings in Environmental Planning

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- LAEP6970 - Thesis Research

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	1 - 6
Clinical	-
Criticality	No

Requirement Select

- Elective (3 credits) must be 5000 level or higher (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- LAEP6740 - Planning Theory and Implementation Issues

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- 2 credits are required in LAEP6970 (Generic) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 5	Spring	13	0

Requirement Select

- LAEP6210 - Bioregional Management and Policy

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	5
Progress Credits	-
Contact Hours	5
Clinical	-
Criticality	No

Requirement Select

- LAEP6910 - Readings in Landscape Architecture

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- LAEP6970 - Thesis Research

OR

- LAEP6960 - Master's Project

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	1 - 6
Clinical	-
Criticality	No

Requirement Select

- Elective (4 credits) must be 5000 level or higher (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- • 3 credits of LAEP6970 are required for Plan A students; 3 credits of LAEP6960 are required for Plan B students (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Program Learning Outcomes

Program Learning Outcomes

https://www.usu.edu/oda/assessment/

Landscape Architecture - MLA

Program Overview

College
College of Agriculture & Natural Resources

Department
Landscape Architecture & Environmental Planning

Program Level
Graduate

About this Degree

The department offers a three-year, first professional graduate degree for students with a bachelor's degree in any area of study. This option allows students having a wide range of undergraduate experience to obtain an accredited degree in landscape architecture that fulfills the educational requirement for professional registration and allows entrance into the field of landscape architecture.

The mission of the Department of Landscape Architecture and Environmental Planning's Master of Landscape Architecture graduate program is to: (1) prepare future professionals to address the dynamic issues and scales of landscapes across the Intermountain West and around the world; and (2) engage in creative intellectual work that contributes to the theory and practice of landscape architecture.

The program for the Master of Landscape Architecture (MLA) emphasizes both traditional site planning and design, as well as broader areas of the profession, such as large-scale regional landscape analysis and planning. The MLA first professional degree is fully accredited by the Landscape Architectural Accreditation Board of the American Society of Landscape Architects.

The Master of Landscape Architecture program provides opportunities for each student to study and conduct research in areas which take advantage of the strengths of Utah State University and the landscape context of the Intermountain West centered around the expertise of the LAEP Department faculty. These areas of faculty expertise include relevant environmental, design, social, economic, and public policy issues utilizing a wide range of computer-based techniques, models, and analog skills.

Consult the LAEP department website for more information regarding this graduate degree program.

Admission Requirements for this Program

The application deadline for consideration in the first round of reviews is March 15. Applications received later than March 15 will be considered as space availability allows.

Degree Verification

A bachelor's degree from an accredited U.S. college or university or a similarly recognized international university is required for admission to and completion of a graduate program.

Program Requirements

Total Credits Required In Program Coursework
69

Total Credits Required To Earn This Credential
69

Simple Requisites

Program Requirements

A minimum overall GPA of 3.0 is required in LAEP-prefix courses, with no individual LAEP-prefix course grade less than a C. No pass/fail grades are accepted to fulfill LAEP-prefix
courses. Graduate students are required to maintain at least a 3.0 GPA for degre e-program courses. Grades of C or lower will not be accepted for a graduate deg ree.

Course Number Acceptability

Credits in the following areas are not acceptable in a graduate degree program: foreign languages (unless included in an approved Program of Study), continuing graduate advisement, individual home study, military science, and courses numbered below 5000.

A master's degree must be completed within six years of entering the degree program. Additional time may be requested by the student's committee and submitted to the Vice Provost of Graduate Studies for review.

Program Requirements

Type
Completion Requirement

Prerequisite Courses (14 credits)

Complete ALL of the following Courses:

- LAEP1200 - Introduction to Graphics and Illustration - 4cr.
- LAEP1300 - Digital Drafting, Illustration, and Modeling - 3cr.
- LAEP1350 - Theory of Design - 4cr.
- PSC2620 - Woody Plant Materials: Trees and Shrubs for the Landscape - 3cr.

MLA Courses (37 credits)

Complete ALL of the following Courses:

- LAEP2720 - Analysis and Design 2 - 5cr.
- LAEP2300 - History of Landscape Architecture (BHU) - 3cr.
- LAEP2600 - Landscape Construction I (QI) - 4cr.
- LAEP2700 - Analysis Design I - 5cr.
- LAEP6160 - Foundations of Business in Design and Planning - 3cr.
- LAEP6310 - Recreation and Open Space Planning and Design - 5cr.
- LAEP6320 - Land Planning for Residential Development - 5cr.
- LAEP6350 - Planting Design - 4cr.
- LAEP6750 - Implementation and Regulatory Techniques in Planning - 3cr.

Theory Courses (6 credits)

Complete ALL of the following Courses:

- LAEP6740 - Planning Theory and Implementation Issues - 3cr.
- LAEP6860 - Faculty/Interdisciplinary Seminar I - 1cr.
- LAEP6910 - Readings in Landscape Architecture - 1cr.
- LAEP6930 - Readings in Environmental Planning - 1cr.

Thesis Courses (5 credits)

A Plan A thesis or Plan B paper/project option is required and is to be negotiated with the candidate, major professor, and supervisory committee. Every graduate student is required to complete 2 credits of LAEP6970 THESIS RESEARCH, and an additional 3 credits of LAEP6970 THESIS RESEARCH **or** 3 credits in LAEP6960 MASTER'S PROJECT depending on plan type.

Complete ALL of the following Courses:

- LAEP6880 - Landscape Architecture Research Methods - 2cr.
- LAEP6890 - Seminar on Thesis Proposals and Procedures - 1cr.
- LAEP6970 - Thesis Research - 1cr.

all students are required to complete 2 credits of LAEP6970 THESIS RESEARCH

Plan A Thesis requirement (3 credits)

Complete ALL of the following Courses:

- LAEP6970 - Thesis Research - 1cr.

Plan A students required to complete 3 additional credits

Plan B Project requirement (3 credits)

Complete ALL of the following Courses:

- LAEP6960 - Master's Project - 1cr.

Plan B students required to complete 3 additional credits

Graduate Studios (8 credits)

Complete ALL of the following Courses:

- LAEP6200 - Bioregional Analysis and Planning - 5cr.
- LAEP6060 - E Studio / Entrepreneurship in Planning and Design (CI) - 3cr.

Elective Courses (10 credits)

Electives are dependent on thesis work and recommendations from a student's major professor.

Additional Comments:

Licensure Notification

This program typically leads to licensure and is accredited by the Landscape Architectural Accreditation Board (LAAB) to meet the educational requirements for licensure in the United States and its territories. USU has not determined if the program curriculum meets all the licensure requirements for individual jurisdictions, as each sets its own requirements for licensure and may have additional requirements such as a supervised employment period. Students wishing to work within the United States should review the qualifications for their intended jurisdiction, and complete the LARE exam for that state or territory. For more information, please visit www.clarb.org/home/about-clarb.

Program Learning Outcomes

Program Learning Outcomes

https://caas.usu.edu/laep/assessment/

Law and Constitutional Studies - BA, BS

Program Overview

College	Department	Program Level
College of Arts & Sciences	School of Social Sciences	Undergraduate

About this Degree

The program is intended to introduce students to the study of law and politics, with an emphasis on the American Constitution. The program focuses on how constitutional rules affect political and economic processes. Students study the theory, history, economics, and development of constitutional thought. They also learn about natural and civil rights, a market economy, a self-governing citizenry, voluntary associations, and the rule of law.

Through an intensive program of constitutional study, this major equips students with the intellectual tools and understanding of constitutional principles necessary to enter graduate study or law school, as well as a variety of other professions.

Students receive a by completing all required courses in the major. To receive a BA, students must also gain proficiency in one or more foreign languages.

- For more information about Law and Constitutional Studies, see the Department of Political Science website.
- Admitted and current students must meet with an academic advisor.
- Log on to Degree Works to check student-specific program progress.
- The highest math requirement for this degree is Quantitative Literacy (QL) course of the student's choice.

Admission Requirements for this Program

- New freshmen must be admitted to USU in Good Standing.
- Transfer students from other institutions or other programs at USU must have a 3.0 USU GPA and a 3.0 Career GPA

Program Requirements

Total Credits Required In Program Coursework	Total Credits Required To Earn This Credential
36	120

Simple Requisites

Program Requirements

Major Requirements (36 credits)
Minimum GPA for Graduation: 3.0 in major courses
Minimum Grade Accepted: C in major courses

Please note that none of the courses can be taken pass/fail; all Political Science courses must be taken for a letter grade. Also, all courses must be attended in their entirety.

Additional Information

In addition to completion of the requirements for a bachelor's degree, a Bachelor of Arts (BA) degree signifies proficiency in one or more foreign languages. Specifically, the BA requirement may be completed in one of the following ways:

- Demonstration of proficiency in one foreign language by successful completion of one course at the 2020-level or higher (or its equivalent) **OR**

- Demonstration of proficiency in American Sign Language by successful completion of American Sign Language IV (**ASL4920 AMERICAN SIGN LANGUAGE IV**) and Socio-Cultural Aspects of Deafness (**ASL4780 DEAF CULTURE**), and by passing an exit interview **OR**
- Demonstration of proficiency in two foreign languages by successful completion of the 1020 course level or higher in one language **and** the 2010 course level or higher in the second language (or its equivalent) **OR**
- Completion of an upper-division (3000-level or higher) foreign language grammar or literature course requiring the 2020 course level (or its equivalent) as a prerequisite. Conversation courses cannot be considered for satisfying this requirement.

For non-native English-speaking students only, the following options are available:

- Successful completion of the Intensive English Language Institute (IELI) program for international students OR
- TOEFL, IELTS, other USU approved exam, or IELI placement scores high enough to meet the university admission criteria.

Note:

- Students may count up to 6 credit hours toward the Law and Constitutional Studies major that were also taken in pursuit of another major or minor.
- For detailed information about requirements for the Law and Constitutional Studies major, see the major requirement sheet, which can be obtained from the Political Science Department.

Major Requirements (36 credits)

Type
Completion Requirement

A. Required Courses (21 credits)

Course Sequencing: Law and Constitutional Studies majors are **required** to complete POLS1100 US GOVT AND POLITICS (BAI) as a prerequisite to all 3000-and 4000-level Political Science courses. It is **advised** that Law and Constitutional Studies majors take POLS3120 LAW AND POLITICS (DSS) prior to POLS4120 AMERICAN CONSTITUTIONAL LAW, POLS4130 CONSTITUTIONAL THEORY, POLS5130 LAW AND POLICY, or POLS5140 LAW, POLITICS AND WAR.

Fulfill ALL of the following requirements:

Required Courses (12 credits

Complete ALL of the following Courses:

- POLS1100 - United States Government and Politics (BAI) - 3cr.
- POLS2300 - Introduction to Political Theory (BHU) - 3cr.
- POLS3120 - Law and Politics (DSS) - 3cr.
- POLS4120 - American Constitutional Law - 3cr.

NOTE:

1. POLS1100 US GOVT AND POLITICS (BAI) - Advanced Placement (AP) U.S. Government may replace this course requirement.

AND

Required Courses

Complete at least 1 of the following courses:

- POLS5130 - Law and Policy - 3cr.
- POLS5140 - Law, Politics, and War - 3cr.

AND

Required Courses

Complete at least 2 of the following courses:

- POLS3310 - American Political Thought (DSS) - 3cr.
- POLS3320 - The Foundations of American Constitutionalism - 3cr.
- POLS4130 - Constitutional Theory - 3cr.
- POLS4140 - Political Organizations - 3cr.
- POLS3170 - Law and Economics - 3cr.
- POLS4800 - Constitutional Design - 3cr.

C. Area Requirements (6 credits minimum)

Complete the following;
Students must take a minimum of **six upper-division credits** in U.S. Government and Policy in addition to courses required for this major.

D. Electives (9 credits)

Any Political Science upper-division courses can be used to complete the major and fulfill this requirement, with **two exceptions:**

1. Not more than **three** credits in Directed Readings courses (POLS4910 READINGS AND CONFERENCE) can apply to this requirement.
2. Not more than **three** Internship credits in the following courses can apply to this requirement:

Complete ANY of the following Courses:

- POLS5900 - Government and Policy Internship Seminar - 3cr.
- POLS5910 - Campaign Internship - 1cr.
- POLS5920 - Washington Internship - 1cr.
- POLS5930 - State Government Internship - 1cr.
- POLS5940 - Administrative Internship - 1cr.
- POLS5950 - International Internship - 1cr.

Open Electives

Complete the following as needed:
Total elective credit is determined by General Education courses taken, degree type selected, additional credits earned, and any additional math or other prerequisite courses needed. Please consult your Academic Advisor for details.

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Bachelor's Degree)

Suggested Degree Maps

Degree Map Name
Suggested Degree Map - Law and Constitutional Studies BA, BS
Total Degree Map Credits
126
Degree Map Effective Catalog Year
2026 -

Degree Map Narrative

- Following is a sample four-year plan. Please note that student-specific plans may differ.
- Meet with an academic advisor to create a specific plan that best fits your academic needs.
- The student is ultimately responsible for knowing and completing all degree requirements.
- Make sure you meet the registration requirements for each class by clicking the course link and checking any prerequisites or corequisites.
- Consultation with an advisor may result in an altered plan customized for an individual student.
- Check your Degree Works for requirements and completion.

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	15	0

Requirement Select
- ENGL1010 - Writing as Inquiry (CL1)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- POLS1100 - United States Government and Politics (BAI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Quantitative Literacy (QL) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Breadth Social Sciences (BSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Breadth Physical Sciences (BPS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	15	0

Requirement Select
- POLS2300 - Introduction to Political Theory (BHU)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Breadth Life Sciences (BLS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Breadth Creative Arts (BCA) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	15	0

Requirement Select
- ENGL2010 - Research and Argument Across Perspectives (CL2)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	15	0

Requirement Select
- POLS3120 - Law and Politics (DSS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Communications Intensive (CI) Courses

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Fall	18	0

Requirement Select
- Quantitative Intensive (QI) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Depth Humanities and Creative Arts (DHA) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- POLS4120 - American Constitutional Law

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- POLS3120 - Law and Politics (DSS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- POLS3310 - American Political Thought (DSS)
  OR
- POLS3320 - The Foundations of American Constitutionalism
  OR
- POLS4130 - Constitutional Theory
  OR
- POLS4140 - Political Organizations
  OR
- POLS4800 - Constitutional Design

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Spring	15	0

Requirement Select

- POLS3310 - American Political Thought (DSS)
  OR
- POLS3320 - The Foundations of American Constitutionalism
  OR
- POLS4130 - Constitutional Theory
  OR
- POLS4140 - Political Organizations
  OR
- POLS4800 - Constitutional Design

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- POLS Upper-Division Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Depth Life and Physical Sciences (DSC) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Fall	18	0

Requirement Select
- POLS5130 - Law and Policy

OR
- POLS5140 - Law, Politics, and War

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Communications Intensive (CI) Courses

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- POLS Upper-Division U. S. Area Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- POLS Upper-Division U. S. Area Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Spring	15	0

Requirement Select
- POLS Upper-Division U.S. Area Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- POLS Upper-Division U.S. Area Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- POLS Upper-Division Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Program Learning Outcomes

Program Learning Outcomes

https://artsci.usu.edu/assessments/

Law Enforcement Officer - Technical Certificate

Program Overview

College
College of Agriculture & Natural Resources

Department
Technology, Design & Technical Ed

Program Level
Undergraduate

About this Degree

Federal Gainful Employment Information

The Law Enforcement Officer technical certificate is designed to help students prepare for a career in Law Enforcement and certification under Utah law. All law enforcement departments must have all police officers complete this program before performing the duties of a patrol officer, investigator, or deputy. This program functions to allow students a high-quality and structured entry into the field of criminal justice with a marketable skill set and state-recognized credentials. Students who complete the certificate will be prepared to work in law enforcement and prepare for a career that can be stacked upward into a future degree.

Admission Requirements for this Program

- Successfully completed the SFO certification test in the past 4 years AND/OR employment with an agency and engaging in SFO duties.
- At least 21 years of age at the time of certification for LEO
- If over 12 months since completing the SFO certification, they applicant must the LEO entry test.

Program Requirements

Total Credits Required In Program Coursework
12

Total Credits Required To Earn This Credential
12

Simple Requisites

Program Requirements

Section 1

Type
Completion Requirement

Technical Education Required Courses

Complete ALL of the following Courses:

- TELE1030 - Law Enforcement Officer - 12cr.

Program Learning Outcomes

Program Learning Outcomes

- Understand core criminal justice and law enforcement principles.
- Meet Utah's requirements for police officer certification.
- Demonstrate essential skills for entry-level law enforcement roles.
- Act professionally and ethically in law enforcement settings.
- Follow legal procedures, state statutes, and department policies.
- Earn marketable, state-recognized credentials for employment.
- Build a foundation for further education in criminal justice.

Landscape Architecture and Environmental Planning - PhD

Program Overview

College
College of Agriculture & Natural Resources

Department
Landscape Architecture & Environmental Planning

Program Level
Graduate

About this Degree

The interdisciplinary Doctor of Landscape Architecture and Environmental Planning prepares leaders and future faculty in landscape architecture by engaging in creative intellectual work that contributes to the theory and practice of landscape architecture. Candidates apply critical theories and methods in landscape architecture to address the dynamic issues and scales of natural and built landscapes in the context of human systems. All courses require a minimum grade of C or higher. A total of 60 credits are required for this program.

Program Requirements

Total Credits Required In Program Coursework
60

Total Credits Required To Earn This Credential
60

Simple Requisites

Program Requirements

Landscape Architecture and Environmental Planning - PhD

Type
Completion Requirement

Research Courses (34 credits)

Complete ALL of the following Courses:

- EDUC6570 - Introduction to Educational and Psychological Research - 3cr.
- EDUC6600 - Statistical Foundations - 3cr.
  OR EDUC6770 - Qualitative Research Methods - 3cr.
- ITLS6760 - Grant and Proposal Writing - 3cr.
- LAEP6740 - Planning Theory and Implementation Issues - 3cr.
- LAEP7910 - Conference Presentation - 1cr.
- LAEP7920 - Writing for Publication - 2cr.
- LAEP7940 - Review of Literature - 1cr.
- LAEP7970 - Dissertation - 1cr.

must take a total of 18 credits of LAEP7970 DISSERTATION

Professoriate Courses (8 credits)

Complete ALL of the following Courses:

- ITLS6520 - Instructional Design I - 3cr.
- LAEP7800 - Introduction to the Professoriate - 2cr.
- LAEP7820 - College Teaching - Seminar - 1cr.
- LAEP7830 - College Teaching - Studio - 2cr.

Elective Courses (18 credits)

Elective courses need to be 6000-level or higher at minimum.

Program Learning Outcomes

Program Learning Outcomes

https://caas.usu.edu/laep/assessment/

Law and Society Area Studies - Institutional Certificate of Proficiency

Program Overview

College
College of Arts & Sciences

Department
School of Social Sciences

Program Level
Undergraduate

About this Degree

The Department of Sociology and Anthropology sponsors an interdisciplinary program emphasizing the study of the relationship between law and society. The Law and Society Area Studies Certificate is an opportunity for students interested in law school, public administration, counseling or law enforcement-related careers to emphasize the study of the relationship between law and society from an interdisciplinary perspective

Program Requirements

Total Credits Required In Program Coursework
24

Total Credits Required To Earn This Credential
24

Simple Requisites

Program Requirements

Students must complete at least 24 credits from the courses listed below, at least 50% of which must be completed at USU. The courses must be chosen from at least three different disciplines; no more than 12 credits may be chosen from a single discipline; and at least 15 of the 24 credits must be at the 3000 level or above. A student must maintain a 3.0 grade point average for the 24 credits. Classes more than 10 years old may not count towards the certificate, neither will classes take P/F. The Law and Society Area Studies Certificate must be attached to a bachelor's degree. Courses taken for the Law and Societies Area Studies requirements may also count toward fulfilling requirements for a major and general education requirements. A student's final transcript will reflect the Law and Society Area Studies Institutional Certificate of Proficiency upon completion of the requirements for a degree.

Law and Society Area Studies - ICP

Type
Completion Requirement

Required Course Options (24 credits)

Earn at least 24 credits from the following:

- CJ1010 - Introduction to Criminal Justice (BSS) - 3cr.
- CJ1300 - Introduction to Corrections - 3cr.
- CJ1330 - Criminal Law - 3cr.
- CJ1340 - Criminal Investigations - 3cr.
- CJ1390 - Introduction to Policing - 3cr.
- CJ2330 - Juvenile Justice - 3cr.
- CJ2350 - Laws of Evidence - 3cr.
- CJ2360 - Juvenile Law and Procedures - 3cr.
- CJ2370 - Child Abuse and Neglect - 3cr.
- CJ3150 - Moot Court - 3cr.
- CJ3320 - Criminal Procedure - 3cr.
- CJ3370 - Gender-Based Violence - 3cr.
- CJ4200 - Criminal Justice Ethics - 3cr.
- CJ4440 - The Origins of the United States Criminal Justice System (DSS) - 3cr.
- ECON4500 - Public Economics - 3cr.
- ENVS3600 - Living with Wildlife (DSC) - 3cr.
- HDFS3100 - Abuse and Neglect in Family Context - 3cr.

OR PSY3120 - Abuse, Neglect, and the Psychological Dimensions of Intimate Violence (DSS) - 3cr.
- HDFS4220 - Family Crises and Interventions - 3cr.
- HDFS4230 - Family and Social Policy - 3cr.
- HEP3000 - Drugs and Human Behavior - 3cr.
- HIST4720 - The Civil Rights Movement (DHA/CI) - 3cr.
- HIST4730 - History of Black America (CI) - 3cr.
- JCOM4030 - Mass Media Law (DSS) - 3cr.
- MGT3350 - Legal and Ethical Environment of Business - 3cr.
- MGT3810 - Employment Law (DSS) - 3cr.
- PHIL1120 - Social Ethics (BHU) - 3cr.
- PHIL3520 - Business Ethics (DHA) - 3cr.
- POLS3120 - Law and Politics (DSS) - 3cr.
- POLS3130 - United States Legislative Politics (DSS) - 3cr.
- POLS3170 - Law and Economics - 3cr.
  OR ECON3550 - Law and Economics - 3cr.
- POLS3230 - Middle Eastern Government and Politics - 3cr.
- POLS3320 - The Foundations of American Constitutionalism - 3cr.
- POLS3810 - Introduction to Public Policy (DSS) - 3cr.
- POLS4120 - American Constitutional Law - 3cr.
- POLS4130 - Constitutional Theory - 3cr.
- POLS5100 - Politics and Public Policy - 3cr.
- POLS5130 - Law and Policy - 3cr.
- SOC1020 - Social Problems (BSS) - 3cr.
- SOC3320 - Work, Inequality and the American Dream (DSS) - 3cr.
- SOC3340 - Activism, Protest, and Social Movements (DSS) - 3cr.
- SOC3370 - Gender-Based Violence - 3cr.
- SOC3410 - Juvenile Delinquency - 3cr.
- SOC3420 - Criminology - 3cr.
- SOC3430 - Social Deviance (DSS) - 3cr.
- SOC3520 - Sociology of Mental Illness - 3cr.
- SOC4350 - People, Power, and the Political - 3cr.
- SOC4410 - Race and Crime (CI) - 3cr.
- SOC4420 - Law and Society (CI) - 3cr.
- SPED5070 - Policies, Procedures, and Collaboration in Special Education - 3cr.
- SW2100 - Human Behavior in the Social Environment - 3cr.
  OR SW5901 - Human Behavior in the Social Environment - 3cr.
- SW5575 - Substance Use Disorders: Approaches to Treatment and Policy - 3cr.
- SW3350 - Child Welfare - 3cr.
- SW4900 - Topical Issue Seminar - 3cr.
- SW5350 - Social Policy and Social Justice (CI) - 3cr.
- SW6800 - Law and Ethics for Social Workers - 3cr.

NOTE:

In addition to the courses listed above, a student may petition to substitute certain relevant courses to fulfill the area studies requirement to transfer credits from another institution. However only the SW4900 TOPICAL ISSUE SEMINAR "Forensic Child Welfare" topic counts toward the Law & Society Certificate.

For further information, contact Dr. Jason Leiker, (435) 797-7123, jason.leiker@usu.edu.

Program Learning Outcomes

Program Learning Outcomes

https://chass.usu.edu/assessments/

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Undergraduate Academic or Technical Certificates)

Latin American Studies - Minor

Program Overview

College
College of Arts & Sciences

Department
World Languages and Cultures

Program Level
Undergraduate

About this Degree

The Latin American Studies Minor is housed across several departments in the College of Arts & Sciences. The curriculum provides students with an interdisciplinary introduction to Latin American Studies and Latinx Studies, enabling students to develop multicultural literacy and intercultural competence skills that are valuable in globalized contexts and in a wide range of careers. Students will enhance their understanding of the historical, political, economic, cultural, and sociological aspects of the countries and peoples of Latin America. Students may choose from electives taught in English, and/or Spanish, and/or Portuguese languages.

Coordination:

Marcela Lemos, Department of World Languages & Cultures, marcela.lemos@usu.edu and Sophia Martinez-Abbud, Department of English, sophia.martinezabbud@usu.edu

Admission Requirements for this Program

Admission requirements for the minor: 2.0 GPA

Program Requirements

Total Credits Required In Program Coursework
12

Total Credits Required To Earn This Credential
12

Simple Requisites

Program Requirements

12 credits of electives in the program (students may choose from the lists of elective courses taught in English, and/or courses taught in Spanish or Portuguese. Some advanced Spanish or Portuguese courses require advanced language proficiency through prerequisites or Language Proficiency and Placement testing in the Department of World Languages & Cultures). Students complete 6 credits from Content (Cultural Studies) plus 6 credits of Context (History and Politics) from the lists below.

Latin American Studies - Minor (12 credits)

Type
Completion Requirement

Content - Cultural Studies (6 credits)

Complete at least 2 of the following courses:

- ANTH3130 - Peoples of Latin America (CI) - 3cr.
- ANTH4330 - Archaeology of Latin America (DSS) - 3cr.
- ARTH3295 - Latinx Art (CI/DHA) - 3cr.
- ARTH4260 - Latin American Art (CI/DHA) - 3cr.
- ARTH3320 - Pre-Columbian Art (CI) - 3cr.
- ENGL4375 - U.S. Latinx Literature - 3cr.
- FILM3440 - Latinx Film - 3cr.
- GEOG5120 - Environment and Development in Latin America (CI) - 3cr.
- PORT3400 - Popular Music in the Portuguese-Speaking World - 3cr.
- PORT3570 - Brazilian Culture and Civilization (DHA) - 3cr.
- PORT3630 - Literatures of the Portuguese-Speaking World (DHA) - 3cr.
- PORT3700 - Contemporary Brazilian Cinema - 3cr.
- PORT4100 - Trends in Lusophone Cultures - 3cr.
- PORT4200 - Brazilian Media in Global Context - 3cr.
- PORT4300 - Luso-Afro-Brazilian Women in Translation - 3cr.
- SPAN3300 - Introduction to Hispanic Literature and Literary Analysis - 3cr.
- SPAN3400 - Introduction to Hispanic Cinema - 3cr.
- SPAN3570 - Hispanic American Culture and Civilization (DHA) - 3cr.
- SPAN4910 - Topics of Hispanic American Cultural Production - 3cr.
- SPAN4930 - Topics of U.S. Latina/o Literature and Culture - 3cr.

Context - History and Politics (6 credits)

Complete at least 2 of the following courses:

- ENGL3355 - Literary History of the Early Americas - 3cr.
- ENGL3385 - Postcolonial World Literature - 3cr.
- ENGL3395 - World Literature in Translation - 3cr.
- HIST3615 - Latinx History - 3cr.
- ENGL3610 - Multicultural American Literature - 3cr.
- HIST3660 - History of Mexico (DHA) - 3cr.
- HIST4630 - History of the Southwest Borderlands (DHA) - 3cr.
- POLS3270 - Latin American Government and Politics (DSS) - 3cr.
- POLS4450 - United States and Latin America (CI) - 3cr.
- POLS5270 - Latin American Politics and Development - 3cr.
- PORT4000 - Contemporary Issues in Brazil - 3cr.
- SOC2630 - Sociology of Race and Ethnicity (BSS) - 3cr.
- SOC3340 - Activism, Protest, and Social Movements (DSS) - 3cr.
- SOC5270 - Global Migration - 3cr.
- SPAN4010 - Spanish for Social Services - 3cr.

Program Learning Outcomes

Program Learning Outcomes

https://chass.usu.edu/languages/assessments

Liberal Arts - BA

Program Overview

College	Department	Program Level
College of Arts & Sciences	Communication & Media	Undergraduate

About this Degree

The liberal arts program helps students gain a basic understanding of the development of civilization, historical and cultural traditions, political institutions and processes, and develop an appreciation of fine arts and literature. Because it covers such a broad base, it develops the student's rational thought and intellectual capabilities in many areas.

Students graduating with a degree in liberal arts are highly desired by employers in a number of areas. By completing a degree through this program, students show they are trainable, fast learners, motivated, flexible, and willing to take on new ideas and concepts. Because students also study a foreign language, they develop marketable language and communication skills, which are sought after by many employers.

- Please make sure to consult regularly with your departmental advisor to confirm what courses will be available and to work out your plan of study.
- Admitted and current students must meet with an academic advisor.
- Login to Degree Works to check student-specific program progress.
- The highest Math Requirement for this degree is STAT1040 INTRO TO STATISTICS (QL) or STAT1080 FOUNDATIONS OF DATA SCI (QL).

Admission Requirements for this Program

- New freshmen must be admitted to USU in Good Standing.
- Transfer students from other institutions or other programs at USU must have a 2.5 USU cumulative, 2.5 minimum career total
- Students must have completed 45 credits before being admitted to the Liberal Arts major.

Program Requirements

Total Credits Required In Program Coursework	Total Credits Required To Earn This Credential
36	120

Simple Requisites

Program Requirements

Minimum Grade: C in major courses
Minimum Graduation GPA: 2.5 in major courses, 2.0 USU cumulative
Number of Required Credits: 36 (18 must be in upper-division courses)
Other Major Requirements: Must complete the university's Bachelor of Arts Degree Requirements found on the Undergraduate Academic Credential Requirements page

The focus of study for the Liberal Arts major is to help students gain a basic understanding of the development of civilization, including historical and cultural traditions, political institutions and processes, an appreciation of arts and literature, and expanded capacities for critical thought. Students will work with an academic advisor to develop a program of interdisciplinary courses which will provide this base of knowledge. Although the student's program should be outlined and approved by the academic advisor, the student will be able to choose from a number of courses and disciplines in defining his or her program of study. The program requirements are as listed:

- Four goals for learning have been identified, and courses are selected to fulfill these goals.
- Students must choose 9 credits of coursework from each goal for a total of 36 credits.
- Students must complete courses from a minimum of two different departments listed under each goal.
- Of the 36 total credits, students must earn 18 credits in courses numbered 3000 or higher.
- All credits counting in the 36-credit minimum must have a letter grade of C or better and cannot be taken pass/fail.
- At least 18 credits used in the goal areas must be completed at USU.
- At least 18 credits used in the goal areas must be no older than 10 years.

Foreign Language Requirement

In addition to completion of the requirements for a bachelor's degree, a Bachelor of Arts (BA) degree signifies proficiency in one or more foreign languages. Specifically, the BA requirement may be completed in one of the following ways:

- Demonstration of proficiency in one foreign language by successful completion of one course at the 2020-level or higher (or its equivalent) **OR**
- Demonstration of proficiency in American Sign Language by successful completion of American Sign Language IV (**ASL4920 AMERICAN SIGN LANGUAGE IV**) and Socio-Cultural Aspects of Deafness (**ASL4780 DEAF CULTURE**), and by passing an exit interview **OR**
- Demonstration of proficiency in two foreign languages by successful completion of the 1020 course level or higher in one language **and** the 2010 course level or higher in the second language (or its equivalent) **OR**
- Completion of an upper-division (3000-level or higher) foreign language grammar or literature course requiring the 2020 course level (or its equivalent) as a prerequisite. Conversation courses cannot be considered for satisfying this requirement.

For non-native English-speaking students only, the following options are available:

- Successful completion of the Intensive English Language Institute (IELI) program for international students OR
- TOEFL, IELTS, other USU approved exam, or IELI placement scores high enough to meet the university admission criteria.

Liberal Arts - BA

Type
Completion Requirement

Goal One - Historical and Cultural Traditions (9 credits)

Purpose: To acquire an understanding of the historical and cultural traditions of Western and/or other civilizations

Students must choose courses from at least two of the following areas:

Earn at least 9 credits

- Any History Courses

- Any Anthropology Courses
- Any Folklore Courses
- Any Religious Studies Courses
- World/Regional Geography Courses
- Upper-division Language Courses dealing with culture or civilization (Does not include grammar or conversation courses.)
- Selected Linguistics Courses dealing with culture or civilization

Goal Two - Social and Legal Institutions (9 credits)

Purpose: To develop an understanding of social and legal institutions

Students must choose courses from at least two of the following areas:

Earn at least 9 credits

- Any Sociology Courses
- Any Political Science Courses
- Any Family, Consumer, and Human Development Courses
- Any Economics Courses (except orientation courses)
- Any Psychology Courses (except for study skills or career exploration courses)
- Any Management Courses (except orientation courses or leadership courses)

Goal Three - Arts and Literature (9 credits)

Purpose: To develop and strengthen an appreciation of the arts and literature

Courses selected must be theory or history based, not skill based.

Students must choose courses from at least two of the following areas:

Earn at least 9 credits

- Art
- Theatre Arts
- Music
- Literature (English or Upper-division Foreign Language Courses)
- Selected Landscape Architecture and Environmental Planning Courses
- Selected Interior Design Courses

Goal Four - Critical Thinking, Reasoning, and Ethical Inquiry (9 credits)

Purpose: To promote habits of critical, reasonable, and ethical inquiry, providing logic and intellectual integrity in seeking truths

Students must choose courses from at least two of the following areas:

Earn at least 9 credits

- Any Philosophy Courses
- Any departmental Ethics Courses
- Upper-division Speech Courses dealing with persuasion, debate, influence, and argumentation.
- Other courses from other areas may be approved in the goals by consultation with the academic advisor.

Methods Course Requirement: A Statistics or methods course must be taken as part of the 9-credit minimum for Goal Four if not taken as a part of the University Studies Quantitative Literacy requirement.

Open Electives

Complete the following as needed:
Total elective credit is determined by General Education courses taken, degree type selected, additional credits earned, and any additional math or other prerequisite courses needed. Please consult your Academic Advisor for details.

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Bachelor's Degree)

Suggested Degree Maps

Degree Map Name
Suggested Degree Map - Liberal Arts BA
Total Degree Map Credits
120
Degree Map Effective Catalog Year
2026 -

Degree Map Narrative

- Following is a sample four-year plan. Please note that student-specific plans may differ.
- Meet with an academic advisor to create a specific plan that best fits your academic needs.
- The student is ultimately responsible for knowing and completing all degree requirements.
- Make sure you meet the registration requirements for each class by clicking the course link and checking any prerequisites or corequisites.
- Consultation with an advisor may result in an altered plan customized for an individual student.
- Check your Degree Works for requirements and completion.

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	16	0

Requirement Select

- ENGL1010 - Writing as Inquiry (CL1)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Foreign Language 1010 (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Breadth Requirement (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Breadth Requirement (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Breadth Requirement (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	16	0

Requirement Select

- Any QL course is acceptable, however, STAT 1040 or STAT 1080 or STAT 1045 are strongly recommended. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- STAT1040 - Introduction to Statistics (QL)
  OR
- STAT1080 - Foundations of Data Science (QL)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Foreign Language 1020 (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Breadth Requirement (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Breadth Requirement (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Breadth Requirement (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	16	0

Requirement Select
- ENGL2010 - Research and Argument Across Perspectives (CL2)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Foreign Language 2010 (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Arts/Literature Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Breadth Requirement (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	16	0

Requirement Select
- Historical/Cultural Traditions Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Foreign Language 2020 (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Social Science Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Social Science Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Critical/Ethical Inquiry Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Critical/Ethical Inquiry Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Communications Intensive (CI) Courses

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Quantitative Intensive (QI) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Fall	15	0

Requirement Select
- Upper Division Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Spring	15	0

Requirement Select
- Upper-division Historical/Cultural Traditions Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Upper-division Arts/Literature Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Upper-division Critical/Ethical Inquiry Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Liberal Arts Methods Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Upper Division Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Fall	12	0

Requirement Select
- Upper-division Historical/Cultural Traditions Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Depth Social Sciences (DSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Communications Intensive (CI) Courses

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Upper Division Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Spring	14	0

Requirement Select
- Upper-division Social Sciences Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Upper-division Arts/Literature Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Depth Life and Physical Sciences (DSC) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Upper Division Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Program Learning Outcomes

Program Learning Outcomes

https://artsci.usu.edu/assessments/

Legal and Business Translation and Interpretation - Certificate

Program Overview

College
College of Arts & Sciences

Department
World Languages and Cultures

Program Level
Undergraduate

About this Degree

The Certificate in Legal and Business Translation and Interpretation is a program with a strong emphasis on the theory and practice of the field of translation and interpretation for legal and business settings. This certificate seeks to attract students who are fluent in English and Spanish (upper intermediate-advance proficiency of their second language) who are interested in pursuing a career as language professionals specializing in legal and business settings. This certificate is perfect for bilingual individuals (Spanish/English) who are committed to easing communication barriers that exist when non-English speakers interact with institutions, private companies, and the legal system at large, whether they are Spanish heritage speakers or have a high intermediate-advanced level of Spanish as a second language.

Program Requirements

Total Credits Required In Program Coursework
16

Total Credits Required To Earn This Credential
16

Simple Requisites

Program Requirements

Upon completing 16 credits of in-person coursework at USU main campus in Logan, the certificate prepares students for careers in business and legal translation as well as legal interpretation. Students will develop competencies to provide accurate written translation and interpreting services in the business and legal fields, including court settings. This certificate will prepare students to take the State and Federal legal/court interpreter certification exams, the American Translators Association (ATA) Certification test, and guide students towards the pursuit of careers as language professionals offering high-quality interpretation and translation services.

Legal and Business Translation and Interpretation - Certificate

Type
Completion Requirement

Admission Requirement: Prerequisites

Students must take one of the following prerequisite courses.

Complete at least 1 of the following courses:

- SPAN3040 - Advanced Spanish Grammar - 3cr.
  OR SPAN3060 - Advanced Spanish Conversation and Composition (CI) - 3cr.
  OR SPAN3510 - Business Spanish - 3cr.

Course Requirements

Complete ALL of the following Courses:

- SPAN3061 - Fundamentals of Translation and Interpretation - 3cr.
- SPAN3082 - Legal and Business Translation - 3cr.
- SPAN4072 - Simultaneous and Consecutive Legal Interpretation - 3cr.
- SPAN4082 - Advanced Legal Translation and Interpretation - 3cr.

Additional Requirement

Students will ultimately enroll in the following course to complete the certificate.

Complete ALL of the following Courses:

- LANG1050 - Language Skills and Career Design - 1cr.

Program Learning Outcomes

Program Learning Outcomes

https://chass.usu.edu/languages/assessments

Leadership & Diplomacy - Certificate

Program Overview

College
College of Arts & Sciences

Department
School of Social Sciences

Program Level
Undergraduate

About this Degree

This certificate helps provide a multidisciplinary foundation that fosters greater awareness, knowledge, and skills for becoming more effective community leaders, communicators, and problem solvers with a focus on either the domestic or global level.

Program Requirements

Total Credits Required In Program Coursework
21

Total Credits Required To Earn This Credential
21

Simple Requisites

Program Requirements

- Minimum GPA for Admission: 2.5
- Cumulative Minimum GPA in Certificate Coursework for Graduation: 2.5
- Cumulative Number of Required Credits: 21
- Students must select 1 of 2 academic tracks: Domestic or Global
- CAPSTONE: a domestic or international internship
- Courses may not be taken on a pass/fail basis except for those courses which are only taught pass/fail

Track 1: Domestic Leadership and Diplomacy

Type
Completion Requirement

Track Information

See the following:
Students in this track must take the following core courses from the list of options: 1 Political Science course (3 credits), 1 Communication Studies course (3 credits), one Careers/Leadership seminar course (1 credit) and participate in a domestic internship (2 credit minimum), for a total of 9 credits.

REQUIRED COURSES (9 credits)

Complete ALL of the following Courses:

- CMST2110 - Interpersonal Communication (BHU) - 3cr.
  OR CMST3600 - Communication and Conflict - 3cr.
- POLS1100 - United States Government and Politics (BAI) - 3cr.
- POLS4890 - Special Topics - 1cr.
  OR POLS4850 - Public Policy and Community Leadership - 1cr.
- POLS5910 - Campaign Internship - 1cr.
  OR POLS5920 - Washington Internship - 1cr.
- POLS5930 - State Government Internship - 1cr.
  OR POLS5940 - Administrative Internship - 1cr.

NOTE:

1. POLS4890 SPECIAL TOPICS - *With title "Careers in Government and Policy"*

Elective Courses (12 credits)

Students can select a minimum of 4 division courses (3 credits each) from the following departments and colleges, although they must take at least one upper division course each from the Political Science and Communication Departments.

Fulfill ANY of the following requirements:

Political Science Courses (3 credits)

Complete at least 1 of the following courses:

- POLS3110 - Parties and Elections (DSS) - 3cr.
- POLS3115 - Electoral Behavior - 3cr.
- POLS3120 - Law and Politics (DSS) - 3cr.
- POLS3130 - United States Legislative Politics (DSS) - 3cr.
- POLS3140 - The Presidency (DSS) - 3cr.
- POLS3150 - State and Local Government - 3cr.
- POLS3180 - Introduction to Public Administration - 3cr.
- POLS4120 - American Constitutional Law - 3cr.
- POLS4140 - Political Organizations - 3cr.
- POLS4160 - The First Amendment - 3cr.
- POLS4350 - Public Policy and Democratic Theory - 3cr.
- POLS4500 - The Politics of Social Movements (DSS) - 3cr.
- POLS4820 - Natural Resources and Environmental Policy: Political Economy of Environmental Quality (DSS) - 3cr.
- POLS4840 - Regulatory Politics - 3cr.
- POLS5100 - Politics and Public Policy - 3cr.

OR

Communication Studies Courses (3 credits)

Complete at least 1 of the following courses:

- CMST3250 - Organizational Communication (CI) - 3cr.
- CMST3270 - Culture and Public Discourse (DHA) - 3cr.
- CMST3280 - Organizations and Social Change - 3cr.
- CMST3400 - Persuasion - 3cr.
- CMST3510 - Development and Philanthropy - 3cr.
- CMST4200 - Language, Thought, and Action (CI/DSS) - 3cr.
- CMST4270 - Communication, Culture, and Power - 3cr.
- CMST4700 - Health Communication (CI) - 3cr.
- CMST4750 - Strategic Health Messaging - 3cr.
- CMST5500 - Communication and Leadership - 3cr.
- CMST5600 - Advanced Communication and Conflict - 3cr.

OR

Other Elective Courses (6 credits)

Fulfill ANY of the following requirements:

Religious Studies

Complete ANY of the following Courses:

- RELS1070 - Religion, Violence, and Peace (BHU) - 3cr.
- RELS1090 - Introduction to Interfaith Leadership (BHU) - 3cr.
- RELS3010 - Introduction to Buddhism (DHA) - 3cr.
- RELS3020 - Introduction to Hinduism (DHA) - 3cr.
- RELS3030 - Introduction to Islam (DHA) - 3cr.
- RELS3050 - Introduction to Christianity (DHA) - 3cr.
- RELS3160 - Anthropology of Religion (DSS) - 3cr.

- RELS3165 - Bridging Religious Difference in Theory and Practice: an Introduction to Interfaith Leadership - 3cr.

OR

History

Complete ANY of the following Courses:

- HIST2710 - United States 1877-Present (BAI) - 3cr.
- HIST3010 - Introduction to Buddhism (DHA) - 3cr.
- HIST3020 - Introduction to Hinduism (DHA) - 3cr.
- HIST3030 - Introduction to Islam (DHA) - 3cr.
- HIST3060 - Introduction to Judaism (DHA) - 3cr.
- HIST3615 - Latinx History - 3cr.
- HIST3770 - Contemporary America: World War II to the Cold War - 3cr.
- HIST3950 - Environmental History (DHA/CI) - 3cr.
- HIST4540 - Gender, Violence, and Non-violence - 3cr.
- HIST4710 - American Indian History - 3cr.
- HIST4720 - The Civil Rights Movement (DHA/CI) - 3cr.

OR

Sociology

Complete ANY of the following Courses:

- CJ4200 - Criminal Justice Ethics - 3cr.
- SOC2630 - Sociology of Race and Ethnicity (BSS) - 3cr.
- SOC3200 - Population and Society (DSS) - 3cr.
- SOC3340 - Activism, Protest, and Social Movements (DSS) - 3cr.
- SOC3600 - Finding Community in Today's Society (DSS) - 3cr.
- SOC4350 - People, Power, and the Political - 3cr.
- SOC4410 - Race and Crime (CI) - 3cr.
- SOC4420 - Law and Society (CI) - 3cr.
- SOC4620 - Sociology of the Environment and Natural Resources (DSS) - 3cr.
- SOC4640 - Managing Community Conflict (CI) - 3cr.
- SOC4720 - Effective Community Engagement - 3cr.

OR

Social Work

Complete ANY of the following Courses:

- SW2400 - Social Work with Diverse Populations - 3cr.
- SW5350 - Social Policy and Social Justice (CI) - 3cr.

OR

Jon M. Huntsman School of Business

Complete ANY of the following Courses:

- ECON2010 - Introduction to Microeconomics (BSS) - 3cr.
- MGT3250 - Managing Human Capital - 3cr.
- MGT4600 - Negotiations - 2cr.
- MSLE2700 - 7-Habits of Highly Effective People - 2cr.
- MSLE3800 - Leadership - 2cr.
- MSLE3810 - Personal Leadership - 2cr.
- MSLE3880 - Leading Change: Influence and Strategic Agreements - 2cr. (Inactive)

Track 2: International Leadership and Diplomacy

Type
Completion Requirement

Track Information

See the following:
Students in this track must take the following core courses (5 courses, 12 credits) from the selected list of options and participate in an international internship (2 credit minimum), for a total of 12 credits.

REQUIRED COURSES (12 credits)

Complete ALL of the following Courses:

- CMST1330 - Introduction to Global Communication (BSS) - 3cr.
- POLS2100 - Introduction to International Relations (BSS) - 3cr.
  OR POLS2200 - Comparative Politics (BSS) - 3cr.
  OR POLS2430 - Contemporary Geopolitics (BSS) - 3cr.
- POLS4410 - International Negotiations - 3cr.
- POLS4850 - Public Policy and Community Leadership - 1cr.
  OR POLS4890 - Special Topics - 1cr.
- POLS5950 - International Internship - 1cr.
  OR POLS5960 - International Studies Internship - 1cr.

NOTE:

1. POLS4890 SPECIAL TOPICS - With title “Careers in Government.”

Elective Courses (9 credits)

Students can select a minimum of 3 division courses (3 credits each) from the following departments and colleges, although they must take at least one upper division course each from the Political Science and Communication Department.

Fulfill ANY of the following requirements:

Political Science (3 credits)

Complete at least 1 of the following courses:

- POLS3200 - The Politics of Development (CI/DSS) - 3cr.
- POLS3210 - Western European Government and Politics (DSS) - 3cr.
- POLS3220 - Russian and East European Government and Politics (DSS) - 3cr.
- POLS3230 - Middle Eastern Government and Politics - 3cr.
- POLS3250 - Chinese Government and Politics (DSS) - 3cr.
- POLS3270 - Latin American Government and Politics (DSS) - 3cr.
- POLS3400 - United States Foreign Policy (DSS) - 3cr.
- POLS3410 - International Human Rights System - 3cr.
- POLS3430 - Political Geography (CI/DSS) - 3cr.
- POLS4210 - European Union Politics - 3cr.
- POLS4220 - Ethnic Conflict and Cooperation (CI/DSS) - 3cr.
- POLS4260 - Asian Government and Politics (DSS) - 3cr.
- POLS4280 - Peacebuilding After War - 3cr.
- POLS4350 - Public Policy and Democratic Theory - 3cr.
- POLS4464 - Why Nations Fight? International Security in the 21st Century (DSS) - 3cr.
- POLS5210 - Comparative Political Change/Development - 3cr.
- POLS5270 - Latin American Politics and Development - 3cr.
- POLS5480 - International Trade Policy - 3cr.

- POLS5770 - Strategic Culture - 3cr.

OR

Communication Studies Courses 3(credits)

Complete at least 1 of the following courses:

- CMST2110 - Interpersonal Communication (BHU) - 3cr.
- CMST3250 - Organizational Communication (CI) - 3cr.
- CMST3270 - Culture and Public Discourse (DHA) - 3cr.
- CMST3280 - Organizations and Social Change - 3cr.
- CMST3330 - Intercultural Communication (DSS) - 3cr.
- CMST3400 - Persuasion - 3cr.
- CMST3510 - Development and Philanthropy - 3cr.
- CMST3600 - Communication and Conflict - 3cr.
- CMST3730 - Culture and Global Intervention (DHA) - 3cr.
- CMST4200 - Language, Thought, and Action (CI/DSS) - 3cr.
- CMST4270 - Communication, Culture, and Power - 3cr.
- CMST4330 - Advanced Perspectives in Global Communication (CI) - 3cr.
- CMST4430 - Negotiation in a Global World - 3cr. (Inactive)
- CMST5500 - Communication and Leadership - 3cr.
- CMST5600 - Advanced Communication and Conflict - 3cr.

OR

Other Electives (6 credits)

Fulfill ANY of the following requirements:

Religious Studies

Complete ANY of the following Courses:

- RELS1070 - Religion, Violence, and Peace (BHU) - 3cr.
- RELS1090 - Introduction to Interfaith Leadership (BHU) - 3cr.
- RELS3010 - Introduction to Buddhism (DHA) - 3cr.
- RELS3020 - Introduction to Hinduism (DHA) - 3cr.
- RELS3030 - Introduction to Islam (DHA) - 3cr.
- RELS3050 - Introduction to Christianity (DHA) - 3cr.
- RELS3160 - Anthropology of Religion (DSS) - 3cr.
- RELS3165 - Bridging Religious Difference in Theory and Practice: an Introduction to Interfaith Leadership - 3cr.
- RELS3410 - The Modern Middle East - 3cr.
- RELS3456 - History of South Asia (DHA) - 3cr.

OR

History

Complete ANY of the following Courses:

- HIST3010 - Introduction to Buddhism (DHA) - 3cr.
- HIST3020 - Introduction to Hinduism (DHA) - 3cr.
- HIST3030 - Introduction to Islam (DHA) - 3cr.
- HIST3060 - Introduction to Judaism (DHA) - 3cr.
- HIST3330 - Modern Russia and the Soviet Experiment - 3cr.
- HIST3410 - The Modern Middle East - 3cr.
- HIST3456 - History of South Asia (DHA) - 3cr.
- HIST3460 - Comparative Asian History (DHA) - 3cr.
- HIST3470 - Religion and Politics in South Asia - 3cr.
- HIST3483 - Modern China 1800 to present (DHA) - 3cr.
- HIST3510 - Africa and the World (DHA) - 3cr.
- HIST3560 - Modern East Asia (DHA) - 3cr.
- HIST3630 - History of Modern Latin America - 3cr.
- HIST4540 - Gender, Violence, and Non-violence - 3cr.
- HIST4825 - Historical Roots of the War on Terror (DHA) - 3cr.

OR

Sociology

Complete ANY of the following Courses:

- SOC2650 - Globalization and International Development (BSS) - 3cr.
- SOC3200 - Population and Society (DSS) - 3cr.
- SOC3340 - Activism, Protest, and Social Movements (DSS) - 3cr.
- SOC3600 - Finding Community in Today's Society (DSS) - 3cr.
- SOC4350 - People, Power, and the Political - 3cr.
- SOC4620 - Sociology of the Environment and Natural Resources (DSS) - 3cr.

OR

Social Work

Complete ANY of the following Courses:

- SW2400 - Social Work with Diverse Populations - 3cr.
- SW5350 - Social Policy and Social Justice (CI) - 3cr.

OR

Jon M. Huntsman School of Business

Complete ANY of the following Courses:

- ECN5400 - International Trade Theory - 3cr.
- FIN4300 - International Finance - 3cr.
- MGT3830 - International Law - 2cr.
- MGT4790 - Managing Global Value Chains - 2cr.
- MSLE3820 - International Business (DSS) - 3cr.
- MSLE3880 - Leading Change: Influence and Strategic Agreements - 2cr. (Inactive)

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Undergraduate Academic or Technical Certificates)

Program Learning Outcomes

Program Learning Outcomes

https://artsci.usu.edu/assessments/

Leadership and Management - Minor

Program Overview

College
Jon M. Huntsman School of Business

Department
Marketing and Strategy

Program Level
Undergraduate

Program Requirements

Total Credits Required In Program Coursework
12

Total Credits Required To Earn This Credential
12

Simple Requisites

Program Requirements

A Leadership and Management Minor is available to all majors at the university. Students are responsible for completing prerequisite courses where applicable. A minimum, average 2.5 GPA must be obtained in the Minor for the Minor to be awarded at graduation. Courses for the minor *may not* be taken on a pass/fail basis. At least nine (9) of the credits for the minor must be completed through USU.

Section 1

Type
Completion Requirement

Required Courses (6 credits)

Complete ALL of the following Courses:

- MSLE2700 - 7-Habits of Highly Effective People - 2cr.
- MSLE3710 - Leading Teams - 2cr.
- MSLE3800 - Leadership - 2cr.

Section 2

Type
Completion Requirement

Elective Courses (6 credits)

Earn at least 6 credits from the following:

- CIVC1810 - Lead From Where You Are (BSS) - 3cr.
- MSLE2750 - Enhancing Happiness in Your Life and Career - 3cr.
  OR CIVC1820 - The Social Science of Happiness (BSS) - 3cr.
- MSLE3110 - Managing Organizations and People (DSS) - 3cr.
- MSLE3820 - International Business (DSS) - 3cr.
- MGT3250 - Managing Human Capital - 3cr.
- MGT4600 - Negotiations - 2cr.

One leadership course outside the Huntsman School of Business (beyond classes already listed in the program) can be approved for up to three credits.

Additional Comments:
Any deviation from the program as outlined must be submitted in writing to the department head for approval, including justification for the changes. Please consult with advisor.

Program Learning Outcomes

Program Learning Outcomes
https://huntsman.usu.edu/assessment/assessment-plan

Livestock Extension - Certificate

Program Overview

College
College of Agriculture & Natural Resources

Department
Animal, Dairy & Veterinary Sciences, Applied Sciences, Technology and Education

Program Level
Undergraduate

About this Degree

The Livestock Extension Certificate is a 25-credit program designed to prepare students for careers in Extension, specifically focused on serving the animal agriculture needs of Utah's communities and stakeholders. This certificate is a collaborative effort between the Department of Animal, Dairy and Veterinary Sciences (ADVS) and the Department of Applied Sciences, Technology, and Education (ASTE). The curriculum integrates both disciplinary knowledge in livestock management and practical skills in Extension services.

The program emphasizes hands-on learning and community engagement, equipping students with the skills needed to lead educational outreach programs and apply innovative livestock management practices in the field. This certificate provides a critical educational pathway for students interested in advancing Utah's agricultural sector through Extension work.

Admission Requirements for this Program

Students must be declared in a bachelor's degree program.

Program Requirements

Total Credits Required In Program Coursework
25

Total Credits Required To Earn This Credential
25

Simple Requisites

Program Requirements

1. Attain a grade point average of at least 2.50 across all courses applied toward this certificate.
2. Courses required for the certificate may *not* be taken for a *pass/fail* grade except for courses that are only offered as pass/fail.
3. A minimum grade of C is required in all courses applied toward this certificate.

Required Courses

Type
Completion Requirement

Complete all of the following courses:

Complete ALL of the following Courses:

- ADVS1110 - Introduction to Animal Science (BLS) - 3cr.
- ADVS3920 - Ag Animal Extension Field Experience - 1cr.
- ASTE2100 - Personal and Team Leadership - 3cr.
- ASTE4155 - Nonformal Teaching Methods - 3cr.
- ASTE4215 - Community Programming and Evaluation - 3cr.
- ASTE5220 - Volunteer Programs and Partnerships - 3cr.

Complete three of the following courses:

Complete at least 3 of the following courses:

- ADVS1100 - Small-Scale and Specialty Animal Production - 3cr.
- ADVS2080 - Beef Production Practices - 3cr.
- ADVS2090 - Sheep Production Practices - 3cr.
- ADVS2110 - Poultry Production and Management - 3cr.
- ADVS2120 - Swine Production and Management - 3cr.
- ADVS2130 - Dairy Cattle Production - 3cr.
- ADVS2190 - Horse Production Practices - 3cr.

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Undergraduate Academic or Technical Certificates)

Program Learning Outcomes

Program Learning Outcomes

https://qanr.usu.edu/advs/assessment/

Linguistics - Minor

Program Overview

College
College of Arts & Sciences

Department
World Languages and Cultures

Program Level
Undergraduate

About this Degree

Linguistics is the scientific study of language, exploring language structure, evolution, acquisition, and meaning across human cultures. Linguistics minors develop skills in analysis, critical thinking, communication, research, and more that are useful in a wide range of careers.

Admission Requirements for this Program

https://catalog.usu.edu/pages/xyxP2mhflUUBAvhXSVrY

Program Requirements

Total Credits Required In Program Coursework
12

Total Credits Required To Earn This Credential
12

Simple Requisites

Program Requirements

Linguistics Minor

- Total Credits: 12 (9 credits of required courses, 3 credits of electives)
- Courses for the minor may not be taken on a *Pass/Fail* basis.
- Courses for Minors require a minimum grade of *C-* or better.

Linguistics Minor

Type
Completion Requirement

Required Courses (9 credits)

Earn at least 9 credits from the following:

- LING2100 - Languages in Global and Historical Context (BSS) - 3cr.
- LING2500 - Language & Religion - 3cr.
- LING3100 - Language in Social Context - 3cr.
- LING3200 - Introduction to Linguistics (DSS) - 3cr.
- LING4100 - The Study of Language - 3cr.

Elective Courses (3 credits)

Earn at least 3 credits from the following:

- ARBC4040 - Language and Culture of the Arab World (DHA) - 3cr.
- CHIN3540 - Translating into and from Chinese (CI) - 3cr.
- CMST3330 - Intercultural Communication (DSS) - 3cr.
- CMST4200 - Language, Thought, and Action (CI/DSS) - 3cr.
- ENGL3020 - Perspectives in Linguistics (DHA) - 3cr.
- ENGL4200 - Linguistic Structures - 3cr.
- ENGL4210 - History of English: Change and Diversity - 3cr.
- ENGL5210 - Topics in Linguistics - 3cr.
- FREN3400 - Introduction to Translation - 3cr.
- FREN4200 - French Linguistics and Phonetics - 3cr.
- GERM3540 - Techniques in Translating German Texts (CI) - 3cr.
- GERM4200 - Applied German Linguistics and Phonetics - 3cr.
- JAPN4200 - Introduction to Japanese Linguistics - 3cr.
- LING4900 - Analysis of Cross-Cultural Difference - 3cr.
- PORT3540 - Introduction to Translation Studies in Portuguese - 3cr.
- RUSS3540 - Russian Translation for Science, Business, and Culture - 3cr.
- SPAN3061 - Fundamentals of Translation and Interpretation - 3cr.
- SPAN4200 - Introduction to Hispanic Linguistics - 3cr.

Program Learning Outcomes

Program Learning Outcomes

https://chass.usu.edu/assessments/

Listening and Spoken Language Deaf Education - Post-Master's Certificate

Program Overview

College
College of Education & Human Services

Department
Speech and Hearing Sciences

Program Level
Graduate

Program Requirements

Total Credits Required In Program Coursework
18

Total Credits Required To Earn This Credential
18

Simple Requisites

Program Requirements

Fall semester: students are required to take SHS6340 FOUNDATIONS LIST & SPOKEN LANG and SHS6320 LANG LIT CHILD HL, in addition to practicum, SHS6700 PRACT IN ED DEAF/HH for 3 credit hours, for a total of 9 credit hours Fall semester.
Spring semester: students are required to take SHS6770 AUDIO AND TEACHERS DEAF/HH. They then have a choice of taking one of two options: SHS6350 LS ITINERANT SUP/CHLD DHH or SHS6580 FAMILY CENTERED PRAC IN HL, in addition to practicum, COMD6700 PRACT IN ED DEAF/HH for 3 credit hours, for a total of 9 credit hours Spring semester.

As current professionals, they are already established in their employment settings and can determine if a course in K-12 services (SHS6350 LS ITINERANT SUP/CHLD DHH) or 0-5 Early Intervention services (SHS6580 FAMILY CENTERED PRAC IN HL) is most relevant to them.

Practicum fall and spring semesters: A unique aspect of the program is the individual mentoring students receive in fulfilling the practicum requirements during fall and spring semester (SHS6700 PRACT IN ED DEAF/HH). USU faculty supervisors connect weekly with students to discuss lesson plans, observe them (recorded and real-time) as they are providing services in their employment settings, and provide them with guidance and feedback in service delivery. Students who have completed the program report this to be invaluable to them in connecting theory to practice.

Listening and Spoken Language Deaf Education - Post-Master's Certificate

Type
Completion Requirement

Required Courses

Complete ALL of the following Courses:

- SHS6350 - Early Elementary and Itinerant Support for Children who are DHH using LSL - 3cr.
  OR SHS6580 - Family Centered Practices for Children who are Deaf, Hard of Hearing (DHH) - 3cr.
- SHS6320 - Language Learning and Literacy Acquisition in Children with Hearing Loss - 3cr.
- SHS6770 - Audiology and Teachers of Children who are Deaf and Hard of Hearing - 1cr.
- SHS6700 - Practicum in Education of Children who are Deaf and Hard of Hearing - 1cr.
- SHS6340 - Foundations of Listening and Spoken Language - 3cr.

Program Learning Outcomes

Program Learning Outcomes
https://cehs.usu.edu/shs/assessment/index

Marketing Analytics - Post-Bachelor's Certificate

Program Overview

College
Jon M. Huntsman School of Business

Department
Data Analytics & Information Systems

Program Level
Graduate

About this Degree

Through the collaboration of the Data Analytics and Information Systems (DAIS) and Marketing and Strategy (MSLE) departments, the Marketing Analytics graduate certificate is designed for students with a marketing background who want to build strong, applied analytics skills to compete in today's data-driven marketing profession. This certificate provides a focused, career-relevant pathway that aligns with the Huntsman School's emphasis on real-world impact, employer partnerships, and stackable credentials.

Who should consider this certificate?

- Marketing graduates seeking to deepen quantitative and analytical capabilities.
- Professionals aiming to analyze customer data, optimize campaigns, and demonstrate measurable marketing ROI.
- Anyone pursuing flexible, stackable credentials that complement a broader data analytics skillset.

Note that the Marketing Analytics Post-Bachelor's Certificate can be completed on its own, or it can be stacked with other certificates offered by the Department of Data Analytics and Information Systems (or with designated certificates from other campus programs) to meet the requirements of the Master's of Data Analytics (MDATA) program.

Data Analytics and Information Systems Faculty

Courses in Data Technologies Post-Bachelor's Certificate program are taught by faculty in the Department of Data Analytics and Information Systems who have years of corporate and academic experience. Our instructors are experts in the most cutting-edge tools and strategies for data and tech.

https://huntsman.usu.edu/dais/directory

Admission Requirements for this Program

Prior bachelor's degree with at least a 3.0 GPA in previous 90 credits; relevant coursework or experience in basic data analysis, programming, and marketing.

Program Requirements

Total Credits Required In Program Coursework
12

Total Credits Required To Earn This Credential
12

Simple Requisites

Program Requirements

The certificate requires 12 total credits, with 9 required credits and one additional 3-credit elective course as outlined within the curriculum below. Individual substitutions for course requirements may be considered and approved on a case-by-case basis by the Data Analytics and Information Systems Department.

Courses used to fulfill requirements for this certificate may not include courses previously completed to meet the requirements of any other certificate or program, and cannot be used to complete any other certificate or program.

Courses remain valid for 6 years for potential inclusion in a future master's degree program (MMIS or MDATA).

Certificate students who opt to earn an MMIS or MDATA degree will be granted a waiver for reduced application fees for their future master's application. Please contact our office for details.

Marketing Analytics - Post-Bachelor's Certificate Course Requirements

Type
Completion Requirement

Required Courses (9 credits)

Complete ALL of the following Courses:

- DATA5600 - Introduction to Regression and Machine Learning for Analytics - 3cr.
- DATA6420 - Introduction to Text Mining - 3cr.
- DATA6620 - Advanced Regression for Causal Inference - 3cr.

Additional Courses (3 credits)

Complete ANY of the following Courses:

- DATA6410 - Visual Data Analytics - 3cr.
- DATA6610 - Advanced Machine Learning for Analytics - 3cr.

Program Learning Outcomes

Program Learning Outcomes

USU Learning Outcomes Assessment - Marketing Analytics certificate

Museum Administration and Collections Management - Post-Bachelor's Certificate

Program Overview

College
College of Arts & Sciences

Department
School of Social Sciences

Program Level
Graduate

About this Degree

Program Director: Dr. Jacob Freeman, Department of Sociology and Anthropology
Graduate Program Director: Dr. Judson Finley, Department of Sociology and Anthropology

Department Head: Dr. Judson Finley, Department of Sociology and Anthropology
Location: Old Main 245
Phone: (435) 797-0219
WWW: https://chass.usu.edu/anthropology/index

The Post-Bachelor's Certificate in Museum Administration and Collections Management Policy is designed to prepare both fully matriculated graduate students as well as current professionals in the field wishing to enhance their portfolios in Museum Administration and Collections Management. The certificate combine graduate level anthropology courses as well as courses offered from the School of Business and the College of Agriculture and Applied Sciences. This certificate may be earned as a stand-alone certification or as part of the USU Anthropology Graduate Program.

Students who complete the program will receive a post-bachelor's certificate in Museum Administration and Collections Management Policy. Their USU transcript will list the courses and grades received to complete the program.

Admission Requirements for this Program

To apply for admittance to the program, a person must complete and submit an application to the School of Graduate Studies. Academic credits obtained from the program may be applied toward a graduate degree.

To apply, the School of Graduate Studies requires:

1. A bachelor's degree (or, for some doctoral programs, a master's degree) that is or will be completed before the student matriculates in the degree program.
2. A 3.0 or higher grade-point average for terms that include the student's last 60 semester credits or 90 quarter credits.
3. Resume/CV
4. International applicants are required to submit proof of proficiency in English.

Program Requirements

Total Credits Required In Program Coursework
18

Total Credits Required To Earn This Credential
18

Simple Requisites

Program Requirements

- The Museum Administration and Collections Management Graduate Certificate will consist of the following classes for a total of 18 credits.
- A minimum 3.0 GPA for program courses must be maintained. Course grades less than a B (B- and below) do not count toward the certificate.

Museum Administration and Collections Management - Post-Bachelor's Certificate

Type
Completion Requirement

Required Courses (12 credits)

Complete ALL of the following Courses:

- ANTH6400 - Collections Management - 1cr.
- ANTH6800 - Museum Development - 1cr.
- ANTH6810 - Museum Collections Law, Policy, and Best Practices - 3cr.
- ANTH6820 - Museum Collections Handling - 3cr.

Electives (6 credits)

Complete at least 2 of the following courses:

- ASTE6170 - Program Planning and Evaluation - 3cr.
- ASTE6180 - Administration and Leadership - 3cr.
- ASTE6220 - Volunteer Programs and Partnerships - 3cr.
- HIST6020 - Public History - 3cr.
- HIST6840 - Archives Management/Archives Internship - 1cr.
- HIST6860 - Special Topics in Public History - 1cr.
- MGT6320 - Leadership, Talent, and Organizational Effectiveness - 3cr.
- MGT6500 - Managing Individuals and Groups - 3cr.

Program Learning Outcomes

Program Learning Outcomes

https://chass.usu.edu/assessments/

Marketing Design - Minor

Program Overview

College	Department	Program Level
Jon M. Huntsman School of Business	Instructional Technology & Learning Sciences, Marketing and Strategy	Undergraduate

About this Degree

The most successful products and services are designed with the end user, the customer, in mind. The Marketing Design minor explores the customer-product interface, Whether an app, a physical product, software, physical space, or service, the product offering must make sense to the customer.

The Marketing Design Minor is a collaboration between the Department of Marketing and Strategy (MSLE) in the Huntsman School of Business and the Department of Instructional Technology and Learning Sciences (ITLS) in the Emma Eccles Jones College of Education. Students will learn the fundamentals of marketing and customer behavior and have options of taking courses in instructional design, product design, or multimedia design. Students earning this minor are qualified for careers in User Experience and User Interface Design, Project and Product Management, Web Development, Learning Design, and Data Analysis.

Program Requirements

Total Credits Required In Program Coursework	Total Credits Required To Earn This Credential
14	14

Simple Requisites

Program Requirements

A Marketing Design Minor is available to all majors at the university. Students are responsible for completing prerequisite courses where applicable. A minimum, average 2.5 GPA must be obtained in minor coursework for the minor to be awarded at graduation. Courses for the minor *may not* be taken on a pass/fail basis. At least nine (9) of the credits for the minor must be completed through USU.

Required Core Courses

Type
Completion Requirement

Required Courses

Complete ALL of the following Courses:

- MSLE3200 - Adobe Graphic Design - 3cr.
- MSLE3500 - Fundamentals of Marketing - 3cr.
- MSLE3620 - Marketing Research and Analytics - 2cr.
- ITLS3110 - Design Perspectives and Processes I - 3cr.

Elective courses. Complete at least one of the following courses:

Type
Completion Requirement

Elective Courses (3 credits)

Complete at least 1 of the following courses:

- ITLS3120 - Design Perspectives and Processes II - 3cr.
- ITLS3130 - How People Learn - 3cr.
- ITLS5215 - Video and Audio Design and Production I - 3cr.
- ITLS5230 - Graphic Design and Production I - 3cr.
- ITLS5265 - Internet Design and Development - 3cr.
- ITLS5270 - Digital Making and Learning - 3cr.

A minimum GPA of 2.50 is required in every minor course.

Program Learning Outcomes

Program Learning Outcomes

https://huntsman.usu.edu/assessment/assessment-plan

https://cehs.usu.edu/itls/

Manufacturing and Design Technology - Certificate

Program Overview

College
College of Agriculture & Natural Resources

Department
Technology, Design & Technical Ed

Program Level
Undergraduate

About this Degree

The Manufacturing and Design Technology Certificate is designed to provide students with essential technical skills in manufacturing and design, preparing them for immediate entry into the workforce or further study in related fields. This hands-on, skills-based program emphasizes the use of industry-standard tools and techniques, with a strong focus on computer-aided design (CAD), manufacturing processes, and quality assurance.

Students will gain practical experience in areas such as graphic communication, materials processing, automation, electronics, and engineering technology communication. The curriculum is tailored to meet the needs of today's manufacturing industry and is ideal for students seeking a robust, applied education in technical design and production.

Career Relevance

Graduates of this program will be well-prepared for careers in manufacturing, product design, automation, and related technical fields. The certificate responds directly to industry demand for skilled professionals and supports students in building a strong foundation for long-term career success.

Program Highlights

This 31-credit certificate program is particularly valuable for students who did not attend a Utah technical college and therefore lack a formal credential in a related field. It also serves as a stackable credential within the department's Associate of Applied Science (AAS) Degree in General Technology, offering a clear pathway for continued education and career advancement.

Program Requirements

Total Credits Required In Program Coursework
31

Total Credits Required To Earn This Credential
31

Simple Requisites

Program Requirements

Required Courses

Type
Completion Requirement

Required Courses

Complete ALL of the following Courses:

- ETEC2020 - Introduction to Automation - 3cr.
- ETEC2200 - Engineering Technology Communications - 3cr.
- ETEC2300 - Introduction to Electronics - 4cr.
- ETEC2310 - Electronics Systems - 3cr.
- TEE1010 - Graphic Communication Technologies - 3cr.
- TEE2030 - Wood-Based Manufacturing Systems - 3cr.
- TESY1020 - Energy, Power, Transportation Systems Control Technology - 3cr.
- TESY1030 - Material Processing Systems - 3cr.
- TESY1200 - Computer-Aided Drafting and Design - 3cr.
- TESY2200 - Intermediate CAD - 3cr.

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Undergraduate Academic or Technical Certificates)

Program Learning Outcomes

Program Learning Outcomes

https://agnr.usu.edu/tdte/assessment/

Mathematics Education - Minor

Program Overview

College
College of Arts & Sciences

Department
Mathematics & Statistics

Program Level
Undergraduate

About this Degree

The Mathematics Education minor satisfies Utah requirements for the Middle School Mathematics Teaching Endorsement which qualifies educators to teach 6th grade through 9th grade mathematics. (https://schools.utah.gov/curr/mathematics/endorsements).

This program is recommended for future educators who want to add mathematics to another teaching major.

Program Requirements

Total Credits Required To Earn This Credential

32-34

Simple Requisites

Program Requirements

32-34 credits

Section 1

Type
Completion Requirement

Requirements (32-34 credits)

Complete ALL of the following Courses:

- MATH1210 - Calculus I (QL) - 4cr.
- STAT3000 - Statistics for Scientists (QI) - 3cr.
- MATH1220 - Calculus II (QL) - 4cr.
  OR MATH3310 - Discrete Mathematics - 3cr.
- DSAI2275 - Linear Algebra for Data Science - 4cr.
  OR MATH2250 - Linear Algebra and Differential Equations (QI) - 4cr.
  OR MATH2270 - Linear Algebra (QI) - 3cr.
- MATH3010 - Pedagogical Foundations of Algebra - 3cr.
  OR MATH5400 - Mathematics and Its History - 3cr.
- MATH5500 - Methods of Secondary School Mathematics Teaching - 3cr.
  OR TEAL5064 - Methods for Teaching Middle Level Mathematics - 3cr.
- MATH3300 - School Laboratory for Mathematics Teachers Level I - 1cr.
- STAT4010 - Probability and Statistics for Teachers - 3cr.
- MATH3110 - Modern Geometry - 3cr.
- MATH5010 - Technology for Teaching Mathematics - 3cr.
- MATH5020 - Mathematical Cognition and Assessment of Mathematical Achievement - 3cr.

Section 2

Type
Completion Requirement

Licensure

Secondary Teacher Education Program (STEP)

To be licensed to teach in the Utah public secondary school system, completion of the Secondary Teacher Education Program (STEP) for the student's secondary education major is also required. Admission to the STEP requires an overall GPA of 3.00 and a C or better in all requirements.

Additional Comments:

Program Learning Outcomes

Program Learning Outcomes

https://www.usu.edu/math/assessment/Mathematics

Mathematics Education - BA, BS

Program Overview

College
College of Arts & Sciences

Department
Mathematics & Statistics

Program Level
Undergraduate

About this Degree

The mathematics education major is designed to prepare teachers of mathematics at the middle and high school levels. USU's math education program is recognized as the largest and the best in the state, with 100% of its graduates receiving teaching positions in school districts upon graduation.

Students in the program learn much higher math than they will ever teach in middle school or high school, making them experts in their subject area. They also take methods courses where they learn how to teach the material to students and have early experience in actual classrooms, making them more familiar and comfortable with these settings before they begin their student teaching.

Students receive a BS by completing all required courses in the major. To receive a BA, students must also gain proficiency in one or more foreign languages. See Undergraduate Academic Credential Requirements for language requirements.

- For more information about Mathematics Education, see the website.
- Admitted and current students must meet with an advisor - Linda Skabelund.
- Log on to Degree Works to check student-specific program progress.

Admission Requirements for this Program

- New freshmen must be admitted to USU in Good Standing.
- Transfer students from other institutions or other programs at USU must have a 3.0 GPA; ACT scores of 21 composite or 20 verbal/ English and 19 mathematics/quantitative.

In addition to Utah State University's admissions requirements, the mathematics education program has additional requirements:

New freshmen admitted to USU in good standing qualify for admission to this major. A 3.0 GPA, ACT scores of 21 composite and 20 verbal/English and 19 mathematics/quantitative and 30 credits of coursework are required for admission to the Secondary Teacher Education Program (STEP). Students should contact the School of Teacher Education and Leadership (TEAL) for information on additional admission criteria.

Transfer students from other institutions or other USU majors need a 3.0 GPA, ACT scores of 21 composite and 20 verbal/English and 19 mathematics/ quantitative to be admitted to the major. They also need 30 credits of coursework to be admitted to the STEP. Students should contact the School of Teacher Education and Leadership (TEAL) for information on additional admission criteria.

Program Requirements

Total Credits Required In Program Coursework
35

Total Credits Required To Earn This Credential
120

Simple Requisites

Program Requirements

In order to obtain a secondary teaching license for grades 6-12, students must complete the 35-credit Secondary Teacher Education Program (STEP), which includes one semester of student teaching in a public school. This program is administered by USU's School of Teacher Education and Leadership (TEAL) within the Emma Eccles Jones College of Education and Human Services. Student must apply to the School of TEAL the semester before taking STEP courses. This is usually the fall of their junior year. Students learn subject content through the Mathematics and Statistics Department, and spend the last year or two studying education techniques through the STEP program.

A grade of C or better is required in all courses taken for the major. Program coursework *may not* be taken on a pass/fail basis, except MATH4300 SCHOOL MATH LAB II **and** SCED5630 STUDENT TEACHING SEC SCHOOL**. A cumulative GPA of 3.0 is required to be recommended for graduation.**

Some major coursework may fulfill the General Education Requirements, or University Studies Requirements.

- Two courses having the CI designation (such as MATH4200 FOUNDATIONS OF ANALYSIS (CI), MATH4310 INTRO ALGEBRAIC STRC (CI), MATH5580 ACTUARIAL MATH II (CI), and STAT5100 MODERN REGRESSION METH(CI)(QI)) will meet the Communications Intensive (CI) requirement.
- One course having the QI designation (such as MATH2210 MULTIVARIABLE CALCULUS (QI), MATH2250 LINEAR ALG/DIFF EQUATIONS (QI), MATH2270 LINEAR ALGEBRA (QI), MATH2280 ORD DIFFRNTIAL EQUATIONS (QI), STAT2000 STATISTICAL METHODS (QI), and STAT3000 STATISTICS FOR SCIENTISTS (QI)) will meet the Quantitative Intensive (QI) requirement.

Mathematics Education - BA, BS

Type
Completion Requirement

Major Requirements (35 credits)

Complete ALL of the following Courses:

- MATH1210 - Calculus I (QL) - 4cr.
- MATH1220 - Calculus II (QL) - 4cr.
- MATH2210 - Multivariable Calculus (QI) - 3cr.
- MATH2270 - Linear Algebra (QI) - 3cr.
- MATH2280 - Ordinary Differential Equations (QI) - 3cr.
- MATH3110 - Modern Geometry - 3cr.
- MATH3310 - Discrete Mathematics - 3cr.
- MATH4200 - Foundations of Analysis (CI) - 3cr.
- MATH4310 - Introduction to Algebraic Structures (CI) - 3cr.
- MATH5400 - Mathematics and Its History - 3cr.
  OR MATH3010 - Pedagogical Foundations of Algebra - 3cr.
- STAT3000 - Statistics for Scientists (QI) - 3cr.

Clinicals (13 credits)

Must be taken after students are admitted into the SCED program and within the year before student teaching.

MATH3300 SCHOOL MATH LAB I is not required for students with teaching minors in other departments.

Earn at least 13 credits from the following:

- MATH3300 - School Laboratory for Mathematics Teachers Level I - 1cr.
- MATH4300 - School Laboratory for Mathematics Teachers Level II - 1cr.
- MATH5010 - Technology for Teaching Mathematics - 3cr.
- MATH5020 - Mathematical Cognition and Assessment of Mathematical Achievement - 3cr.
- MATH5500 - Methods of Secondary School Mathematics Teaching - 3cr.
- STAT4010 - Probability and Statistics for Teachers - 3cr.

Mathematics Secondary Teaching Requirements (24 credits)

Earn at least 24 credits from the following:

- SCED3210 - Educational and Multicultural Foundations (DSS/CI) - 3cr.
- SCED5100 - Motivation and Classroom Management - 3cr.
- SCED5200 - Language, Literacy, and Learning in the Content Areas (CI) - 3cr.
- SCED5500 - Student Teaching Seminar - 2cr.
- SCED5630 - Student Teaching in Secondary Schools - 10cr.
- SPED4000 - Education of Students with Disabilities - 3cr.

College of Science Sequence (6-8 credits)

Choose one of the following sequences:

Fulfill ANY of the following requirements:

Biology Sequence

Complete ALL of the following Courses:

- BIOL1610 - Biology I - 3cr.
- BIOL1620 - Biology II (BLS) - 3cr.

OR

Chemistry Sequence

Complete ALL of the following Courses:

- CHEM1210 - Principles of Chemistry I - 4cr.
- CHEM1220 - Principles of Chemistry II (BPS) - 4cr.

OR

Geology Sequence

Complete ALL of the following Courses:

- GEO1110 - Physical Geology (BPS) - 3cr.
  AND GEO1115 - Physical Geology Laboratory - 1cr.
- GEO2200 - The Earth Through Time - 3cr.

OR

Physics Sequence

Complete one of the following coursesets.

Complete ANY of the following Courses:

- PHYS2110 - General Physics—Life Sciences I - 4cr.
  AND PHYS2120 - General Physics - Life Sciences II (BPS) - 4cr.
- PHYS2210 - Physics for Scientists and Engineers I (QI/BPS) - 4cr.
  AND PHYS2220 - Physics for Scientists and Engineers II (BPS/QI) - 4cr.

OR

Computer Science Sequence

Complete ALL of the following Courses:

- CS1400 - Introduction to Computer Science--CS 1 - 4cr.
- CS1410 - Introduction to Computer Science--CS 2 (QI) - 3cr.
  OR CS1440 - Software Engineering Fundamentals - 3cr.

Open Electives

Complete the following as needed:

Total elective credit is determined by General Education courses taken, degree type selected, additional credits earned, and any additional math or other prerequisite courses needed. Please consult your Academic Advisor for details.

Additional Comments:

Licensure Notification

This program typically leads to licensure and was designed to meet licensing qualifications in the state of Utah. If students wish to work in another state within the United States, they should review the qualifications for that state and the Education Licensure Compliance Table provided by School of Teacher Education and Leadership.

For more information, please contact the School of Teacher Education and Leadership at https://cehs.usu.edu/teal/

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Bachelor's Degree)

Suggested Degree Maps

Degree Map Name
Suggested Degree Map - Mathematics Education BA, BS
Total Degree Map Credits
114 - 115
Degree Map Effective Catalog Year
2026 -

Degree Map Narrative

- Following is a sample four-year plan. Please note that student-specific plans may differ.
- Meet with an academic advisor to create a specific plan that best fits your academic needs.
- The student is ultimately responsible for knowing and completing all degree requirements.
- Make sure you meet the registration requirements for each class by clicking the course link and checking any prerequisites or corequisites.
- Consultation with an advisor may result in an altered plan customized for an individual student.
- Check your Degree Works for requirements and completion.

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	14	0

Requirement Select

- ENGL1010 - Writing as Inquiry (CL1)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- MATH1210 - Calculus I (QL)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- College of Science Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- College of Science Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Breadth Life Sciences (BLS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Breadth Creative Arts (BCA) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Breadth American Institutions (BAI) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	17	0

Requirement Select
- MATH1220 - Calculus II (QL)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	15 - 16	0

Requirement Select

- ENGL2010 - Research and Argument Across Perspectives (CL2)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- MATH2210 - Multivariable Calculus (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- MATH2270 - Linear Algebra (QI)

  OR
- DSAI2275 - Linear Algebra for Data Science

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 4
Progress Credits	-
Contact Hours	3 - 4
Clinical	-
Criticality	No

Requirement Select

- Breadth Physical Sciences (BPS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Breadth Social Sciences (BSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	15	0

Requirement Select

- MATH3310 - Discrete Mathematics

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- MATH3110 - Modern Geometry

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- SPED4000 - Education of Students with Disabilities

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- STAT3000 - Statistics for Scientists (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Fall	15	0

Requirement Select

- MATH2280 - Ordinary Differential Equations (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- MATH4200 - Foundations of Analysis (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- SCED5100 - Motivation and Classroom Management

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- SCED3210 - Educational and Multicultural Foundations (DSS/CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Breadth Humanities (BHU) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Spring	13	0

Requirement Select

- MATH4300 - School Laboratory for Mathematics Teachers Level II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- MATH5400 - Mathematics and Its History
  OR
- MATH3010 - Pedagogical Foundations of Algebra

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- MATH5500 - Methods of Secondary School Mathematics Teaching

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- SCED5200 - Language, Literacy, and Learning in the Content Areas (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Fall	13	0

Requirement Select

- MATH4310 - Introduction to Algebraic Structures (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- STAT4010 - Probability and Statistics for Teachers

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- MATH5010 - Technology for Teaching Mathematics

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- MATH5020 - Mathematical Cognition and Assessment of Mathematical Achievement

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- MATH3300 - School Laboratory for Mathematics Teachers Level I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Spring	12	0

Requirement Select

- SCED5500 - Student Teaching Seminar

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select

- SCED5630 - Student Teaching in Secondary Schools

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	10
Progress Credits	-
Contact Hours	10
Clinical	-
Criticality	No

Total General Education Credits
0

Total Major Credits
0

Total Minor Credits
0

Total Elective Credits
0

Program Learning Outcomes

Program Learning Outcomes

https://catalog.usu.edu/preview_program.php?catoid=38&poid=36904&returnto=29050

Marketing - Minor

Program Overview

College
Jon M. Huntsman School of Business

Department
Marketing and Strategy

Program Level
Undergraduate

Program Requirements

Total Credits Required In Program Coursework
12

Total Credits Required To Earn This Credential
12

Simple Requisites

Program Requirements

A Marketing Minor is available to all majors at the university (except for Marketing Majors). Students are responsible for completing prerequisite courses where applicable. A minimum, average 2.5 GPA must be obtained in the Minor for the Minor to be awarded at graduation. Courses for the minor *may not* be taken on a pass/fail basis. At least nine (9) of the credits for the minor must be completed through USU.

Marketing Minor Required Courses (12 credits)

Type
Completion Requirement

Required Classes (7 credits)

Complete ALL of the following Courses:

- MSLE3500 - Fundamentals of Marketing - 3cr.
- MSLE3620 - Marketing Research and Analytics - 2cr.
- MSLE4510 - Consumer Behavior - 2cr.

Elective Courses (Complete at least 5 credits)

Earn at least 5 credits from the following:

- MSLE3200 - Adobe Graphic Design - 3cr.
- MSLE3530 - New Venture Marketing - 3cr.
- MSLE3630 - E-Commerce and Internet Marketing - 2cr.
- MSLE3855 - Sustainability Marketing - 2cr.
- MSLE4050 - International Marketing - 3cr.
- MSLE4535 - Promotional Strategy - 2cr.
- MSLE4545 - Digital Marketing - 2cr.
- MSLE4555 - Pricing & B2B Buyer-Seller Decisions - 2cr.
- MSLE4560 - Strategic Sales (CI) - 2cr.
- MSLE4590 - Marketing Strategy - 3cr.

Program Learning Outcomes

Program Learning Outcomes

https://huntsman.usu.edu/assessment/assessment-plan

Marketing - BA, BS

Program Overview

College
Jon M. Huntsman School of Business

Department
Marketing and Strategy

Program Level
Undergraduate

About this Degree

The marketing major prepares students to understand brand management and the marketing needs of companies ranging from major consumer product companies to small businesses. As part of the marketing major, students can pursue coursework specialization related to digital marketing and e-commerce, marketing research and analytics, corporate buying and category management, business sustainability, small business marketing, consumer psychology, and/or business to business (B2B) professional selling.

- For more information about Marketing, see the website.
- Admitted and current students must meet with an advisor.
- Log on to Degree Works to check student-specific program progress.
- The highest math requirement for this degree is MATH1050 COLLEGE ALGEBRA (QL) OR STAT1040 INTRO TO STATISTICS (QL).

Admission Requirements for this Program

First-Year and Transfer Students are admitted to the Huntsman School of Business based on USU's Admission Requirements.

Current USU Students in good standing qualify for admission into a Huntsman School major.

Huntsman School Admission Details: https://huntsman.usu.edu/undergraduate/apply

Program Requirements

Total Credits Required In Program Coursework
70

Total Credits Required To Earn This Credential
120

Simple Requisites

Program Requirements

Students must complete the university General Education Requirements

Students must also complete the University Studies Requirements

- Elective credits needed will be determined on an individual basis (a student with continuing education, AP credits, and language credits may not require additional elective credits).
- Completing a minor or set of certificates is recommended to fulfill elective credits.
- All marketing majors need to complete an internship or equivalent career accelerating work experience before graduation. See description of college career accelerator program further below.
- This major requires an overall GPA of 2.0 and a GPA of 2.5 in all major requirements. Major requirements *may not* be taken for a pass/fail grade.

Career Paths

A wide variety of career paths are possible in the Marketing major, for example:

1. Marketing Research and Analytics
2. Product Development and Brand Management
3. E-Commerce and Digital Marketing
4. Advertising and Content Creation
5. Corporate Buying and Corporate Sales

Marketing - BA, BS Course Requirements

Type
Completion Requirement

Business Acumen (46-47 credits)

All acumen courses must have a minimum grade of C unless otherwise stated.

Complete ALL of the following Courses:

- MSLE3500 - Fundamentals of Marketing - 3cr.
- ACCT2010 - Financial Accounting Principles - 3cr.
- ACCT2020 - Managerial Accounting Principles - 3cr.
- BUS3200 - Professional Communication with AI (CI) - 3cr.
- DATA1100 - Excel for Business Analysis - 1cr.
- DATA2100 - Data and Information in Business - 3cr.
- DATA3100 - Making Decisions with Data - 3cr.
- DATA3300 - Introduction to Modern Data Analytics (QI) - 3cr.
- ECON2010 - Introduction to Microeconomics (BSS) - 3cr.
- ECON2020 - Introduction to Macroeconomics (BAI) - 3cr.
- ECON3050 - Foundations of Business: Capitalism, Markets, and Innovation - 3cr.
- FIN3200 - Corporate Finance (QI) - 3cr.
- FIN3300 - Investments - 3cr.
- MGT3350 - Legal and Ethical Environment of Business - 3cr.
- MGT3700 - Operations Management - 3cr.
- MSLE3800 - Leadership - 2cr.
- MSLE3890 - Systems Strategy and Problem Solving - 2cr.

Marketing majors require a B- grade or higher in MSLE 3500

Beginning Fall 2026, all Majors (not Minors) in the Huntsman School of Business are required to participate in a career accelerating experience (aka the Career Acceleration Program, or CAP); the requirement for CAP varies by Major. The listed MSLE4250 internship elective course (further below) does count as one of the options for CAP for marketing Majors. Please see your assigned marketing student advisor in the advising office for the full list of approved marketing CAP activities.

Major Requirements

All majors in the Huntsman School of Business require 70 hours split between acumen and major courses. Currently the acumen is 47 credits. Thus, in addition to the business acumen classes, marketing majors must complete 23 credits in marketing courses, split across the marketing core and electives as currently follows:

Fulfill ALL of the following requirements:

Required Marketing Courses (15 credits)

Complete ALL of the following Courses:

- MSLE3610 - Strategic Planning for Career and Life (CI) - 2cr.
- MSLE3620 - Marketing Research and Analytics - 2cr.
- MSLE4510 - Consumer Behavior - 2cr.
- MSLE4535 - Promotional Strategy - 2cr.
- MSLE4545 - Digital Marketing - 2cr.
- MSLE4560 - Strategic Sales (CI) - 2cr.
- MSLE4590 - Marketing Strategy - 3cr.

Note: MSLE3500 is a prerequisite for several of the required marketing classes. MSLE 3500 is not shown in this section of courses because it is already previously listed as a part of the required business acumen courses.

Marketing Elective Credits (8 credits)

Earn at least 8 credits from the following:

- MSLE3200 - Adobe Graphic Design - 3cr.
- MSLE2800 - HMA Consulting - 1cr.
- MSLE2850 - PhD Prep Seminar - 1cr.
- MSLE2900 - Pro Sales - 1cr.
- MSLE3530 - New Venture Marketing - 3cr.
- MSLE3630 - E-Commerce and Internet Marketing - 2cr.
- MSLE3855 - Sustainability Marketing - 2cr.
- MSLE4050 - International Marketing - 3cr.
- MSLE4250 - Marketing-Strategy-Leadership-Entrepreneurship Internship - 2cr.
  OR ACCT4250 - Accounting Internship - 3cr.
  OR FIN4250 - Finance Internship - 1cr.
  OR MGT4250 - Management Internship - 1cr.
  OR ECON4920 - Economics Internship - 1cr.
  OR IS4250 - Data Analytics and Information Systems Internship - 1cr.
- MSLE4555 - Pricing & B2B Buyer-Seller Decisions - 2cr.
- MSLE4565 - Sales Management - 2cr.
- MSLE4575 - Customer Success Strategy - 2cr.
- MSLE4580 - Artificial Intelligence in Marketing Experimental Design - 2cr.

Note:

- MSLE2800 HMA CONSULTING, MSLE2850 PHD PREP, and MSLE2900 PRO SALES are each repeatable, but limited to 2 credits combined towards elective Marketing major credit.
- Two credits combined towards elective Marketing major credit can be taken from the listed different 4250 internship courses.
- Suggested course for different elective courses for different marketing career focus areas:

  · **Marketing Analytics:** Take MSLE3620 MARKETING RESEARCH ANALYTICS, MSLE4555 PRICING&B2B BUY-SELL DECISIONS, and at least two of either DATA5420 INTRO TEXT MINING, DATA5480 DATA MINING, DATA5600 INTRO REGRESSION MACHINE LEARN, or DATA5620 CAUSAL INFERENCE

  · **Digital & E-Commerce Marketing:** Take MSLE3630 E-COMMERCE MARKETING, MSLE4545 DIGITAL MARKETING, MSLE4555 PRICING&B2B BUY-SELL DECISIONS, and either JCOM3120 EDITING AND DESIGN (CI) or JCOM4040 SOCIAL MEDIA CONTENT DEVELOP

  · **B2B/Category Management/E-Commerce:** Take MSLE3630 E-COMMERCE MARKETING, MSLE4555 PRICING&B2B BUY-SELL DECISIONS and one or more of MSLE4560 STRATEGIC SALES (CI), MSLE4575 CUSTOMER SUCCESS STRATEGY

  · **Corporate B2B Sales:** MSLE4560 STRATEGIC SALES (CI), MSLE4565 SALES MANAGEMENT, MSLE4575 CUSTOMER SUCCESS STRATEGY, and 2 credits of MSLE2900 PRO SALES

  · **Business Sustainability:** MSLE3855 SUSTAINABILITY MARKETING, MGT4790 MANAGING GLOBAL VALUE CHAINS, and either ADVS5030 SUSTAINABLE AG PROD SYSTEMS, ENVS5550 SUSTAINABILITY CONCEPTS MSRMNT, WATS1200 NATURAL WORLD (BLS). Additional sustainability courses can be found at: https://www.usu.edu/sustainability/programs/academic/usu-courses

Open Electives

Complete the following as needed:
Total elective credit is determined by General Education courses taken, degree type selected, additional credits earned, and any additional math or other prerequisite courses needed. Please consult your Academic Advisor for details.

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Bachelor's Degree)

Suggested Degree Maps

Degree Map Name
Suggested Degree Map - Marketing BA, BS
Total Degree Map Credits
85 - 94
Degree Map Effective Catalog Year
2027 -

Degree Map Narrative

- Following is a sample four-year plan. Please note that student-specific plans may differ.
- Meet with an academic advisor to create a specific plan that best fits your academic needs.
- The student is ultimately responsible for knowing and completing all degree requirements.
- Make sure you meet the registration requirements for each class by clicking the course link and checking any prerequisites or corequisites.
- Consultation with an advisor may result in an altered plan customized for an individual student.
- Check your Degree Works for requirements and completion.

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	13 - 15	0

Requirement Select

- BUS1000 - HSB Freshmen Academy

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- USU1010 - University Connections

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select
- Communications Literacy (CL1) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- MATH1050 - College Algebra (QL)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- Breadth Life Sciences (BLS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	15	0

Requirement Select
- MSLE3500 - Fundamentals of Marketing

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- ECON2010 - Introduction to Microeconomics (BSS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Communications Literacy (CL2) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- ACCT2010 - Financial Accounting Principles

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Breadth Creative Arts (BCA) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	13 - 17	0

Requirement Select
- MSLE3610 - Strategic Planning for Career and Life (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select
- MSLE3620 - Marketing Research and Analytics

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select
- ACCT2020 - Managerial Accounting Principles

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Breadth Physical Sciences (BPS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	0 - 4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- BUS3200 - Professional Communication with AI (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Breadth Humanities (BHU) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	11	0

Requirement Select
- MSLE4510 - Consumer Behavior

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select
- MSLE4560 - Strategic Sales (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select
- DATA1100 - Excel for Business Analysis

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- DATA2100 - Data and Information in Business

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- ECON3050 - Foundations of Business: Capitalism, Markets, and Innovation

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Open Elective Credit (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Fall	10	0

Requirement Select
- MSLE4535 - Promotional Strategy

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select
- MSLE4545 - Digital Marketing

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select
- Marketing Elective (2 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- FIN3200 - Corporate Finance (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- DATA3100 - Making Decisions with Data

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Open Elective Credit (2 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Spring	9	0

Requirement Select
- MSLE4560 - Strategic Sales (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select
- Marketing Elective (2 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- FIN3300 - Investments

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- MSLE3800 - Leadership

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select
- MSLE3800 - Leadership

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select

- Open Elective Credit (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Fall	10 - 12	0

Requirement Select

- MSLE4590 - Marketing Strategy

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- MGT3350 - Legal and Ethical Environment of Business

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- MGT3700 - Operations Management

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Depth Humanities and Creative Arts (DHA) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1 - 3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Open Elective Credit (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Spring	4 - 5	0

Requirement Select

- MSLE3890 - Systems Strategy and Problem Solving

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select

- Depth Life and Physical Sciences (DSC) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2 - 3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Marketing Elective (2 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Marketing Elective (2 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Open Elective Credit (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Open Elective Credit (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Program Learning Outcomes

Program Learning Outcomes

https://www.usu.edu/oda/assessment/

Marine Science - Minor

Program Overview

College
College of Agriculture & Natural Resources

Department
Watershed Sciences

Program Level
Undergraduate

About this Degree

Through coursework and immersive experiences, the marine science minor introduces students to marine ecosystems, marine biota, the chemical and physical properties of the ocean and the seafloor, and the conservation and management of marine resources.

The marine science minor is limited to students enrolled in a Watershed Sciences bachelor's degree program to ensure students have the relevant complementary science background and experiences to make the minor a valuable addition when they are applying for jobs. The marine science minor requires students to complete a minimum of 20 credits, 14 of which are required courses that span a breadth of marine subdisciplines. The remaining 6 credits can be achieved by taking at least two electives from a list of curated courses. The curriculum was developed to ensure that USU marine science minors receive a rigorous program of study with several opportunities for experiential learning. The minor requirements are achievable for individuals enrolled in a Watershed Sciences bachelor's degree with no additional time required to earn their degree.

Program Requirements

Total Credits Required In Program Coursework
20

Total Credits Required To Earn This Credential
20

Simple Requisites

Program Requirements

All courses required for the Fisheries Science minor must be taken on an *A-B-C-D-F* basis. A grade of *C-* or better is required for all WATS courses used to meet requirements for this minor.

Section 1

Type
Completion Requirement

Required Courses (14 credits)

Complete ALL of the following Courses:

- WATS2500 - Introduction to Marine Biology (BLS) - 3cr.
- WATS3000 - Oceanography (DSC) - 3cr.
  OR GEO3300 - Geology of the World's Oceans (DSC) - 3cr.
- WATS3100 - Fish Ecology, Conservation, and Management (CI/DSC) - 3cr.
- WATS3110 - Fish Ecology, Conservation, and Management Lab - 1cr.
- WATS5540 - Ichthyology - 4cr.

Section 2

Type
Completion Requirement

Electives (6-7 credits)

Earn at least 6 credits from the following:

- APEC3012 - Introduction to Natural Resource Economics
- GEO3550 - Sedimentation and Stratigraphy - 4cr.
- ENVS5350 - Ecological Economics - 3cr.
- GEOG5400 - Natural Hazards and Society - 3cr.
- PSC2000 - The Atmosphere and Weather (BPS) - 3cr.
- WATS3450 - Introduction to Coral Reefs-Field Course (DSC) - 3cr.
- WATS4050 - Marine Global Change: Impacts and Conservation Strategies - 3cr.
- WATS5305 - Ecology and Restoration of Plants - 3cr.
- WATS5360 - Wetland Ecology and Management - 3cr.
- WATS5500 - Limnology: Ecology of Inland Waters - 3cr.

Program Learning Outcomes

Program Learning Outcomes

https://qcnr.usu.edu/wats/assessment/undergraduate

Mathematics/Statistics (Composite) - BA, BS

Program Overview

College
College of Arts & Sciences

Department
Mathematics & Statistics

Program Level
Undergraduate

About this Degree

The mathematics/statistic (composite) major allows students to reap the benefits of applied mathematics and also the benefits of statistics, keeping both doors open for greater marketability and graduate school options. Through the program's coursework, students can gain essential knowledge in both areas, giving them a greater knowledge base.

Through the mathematics portion of the curriculum, students gain a solid education in areas including algebraic structures, analysis/advanced calculus, complex variables, partial differential equations, and more. They also take courses in computer science and physics to learn how to use mathematics in applied settings solving real problems.

In their statistics coursework, students study areas like probability, linear regression/ time series, experiment design, quality control, and various areas in statistical analysis. Essentially, statisticians can work in any career or for any company where data is collected or analyzed, making it a smart career choice with lots of possibilities.

- For more information about Mathematics/Statistics (Composite), see the website.
- Admitted and current students must meet with the advisor, Linda Skabelund.
- Log on to Degree Works to check student-specific program progress.

Additional Information

Some major coursework will fulfill General Education and University Studies Requirements.

Admission Requirements for this Program

- New freshmen must be admitted to USU in Good Standing.
- Transfer students from other institutions or other programs at USU must have a 2.20 GPA; ACT scores of 21 composite and 20 verbal/ English and 19 mathematics/quantitative to be admitted.

Program Requirements

Total Credits Required In Program Coursework
69-72

Total Credits Required To Earn This Credential
120

Simple Requisites

Program Requirements

- A grade of C- or better is required in all department major courses.
- Program coursework *may not* be taken on a pass/fail basis. This major requires a 2.00 GPA.

Major Requirements

Type
Completion Requirement

Required Courses (48-49)

Complete ALL of the following Courses:

- CS1400 - Introduction to Computer Science--CS 1 - 4cr.
- MATH1210 - Calculus I (QL) - 4cr.
- MATH1220 - Calculus II (QL) - 4cr.
- MATH2210 - Multivariable Calculus (QI) - 3cr.
- MATH2270 - Linear Algebra (QI) - 3cr.
  OR DSAI2275 - Linear Algebra for Data Science - 4cr.
- MATH2280 - Ordinary Differential Equations (QI) - 3cr.
- MATH3310 - Discrete Mathematics - 3cr.
- MATH4200 - Foundations of Analysis (CI) - 3cr.
- MATH4310 - Introduction to Algebraic Structures (CI) - 3cr.
- MATH5210 - Introduction to Analysis I - 3cr.
- MATH5710 - Introduction to Probability - 3cr.
- MATH5720 - Introduction to Mathematical Statistics - 3cr.
- STAT3000 - Statistics for Scientists (QI) - 3cr.
- STAT5100 - Modern Regression Methods (CI/QI) - 3cr.
- STAT5200 - Analysis of Designed Experiments - 3cr.

Elective Credits (15 credits)

The following elective credits are required. Please see program advisor for course options.

Complete the following:
• 6 credits in MATH 5000 level or above
• 9 credits in STAT 5000 level or above

Science Sequence (6-8 credits)

Choose one of the following sequences:

Fulfill ANY of the following requirements:

Biology Sequence

Complete ALL of the following Courses:

- BIOL1610 - Biology I - 3cr.
- BIOL1620 - Biology II (BLS) - 3cr.

OR

Chemistry Sequence

Complete ALL of the following Courses:

- CHEM1210 - Principles of Chemistry I - 4cr.
- CHEM1220 - Principles of Chemistry II (BPS) - 4cr.

OR

Geology Sequence

Complete ALL of the following Courses:

- GEO1110 - Physical Geology (BPS) - 3cr.
  AND GEO1115 - Physical Geology Laboratory - 1cr.
- GEO2200 - The Earth Through Time - 3cr.

OR

Physics Sequence

Chose one of the following Course sets.

Complete ALL of the following Courses:

- PHYS2110 - General Physics—Life Sciences I - 4cr.
  AND PHYS2120 - General Physics - Life Sciences II (BPS) - 4cr.
- PHYS2210 - Physics for Scientists and Engineers I (QI/ BPS) - 4cr.

AND PHYS2220 - Physics for Scientists and Engineers II (BPS/QI) - 4cr.

OR

Computer Science Sequence

Complete ALL of the following Courses:

- CS1400 - Introduction to Computer Science--CS 1 - 4cr.
- CS1410 - Introduction to Computer Science--CS 2 (QI) - 3cr.
  OR CS1440 - Software Engineering Fundamentals - 3cr.

Open Electives

Complete the following as needed:
Total elective credit is determined by General Education courses taken, degree type selected, additional credits earned, and any additional math or other prerequisite courses needed. Please consult your Academic Advisor for details.

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Bachelor's Degree)

Suggested Degree Maps

Degree Map Name
Suggested Degree Map - Mathematics/Statistics (Composite) BA, BS
Total Degree Map Credits
99 - 103
Degree Map Effective Catalog Year
2027 -

Degree Map Narrative

- Following is a sample four-year plan. Please note that student-specific plans may differ.
- Meet with an academic advisor to create a specific plan that best fits your academic needs.
- The student is ultimately responsible for knowing and completing all degree requirements.
- Make sure you meet the registration requirements for each class by clicking the course link and checking any prerequisites or corequisites.
- Consultation with an advisor may result in an altered plan customized for an individual student.
- Check your Degree Works for requirements and completion.

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	14 - 15	0

Requirement Select

- Communications Literacy (CL1) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- MATH1210 - Calculus I (QL)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- Breadth Creative Arts (BCA) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Science Sequence Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	14	0

Requirement Select
- MATH1220 - Calculus II (QL)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- STAT3000 - Statistics for Scientists (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Communications Literacy (CL2) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Science Sequence Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	12 - 13	0

Requirement Select
- MATH2210 - Multivariable Calculus (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- MATH2270 - Linear Algebra (QI)

  OR
- DSAI2275 - Linear Algebra for Data Science

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 4
Progress Credits	-
Contact Hours	3 - 4
Clinical	-
Criticality	No

Requirement Select
- MATH3310 - Discrete Mathematics

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Breadth Social Sciences (BSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	13	0

Requirement Select
- CS1400 - Introduction to Computer Science--CS 1

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- MATH2280 - Ordinary Differential Equations (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- STAT5200 - Analysis of Designed Experiments

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Breadth American Institutions (BAI) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Fall	12	0

Requirement Select
- Breadth Humanities (BHU) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- MATH4200 - Foundations of Analysis (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- MATH5710 - Introduction to Probability

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- STAT5100 - Modern Regression Methods (CI/QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Spring	12	0

Requirement Select
- MATH4310 - Introduction to Algebraic Structures (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- MATH5720 - Introduction to Mathematical Statistics

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- STAT 5XXX Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Breadth Life Sciences (BLS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Fall	12	0

Requirement Select
- MATH5210 - Introduction to Analysis I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- MATH 5XXX Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- STAT 5XXX Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Breadth Life Sciences (BLS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Spring	10 - 12	0

Requirement Select

- MATH 5XXX Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- STAT 5XXX Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Depth Social Sciences (DSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2 - 3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Depth Humanities and Creative Arts (DHA) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2 - 3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Program Learning Outcomes

Program Learning Outcomes

https://catalog.usu.edu/preview_program.php?catoid=38&poid=36904&returnto=29050

Machining Technology - Technical Certificate

Program Overview

College
College of Agriculture & Natural Resources

Department
Technology, Design & Technical Ed

Program Level
Undergraduate

About this Degree

Students will master the safe and efficient operation of manual and automated equipment. Students will become proficient in interpreting complex engineering drawings and performing essential mathematical calculations. With hands-on experience using advanced measuring tools and cutting tool geometry, they'll transform raw materials into precise components.

Program Requirements

Total Credits Required In Program Coursework
30

Total Credits Required To Earn This Credential
30

Simple Requisites

Program Requirements

Foundational Courses (15 Credits)

Type
Completion Requirement

Complete all courses (15 credits)

Complete ALL of the following Courses:

- TEMT1000 - Manufacturing Fundamentals - 3cr.
- TEMT1100 - Mill Concepts - 3cr.
- TEMT1150 - Computer-Numeric Control (CNC) Mill Concepts - 3cr.
- TEMT1200 - Lathe Concepts - 3cr.
- TEMT1250 - Computer-Numeric Control (CNC) Lathe Concepts - 3cr.

Supplemental Courses (15 Credits)

Type
Completion Requirement

Supplemental Courses

Earn at least 15 credits from the following:

- TEMT1300 - Computer Numerical Control (CNC) Mill Programming - 3cr.
- TEMT1350 - Computer-Numeric Control (CNC) Lathe Programming - 3cr.
- TEMT1400 - Intro to Computer-Numeric Control (CNC) Machining - 3cr.
- TEMT1565 - Advanced Print Reading - 3cr.
- TEMT1600 - Introduction to Manual Machining - 3cr.

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Undergraduate Academic or Technical Certificates)

Program Learning Outcomes

Program Learning Outcomes

- Demonstrate safe operation of machine shop equipment.
- Interpret engineering drawings.
- Perform calculations common to the machining industry.
- Use appropriate measuring equipment.
- Use cutting tool geometry and theory in the machining process.
- Properly select appropriate equipment and cutting tools.
- Setup, program, and operate a Computer Numerical Control (CNC) machine.

Mathematics - Minor

Program Overview

College
College of Arts & Sciences

Department
Mathematics & Statistics

Program Level
Undergraduate

Program Requirements

Total Credits Required To Earn This Credential
21-24

Simple Requisites

Program Requirements

All grades for MATH courses applied toward the Mathematics minor must be *C-* or better. Courses for the minor *may not* be taken on a pass/fail basis.

Mathematics - Minor

Type
Completion Requirement

Required Courses (11 credits)

Courses for the minor *may not* be taken on a pass/fail basis.

Earn a minimum grade of C- in the following:

- MATH1210 - Calculus I (QL) - 4cr.
- MATH1220 - Calculus II (QL) - 4cr.
- MATH2210 - Multivariable Calculus (QI) - 3cr.

Required Course Options (4-6 credits)

Students can choose Option 1 or Option 2 from below:

Fulfill ANY of the following requirements:

Option 1 (6-7 credits)

Earn a minimum grade of C- in the following:

- DSAI2275 - Linear Algebra for Data Science - 4cr.
  OR MATH2270 - Linear Algebra (QI) - 3cr.
- MATH2280 - Ordinary Differential Equations (QI) - 3cr.

OR

Option 2 (4 credits)

Earn a minimum grade of C- in the following:

- MATH2250 - Linear Algebra and Differential Equations (QI) - 4cr.

Elective Courses (6 credits)

Select at least two additional courses (6 credits) from the following, ***excluding*** the following courses: MATH4300 SCHOOL MATH LAB II, MATH5500 METHODS SEC MATH TEACHING, MATH5570 ACTUARIAL MATH I, and MATH5580 ACTUARIAL MATH II (CI).

Complete ANY of the following Courses:

- MATH3310 - Discrete Mathematics - 3cr.

● Courses in mathematics numbered above 4000.

Program Learning Outcomes

Program Learning Outcomes
https://www.usu.edu/math/assessment/Mathematics

Mathematics: Actuarial Science Emphasis - BA, BS

Program Overview

College
College of Arts & Sciences

Department
Mathematics & Statistics

Program Level
Undergraduate

About this Degree

USU's undergraduate degree in mathematics is a versatile program where students have a large variety of options as they study different areas in mathematics. The department is a close-knit unit where students receive individual attention from faculty mentors and the opportunity to pursue undergraduate research

Actuarial Science Emphasis: An actuary is a business professional who uses mathematical skills to define, analyze, and solve financial and social problems. USU is one of the only universities where students can complete the full undergraduate program in actuarial science required for job placement as an actuary. USU graduates in actuarial science require no further education in graduate school and receive 100% job placement in a career that is consistently rated as one of the top two careers in terms of job satisfaction, opportunities for advancement, and pay. This emphasis is also available through the statistics degree, but it is essentially the same.

Students receive a by completing all required courses in the major. To receive a BA, students must also gain proficiency in one or more foreign languages. See Undergraduate Academic Credential Requirements for language course requirements.

- For more information about Mathematics: Actuarial Science Emphasis, see the website.
- Admitted and current students must meet with the advisor, Linda Skabelund.
- Log on to Degree Works to check student-specific program progress.

Admission Requirements for this Program

- New freshmen must be admitted to USU in Good Standing.
- Transfer students from other institutions or other programs at USU must have a 2.50 GPA.

Program Requirements

Total Credits Required In Program Coursework
62-65

Total Credits Required To Earn This Credential
120

Simple Requisites

Program Requirements

All courses in the major require a grade of C- or better. Courses *may not* be taken on a pass/fail basis.

Mathematics: Actuarial Science Emphasis - BA, BS

Type
Completion Requirement

Major Requirements (62-65 credits)

Complete ALL of the following Courses:

- ACCT2010 - Financial Accounting Principles - 3cr.
- ECON2010 - Introduction to Microeconomics (BSS) - 3cr.
- ECON2020 - Introduction to Macroeconomics (BAI) - 3cr.
- MATH1210 - Calculus I (QL) - 4cr.
- MATH1220 - Calculus II (QL) - 4cr.
- MATH2210 - Multivariable Calculus (QI) - 3cr.
- MATH2270 - Linear Algebra (QI) - 3cr.
  OR DSAI2275 - Linear Algebra for Data Science - 4cr.
- MATH2280 - Ordinary Differential Equations (QI) - 3cr.
- MATH3310 - Discrete Mathematics - 3cr.
- MATH4200 - Foundations of Analysis (CI) - 3cr.
- MATH4310 - Introduction to Algebraic Structures (CI) - 3cr.
- MATH5210 - Introduction to Analysis I - 3cr.
- MATH5560 - Actuarial Financial Mathematics - 3cr.
- MATH5570 - Actuarial Math I - 3cr.
- MATH5580 - Actuarial Math II (CI) - 3cr.
- MATH5710 - Introduction to Probability - 3cr.
- MATH5720 - Introduction to Mathematical Statistics - 3cr.
- STAT3000 - Statistics for Scientists (QI) - 3cr.
- STAT5100 - Modern Regression Methods (CI/QI) - 3cr.

Science Sequence (6-8 credits)

Choose one of the following Sequences:

Fulfill ANY of the following requirements:

Biology Sequence

Complete ALL of the following Courses:

- BIOL1610 - Biology I - 3cr.
- BIOL1620 - Biology II (BLS) - 3cr.

OR

Chemistry Sequence

Complete ALL of the following Courses:

- CHEM1210 - Principles of Chemistry I - 4cr.
- CHEM1220 - Principles of Chemistry II (BPS) - 4cr.

OR

Geology Sequence

Complete ALL of the following Courses:

- GEO1110 - Physical Geology (BPS) - 3cr.
  AND GEO1115 - Physical Geology Laboratory - 1cr.
- GEO2200 - The Earth Through Time - 3cr.

OR

Physics Sequence

Complete one of the following course sets.

Complete ANY of the following Courses:

- PHYS2110 - General Physics—Life Sciences I - 4cr.
  AND PHYS2120 - General Physics - Life Sciences II (BPS) - 4cr.
- PHYS2210 - Physics for Scientists and Engineers I (QI/BPS) - 4cr.
  AND PHYS2220 - Physics for Scientists and Engineers II (BPS/QI) - 4cr.

OR

Computer Science Sequence

Complete ALL of the following Courses:

- CS1400 - Introduction to Computer Science--CS 1 - 4cr.
- CS1410 - Introduction to Computer Science--CS 2 (QI) - 3cr.
  OR CS1440 - Software Engineering Fundamentals - 3cr.

Open Electives

Complete the following as needed:
Total elective credit is determined by General Education courses taken, degree type selected, additional credits earned, and any additional math or other prerequisite courses needed. Please consult your Academic Advisor for details.

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Bachelor's Degree)

Suggested Degree Maps

Degree Map Name
Suggested Degree Map - Mathematics: Actuarial Science Emphasis BA, BS
Total Degree Map Credits
88 - 89
Degree Map Effective Catalog Year
2027 -

Degree Map Narrative

- Following is a sample four-year plan. Please note that student-specific plans may differ.
- Meet with an academic advisor to create a specific plan that best fits your academic needs.
- The student is ultimately responsible for knowing and completing all degree requirements.
- Make sure you meet the registration requirements for each class by clicking the course link and checking any prerequisites or corequisites.
- Consultation with an advisor may result in an altered plan customized for an individual student.
- Check your Degree Works for requirements and completion.

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	17 - 18	0

Requirement Select
- Communications Literacy (CL1) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- ECON2020 - Introduction to Macroeconomics (BAI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- MATH1210 - Calculus I (QL)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- Science Sequence Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Breadth Life Sciences (BLS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	17	0

Requirement Select
- ECON2010 - Introduction to Microeconomics (BSS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Communications Literacy (CL2) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- MATH1220 - Calculus II (QL)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- STAT3000 - Statistics for Scientists (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Science Sequence Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	12	0

Requirement Select
- ACCT2010 - Financial Accounting Principles

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- MATH2210 - Multivariable Calculus (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- MATH2270 - Linear Algebra (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Breadth Physical Sciences (BPS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	12	0

Requirement Select
- MATH2280 - Ordinary Differential Equations (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- MATH3310 - Discrete Mathematics

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- STAT5100 - Modern Regression Methods (CI/QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Breadth Humanities (BHU) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Fall	9	0

Requirement Select
- MATH4200 - Foundations of Analysis (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- MATH5710 - Introduction to Probability

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Breadth Creative Arts (BCA) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Spring	6	0

Requirement Select

- Because MATH 5560, MATH 5570, and MATH 5580 are taught every other year, the student should meet with an advisor to make sure they don't miss these classes. FIN 3200 and FIN 3400 may be taken in place of MATH 5560. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- MATH4310 - Introduction to Algebraic Structures (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- MATH5560 - Actuarial Financial Mathematics

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Fall	9	0

Requirement Select

- MATH5210 - Introduction to Analysis I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- MATH5570 - Actuarial Math I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Depth Social Sciences (DSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Spring	6	0

Requirement Select

- MATH5580 - Actuarial Math II (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Depth Humanities and Creative Arts (DHA) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Program Learning Outcomes

Program Learning Outcomes

https://artsci.usu.edu/math-stats/assessment/math-stat-education

Mathematics: Applied Mathematics Emphasis - BS

Program Overview

College
College of Arts & Sciences

Department
Mathematics & Statistics

Program Level
Undergraduate

About this Degree

USU's undergraduate degree in mathematics is a versatile program where students have a large variety of options as they study different areas in mathematics. The department is a close-knit unit where students receive individual attention from faculty mentors and the opportunity to pursue undergraduate research.

Applied Mathematics Emphasis: The emphasis in applied mathematics prepares students for careers in industry as well as graduate school in pure/applied mathematics, statistics, computer science and engineering. Internship and paid undergraduate research opportunities are available in quantitative biology and ecology, mathematical engineering, computational and data science, business, finance and economics. Our alumni are employed in data- and technology-oriented private industry as well as federal and state research institutions. Students receive foundational grounding in theoretical mathematical sciences and application-oriented training in model development and analysis, dynamic and stochastic systems, asymptotic analysis, differential equations, computational techniques, complex variables, statistics, data science and interdisciplinary problem-solving. The program provides excellent preparation for advanced study in applied topics, and students are consistently accepted into top-tier graduate schools.

- For more information about Applied Mathematics Emphasis, see the website.
- Admitted and current students must meet with the advisor, Linda Skabelund.
- Log on to Degree Works to check student-specific program progress.

Admission Requirements for this Program

- New freshmen must be admitted to USU in Good Standing.
- Transfer students from other institutions or other programs at USU must have a 2.75 GPA

Program Requirements

Total Credits Required In Program Coursework
70-72

Total Credits Required To Earn This Credential
120

Simple Requisites

Program Requirements

A grade of C- or better is required in all mathematics and statistics courses. Program coursework *may not* be taken on a pass/fail basis.

Mathematics: Applied Mathematics Emphasis - BS

Type
Completion Requirement

Major Requirements (56 credits)

Fulfill ALL of the following requirements:

Required Courses

Complete ALL of the following Courses:

- CS1400 - Introduction to Computer Science--CS 1 - 4cr.
- MATH1210 - Calculus I (QL) - 4cr.
- MATH1220 - Calculus II (QL) - 4cr.
- MATH2210 - Multivariable Calculus (QI) - 3cr.
- MATH2270 - Linear Algebra (QI) - 3cr.
  OR DSAI2275 - Linear Algebra for Data Science - 4cr.
- MATH2280 - Ordinary Differential Equations (QI) - 3cr.
- MATH4200 - Foundations of Analysis (CI) - 3cr.
- MATH3310 - Discrete Mathematics - 3cr.
- MATH5210 - Introduction to Analysis I - 3cr.
- MATH5220 - Introduction to Analysis II - 3cr.
- MATH5270 - Complex Variables - 3cr.
- MATH5410 - Methods of Applied Mathematics - 3cr.
- MATH5420 - Partial Differential Equations - 3cr.
- MATH5710 - Introduction to Probability - 3cr.
- STAT3000 - Statistics for Scientists (QI) - 3cr.

AND

Required Courses

Complete one of the following course sets.

Complete ANY of the following Courses:

- PHYS2110 - General Physics—Life Sciences I - 4cr.
  AND PHYS2220 - Physics for Scientists and Engineers II (BPS/QI) - 4cr.
- PHYS2210 - Physics for Scientists and Engineers I (QI/BPS) - 4cr.
  AND PHYS2220 - Physics for Scientists and Engineers II (BPS/QI) - 4cr.

NOTE: Completion of one of the PHYS options will also fulfill the Science Sequence requirement.

Elective Courses (5-7 credits)

Earn at least 5 credits from the following:

- MATH4410 - Discrete Math 2 - 4cr.
- MATH4610 - Fundamentals of Numerical Analysis - 3cr.
  OR MATH5610 - Introduction to Numerical Analysis - 3cr.
- MATH5620 - Numerical Algorithms for Approximate Solutions of DE - 3cr.

Additional Electives (9 credits)

Earn at least 9 credits
Select 9 credits from **Statistics** (STAT) courses numbered 5000 and above or **Mathematics** (MATH) courses numbered 5000 and above, **excluding** MATH5010 TECH FOR TEACHING MATH, MATH5020 TESTING AND COGNITION OF MATH, MATH5570 ACTUARIAL MATH I and MATH5580 ACTUARIAL MATH II (CI).

Open Electives

Complete the following as needed:
Total elective credit is determined by General Education courses taken, degree type selected, additional credits earned, and any additional math or other prerequisite courses needed. Please consult your Academic Advisor for details.

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Bachelor's Degree)

Suggested Degree Maps

Degree Map Name
Suggested Degree Map - Mathematics: Applied Mathematics Emphasis BS
Total Degree Map Credits
99 - 104
Degree Map Effective Catalog Year
2027 -

Degree Map Narrative

- Following is a sample four-year plan. Please note that student-specific plans may differ.
- Meet with an academic advisor to create a specific plan that best fits your academic needs.
- The student is ultimately responsible for knowing and completing all degree requirements.
- Make sure you meet the registration requirements for each class by clicking the course link and checking any prerequisites or corequisites.
- Consultation with an advisor may result in an altered plan customized for an individual student.
- Check your Degree Works for requirements and completion.

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	15 - 16	0

Requirement Select

- CS1400 - Introduction to Computer Science--CS 1

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- Communications Literacy (CL1) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- MATH1210 - Calculus I (QL)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- PHYS2110 - General Physics—Life Sciences I
  OR
- PHYS2210 - Physics for Scientists and Engineers I (QI/BPS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	17	0

Requirement Select
- Communications Literacy (CL2) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- MATH1220 - Calculus II (QL)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- STAT3000 - Statistics for Scientists (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Breadth Life Sciences (BLS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- PHYS2120 - General Physics - Life Sciences II (BPS)
  OR
- PHYS2220 - Physics for Scientists and Engineers II (BPS/QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	12 - 13	0

Requirement Select
- MATH2210 - Multivariable Calculus (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- MATH2270 - Linear Algebra (QI)
  OR
- DSAI2275 - Linear Algebra for Data Science

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 4
Progress Credits	-
Contact Hours	3 - 4
Clinical	-
Criticality	No

Requirement Select

- Breadth Humanities (BHU) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Breadth Creative Arts (BCA) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	11 - 12	0

Requirement Select

- MATH2280 - Ordinary Differential Equations (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- MATH3310 - Discrete Mathematics

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Depth Humanities and Creative Arts (DHA) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2 - 3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Breadth Social Sciences (BSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Fall	12	0

Requirement Select

- Students must take two of the following three courses: MATH 4410, MATH 5610, and MATH 5620. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- MATH4200 - Foundations of Analysis (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- MATH5610 - Introduction to Numerical Analysis

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- MATH5410 - Methods of Applied Mathematics

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Breadth American Institutions (BAI) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Spring	9 - 10	0

Requirement Select

- Students must take two of the following three courses: MATH 4410, MATH 4610, and MATH 5620. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- MATH5420 - Partial Differential Equations

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- MATH5710 - Introduction to Probability

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- MATH4410 - Discrete Math 2

  OR
- MATH5620 - Numerical Algorithms for Approximate Solutions of DE

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 4
Progress Credits	-
Contact Hours	3 - 4
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Fall	11 - 12	0

Requirement Select

- MATH5210 - Introduction to Analysis I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- MATH5220 - Introduction to Analysis II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- MATH/STAT 5XXX Elective Courses (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- MATH5270 - Complex Variables

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- MATH/STAT 5XXX Elective Courses (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- MATH/STAT 5XXX Elective Courses (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Depth Social Sciences (DSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2 - 3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Communications Intensive (CI) Courses

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Spring	12	0

Total General Education Credits	Total Major Credits
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Program Learning Outcomes

Program Learning Outcomes

https://artsci.usu.edu/math-stats/assessment/math-stat-education

Mathematics - BA, BS

Program Overview

College
College of Arts & Sciences

Department
Mathematics & Statistics

Program Level
Undergraduate

About this Degree

USU's undergraduate degree in mathematics is a versatile program where students have a large variety of options as they study different areas in mathematics. The department is a close-knit unit where students receive individual attention from faculty mentors and the opportunity to pursue undergraduate research.

Students receive a BS by completing all required courses in the major. To receive a BA, students must also gain proficiency in one or more foreign languages. See Undergraduate Academic Credential Requirements for required language credit.

- For more information about Mathematics, see the website.
- Admitted and current students must meet with and advisor - Linda Skabelund.
- Log on to Degree Works to check student-specific program progress.

Admission Requirements for this Program

- New freshmen must be admitted to USU in Good Standing.
- Transfer students from other institutions or other programs at USU must have a 2.75 GPA.

Program Requirements

Total Credits Required In Program Coursework
53

Total Credits Required To Earn This Credential
120

Simple Requisites

Program Requirements

53 credits

Some major coursework may fulfill the General Education Requirements, or University Studies Requirements.

- Two courses having the CI designation (such as MATH4200 FOUNDATIONS OF ANALYSIS (CI), MATH4310 INTRO ALGEBRAIC STRC (CI), MATH5580 ACTUARIAL MATH II (CI), and STAT5100 MODERN REGRESSION METH(CI)(QI)) will meet the Communications Intensive (CI) requirement.
- One course having the QI designation (such as MATH2210 MULTIVARIABLE CALCULUS (QI), MATH2250 LINEAR ALG/DIFF EQUATIONS (QI), MATH2270 LINEAR ALGEBRA (QI), MATH2280 ORD DIFFRNTIAL EQUATIONS (QI), STAT2000 STATISTICAL METHODS (QI), and STAT3000 STATISTICS FOR SCIENTISTS (QI)) will meet the Quantitative Intensive (QI) requirement.

Mathematics - BA, BS

Type
Completion Requirement

Major Requirements (53 credits)

Complete ALL of the following Courses:

- MATH1210 - Calculus I (QL) - 4cr.
- MATH1220 - Calculus II (QL) - 4cr.

- MATH2210 - Multivariable Calculus (QI) - 3cr.
- MATH2270 - Linear Algebra (QI) - 3cr.
  OR DSAI2275 - Linear Algebra for Data Science - 4cr.
- MATH2280 - Ordinary Differential Equations (QI) - 3cr.
- MATH3310 - Discrete Mathematics - 3cr.
- MATH4200 - Foundations of Analysis (CI) - 3cr.
- MATH4310 - Introduction to Algebraic Structures (CI) - 3cr.
- MATH5210 - Introduction to Analysis I - 3cr.
- MATH5220 - Introduction to Analysis II - 3cr.
- MATH5270 - Complex Variables - 3cr.
- MATH5310 - Introduction to Modern Algebra - 3cr.
- MATH5340 - Theory of Linear Algebra - 3cr.
- MATH5710 - Introduction to Probability - 3cr.

● Select 9 credits in Mathematics courses numbered above 5000.

College of Science Sequence (6-8 credits)

Choose one of the following sequences:

Fulfill ANY of the following requirements:

Biology Sequence

Complete ALL of the following Courses:

- BIOL1610 - Biology I - 3cr.
- BIOL1620 - Biology II (BLS) - 3cr.

OR

Chemistry Sequence

Complete ALL of the following Courses:

- CHEM1210 - Principles of Chemistry I - 4cr.
- CHEM1220 - Principles of Chemistry II (BPS) - 4cr.

OR

Geology Sequence

Complete ALL of the following Courses:

- GEO1110 - Physical Geology (BPS) - 3cr.
  AND GEO1115 - Physical Geology Laboratory - 1cr.
- GEO2200 - The Earth Through Time - 3cr.

OR

Physics Sequence

Complete at least one courseset.

Earn at least 8 credits from the following:

- PHYS2110 - General Physics—Life Sciences I - 4cr.
  AND PHYS2120 - General Physics - Life Sciences II (BPS) - 4cr.
- PHYS2210 - Physics for Scientists and Engineers I (QI/BPS) - 4cr.
  AND PHYS2220 - Physics for Scientists and Engineers II (BPS/QI) - 4cr.

OR

Computer Science Sequence

Complete ALL of the following Courses:

- CS1400 - Introduction to Computer Science--CS 1 - 4cr.
- CS1410 - Introduction to Computer Science--CS 2 (QI) - 3cr.
  OR CS1440 - Software Engineering Fundamentals - 3cr.

Open Electives

Complete the following as needed:
Total elective credit is determined by General Education courses taken, degree type selected, additional credits earned, and any additional math or other prerequisite courses needed. Please consult your Academic Advisor for details.

Additional Comments:

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Bachelor's Degree)

Suggested Degree Maps

Degree Map Name
Suggested Degree Map - Mathematics BA, BS
Total Degree Map Credits
83 - 86
Degree Map Effective Catalog Year
2026 -

Degree Map Narrative

- Following is a sample four-year plan. Please note that student-specific plans may differ.
- Meet with an academic advisor to create a specific plan that best fits your academic needs.
- The student is ultimately responsible for knowing and completing all degree requirements.
- Make sure you meet the registration requirements for each class by clicking the course link and checking any prerequisites or corequisites.
- Consultation with an advisor may result in an altered plan customized for an individual student.
- Check your Degree Works for requirements and completion.

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	14	0

Requirement Select

- ENGL1010 - Writing as Inquiry (CL1)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- MATH1210 - Calculus I (QL)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- College of Science Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- College of Science Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Breadth Creative Arts (BCA) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Breadth Humanities (BHU) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- ENGL2010 - Research and Argument Across Perspectives (CL2)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	14	0

Requirement Select
- MATH1220 - Calculus II (QL)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	6 - 7	0

Requirement Select
- MATH2210 - Multivariable Calculus (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- MATH2270 - Linear Algebra (QI)
  OR
- DSAI2275 - Linear Algebra for Data Science

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 4
Progress Credits	-
Contact Hours	3 - 4
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	12	0

Requirement Select

- Breadth Social Sciences (BSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- MATH2280 - Ordinary Differential Equations (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- MATH3310 - Discrete Mathematics

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Breadth Life Sciences (BLS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Fall	11 - 12	0

Requirement Select

- MATH4310 - Introduction to Algebraic Structures (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- MATH5340 - Theory of Linear Algebra

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- MATH4200 - Foundations of Analysis (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Depth Humanities and Creative Arts (DHA) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2 - 3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Spring	8 - 9	0

Requirement Select
- MATH5710 - Introduction to Probability

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- MATH5310 - Introduction to Modern Algebra

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Depth Social Sciences (DSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2 - 3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Fall	9	0

Requirement Select
- MATH5210 - Introduction to Analysis I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- MATH 5XXX Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- MATH 5XXX Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Spring	9	0

Requirement Select
- MATH5220 - Introduction to Analysis II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- MATH5270 - Complex Variables

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- MATH 5XXX Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Program Learning Outcomes

Program Learning Outcomes

https://catalog.usu.edu/preview_program.php?catoid=38&poid=36904&returnto=29050

Mathematics: Computational - BA, BS

Program Overview

College	Department	Program Level
College of Arts & Sciences	Mathematics & Statistics	Undergraduate

About this Degree

USU's undergraduate degree in mathematics is a versatile program where students have a large variety of options as they study different areas in mathematics. The department is a close-knit unit where students receive individual attention from faculty mentors and the opportunity to pursue undergraduate research.

Computational Mathematics Emphasis: This emphasis deals with solving mathematical problems with computers and covers a wide range of coursework in computational mathematics and computer science. Students in this emphasis typically pursue careers as mathematicians for various companies that use computers.

Students receive a BS by completing all required courses in the major. To receive a BA, students must also gain proficiency in one or more foreign language. See Undergraduate Academic Credential Requirements for language requirements.

- For more information about Mathematics, see the website.
- Admitted and current students must meet with the advisor, Linda Skabelund.
- Log on to Degree Works to check student-specific program progress.

Admission Requirements for this Program

- New freshmen must be admitted to USU in Good Standing.
- Transfer students from other institutions or other programs at USU must have a 2.75 GPA.

Program Requirements

Total Credits Required In Program Coursework	Total Credits Required To Earn This Credential
58-59	120

Simple Requisites

Program Requirements

A grade of C- or better is required in all courses taken for the major. Program coursework *may not* be taken on a pass/fail basis.

Mathematics: Computational - BA, BS

Type
Completion Requirement

Major Requirements (58-59 credits)

Complete ALL of the following Courses:

- CS1400 - Introduction to Computer Science--CS 1 - 4cr.
- CS1410 - Introduction to Computer Science--CS 2 (QI) - 3cr.
- CS2410 - Introduction to Event Driven Programming and GUI's - 3cr.
- CS2420 - Algorithms and Data Structures--CS 3 (QI) - 3cr.
- MATH1210 - Calculus I (QL) - 4cr.
- MATH1220 - Calculus II (QL) - 4cr.
- MATH2210 - Multivariable Calculus (QI) - 3cr.
- MATH2270 - Linear Algebra (QI) - 3cr.
  OR DSAI2275 - Linear Algebra for Data Science - 4cr.
- MATH2280 - Ordinary Differential Equations (QI) - 3cr.

- MATH3310 - Discrete Mathematics - 3cr.
- MATH4200 - Foundations of Analysis (CI) - 3cr.
- MATH4610 - Fundamentals of Numerical Analysis - 3cr.
- MATH5210 - Introduction to Analysis I - 3cr.
- MATH5610 - Introduction to Numerical Analysis - 3cr.
- MATH5620 - Numerical Algorithms for Approximate Solutions of DE - 3cr.
- MATH5710 - Introduction to Probability - 3cr.

Elective Credits

The following elective credits are required. Please contact the program advisor for course options.

Complete the following:
● 6 credits in MATH 5000 level, excluding MATH5010 TECH FOR TEACHING MATH, MATH5020 TESTING AND COGNITION OF MATH, MATH5570 ACTUARIAL MATH I and MATH5580 ACTUARIAL MATH II (CI).
● 6 credits in CS 4000 level

College of Science Sequence (6-8 credits)

Choose one of the following sequences:

Fulfill ANY of the following requirements:

Biology Sequence

Complete ALL of the following Courses:
- BIOL1610 - Biology I - 3cr.
- BIOL1620 - Biology II (BLS) - 3cr.

OR

Chemistry Sequence

Complete ALL of the following Courses:
- CHEM1210 - Principles of Chemistry I - 4cr.
- CHEM1220 - Principles of Chemistry II (BPS) - 4cr.

OR

Geology Sequence

Complete ALL of the following Courses:
- GEO1110 - Physical Geology (BPS) - 3cr.
  AND GEO1115 - Physical Geology Laboratory - 1cr.
- GEO2200 - The Earth Through Time - 3cr.

OR

Physics Sequence

Chose one of the following course sets.

Complete ANY of the following Courses:
- PHYS2110 - General Physics—Life Sciences I - 4cr.
  AND PHYS2120 - General Physics - Life Sciences II (BPS) - 4cr.
- PHYS2210 - Physics for Scientists and Engineers I (QI/BPS) - 4cr.
  AND PHYS2220 - Physics for Scientists and Engineers II (BPS/QI) - 4cr.

OR

Computer Science Sequence

Complete ALL of the following Courses:
- CS1400 - Introduction to Computer Science--CS 1 - 4cr.
- CS1410 - Introduction to Computer Science--CS 2 (QI) - 3cr.
  OR CS1440 - Software Engineering Fundamentals - 3cr.

Open Electives

Complete the following as needed:
Total elective credit is determined by General Education courses taken, degree type selected, additional credits earned, and any additional math or other prerequisite courses needed. Please consult your Academic Advisor for details.

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Bachelor's Degree)

Suggested Degree Maps

Degree Map Name
Suggested Degree Map - Mathematics: Computational BA, BS
Total Degree Map Credits
91 - 94
Degree Map Effective Catalog Year
2026 -

Degree Map Narrative

- Following is a sample four-year plan. Please note that student-specific plans may differ.
- Meet with an academic advisor to create a specific plan that best fits your academic needs.
- The student is ultimately responsible for knowing and completing all degree requirements.
- Make sure you meet the registration requirements for each class by clicking the course link and checking any prerequisites or corequisites.
- Consultation with an advisor may result in an altered plan customized for an individual student.
- Check your Degree Works for requirements and completion.

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	14	0

Requirement Select

- CS1400 - Introduction to Computer Science--CS 1

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- MATH1210 - Calculus I (QL)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- ENGL1010 - Writing as Inquiry (CL1)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Breadth Physical Sciences (BPS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	10	0

Requirement Select

- CS1410 - Introduction to Computer Science--CS 2 (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- ENGL2010 - Research and Argument Across Perspectives (CL2)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- MATH1220 - Calculus II (QL)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	12 - 13	0

Requirement Select

- CS2420 - Algorithms and Data Structures--CS 3 (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- MATH2210 - Multivariable Calculus (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- MATH2270 - Linear Algebra (QI)

  OR
- DSAI2275 - Linear Algebra for Data Science

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 4
Progress Credits	-
Contact Hours	3 - 4
Clinical	-
Criticality	No

Requirement Select

- Breadth American Institutions (BAI) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	12	0

Requirement Select

- CS2410 - Introduction to Event Driven Programming and GUI's

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- MATH2280 - Ordinary Differential Equations (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- MATH3310 - Discrete Mathematics

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Breadth Creative Arts (BCA) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Fall	9	0

Requirement Select

- MATH4200 - Foundations of Analysis (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- MATH4610 - Fundamentals of Numerical Analysis
  OR
- MATH5610 - Introduction to Numerical Analysis

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Breadth Humanities (BHU) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Spring	11 - 12	0

Requirement Select

- MATH5620 - Numerical Algorithms for Approximate Solutions of DE

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- MATH5710 - Introduction to Probability

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Breadth Social Sciences (BSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Depth Social Sciences (DSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2 - 3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Fall	11 - 12	0

Requirement Select

- MATH5210 - Introduction to Analysis I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- CS 4XXX Elective Courses (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Depth Humanities and Creative Arts (DHA) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2 - 3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Breadth Life Sciences (BLS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Spring	12	0

Requirement Select
- CS 4XXX Elective Courses (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- MATH 5XXX Elective Courses (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- MATH 5XXX Elective Courses (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Communications Intensive (CI) Courses

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	Total Major Credits
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Program Learning Outcomes

Program Learning Outcomes

https://artsci.usu.edu/math-stats/assessment/math-stat-education

Master of Mathematics - MMath

Program Overview

College
College of Arts & Sciences

Department
Mathematics & Statistics

Program Level
Graduate

About this Degree

The Master of Mathematics (MMath) degree is a professional master's degree serving mathematics educators at the secondary (and sometimes tertiary) levels who want to broaden their background in Mathematics, Statistics, and pedagogy. The program offers students the opportunity to enhance their mathematics content background as suited for personal enrichment and the teaching profession. The program is flexible to serve the needs of professional teachers and provide a route to secondary mathematics licensure and endorsement in Utah.

Admission Requirements for this Program

Admission requirements can be found on the USU School of Graduate Studies website (https://gradschool.usu.edu/admissions/policies). Applicants are also expected to have a GPA in math/stat coursework of at least 3.5.

Program Requirements

Total Credits Required In Program Coursework
36

Total Credits Required To Earn This Credential
36

Simple Requisites

Program Requirements

School of Graduate Studies Requirements:

Degree Verification: A bachelor's degree from an accredited U.S. college or university or a similarly recognized international university is required for admission to and completion of a graduate program. An official transcript must be sent directly to the School of Graduate Studies.

Overall Graduate GPA at least 3.0 and no grades of C- or lower: Graduate students are required to maintain at least a 3.0 GPA for degree-program courses. Grades of C- or lower will not be accepted for a graduate degree.

Credits in the following areas are not acceptable in a degree program: foreign languages, continuing graduate advisement, individual home study, military science, and courses numbered below 5000. Students are not allowed more than 12 credits of coursework at the 5000 level.

Matriculation Start Semester: A master's degree must be completed within six years of entering the degree program. Additional time may be requested by the student's advisor and submitted to the Vice Provost of Graduate Studies for review.

Coursework Validity: Coursework over eight years old at the time of degree completion may not be used for a graduate degree unless it is revalidated by the Vice Provost of Graduate Studies.

Master's forms: Approval of the Program of Study is required by the School of Graduate Studies.

Program Requirements:

- This degree requires 36 credits of coursework. At least 24 credits must be at 6000 level or above, excluding STAT6990 CONT GRAD ADVISEMENT and STAT7990 CONT GRAD ADVISEMENT (Continuing Graduate Advisement) with no more than 12 credits allowed at the 5000 level. Credits below the 5000 level are not acceptable for a graduate degree.
- Supervisory Committee Approval by the end of the second semester
- Program of Study submitted by the end of the second semester
- Graduation application

The Master of Mathematics (MMath) program requires the completion of 36 credits approved by an advisory committee within the Department of Mathematics and Statistics. At least 21 of these credits must come from Mathematics or Statistics classes numbered above 5000, while additional credits may be chosen from courses offered within the College of Education and Human Services. A minimum of 24 credits at the 6000 level or above are required and no more than 12 credits total at the 5000 level may be used.

Students may conduct faculty supervised projects oriented around Mathematics and/or Statistics education. Past students have worked on various project types from curriculum design, to teaching experiments, to observational studies, to software/applet development.

All students in the MMath program must pass a written qualifying examination. They may take the Advanced Calculus Exam, covering the introductory analysis and advanced calculus material presented in MATH4200 FOUNDATIONS OF ANALYSIS (CI), MATH5210 INTRO TO ANALYSIS I, and MATH5220 INTRO TO ANALYSIS II, *or* the qualifying exam in Mathematics Teaching. Students may take these exams before beginning formal coursework in the program but must take them at or before the end of the first full year of matriculation.

Mathematics - MMath

Type
Completion Requirement

Credit Total

36 credits with no more than 12 at the 5000 level.

Program Learning Outcomes

Program Learning Outcomes

https://www.usu.edu/math/assessment/Mathematics

Mathematics - MS

Program Overview

College
College of Arts & Sciences

Department
Mathematics & Statistics

Program Level
Graduate

About this Degree

The MS program in Mathematics primarily prepares students for doctoral programs in pure and applied mathematics and statistics, and secondarily for careers in college teaching and industrial jobs. MS Math students conduct research in areas including differential geometry, computer-aided algebra and mathematical physics, mathematical ecology, dynamical systems and graph theory.

Admission Requirements for this Program

Admission requirements can be found on the USU School of Graduate Studies website (https://gradschool.usu.edu/admissions/policies). Applicants are also expected to have a GPA in math/stat coursework of at least 3.5. Applicants must submit either Official GRE scores (GRE-Q at least 70th percentile, GRE-V of at least 40th percentile) or a research portfolio, consisting of (1) a research statement of no more than 2 pages including references, and (2) (optional) supplemental materials, such as abstracts, paper summaries, of no more than 3 pages. Papers can be provided in the form of web pages, DOIs, or arXiv preprints, but not the full documents.

Program Requirements

Total Credits Required In Program Coursework
30

Total Credits Required To Earn This Credential
30

Simple Requisites

Program Requirements

School of Graduate Studies Requirements:

- Degree Verification: A bachelor's degree from an accredited U.S. college or university or a similarly recognized international university is required for admission to and completion of a graduate program. An official transcript must be sent directly to the School of Graduate Studies.
- Overall Graduate GPA at least 3.0 and no grades of C- or lower: Graduate students are required to maintain at least a 3.0 GPA for degree-program courses. Grades of C- or lower will not be accepted for a graduate degree.
- Matriculation Start Semester: A master's degree must be completed within six years of entering the degree program. Additional time may be requested by the student's advisor and submitted to the Vice Provost of Graduate Studies for review.
- Coursework Validity: Coursework over eight years old at the time of degree completion may not be used for a graduate degree unless it is revalidated by the Vice Provost of Graduate Studies.
- Course Number Acceptability: The program of study cannot include more than 12 semester credits of courses below the 6000 level. Credits in the following areas are not acceptable in a degree program: foreign languages (unless included in an approved Program of Study), continuing graduate advisement, individual home study, military science, and courses numbered below 5000.
- Master's forms: Approval of the Program of Study is required by the School of Graduate Studies.

Program Requirements:

- This degree requires 30 credits of coursework. At least 18 credits must be at 6000 level or above, excluding MATH6990 CONT GRAD ADVISEMENT and MATH7990 CONT GRAD ADVISEMENT (Continuing Graduate Advisement), with no more than 12 credits allowed at the 5000 level. Credits below the 5000 level are not acceptable for a graduate degree.
- Supervisory Committee Approval by the end of the second semester
- Program of Study submitted by the end of the second semester
- Thesis/Project Approval Form by the third semester (Plan A students)
- Appointment for examination form submitted 10 days before defense and during defense semester must be registered for credit
- Record of Examination Form
- Thesis/Dissertation format and Style and Electronic Publication Form (Plan A students)
- Authorship and Copyright form (Plan A students)
- Plan B Report/Creative Project form (Plan B students)
- Graduation application

This degree requires 30 credits of approved coursework at or above the 5000 level. At least 18 of these credits must be at the 6000 level or above, excluding MATH6990 CONT GRAD ADVISEMENT and MATH7990 CONT GRAD ADVISEMENT (Continuing Graduate Advisement). Generally, most of the coursework will be in mathematics, but the student's supervisory committee may approve courses in statistics, physics, engineering, or any other discipline if it seems such coursework is appropriate for the student's program of study.

All students in the MS program in Mathematics must pass a written qualifying examination in either Advanced Calculus or Algebra. Students may take this exam before beginning formal coursework in the MS program but must take the exam by the end of the first full year of matriculation. The exam is typically given twice a year, in May and once during Fall semester. Matriculated students who fail on their first try must pass the exam at the next scheduled opportunity.

MS Mathematics students must obtain a minimum grade of B or better in at least two topic tracks from the 5000-level or the 6000-level topic tracks listed below. MS Mathematics students may substitute one topic track if they can document they have had something equivalent in a previous degree program.

Plan A option:

The Plan A option for a master's degree requires the preparation and defense of a thesis. Students are required to complete 6 semester credits of thesis research (MATH6970 THESIS). Successful defense and submission of the thesis to the library is required.

Plan B option:

A Plan B option requires the production and defense of a research project which can be conveyed in a technical report or journal-manuscript format. Students are required to complete 3 semester credits of thesis research (MATH6970 THESIS). Successful defense and submission of the paper/project to the library is required.

There is no Plan C option for this program.

Research Requirement

Type
Completion Requirement

Required Core Courses

Complete ALL of the following Courses:

- MATH6910 - Directed Reading and Conference - 1cr.
- MATH6970 - Thesis - 1cr.

NOTE:

1. **Plan A** students must take 6 credits of MATH6970 THESIS, **Plan B** students must take 3 credits of MATH6970 THESIS.
2. MATH6910 DIRECTED READING - Students should take the MATH6910 DIRECTED READING - DR: Modern Research in MATH/STATS the first Fall semester.

Topic Tracks

Type
Completion Requirement

Topic Track Options

Each series of courses is a topic track. Students must complete at least 2 topic tracks with a minimum grade of B.

Complete at least 2 of the following:

Topic Track 1

Complete ALL of the following Courses:

- MATH5210 - Introduction to Analysis I - 3cr.
  AND MATH5220 - Introduction to Analysis II - 3cr.

OR

Topic Track 2

Complete ALL of the following Courses:

- MATH5310 - Introduction to Modern Algebra - 3cr.
  AND MATH5340 - Theory of Linear Algebra - 3cr.

OR

Topic Track 3

Complete ALL of the following Courses:

- MATH5110 - Differential Geometry - 3cr.
  AND MATH5510 - Introduction to Topology - 3cr.

OR

Topic Track 4

Complete ALL of the following Courses:

- MATH5420 - Partial Differential Equations - 3cr.
  AND MATH5470 - Advanced Differential Equations - 3cr.

OR

Topic Track 5

Complete ALL of the following Courses:

- MATH5410 - Methods of Applied Mathematics - 3cr.
  AND MATH5420 - Partial Differential Equations - 3cr.

OR

Topic Track 6

Complete ALL of the following Courses:

- MATH5710 - Introduction to Probability - 3cr.
  AND MATH5760 - Applied Stochastic Processes - 3cr.

OR

Topic Track 7

Complete ALL of the following Courses:

- MATH5610 - Introduction to Numerical Analysis - 3cr.
  AND MATH5620 - Numerical Algorithms for Approximate Solutions of DE - 3cr.

OR

Topic Track 8

Complete ALL of the following Courses:

- MATH6210 - Real Analysis - 3cr.
  AND MATH6220 - Real Analysis - 3cr.

OR

Topic Track 9

Complete ALL of the following Courses:

- MATH6310 - Modern Algebra - 3cr.
  AND MATH6320 - Modern Algebra - 3cr.

OR

Topic Track 10

Complete ALL of the following Courses:

- MATH6110 - Differential Geometry - 3cr.
  AND MATH6510 - Topology - 3cr.

OR

Topic Track 11

Complete ALL of the following Courses:

- MATH6410 - Methods of Applied Mathematics - 3cr.
  AND MATH6440 - ODE and Dynamics - 3cr.
  AND MATH6420 - PDE I - 3cr.
  AND MATH6450 - PDE II - 3cr.

OR

Topic Track 12

Complete ALL of the following Courses:

- MATH6470 - Advanced Asymptotic Methods - 3cr.
  AND MATH6810 - Topics in Mathematics (Topic) - 1cr.

OR

Topic Track 13

Complete ALL of the following Courses:

- MATH6610 - Introduction to Numerical Analysis - 3cr.
  AND MATH6620 - Numerical Solution of Partial Differential Equations - 3cr.

Program Learning Outcomes

Program Learning Outcomes
https://www.usu.edu/math/assessment/Mathematics

Master of Business Administration - MBA

Program Overview

College	Department	Program Level
Jon M. Huntsman School of Business	Marketing and Strategy	Graduate

About this Degree
The Utah State MBA at the Jon M. Huntsman School of Business is an interdepartmental program, administered by Utah State University's Huntsman School of Business, which is designed to train students to lead, manage, and improve business performance. Utah State MBA students know how to commercialize profitable ideas quickly, cheaply, and successfully. They possess the know-how to improve existing businesses and create new businesses and are armed with cutting-edge intelligence and analytic tools to gain a deeper and clearer understanding of both domestic and global markets, competition, and customers. The MBA program creates leaders who possess a principle-based philosophy of entrepreneurial excellence who can add value to an organization from the first day on the job. It is accredited by the Association to Advance Collegiate Schools of Business (AACSB). The MBA Program is considered a professional (Plan C) program. The central mission of the MBA program is to:

1. Provide students with a relevant and rigorous background in business, increase student problem-solving and critical analysis skills, and develop the next generation of business leaders.

2. Provide focused education and experiences in specific areas of business (leadership or value creation) to improve student employability.

Admission Requirements for this Program
For admission information, please visit our website at: Utah State MBA Application page

For more information, contact the MBA Office: https://huntsman.usu.edu/mba/contact-us

Program Requirements

Total Credits Required In Program Coursework	Total Credits Required To Earn This Credential
36	36

Simple Requisites

Program Requirements

Students are held responsible for meeting requirements as outlined below. It is the student's responsibility to be aware of all requirements and initiate the resolution of apparent inconsistencies.

- Degree Verification

A bachelor's degree from an accredited U.S. college or university or a similarly recognized international university is required for admission to and completion of a graduate program.

. Master's forms. Approval of the Program of Study is required by the School of Graduate Studies.

- Overall Graduate GPA at least 3.0 and no grades of C- or lower;

Graduate students are required to maintain at least a 3.0 GPA for degree-program courses. Grades of C- or lower will not be accepted for a graduate degree.

- Coursework Validity

Coursework over eight years old at the time of degree completion may not be used for a graduate degree unless it is revalidated. Classes under 6000 level cannot count towards the MBA Degree.

- USU Residency Requirement

At least 27-semester credits for a master's degree must be from a committee-approved and a School of Graduate Studies-approved Program of Study from Utah State University.

- Business Prerequisites

In order to enhance the probability of student success in the USU MBA program, all candidates must demonstrate proficiency in the required prep courses: Accounting and Finance. Students will meet with an MBA advisor to determine options for completion of the prep courses. Students are able to take a no-cost challenge exam and test out of the prep course.

Executive and Online MBA Programs

The Utah State University Executive MBA program is offered for working professionals at several convenient locations throughout the state of Utah and southern Idaho. It is a 36-credit program. Classes are taught in evening courses in face-to-face and broadcast formats. Admission information and deadlines for the Executive MBA programs can be found on the MBA website at utahstatemba.com.

Created with working professionals in mind, the Utah State University Online MBA program combines courses taught by seasoned professors with real-world experience. This 36-credit program allows students to complete their online MBA degree in one or two years. Admission information and deadlines for the online MBA programs can be found on the MBA website at utahstatemba.com

Any student who needs an exception for courses from the following list should contact the MBA Office: https://huntsman.usu.edu/mba/contact-us.

The MBA Program has several specializations students can choose from (listed below). Please contact the MBA Office with questions regarding Specializations: https://huntsman.usu.edu/mba/contact-us

Requirements

Type
Completion Requirement

MBA Requirements

Fulfill ALL of the following requirements:

Ethical Leadership (9 credits)

Complete ALL of the following Courses:

- MSLE6200 - Executive Influence - 3cr.
- MSLE6645 - Innovative and Inclusive Leadership - 3cr.
- MSLE6741 - Leadership Development - 3cr.

AND

Entrepreneurial Spirit (9 credits)

Complete ALL of the following Courses:

- MSLE6410 - Enterprise and Value Creation - 3cr.
- MSLE6520 - Enterprise Brand and Marketing - 3cr.
- MSLE6650 - Strategic Sales Management - 3cr.

AND

Analytical Rigor (9 credits)

Complete ALL of the following Courses:

- ACCT6350 - Accounting for Management Decision Making - 3cr.
- DATA6060 - Analytics in the Enterprise - 3cr.
- FIN6010 - Solving Financial Problems - 3cr.

AND

Strategic and Global Vision (9 credits)

Complete ALL of the following Courses:

- MGT6720 - Strategic Supply Chain Management - 3cr.
- MSLE6870 - Global Strategic Thinking - 3cr.
- MSLE6890 - Advanced Strategy - 3cr.

- ***Global Excursion (Optional): The Utah State MBA understands that in order for students to become tomorrow's business leaders, they must gain knowledge, experience, and technical skills that allow them to operate successfully within the context of a global business environment. The Huntsman School is committed to providing its students with experiences that prepare them to be effective and influential business professionals as well as leaders. A graduate study tour is one of the best experiences any student can have that will set them on a course of success.***

Shingo Specialization (9 credits)

Type
Completion Requirement

Shingo Specialization

The Shingo Specialization is an online program providing an understanding of the Shingo Model™ and the principles necessary to make organizational excellence sustainable.

Shingo Workshops: In this course, students will complete the following Shingo Workshops: DISCOVER EXCELLENCE, SYSTEMS DESIGN, CULTURAL ENABLERS, CONTINUOUS IMPROVEMENT, and ENTERPRISE ALIGNMENT. All workshops will be completed in a real-time virtual environment alongside working professionals. For more information regarding each workshop, please visit shingo.org/education.

Shingo Project: In this course, students will work directly with a mentor to design or create a system guided by the Shingo Model™ as they complete the capstone BUILD EXCELLENCE workshop. The workshop helps to develop a structured approach to execute a cultural transformation. It builds upon a foundation of principles, using tools that already exist within many organizations. It teaches you how to build systems that drive behavior which will consistently deliver desired results. The project is designed to be implemented at your current place of employment.

Complete ALL of the following Courses:

- MSLE6850 - Shingo Global Strategic Thinking - 0.5cr.
- MSLE6855 - Shingo Workshops - 0.5cr.
- MSLE6860 - Shingo Project - 0.5cr.

Leadership Specialization (9 credits)

Type
Completion Requirement

Leadership Specialization

This specialization focuses on developing impactful, innovative, and inclusive leaders who can negotiate strategic agreements and influence stakeholders.

Complete ALL of the following Courses:

- MSLE6200 - Executive Influence - 3cr.
- MSLE6645 - Innovative and Inclusive Leadership - 3cr.
- MSLE6741 - Leadership Development - 3cr.

Business Analytics Specialization (9 Credits)

Type

Completion Requirement

Business Analytics Specialization

The competencies learned in the Business Analytics specialization focus upon business intelligence, information systems strategy, and database design and mining.

Complete ALL of the following Courses:

- DATA6060 - Analytics in the Enterprise - 3cr.
- ***Graduate-level course in business intelligence, information systems strategy, or database design – must be approved by department (3 credits)***
- ***Graduate-level course in business intelligence, information systems strategy, or database design – must be approved by department (3 credits)***

Strategic Business Development and Venturing Specialization (9 Credits)

Type

Completion Requirement

Strategic Business Development and Venturing Specialization

The Strategic Business Development and Venturing Specialization focuses on strategy and venturing skills which are tremendous assets to companies which want managers capable of identifying and leading growth strategies.

Complete ALL of the following Courses:

- MSLE6410 - Enterprise and Value Creation - 3cr.
- MSLE6520 - Enterprise Brand and Marketing - 3cr.
- MSLE6650 - Strategic Sales Management - 3cr.

Finance Specialization (9 Credits) - NOT CURRENTLY OFFERED

Type

Completion Requirement

Finance Specialization - NOT CURRENTLY OFFERED

This specialization in Finance focuses on financial management, investment analysis, and strategic decision-making within the corporate and financial sectors.

Complete ALL of the following Courses:

- FIN6410 - Corporate Finance - 3cr.
- ***Graduate-level course in financial management, investment analysis or financial strategic decision-making – must be approved by department (3 credits)***
- ***Graduate-level course in financial management, investment analysis or financial strategic decision-making – must be approved by department (3 credits)***

Program Learning Outcomes

Program Learning Outcomes

https://huntsman.usu.edu/assessment/assessment-plan

Mind-Body Wellness - Certificate

Program Overview

College
College of Education & Human Services

Department
Kinesiology and Health Science

Program Level
Undergraduate

About this Degree

The Mind-Body Wellness Certificate Program at Utah State University offers a comprehensive exploration of wellness, nutrition, and stress management to cultivate a holistic understanding of human health. Through a diverse curriculum spanning the science of nutrition, the progression of dietary needs through the human life cycle, and the practice of mindfulness and stress management, students are empowered with knowledge and practical skills. The program aims to:

1. Equip students with a deep understanding of human nutrition, its chemical foundations, and its impact on well-being across all life stages.
2. Foster practical competencies in applying mindfulness and meditation practices as effective tools for personal and community health enhancement.
3. Develop critical thinking and application skills in health and wellness, addressing the physical, spiritual, social, and emotional dimensions.
4. Prepare students to implement effective stress management techniques, understanding the interplay between the mind and body, and promoting long-term well-being.

Upon completion, graduates will possess a robust set of skills and knowledge that prepare them for diverse roles in health promotion, wellness coaching, and community health leadership, contributing to the improvement of public health outcomes. This certificate serves as both a foundation for further academic pursuit in health sciences and a standalone credential for immediate application in various professional contexts.

Program Requirements

Total Credits Required In Program Coursework
17

Total Credits Required To Earn This Credential
17

Simple Requisites

Program Requirements

- Cumulative Number of Required Credits: **17**
- Overall Minimum GPA for Graduation: **2.0 GPA**
- Courses may not be taken on a pass/fail basis except for those courses which are only taught pass/fail.

Mind-Body Wellness - Certificate

Type
Completion Requirement

Required Courses (17 credits)

Complete ALL of the following Courses:

- HEP2500 - Health and Wellness - 2cr.
- HEP3400 - Stress Management - 3cr.
- KIN3700 - Meditation and Mindfulness: History and Practice - 3cr.
- NDFS1020 - Science and Application of Human Nutrition (BLS) - 3cr.
- NDFS2020 - Nutrition Throughout the Life Cycle - 3cr.
- RAM1500 - Leisure and Human Behavior (BSS) - 3cr.

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Undergraduate Academic or Technical Certificates)

Program Learning Outcomes

Program Learning Outcomes

https://cehs.usu.edu/about/assessment

Master of Dietetics Administration - MDA

Program Overview

College	Department	Program Level
College of Agriculture & Natural Resources	Nutrition, Dietetics & Food Sciences	Graduate

About this Degree

Program Contact:

Lacie Peterson, PhD, RDN, CDCES, BC-ADM, FADCES, FAND

Clinical Professor, MDA Program Director

Department of Nutrition, Dietetics and Food Sciences

Lacie.peterson@usu.edu 435-797-4244

Program description:

The Utah State University Master of Dietetics Administration (MDA) prepares graduates to lead and manage people and projects, setting them apart as they enter the workforce or advance in their current careers. The skills emphasized in the MDA program enhance management career options for graduates in clinical, community, food service, and entrepreneurial practice. Nationwide, there is a great need for professionally educated managers and leaders at the local, district, state, and federal levels. Graduates of the program will build skills in leadership, problem-solving, decision-making, financial management, human resource management, business, and more. The hands-on curriculum delivered by faculty equips graduates with the skills they need to land the career they want. The program is accredited by the Accreditation Council for Education in Nutrition and Dietetics (ACEND).

Admission Requirements for this Program

Pre-RD MDA Track

The Pre-RD track is for students who have completed undergraduate dietetics education but do not yet hold the Registered Dietitian credential.

Option 2: The MDA is also available to students completing an affiliated dietetic internship outside Utah State University. Students in this program are concurrently enrolled in an ACEND-accredited Dietetic Internship and pursue their graduate degree online through USU. Students who successfully complete the internship and the MDA graduate program will be awarded a verification statement from their internship, making them eligible to sit for the Registered Dietitian (RD) Exam. For students not completing supervised practice through USU, 31 credits are required. This includes 16 MDA core credits, 6 elective credits, and students may be awarded up to 9 credits for Prior Assessed Learning (PLA) for the 1,000 hours of supervised practice completed as part of the dietetic internship. PLA credit determinations are made on a case-by-case basis and require approval by the Program Director. Tuition is not charged for PLA credits; however, a per-credit evaluation fee will apply.

Pre-RD MDA Admission Requirements

Applicants must complete one of the following two options:

1. Graduate from an accredited nutrition/dietetics program with a DPD Verification Statement OR be in the process of completing an accredited nutrition/dietetics program and will receive a DPD Verification Statement or Foreign Dietitian Education program (FDE) upon completion.
Applicants with a DPD Verification Statement more than 4 years old at the time of application may have to meet additional recency requirements.

2. Graduate with a minimum of a bachelor's degree or be in the process of completing a bachelor's degree and complete foundational dietetics coursework as determined by the USU MDA. Applicants who do not have a DPD Verification Statement must meet with the program director about prerequisite coursework prior to submitting an application.

- Applicants must have a DPD GPA/Prerequisite GPA of 3.0 or greater.
- No Ds or Fs in any DPD/Prerequisite courses.
- Applicants to the USU MDA must secure preceptors and training sites prior to applying.
- Applicants must have technological competence.
- Both a bachelor's degree and a DPD Verification Statement must be conferred prior to August 1st of the year a student plans to start the MDA.
- The GRE is not required for admission.

Post-RD MDA Track

The post-RD track is for students who already hold the Registered Dietitian credential and are interested in pursuing a graduate degree. Applicants must complete one of the following two options:

Option 1: For graduates of the USU Dietetic Internship (USU DI) prior to 2023. The 25 graduate credits earned in the USU DI are applied to the MDA if the MDA is completed prior to the credit expiration limit of 8 years. In addition, 15 MDA core credits and 3 elective credits are required, for a total of 41 credits.

Option 2: The MDA is also available to credentialed dietitians from non-USU degree programs or for those whose USU DI credits have expired. For students not using credits from the USU DI, 33 credits are required. These include 15 MDA core credits and 18 elective credits, of which at least 9 credits should be from the NDFS department.

Post-RD MDA Admission Requirements

- Registered Dietitian Credential through the Commission on Dietetic Registration
- Bachelor's degree
- Must meet the requirements of the USU graduate school admissions

Program Requirements

Total Credits Required In Program Coursework	Total Credits Required To Earn This Credential
31-43	31-43

Simple Requisites

Program Requirements

Degree Verification: A bachelor's degree from an accredited U.S. college or university or a similarly recognized international university is required for admission to and completion of a graduate program. An official transcript must be received by the university.

Overall Graduate GPA at least 3.0 and no grades of B- or lower: Graduate students are required to maintain at least a 3.0 GPA for degree-program courses. Grades of B- or lower will not be accepted for a graduate degree.

Course Number Acceptability: The program of study for a master's degree cannot include more than 12 semester credits of courses below the 6000 level. Credits in the following areas are not acceptable in a degree program: foreign languages, continuing graduate advisement, individual home study, military science, and courses numbered below 5000.

Matriculation Start Semester: A master's degree must be completed within six years of entering the degree program. Additional time may be requested by the student's advisor and submitted to the Vice Provost of Graduate Studies for review.

Coursework Validity: Coursework over eight years old at the time of degree completion may not be used for a graduate degree unless it is revalidated.

Master's forms: Approval of the Program of Study is required by the School of Graduate Studies.

The MDA program offers two tracks: Pre-RD MDA and Post-RD MDA. There are different options within each prorgam.

MDA Requirements

Type
Completion Requirement

Track 1: Pre-RD MDA

The Pre-RD track is for students who have completed undergraduate dietetics education but do not yet hold the Registered Dietitian credential. The pre-RD track provides a combination of coursework and supervised experiential learning to qualify to take the Registration Examination for dietitians (RD Exam). For complete program information, refer to www.mda.usu.edu.

Fulfill ANY of the following requirements:

Option 1

This option of the pre-RD MDA program combines graduate coursework with 1000 hours of supervised experiential learning to prepare and qualify candidates to sit for the Registration Examination for Dietitians (RD Exam). All graduate courses and experiential learning are completed through Utah State University. Students complete 37 MDA core credits in this program.

Complete ALL of the following Courses:

- NDFS6770 - Dietetics Leadership and Management I - 3cr.
- NDFS6050 - Community Nutrition Experience - 3cr.
- NDFS6051 - Advanced Community Nutrition - 2cr.
- NDFS6350 - Food Service Management Experience - 3cr.
- NDFS6351 - Advanced Food Service Management - 2cr.
- NDFS6450 - Dietetics Career Essentials - 1cr.
- NDFS6570 - Communication Techniques in Dietetics - 3cr.
- NDFS6580 - Application of Research Principles in Dietetics - 3cr.
- NDFS6780 - Dietetics Leadership and Management II - 3cr.
- NDFS6980 - MDA Master's Project - 1cr.

OR

Option 2

This option of the Pre-RD MDA is available to students completing an affiliated dietetic internship outside Utah State University. Students in this program are concurrently enrolled in an ACEND-accredited Dietetic Internship while completing the MDA program online through USU. Students who successfully complete the internship and the MDA will be awarded a verification statement from their internship, making them eligible to sit for the Registered Dietitian (RD) Exam. For students not completing supervised practice through USU, 31 graduate-level credits are required. This includes 16 MDA core credits, 6 elective credits, and 9 credits from supervised practice experiences. Up to 9 credits of Prior Assessed learning (PLA) may be awarded for the 1,000 hours of supervised practice completed during the dietetic internship. PLA credit determinations are made on a case-by-case basis, require an application, and require approval by the Program Director. Tuition is not charged for PLA credits; however, a per-credit evaluation fee will apply.

Complete ALL of the following Courses:

- NDFS6770 - Dietetics Leadership and Management I - 3cr.
- NDFS6450 - Dietetics Career Essentials - 1cr.
- NDFS6580 - Application of Research Principles in Dietetics - 3cr.
- NDFS6570 - Communication Techniques in Dietetics - 3cr.
- NDFS6250 - Clinical Nutrition Experience - 3cr.
- NDFS6050 - Community Nutrition Experience - 3cr.
- NDFS6350 - Food Service Management Experience - 3cr.
- NDFS6780 - Dietetics Leadership and Management II - 3cr.
- NDFS6980 - MDA Master's Project - 1cr.
- NDFS6470 - Global Public Health - 3cr.
  OR NDFS6210 - Advanced Public Health Nutrition - 3cr.
- NDFS6800 - Counseling and Motivational Interviewing for Health Professionals - 3cr.
  OR NDFS6320 - Advanced Sports Nutrition - 3cr.

Track 2: Post-RD MDA

The Post-RD MDA track is for students who already hold the Registered Dietitian credential and are interested in pursuing a graduate degree. The Post-RD MDA is designed for dietitians that are working full- or part-time.

Fulfill ANY of the following requirements:

Option 1

For students that have graduated from the USU Dietetic Internship, these 25 graduate credits earned in the USU Dietetic Internship are applied to the MDA: NDFS6050 COMMUNITY NUTRITION EXPERIENCE (5 credits), NDFS6250 CLINICAL NUTRITION EXPERIENCE (9 credits), NDFS6350 FOOD SERVICE MGMT EXPERIENCE (11 credits). The MDA must be completed prior to these credits expiring in 8 years. In addition, 18 credits are required (15 MDA core credits and 3 elective credits) after admission to the MDA, for a total requirement of 43 credits.

Complete ALL of the following Courses:

- NDFS6770 - Dietetics Leadership and Management I - 3cr.
- NDFS6780 - Dietetics Leadership and Management II - 3cr.
- NDFS6570 - Communication Techniques in Dietetics - 3cr.
- NDFS6580 - Application of Research Principles in Dietetics - 3cr.
- NDFS6980 - MDA Master's Project - 1cr.

- 3 elective credits from the following departments: NDFS, ITLS, ASTE. Courses from NDFS, ITLS and ASTE must be at the 6000-level or above.

OR

Option 2

The MDA is also available to credentialed dietitians that did not complete the USU Dietetic Internship or for those whose USU Dietetic Internship credits have expired. For students not using credits from the USU Dietetic Internship, 33 credits are required. These include 15 MDA core credits and 18 elective credits.

Complete ALL of the following Courses:

- NDFS6770 - Dietetics Leadership and Management I - 3cr.
- NDFS6780 - Dietetics Leadership and Management II - 3cr.
- NDFS6980 - MDA Master's Project - 1cr.
- NDFS6570 - Communication Techniques in Dietetics - 3cr.
- NDFS6580 - Application of Research Principles in Dietetics - 3cr.

- 18 elective credits from the following departments: NDFS, ITLS, ASTE. Courses from NDFS, ITLS and ASTE must be at the 6000-level or above.

Program Learning Outcomes

Program Learning Outcomes
https://qanr.usu.edu/ndfs/assessment

Mechanical Engineering - Minor

Program Overview

College
College of Engineering

Department
Mechanical & Aerospace Engineering

Program Level
Undergraduate

About this Degree
For more information about the Mechanical and Aerospace Engineering department, see the Mechanical and Aerospace Engineering department webpage.

Admission Requirements for this Program
Before a student can declare this minor, they must have a declared major with 30 completed credits and a cumulative GPA of 3.0 or higher in their declared major. Courses for the minor may not be taken on a pass/fail basis.

Students must maintain a cumulative GPA of 3.0 or higher in Mechanical Engineering Minor required courses.

Students are ineligible for the minor and cannot register for the upper-division elective Mechanical Engineering Minor elective courses if they fail to maintain a cumulative GPA of 3.0 or higher in the Mechanical Engineering Minor required courses or exceed the allowed one repeat.

If a student pursuing a Mechanical Engineering major becomes ineligible to graduate in that degree program, they do not qualify for the Mechanical Engineering minor.

Additionally, if a student becomes ineligible to take any of the required courses in the Mechanical Engineering major for any reason, they do not qualify for the Mechanical Engineering minor.

Students who previously qualified for admission to the Mechanical Engineering Professional Program and who left the program in good standing, can qualify for the minor even if the GPA for the minor required courses is less than 3.0.

Students must take a minimum of 3 credit hours (1 course) worth of Mechanical Engineering Minor elective courses.

A student who desires to pursue a minor in Mechanical Engineering must recognize that there may be prerequisites to required minor courses.

Program Requirements

Total Credits Required To Earn This Credential
15

Simple Requisites

Program Requirements

Section 1

Type
Completion Requirement

Mechanical Engineering Required Courses

Complete ALL of the following Courses:

- MAE2300 - Thermodynamics I - 3cr.
- ENGR2010 - Engineering Mechanics Statics - 3cr.
- ENGR2030 - Engineering Mechanics Dynamics - 3cr.
- ENGR2140 - Mechanics of Materials - 3cr.

Mechanical Engineering Minor Elective Courses

Students must complete one of the following courses:

Fulfill ANY of the following requirements:

Courses offered fall semester:

Complete at least 1 of the following courses:

- MAE3040 - Mechanics of Solids - 3cr.
- MAE3420 - Fluid Mechanics - 3cr.
- MAE5300 - Vibrations - 3cr.
- MAE5360 - Advanced Dynamics - 3cr.
- MAE5310 - Control Systems - 4cr.
  OR ECE5310 - Control Systems - 4cr.

OR

Courses offered spring semester:

Complete at least 1 of the following courses:

- MAE5350 - Kinematics - 3cr.
- MAE5320 - Mechatronics - 4cr.
  OR ECE5320 - Mechatronics - 4cr.

OR

Courses offered both fall and spring semester:

Complete at least 1 of the following courses:

- MAE3340 - Instrumentation and Measurements - 3cr.

Program Learning Outcomes

Program Learning Outcomes

https://engineering.usu.edu/

Mechanical Engineering - Aerospace Engineering Emphasis - BS

Program Overview

College
College of Engineering

Department
Mechanical & Aerospace Engineering

Program Level
Undergraduate

About this Degree

Mechanical engineering deals with the creation of the mechanical systems and machines that serve society. Mechanical engineers are involved in researching and designing mechanical devices of all types, including engines, tools, and machines. The broad discipline allows graduates to work in nearly every area of industry.

Aerospace Engineering Emphasis: Aerospace engineers design, develop, and test aircraft, spacecraft, and missile systems, as well as supervising the manufacturing process of these products. Students focusing on aerospace engineering have the qualifications to become an aeronautical engineer or an astronautic engineer. Aeronautical engineers are those aerospace engineers who deal with airplanes, while astronautic engineers are engineers who deal specifically with spacecraft.

- For more information about Mechanical and Aerospace Engineering department, see the Mechanical and Aerospace Engineering department webpage.
- The Mechanical Engineering Program is accredited by the Engineering Accreditation Commission of ABET, http://abet.org, under the commission's General Criteria and the Program Criteria for Mechanical Engineering and Similarly Named Programs.
- Admitted and current students must meet with an advisor.
- Log on to Degree Works to check student-specific program progress.
- The highest math requirement for this degree is Math 2250

Admission Requirements for this Program

New Freshman and Transfer Students (from other institutions or other USU programs)

- Admitted to USU in Good Standing

New Freshman:

- 2.8 High School GPA or higher
- 20 ACT or 1030 SAT or higher

Admission Requirements for the Pre-Professional Program

- Completion of Engineering Foundations courses (listed below)
- MATH1210 CALCULUS I (QL), MATH 1220, CHEM 1210, CHEM 1215, PHYS 2210, PHYS 2215, ENGR 1010, ENGR 1400 completed with a C- or higher
- 2.8 or higher GPA in Engineering Foundations courses

Program Requirements

Total Credits Required In Program Coursework
102

Total Credits Required To Earn This Credential
120

Simple Requisites

Program Requirements

Mechanical Engineering- Aerospace Emphasis- BS Course Requirements

Type
Completion Requirement

Engineering Foundations Courses (25 credits)

- A Cumulative USU GPA of 2.8 or higher is required in Engineering Foundations courses below.
- Engineering Foundations courses: Math 1210, Math 1220, ENGR 1010, ENGR 1400, PHYS 2210, PHYS 2215, CHEM 1210, CHEM 1215 require a grade of C- or higher.
- The P/D+, D, F grading option may not be used in required courses completed as part of Engineering Foundations program. (The P/D+, D, F grading option is approved for University Studies Courses.)

Complete ALL of the following Courses:

- CHEM1210 - Principles of Chemistry I - 4cr.
- CHEM1215 - Chemical Principles Laboratory I - 1cr.
- ENGR1010 - Engineering Exploration - 3cr.
- ENGR1400 - Computer Programming for Engineers - 4cr.
- MATH1210 - Calculus I (QL) - 4cr.
- MATH1220 - Calculus II (QL) - 4cr.
- PHYS2210 - Physics for Scientists and Engineers I (QI/BPS) - 4cr.
- PHYS2215 - Physics for Scientists and Engineers Lab I - 1cr.

Pre-Professional Program Courses (35 credits)

- A Cumulative USU GPA of 2.8 or higher is required in pre-professional courses, NOT including ENGL2010 RSRCH&ARGUMENT PRSPCTVES (CL2) or ENGL2020 PROFESSNL COMMUNICATION (CL2)
- All courses require a grade of C- or higher.
- The P/D+, D, F grading option may not be used in required courses completed as part of Engineering Foundations or a pre-professional program. (The P/D+, D, F grading option is approved for University Studies Courses.)

Complete ALL of the following Courses:

- MATH2210 - Multivariable Calculus (QI) - 3cr.
- MATH2250 - Linear Algebra and Differential Equations (QI) - 4cr.
- MAE1200 - Engineering Graphics - 2cr.
- MAE2300 - Thermodynamics I - 3cr.
- MAE2450 - Engineering Numerical Methods - 3cr.
- ENGR2010 - Engineering Mechanics Statics - 3cr.
- ENGR2210 - Fundamental Electronics for Engineers - 3cr.
- ENGR2030 - Engineering Mechanics Dynamics - 3cr.
- ENGR2140 - Mechanics of Materials - 3cr.
- PHYS2220 - Physics for Scientists and Engineers II (BPS/QI) - 4cr.
- PHYS2225 - Physics for Scientists and Engineers Lab II - 1cr.
- ENGL2010 - Research and Argument Across Perspectives (CL2) - 3cr.
  OR ENGL2020 - Professional Communication (CL2) - 3cr.

ENGL2010 RSRCH&ARGUMENT PRSPCTVES (CL2)/ENGL2020 PROFESSNL COMMUNICATION (CL2) not included in the Pre-Professional Program GPA calculation

****Students must take a minimum of 9 credit hours (3 courses) worth of aerospace technical electives. If a student takes ENGR1010 in their first 30 credits of the Pre-Professional Program, they are only required to take 6 credit hours (2 courses) worth of aerospace technical electives.***

Professional Program Required Coursework (39 credits)

For Mechanical Engineering major- Aerospace emphasis in the professional program the following academic regulations apply, in addition to University regulations:

- A Cumulative USU GPA of 2.0 or higher is required in all upper-division required and technical elective courses. Courses which were part of the pre-professional program requirements and University Studies courses are not included in this GPA calculation.
- All courses require a grade of C- or higher.
- No more than one total repeat is allowed for each required or technical elective course. Courses completed as part of a pre-professional program are not included in this total. Audits count as a time taking a class and will be counted towards repeats.
- Students must take a minimum of 9 credit hours (3 courses) worth of aerospace technical electives. If a student takes ENGR1010 in their first 30 credits of the Pre-Professional Program, they are only required to take 6 credit hours (2 courses) worth of aerospace technical electives.
- The P/D+, D, F grading option may not be used in required or technical elective courses completed as part of a professional program. (The P/D+, D, F grading option is approved for University Studies Courses.)

Complete ALL of the following Courses:

- ENGR3080 - Creativity and Communication in Design (CI) - 3cr.
- MAE2160 - Material Science - 3cr.
- MAE2165 - Material Science Laboratory - 1cr.
- MAE3040 - Mechanics of Solids - 3cr.
- MAE3340 - Instrumentation and Measurements - 3cr.
- MAE3420 - Fluid Mechanics - 3cr.
- MAE3440 - Heat Transfer (QI) - 3cr.
- MAE3600 - Engineering Professionalism and Ethics - 1cr.
- MAE4300 - Machine Design - 3cr.
- MAE4400 - Fluids/Thermal Laboratory (CI) - 1cr.
- MAE4800 - Capstone Design I (CI) - 3cr.
- MAE4810 - Capstone Design II - 3cr.
- MAE5300 - Vibrations - 3cr.
  OR MAE5360 - Advanced Dynamics - 3cr.
- MAE5500 - Aerodynamics - 3cr.
- MAE5560 - Dynamics of Space Flight - 3cr.

****Students must take either MAE5300 VIBRATIONS or MAE5360 ADV DYNAMICS to fulfill the major requirements. The course that is used to fulfill the major requirements will not also fulfill the technical elective requirement; students must take an additional course from the specified list to fulfill the technical elective requirement.***

Aerospace Technical Elective Courses (6-9 credits)

One aerospace technical elective course must be completed from the **Supplemental** aerospace technical elective list.

The other aerospace technical elective courses must be completed from the **Supplemental** or **Breadth** aerospace technical elective lists.

Fulfill ALL of the following requirements:

Supplemental Aerospace Technical Electives

Complete at least 1 of the following courses:

- MAE5330 - Small Unmanned Aircraft Systems - 3cr.

- MAE5420 - Compressible Fluid Flow - 3cr.
- MAE5510 - Dynamics of Atmospheric Flight - 3cr.
- MAE5540 - Propulsion Systems - 3cr.
- MAE5550 - Introduction to Aircraft Structures - 3cr.
- ECE5230 - Spacecraft Systems Engineering - 3cr.
- ECE5235 - Space System Design - 3cr.

AND

Breadth Aerospace Technical Electives

Complete ANY of the following Courses:

- MAE5020 - Finite Element Methods in Solid Mechanics I - 3cr.
- MAE5040 - Experimental Solid Mechanics - 3cr.
- MAE5050 - Material Science of Composites - 3cr.
- MAE5060 - Mechanics of Composite Materials I - 3cr.
- MAE5300 - Vibrations - 3cr.
- MAE5310 - Control Systems - 4cr.
- MAE5320 - Mechatronics - 4cr.
- MAE5370 - Optimization for Engineers - 3cr.
- MAE5440 - Computational Fluid Dynamics - 3cr.
- MAE5460 - Combustion - 3cr.

Students must take either MAE5300 VIBRATIONS or MAE5360 ADV DYNAMICS to fulfill the major requirements. The course that is used to fulfill the major requirement will not also fulfill the technical elective requirement; students must take an additional course from the specified list to fulfill the technical elective requirement

Open Electives

Complete the following as needed:
Total elective credit is determined by General Education courses taken, degree type selected, additional credits earned, and any additional math or other prerequisite courses needed. Please consult your Academic Advisor for details.

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Bachelor's Degree)

Suggested Degree Maps

Degree Map Name
Suggested Degree Map - Mechanical Engineering: Aerospace Emphasis, BS
Total Degree Map Credits
121 - 124
Degree Map Effective Catalog Year
2027 -

Degree Map Narrative

- Following is a sample four-year plan. Please note that student-specific plans may differ.
- Meet with an academic advisor to create a specific plan that best fits your academic needs.
- The student is ultimately responsible for knowing and completing all degree requirements.
- Make sure you meet the registration requirements for each class by clicking the course link and checking any prerequisites or co-requisites.
- Consultation with an advisor may result in an altered plan customized for an individual student.
- Check your Degree Works for requirements and completion.

*Please note: ENGL1010 is required by USU but is not included in the degree map because most engineering students satisfy this requirement through an ACT English score, an SAT Reading score, Advanced Placement (AP) Examinations, or College-Level Examination Program (CLEP).

Year 1 and Year 2 are intended to encompass the Pre-Professional program. Years 3 and 4 are intended to encompass the Professional Program.

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	15	0

Requirement Select
- CHEM1210 - Principles of Chemistry I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	Major
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- CHEM1215 - Chemical Principles Laboratory I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	Major
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- MATH1210 - Calculus I (QL)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	Major
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- Breadth American Institutions (BAI) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	General Education
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- ENGR1010 - Engineering Exploration

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	Major
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	16	0

Requirement Select
- MATH1220 - Calculus II (QL)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	Major
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- PHYS2210 - Physics for Scientists and Engineers I (QI/BPS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	Major
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- PHYS2215 - Physics for Scientists and Engineers Lab I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	Major
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- ENGR1400 - Computer Programming for Engineers

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	Major
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- ENGL2010 - Research and Argument Across Perspectives (CL2)

  OR
- ENGL2020 - Professional Communication (CL2)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	General Education
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	16	0

Requirement Select
- ENGR2010 - Engineering Mechanics Statics

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	Major
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- ENGR2210 - Fundamental Electronics for Engineers

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	Major
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- MATH2210 - Multivariable Calculus (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	Major
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- PHYS2220 - Physics for Scientists and Engineers II (BPS/QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	Major
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- PHYS2225 - Physics for Scientists and Engineers Lab II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	Major
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- MAE1200 - Engineering Graphics

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	Major
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	16	0

Requirement Select
- ENGR2030 - Engineering Mechanics Dynamics

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	Major
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- ENGR2140 - Mechanics of Materials

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	Major
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- MAE2300 - Thermodynamics I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	Major
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- MAE2450 - Engineering Numerical Methods

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	Major
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- MATH2250 - Linear Algebra and Differential Equations (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	Major
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Fall	16	0

Requirement Select
- MAE2160 - Material Science

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	Major
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- MAE2165 - Material Science Laboratory

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	Major
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- ENGR3080 - Creativity and Communication in Design (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	Major
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- MAE3040 - Mechanics of Solids

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	Major
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- MAE3420 - Fluid Mechanics

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	Major
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Breadth Humanities (BHU) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	General Education
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Spring	16 - 17	0

Requirement Select
- MAE3340 - Instrumentation and Measurements

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	Major
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- MAE3440 - Heat Transfer (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	Major
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- MAE4300 - Machine Design

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	Major
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Breadth Life Sciences (BLS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	General Education
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- MAE3600 - Engineering Professionalism and Ethics

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	Major
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- Breadth Social Sciences (BSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	General Education
Actual Credits	3 - 4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Fall	13	0

Requirement Select
- MAE4400 - Fluids/Thermal Laboratory (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	Major
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- MAE4800 - Capstone Design I (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	Major
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- MAE5300 - Vibrations
  OR
- MAE5360 - Advanced Dynamics

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	Major
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- MAE5500 - Aerodynamics

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	Major
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Mechanical Engineering Aerospace Technical Electives - Supplemental (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	Major
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Spring	13 - 15	0

Requirement Select

- MAE4810 - Capstone Design II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	Major
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- MAE5560 - Dynamics of Space Flight

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	Major
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Depth Social Sciences (DSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	General Education
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Mechanical Engineering Aerospace Technical Electives - Supplemental or Breadth (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	Major
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Depth Humanities and Creative Arts (DHA) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1 - 3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	Total Major Credits
18 - 19	102
Total Minor Credits	**Total Elective Credits**
0	0

Program Learning Outcomes

Program Learning Outcomes
https://www.usu.edu/oda/assessment/

Mechanical Engineering - BS

Program Overview

College
College of Engineering

Department
Mechanical & Aerospace Engineering

Program Level
Undergraduate

About this Degree
Mechanical engineering deals with the creation of the mechanical systems and machines that serve society. Mechanical engineers are involved in researching and designing mechanical devices of all types, including engines, tools, and machines. The broad discipline allows one to work in nearly every area of industry.

- For more information about the Mechanical and Aerospace Engineering department , see the Mechanical and Aerospace Engineering department webpage.
- The Mechanical Engineering BS program is accredited by the Engineering Accreditation Commission of ABET, http://abet.org, under the commission's General Criteria and the Program Criteria for Mechanical Engineering and Similarly Named Programs.
- Admitted and current students must meet with an advisor.
- Log on to Degree Works to check student-specific program progress.
- The highest math requirement for this degree is MATH2250 LINEAR ALG/DIFF EQUATIONS (QI)

Admission Requirements for this Program
New Freshman and Transfer Students (from other institutions or other USU programs)

- Admitted to USU in Good Standing

New Freshman:

- 2.8 High School GPA or higher
- 20 ACT or 1030 SAT or higher

Admission Requirements for the Pre-Professional Program:

- Completion of Engineering Foundations courses (listed below)
- MATH1210 CALCULUS I (QL), MATH 1220, CHEM 1210, CHEM 1215, PHYS 2210, PHYS 2215, ENGR 1010, ENGR 1400 completed with a C- or higher
- 2.8 or higher GPA in Engineering Foundations courses

Program Requirements

Total Credits Required In Program Coursework
102

Total Credits Required To Earn This Credential
120

Simple Requisites

Program Requirements

Mechanical Engineering - BS Course Requirements

Type
Completion Requirement

Engineering Foundations Courses (25 credits)

- A Cumulative USU GPA of 2.8 or higher is required in Engineering Foundations courses.
- Engineering Foundations courses: Math 1210, Math 1220, ENGR 1010, ENGR 1400, PHYS 2210, PHYS 2215, CHEM 1210, CHEM 1215 require a grade of C- or higher.
- The P/D+, D, F grading option may not be used in required courses completed as part of Engineering Foundations program. (The P/D+, D, F grading option is approved for University Studies Courses.)

Complete ALL of the following Courses:

- CHEM1210 - Principles of Chemistry I - 4cr.
- CHEM1215 - Chemical Principles Laboratory I - 1cr.
- ENGR1010 - Engineering Exploration - 3cr.
- ENGR1400 - Computer Programming for Engineers - 4cr.
- MATH1210 - Calculus I (QL) - 4cr.
- MATH1220 - Calculus II (QL) - 4cr.
- PHYS2210 - Physics for Scientists and Engineers I (QI/BPS) - 4cr.
- PHYS2215 - Physics for Scientists and Engineers Lab I - 1cr.

Pre-Professional Program Courses (35 credits)

- A Cumulative USU GPA of 2.8 or higher is required in pre-professional courses, NOT including ENGL2010 RSRCH&ARGUMENT PRSPCTVES (CL2) or ENGL2020 PROFESSNL COMMUNICATION (CL2)
- All courses require a grade of C- or higher.
- The P/D+, D, F grading option may not be used in required courses completed as part of Engineering Foundations or a pre-professional program. (The P/D+, D, F grading option is approved for University Studies Courses.)

Complete ALL of the following Courses:

- ENGR2010 - Engineering Mechanics Statics - 3cr.
- ENGR2030 - Engineering Mechanics Dynamics - 3cr.
- ENGR2140 - Mechanics of Materials - 3cr.
- ENGR2210 - Fundamental Electronics for Engineers - 3cr.
- MAE1200 - Engineering Graphics - 2cr.
- MAE2300 - Thermodynamics I - 3cr.
- MAE2450 - Engineering Numerical Methods - 3cr.
- MATH2210 - Multivariable Calculus (QI) - 3cr.
- MATH2250 - Linear Algebra and Differential Equations (QI) - 4cr.
- PHYS2225 - Physics for Scientists and Engineers Lab II - 1cr.
- PHYS2220 - Physics for Scientists and Engineers II (BPS/QI) - 4cr.
- ENGL2010 - Research and Argument Across Perspectives (CL2) - 3cr.
  OR ENGL2020 - Professional Communication (CL2) - 3cr.

ENGL2010 RSRCH&ARGUMENT PRSPCTVES (CL2)/ENGL2020 is not included in the Pre-Professional Program GPA calculation

****Students must take a minimum of 15 credit hours (5 courses) worth of technical electives. If a student takes ENGR 1010 in their first 30 credits of the Pre-Professional Program, they are only required to take 12 credit hours (4 courses) worth of technical electives.***

Mechanical Engineering Professional Program Coursework (33 credits)

For Mechanical Engineering majors in the professional program the following academic regulations apply, in addition to University regulations:

- A Cumulative USU GPA of 2.0 or higher is required in all upper-division required and technical elective courses. Courses which were part of the pre-professional program requirements and University Studies courses are not included in this GPA calculation.
- All courses require a grade of C- or higher.
- No more than one total repeat is allowed for each required or technical elective course. Courses completed as part of a pre-professional program are not included in this total. Audits count as a time taking a class and will be counted towards repeats.
- Students must take a minimum of 15 credit hours (5 courses) worth of technical electives. At least two must have an MAE prefix. If a student takes ENGR 1010 in their first 30 credits of the Pre-Professional Program, they are only required to take 12 credit hours (4 courses) worth of technical electives.
- The P/D+, D, F grading option may not be used in required or technical elective courses completed as part of a professional program. (The P/D+, D, F grading option is approved for University Studies Courses.)

Complete ALL of the following Courses:

- ENGR3080 - Creativity and Communication in Design (CI) - 3cr.
- MAE2160 - Material Science - 3cr.
- MAE2165 - Material Science Laboratory - 1cr.
- MAE3040 - Mechanics of Solids - 3cr.
- MAE3340 - Instrumentation and Measurements - 3cr.
- MAE3420 - Fluid Mechanics - 3cr.
- MAE3440 - Heat Transfer (QI) - 3cr.
- MAE3600 - Engineering Professionalism and Ethics - 1cr.
- MAE4300 - Machine Design - 3cr.
- MAE4400 - Fluids/Thermal Laboratory (CI) - 1cr.
- MAE4800 - Capstone Design I (CI) - 3cr.
- MAE4810 - Capstone Design II - 3cr.
- MAE5300 - Vibrations - 3cr.
  OR MAE5360 - Advanced Dynamics - 3cr.

****Students must take either MAE5300 VIBRATIONS or MAE5360 ADV DYNAMICS to fulfill the major requirements. The course that is used to fulfill the major requirement will not also fulfill the technical elective requirement; students must take an additional course from the specified list to fulfill the technical elective requirement***

Technical Elective Courses (15 credits)

Mechanical engineering technical elective courses must be selected from any of the following courses. At least **two** must have an MAE prefix.

Complete ANY of the following Courses:

- MAE5020 - Finite Element Methods in Solid Mechanics I - 3cr.
- MAE5040 - Experimental Solid Mechanics - 3cr.
- MAE5045 - Adhesion Sciences - 3cr.
- MAE5050 - Material Science of Composites - 3cr.
- MAE5060 - Mechanics of Composite Materials I - 3cr.
- MAE5300 - Vibrations - 3cr.
- MAE5310 - Control Systems - 4cr.
- MAE5320 - Mechatronics - 4cr.
- MAE5330 - Small Unmanned Aircraft Systems - 3cr.
- MAE5340 - Introduction to Planning and Control for Mobile Robots - 3cr.
- MAE5350 - Kinematics - 3cr.

- MAE5360 - Advanced Dynamics - 3cr.
- MAE5370 - Optimization for Engineers - 3cr.
- MAE5420 - Compressible Fluid Flow - 3cr.
- MAE5430 - Advanced Thermal-Fluids - 3cr.
- MAE5440 - Computational Fluid Dynamics - 3cr.
- MAE5450 - Hybrid Energy - 3cr.
- MAE5460 - Combustion - 3cr.
- MAE5500 - Aerodynamics - 3cr.
- MAE5510 - Dynamics of Atmospheric Flight - 3cr.
- MAE5540 - Propulsion Systems - 3cr.
- MAE5550 - Introduction to Aircraft Structures - 3cr.
- MAE5560 - Dynamics of Space Flight - 3cr.
- MAE5700 - Introduction to Microfabrication - 3cr.
- CS5000 - Theory of Computability - 3cr.
- CS5050 - Advanced Algorithms - 3cr.
- CS5110 - MultiAgent Systems - 4cr.
- CS5300 - Compiler Construction - 4cr.
- CS5600 - Intelligent Systems - 4cr.
- CS5665 - Machine Learning for Data Science - 3cr.
- CS5680 - Computer Vision: Foundations and Applications - 3cr.
- CS5700 - Object-Oriented Software Development - 4cr.
- CS5800 - Introduction to Database Systems - 3cr.
- ECE3710 - Microcontroller Hardware and Software - 4cr.
- ECE5110 - Fundamentals of Electric Power Systems - 3cr.
- ECE5230 - Spacecraft Systems Engineering - 3cr.
- ECE5235 - Space System Design - 3cr.
- ECE5730 - Reconfigurable Computing - 3cr.
- ECE5790 - Principles of Cyber-Physical Systems - 3cr.
- ENGR5600 - Entrepreneurial Mindset for Engineers: An Introduction - 3cr.
- ENGR5970 - Introduction to Engineering Research - 3cr.
- MATH5110 - Differential Geometry - 3cr.
- MATH5270 - Complex Variables - 3cr.
- MATH5340 - Theory of Linear Algebra - 3cr.
- MATH5410 - Methods of Applied Mathematics - 3cr.
- MATH5420 - Partial Differential Equations - 3cr.
- MATH5460 - Nonlinear Dynamics - 3cr.
- MATH5610 - Introduction to Numerical Analysis - 3cr.
- MATH5620 - Numerical Algorithms for Approximate Solutions of DE - 3cr.
- MATH5710 - Introduction to Probability - 3cr.
- MATH5760 - Applied Stochastic Processes - 3cr.
- MATH6640 - Optimization - 3cr.
- PHYS4600 - Electromagnetism II - 3cr.
- PHYS4700 - Quantum Mechanics I - 3cr.
- PHYS4710 - Quantum Mechanics II - 3cr.
- PHYS5650 - Optics I - 3cr.
- STAT5200 - Analysis of Designed Experiments - 3cr.

Students must take either MAE5300 VIBRATIONS or MAE5360 ADV DYNAMICS to fulfill the major requirements. The course that is used to fulfill the major requirement will not also fulfill the technical elective requirement; students must take an additional course from the specified list to fulfill the technical elective requirement

Open Electives

Complete the following as needed:
Total elective credit is determined by General Education courses taken, degree type selected, additional credits earned, and any additional math or other prerequisite courses needed. Please consult your Academic Advisor for details.

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Bachelor's Degree)

Suggested Degree Maps

Degree Map Name
Suggested Degree Map - Mechanical Engineering BS
Total Degree Map Credits
121 - 124
Degree Map Effective Catalog Year
2027 -

Degree Map Narrative

- Following is a sample four-year plan. Please note that student-specific plans may differ.
- Meet with an academic advisor to create a specific plan that best fits your academic needs.
- The student is ultimately responsible for knowing and completing all degree requirements.
- Make sure you meet the registration requirements for each class by clicking the course link and checking any prerequisites or corequisites.
- Consultation with an advisor may result in an altered plan customized for an individual student.
- Check your Degree Works for requirements and completion.

*Please note: ENGL1010 is required by USU but is not included in the degree map because most engineering students satisfy this requirement through an ACT English score, an SAT Reading score, Advanced Placement (AP) Examinations, or College-Level Examination Program (CLEP).

Year 1 and Year 2 are intended to encompass the Pre-Professional program. Years 3 and 4 are intended to encompass the Professional Program.

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	15	0

Requirement Select

- CHEM1210 - Principles of Chemistry I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	Major
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- CHEM1215 - Chemical Principles Laboratory I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	Major
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- MATH1210 - Calculus I (QL)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	Major
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- Breadth American Institutions (BAI) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	General Education
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- ENGR1010 - Engineering Exploration

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	Major
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	16	0

Requirement Select
- MATH1220 - Calculus II (QL)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	Major
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- PHYS2210 - Physics for Scientists and Engineers I (QI/BPS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	Major
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- PHYS2215 - Physics for Scientists and Engineers Lab I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	Major
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- ENGR1400 - Computer Programming for Engineers

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	Major
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- ENGL2010 - Research and Argument Across Perspectives (CL2)

  OR
- ENGL2020 - Professional Communication (CL2)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	General Education
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	16	0

Requirement Select

- ENGR2010 - Engineering Mechanics Statics

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	Major
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- ENGR2210 - Fundamental Electronics for Engineers

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	Major
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- MATH2210 - Multivariable Calculus (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	Major
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- PHYS2220 - Physics for Scientists and Engineers II (BPS/QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	Major
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- PHYS2225 - Physics for Scientists and Engineers Lab II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	Major
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- MAE1200 - Engineering Graphics

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	Major
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	16	0

Requirement Select

- ENGR2030 - Engineering Mechanics Dynamics

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	Major
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- ENGR2140 - Mechanics of Materials

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	Major
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- MAE2450 - Engineering Numerical Methods

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	Major
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- MAE2300 - Thermodynamics I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	Major
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- MATH2250 - Linear Algebra and Differential Equations (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	Major
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Fall	16	0

Requirement Select
- MAE2160 - Material Science

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	Major
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- MAE2165 - Material Science Laboratory

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	Major
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- ENGR3080 - Creativity and Communication in Design (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	Major
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- MAE3040 - Mechanics of Solids

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	Major
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- MAE3420 - Fluid Mechanics

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	Major
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Breadth Humanities (BHU) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	General Education
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Spring	16 - 17	0

Requirement Select
- MAE3340 - Instrumentation and Measurements

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	Major
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- MAE3440 - Heat Transfer (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	Major
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- MAE4300 - Machine Design

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	Major
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Breadth Life Sciences (BLS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	General Education
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- MAE3600 - Engineering Professionalism and Ethics

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	Major
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- Breadth Social Sciences (BSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	General Education
Actual Credits	3 - 4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Fall	13	0

Requirement Select
- MAE4800 - Capstone Design I (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	Major
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- MAE5360 - Advanced Dynamics

OR
- MAE5300 - Vibrations

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	Major
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Mechanical Engineering Technical Electives (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	Major
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Mechanical Engineering Technical Electives (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	Major
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- MAE4400 - Fluids/Thermal Laboratory (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	Major
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Spring	13 - 15	0

Requirement Select
- MAE4810 - Capstone Design II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	Major
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Depth Social Sciences (DSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	General Education
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Mechanical Engineering Technical Electives (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	Major
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Mechanical Engineering Technical Electives (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	Major
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Depth Humanities and Creative Arts (DHA) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1 - 3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
18 - 19	102
Total Minor Credits	**Total Elective Credits**
0	0

Program Learning Outcomes

Program Learning Outcomes

https://www.usu.edu/oda/assessment/

Mechanical Engineering - MS

Program Overview

College	Department	Program Level
College of Engineering	Mechanical & Aerospace Engineering	Graduate

About this Degree

The Department of Mechanical and Aerospace Engineering provides each graduate with a foundation of knowledge and experience upon which to build successful careers in mechanical engineering, aerospace engineering, composite materials and structures, or space systems engineering.

Mechanical Engineering touches nearly every aspect of our modern lives. Mechanical engineers use principles of motion, energy, heat, controls, vibrations, solids, and material science to design and build mechanical devices that lift enormous loads or move microscopic components. Mechanical Engineers effect technological advancements in nearly every field and component of life today.

Our graduate programs emphasize research with faculty by focusing on high levels of student involvement providing enhanced preparation for engineering practice, research and education.

Admission Requirements for this Program

- Official transcript indicating a bachelor's degree in from accredited U.S. college or university or a similarly recognized international university in mechanical or aerospace engineering, or closely related engineering discipline
- GPA of 3.3
- GRE Scores are used by some faculty in choosing students and in funding decisions and are therefore strongly encouraged
- 3 letters of recommendation
- Statement of purpose
- Curriculum Vitae
- International Students - proof of English proficiency (TOEFL or IELTS)

Program Requirements

Total Credits Required In Program Coursework	Total Credits Required To Earn This Credential
30-33	30-33

Simple Requisites

Program Requirements

- Must maintain a minimum 3.0 GPA
- A cumulative GPA of 3.0 is required for graduation
- Grades of C- or lower are not permitted on the program of study
- All graduate students must submit School of Graduate Studies forms and requirements for their chosen plan
- A master's degree must be completed within six years of entering the degree program. Additional time may be requested by the student's committee and submitted to the Vice Provost of Graduate Studies for review
- Coursework over eight years old at the time of degree completion may not be used for a graduate degree unless it is revalidated

- Credits in the following areas are not acceptable: foreign languages, continuing graduate advisement, individual home study, military science, and courses numbered below 5000

Three program plans are available for the Mechanical Engineering MS degree.

The **Plan A Thesis** requires 30 credits (minimum):

- 21 credits of approved MAE coursework
- 3 credits of an approved 5000-level (or above) math course
- Minimum of 6 credits of thesis research
    - A maximum of 15 thesis research credits applied toward a Program of Study
- Only 12 credits of approved 5000- level courses allowed
- A thesis proposal and formal thesis defense are required. The thesis must meet School of Graduate Studies and MAE Department requirements
    - Successful defense and submission of the thesis to the library
- In-person attendance at 6 MAE Research Seminar Series presentations before graduating
- Approval of academic forms required for master's students by the School of Graduate Studies
    - Supervisory Committee
    - Program of Study
    - Thesis Proposal Approval
    - Appointment for Examination
    - Record of Examination
    - SGS and library review and approval

The **Plan B Report** requires 30 credits (minimum):

- 24 credits of approved MAE coursework
- 3 credits of an approved 5000-level (or above) math course
- 3 credits of project research
- Only 12 credits of approved 5000- level courses allowed
- A thesis project proposal and formal report defense are required. The report must meet School of Graduate Studies and MAE Department requirements
    - Successful defense and submission of the project to the library
- In-person attendance at 6 MAE Research Seminar Series presentations before graduating
- Approval of academic forms required for master's students by the School of Graduate Studies
    - Supervisory Committee
    - Program of Study
    - Thesis Project Approval
    - Appointment for Examination
    - Record of Examination
    - Library review and approval

The **Plan C Coursework Only** requires 33 credits (minimum):

- 30 credits of approved MAE coursework
- Only 12 credits of approved 5000- level courses allowed
- 3 credits of an approved 5000-level (or above) math course
- Approval of academic forms required for master's students by the School of Graduate Studies
    - Program of Study

Course Requirements

Type
Completion Requirement

Approved Courses:

Choose 9 credits (MS Plan A) or 12 credits (MS Plan B and C)

Complete ANY of the following Courses:

- CS6685 - Deep Learning Theory and Applications - 3cr. **OR** STAT6685 - Deep Learning Theory and Applications - 3cr.
- CS5680 - Computer Vision: Foundations and Applications - 3cr.
- CS7680 - Advanced Computer Vision - 3cr.
- ECE5230 - Spacecraft Systems Engineering - 3cr.
- ECE6240 - Space Environment and Engineering - 3cr.
- MAE5020 - Finite Element Methods in Solid Mechanics I - 3cr.
- MAE5040 - Experimental Solid Mechanics - 3cr.
- MAE5045 - Adhesion Sciences - 3cr.
- MAE5050 - Material Science of Composites - 3cr.
- MAE5060 - Mechanics of Composite Materials I - 3cr.
- MAE5300 - Vibrations - 3cr.
- MAE5310 - Control Systems - 4cr.
- MAE5320 - Mechatronics - 4cr.
- MAE5330 - Small Unmanned Aircraft Systems - 3cr.
- MAE5340 - Introduction to Planning and Control for Mobile Robots - 3cr.
- MAE5350 - Kinematics - 3cr.
- MAE5360 - Advanced Dynamics - 3cr.
- MAE5370 - Optimization for Engineers - 3cr.
- MAE5420 - Compressible Fluid Flow - 3cr.
- MAE5430 - Advanced Thermal-Fluids - 3cr.
- MAE5440 - Computational Fluid Dynamics - 3cr.
- MAE5450 - Hybrid Energy - 3cr.
- MAE5500 - Aerodynamics - 3cr.
- MAE5510 - Dynamics of Atmospheric Flight - 3cr.
- MAE5530 - Space System Design - 3cr.
- MAE5540 - Propulsion Systems - 3cr.
- MAE5550 - Introduction to Aircraft Structures - 3cr.
- MAE5560 - Dynamics of Space Flight - 3cr.
- MAE5700 - Introduction to Microfabrication - 3cr.
- MAE5930 - Special Problems - 1cr.
- MAE6010 - Finite Element Methods in Solid Mechanics II - 3cr.
- MAE6030 - Metal Additive Manufacturing - 3cr.
- MAE6040 - Continuum Mechanics and Elasticity - 3cr.
- MAE6050 - Manufacturing of Composite Materials and Structures - 3cr.
- MAE6055 - Testing of Composite Materials - 3cr.
- MAE6060 - Micro-Mechanics of Deformation - 3cr.
- MAE6061 - Micro-Mechanisms of Failure - 3cr.
- MAE6070 - Mechanics of Composite Materials II - 3cr.
- MAE6090 - Theory of Plates and Shells - 3cr.
- MAE6130 - Structural Dynamics and Seismic Design - 3cr.
- MAE6180 - Dynamics and Vibrations - 3cr.

- MAE6320 - Linear Multivariable Control - 3cr.
- MAE6330 - Robust Control - 3cr.
- MAE6340 - Spacecraft Attitude Control Theory - 3cr.
- MAE6410 - Fluid Dynamics - 3cr.
- MAE6420 - Mechanical Engineering Experiments - 3cr.
- MAE6430 - Boundary Layer Theory and Convection Heat Transfer - 3cr.
- MAE6440 - Advanced Computational Fluid Dynamics - 3cr.
- MAE6450 - Thermodynamics - 3cr.
- MAE6460 - Conduction and Radiation Heat Transfer - 3cr.
- MAE6490 - Turbulence - 3cr.
- MAE6500 - Potential Flow - 3cr.
- MAE6510 - Aircraft Dynamics and Flight Simulation - 3cr.
- MAE6530 - Propulsion Systems - 3cr.
- MAE6540 - Cislunar Astrodynamics and Distributed Space Systems - 3cr.
- MAE6560 - Spacecraft Navigation - 3cr.
- MAE6570 - Optimal Spacecraft Guidance - 3cr.
- MAE6670 - Fracture Mechanics - 3cr.
- MAE6930 - Special Problems - 1cr.
- MAE7080 - Advanced Plate and Shell Theory - 3cr.
- MAE7330 - Nonlinear and Adaptive Control - 3cr.
- MAE7360 - Optimal Control - 3cr.
- MAE7540 - Astrodynamic Perturbations and Propagation - 3cr.
- MAE7570 - Monte Carlo and Linear Covariance Techniques for Closed-Loop GN&C System Analysis - 3cr.
- ECE7560 - Optimal Estimation for Aerospace Systems - 3cr. **OR** MAE7560 - Optimal Estimation for Aerospace Systems - 3cr.

Approved Courses:

Complete ANY of the following Courses:

- STAT6685 - Deep Learning Theory and Applications - 3cr.
- CS7680 - Advanced Computer Vision - 3cr.
- ECE6240 - Space Environment and Engineering - 3cr.
- MAE6010 - Finite Element Methods in Solid Mechanics II - 3cr.
- MAE6030 - Metal Additive Manufacturing - 3cr.
- MAE6040 - Continuum Mechanics and Elasticity - 3cr.
- MAE6050 - Manufacturing of Composite Materials and Structures - 3cr.
- MAE6055 - Testing of Composite Materials - 3cr.
- MAE6060 - Micro-Mechanics of Deformation - 3cr.
- MAE6061 - Micro-Mechanisms of Failure - 3cr.
- MAE6070 - Mechanics of Composite Materials II - 3cr.
- MAE6090 - Theory of Plates and Shells - 3cr.
- MAE6130 - Structural Dynamics and Seismic Design - 3cr.
- MAE6180 - Dynamics and Vibrations - 3cr.
- MAE6320 - Linear Multivariable Control - 3cr.
- MAE6330 - Robust Control - 3cr.
- MAE6340 - Spacecraft Attitude Control Theory - 3cr.
- MAE6410 - Fluid Dynamics - 3cr.
- MAE6420 - Mechanical Engineering Experiments - 3cr.
- MAE6430 - Boundary Layer Theory and Convection Heat Transfer - 3cr.
- MAE6440 - Advanced Computational Fluid Dynamics - 3cr.
- MAE6450 - Thermodynamics - 3cr.
- MAE6460 - Conduction and Radiation Heat Transfer - 3cr.
- MAE6490 - Turbulence - 3cr.
- MAE6500 - Potential Flow - 3cr.
- MAE6510 - Aircraft Dynamics and Flight Simulation - 3cr.
- MAE6530 - Propulsion Systems - 3cr.
- MAE6540 - Cislunar Astrodynamics and Distributed Space Systems - 3cr.
- MAE6560 - Spacecraft Navigation - 3cr.
- MAE6570 - Optimal Spacecraft Guidance - 3cr.
- MAE6670 - Fracture Mechanics - 3cr.
- MAE6930 - Special Problems - 1cr.
- MAE7080 - Advanced Plate and Shell Theory - 3cr.
- MAE7330 - Nonlinear and Adaptive Control - 3cr.
- MAE7360 - Optimal Control - 3cr.
- MAE7540 - Astrodynamic Perturbations and Propagation - 3cr.
- MAE7570 - Monte Carlo and Linear Covariance Techniques for Closed-Loop GN&C System Analysis - 3cr.
- MAE7560 - Optimal Estimation for Aerospace Systems - 3cr. **OR** ECE7560 - Optimal Estimation for Aerospace Systems - 3cr.

Choose 12 credits (MS Plan A and B) or 18 credits (MS Plan C)

Approved Advanced Math Courses

Choose 3 credits of advanced math

Complete at least 1 of the following courses:

- MAE6200 - Mathematical Methods in Aerospace Engineering - 3cr.
- MATH5270 - Complex Variables - 3cr.
- MATH5410 - Methods of Applied Mathematics - 3cr.
- MATH5420 - Partial Differential Equations - 3cr.
- MATH5460 - Nonlinear Dynamics - 3cr.
- STAT5200 - Analysis of Designed Experiments - 3cr.

Program Learning Outcomes

Program Learning Outcomes

https://engineering.usu.edu/

Mechanical Engineering - PhD

Program Overview

College
College of Engineering

Department
Mechanical & Aerospace Engineering

Program Level
Graduate

About this Degree

The Department of Mechanical and Aerospace Engineering provides each graduate with a foundation of knowledge and experience upon which to build successful careers in mechanical engineering, aerospace engineering, composite materials and structures, or space systems engineering.

Mechanical Engineering touches nearly every aspect of our modern lives. Mechanical engineers use principles of motion, energy, heat, controls, vibrations, solids, and material science to design and build mechanical devices that lift enormous loads or move microscopic components. Mechanical Engineers affect technological advancements in nearly every field and component of life today.

Admission Requirements for this Program

- Official transcript indicating a bachelor's degree from an accredited U.S. college or university or a similarly recognized international university in mechanical or aerospace engineering, or a closely related engineering discipline
- GPA of 3.3
- GRE Scores are used by some faculty in choosing students and in funding decisions and are therefore strongly encouraged
- 3 letters of recommendation
- Statement of Purpose
- Curriculum Vitae
- International Students - proof of English proficiency (TOEFL or IELTS)

Program Requirements

Total Credits Required In Program Coursework
42-72

Total Credits Required To Earn This Credential
42-72

Simple Requisites

Program Requirements

- Must maintain a minimum 3.0 GPA
- A cumulative GPA of 3.0 is required for graduation
- Grades of C- or lower are not permitted on the program of study
- All graduate students must submit School of Graduate Studies forms and requirements for their chosen plan
- A doctorate must be completed within eight years of entering the degree program. Additional time may be requested by the student's committee and submitted to the Vice Provost of Graduate Studies for review
- Coursework over eight years old at the time of degree completion may not be used for a graduate degree unless it is revalidated
- Three PhD qualifying exams must be passed
- A proposal defense and a formal final defense are required for the dissertation. The dissertation must meet School of Graduate Studies and MAE Department requirements
    - Successful defense and submission of the dissertation to the library
- A paper related to the dissertation, with the student as the first author, must be submitted for publication in a refereed journal prior to scheduling the final defense
- Students may choose to earn a Plan C Aerospace Engineering or Mechanical Engineering MS degree while completing their PhD; this option increases the PhD minimum requirement to 81 credits
- Credits in the following areas are not acceptable: foreign languages, continuing graduate advisement, individual home study, military science, and courses numbered below 5000
- In-person attendance at 12 MAE Research Seminar Series presentations before graduating
- Approval of academic forms required for doctoral students by the School of Graduate Studies
    - Supervisory Committee
    - Program of Study
    - Application for Candidacy
    - Appointment for Examination
    - Record of Examination
    - SGS and library review and approval

Two program plans are available for the Mechanical Engineering PhD degree.

The **PhD beyond a Bachelor's** requires 72 credits (minimum):

- 30 credits of approved MAE coursework
- 6 credits of approved 5000-level (or above) math course
- 36 credits of dissertation research
- Only 12 credits of 5000-level courses allowed

The **PhD Degree beyond a Master's** requires 42 credits (minimum):

- 12 credits of approved MAE coursework
- 30 credits of dissertation research

Course Requirements

Type
Completion Requirement

Approved Courses:

Choose 12 credits (**PhD beyond a Bachelor's**)

Earn at least 12 credits from the following:

- CS5680 - Computer Vision: Foundations and Applications - 3cr.
- CS6685 - Deep Learning Theory and Applications - 3cr. **OR** STAT6685 - Deep Learning Theory and Applications - 3cr.
- CS7680 - Advanced Computer Vision - 3cr.
- ECE5230 - Spacecraft Systems Engineering - 3cr.
- ECE6240 - Space Environment and Engineering - 3cr.
- MAE5020 - Finite Element Methods in Solid Mechanics I - 3cr.
- MAE5040 - Experimental Solid Mechanics - 3cr.
- MAE5045 - Adhesion Sciences - 3cr.

- MAE5050 - Material Science of Composites - 3cr.
- MAE5060 - Mechanics of Composite Materials I - 3cr.
- MAE5300 - Vibrations - 3cr.
- MAE5310 - Control Systems - 4cr.
- MAE5320 - Mechatronics - 4cr.
- MAE5330 - Small Unmanned Aircraft Systems - 3cr.
- MAE5340 - Introduction to Planning and Control for Mobile Robots - 3cr.
- MAE5350 - Kinematics - 3cr.
- MAE5360 - Advanced Dynamics - 3cr.
- MAE5370 - Optimization for Engineers - 3cr.
- MAE5420 - Compressible Fluid Flow - 3cr.
- MAE5430 - Advanced Thermal-Fluids - 3cr.
- MAE5440 - Computational Fluid Dynamics - 3cr.
- MAE5450 - Hybrid Energy - 3cr.
- MAE5500 - Aerodynamics - 3cr.
- MAE5510 - Dynamics of Atmospheric Flight - 3cr.
- MAE5530 - Space System Design - 3cr.
- MAE5540 - Propulsion Systems - 3cr.
- MAE5550 - Introduction to Aircraft Structures - 3cr.
- MAE5560 - Dynamics of Space Flight - 3cr.
- MAE5700 - Introduction to Microfabrication - 3cr.
- MAE5930 - Special Problems - 1cr.
- MAE6010 - Finite Element Methods in Solid Mechanics II - 3cr.
- MAE6030 - Metal Additive Manufacturing - 3cr.
- MAE6040 - Continuum Mechanics and Elasticity - 3cr.
- MAE6050 - Manufacturing of Composite Materials and Structures - 3cr.
- MAE6055 - Testing of Composite Materials - 3cr.
- MAE6060 - Micro-Mechanics of Deformation - 3cr.
- MAE6061 - Micro-Mechanisms of Failure - 3cr.
- MAE6070 - Mechanics of Composite Materials II - 3cr.
- MAE6090 - Theory of Plates and Shells - 3cr.
- MAE6130 - Structural Dynamics and Seismic Design - 3cr.
- MAE6180 - Dynamics and Vibrations - 3cr.
- MAE6320 - Linear Multivariable Control - 3cr.
- MAE6330 - Robust Control - 3cr.
- MAE6340 - Spacecraft Attitude Control Theory - 3cr.
- MAE6410 - Fluid Dynamics - 3cr.
- MAE6420 - Mechanical Engineering Experiments - 3cr.
- MAE6430 - Boundary Layer Theory and Convection Heat Transfer - 3cr.
- MAE6440 - Advanced Computational Fluid Dynamics - 3cr.
- MAE6450 - Thermodynamics - 3cr.
- MAE6490 - Turbulence - 3cr.
- MAE6500 - Potential Flow - 3cr.
- MAE6510 - Aircraft Dynamics and Flight Simulation - 3cr.
- MAE6530 - Propulsion Systems - 3cr.
- MAE6540 - Cislunar Astrodynamics and Distributed Space Systems - 3cr.
- MAE6560 - Spacecraft Navigation - 3cr.
- MAE6570 - Optimal Spacecraft Guidance - 3cr.
- MAE6670 - Fracture Mechanics - 3cr.
- MAE6930 - Special Problems - 1cr.
- MAE7080 - Advanced Plate and Shell Theory - 3cr.
- MAE7330 - Nonlinear and Adaptive Control - 3cr.
- MAE7340 - Advanced Aerospace Controls - 3cr.
- MAE7360 - Optimal Control - 3cr.
- MAE7540 - Astrodynamic Perturbations and Propagation - 3cr.
- MAE7560 - Optimal Estimation for Aerospace Systems - 3cr.
- MAE7570 - Monte Carlo and Linear Covariance Techniques for Closed-Loop GN&C System Analysis - 3cr.

Approved Courses:

Choose 18 credits (**PhD beyond a Bachelor's**) or 9 credits (**PhD beyond a Master's**)

Complete ANY of the following Courses:

- STAT6685 - Deep Learning Theory and Applications - 3cr.
- CS7680 - Advanced Computer Vision - 3cr.
- ECE6010 - Stochastic Processes in Electronic Systems - 3cr.
- ECE6030 - Mathematical Methods for Signals and Systems - 3cr.
- ECE6240 - Space Environment and Engineering - 3cr.
- MAE6040 - Continuum Mechanics and Elasticity - 3cr.
- MAE6050 - Manufacturing of Composite Materials and Structures - 3cr.
- MAE6055 - Testing of Composite Materials - 3cr.
- MAE6060 - Micro-Mechanics of Deformation - 3cr.
- MAE6061 - Micro-Mechanisms of Failure - 3cr.
- MAE6070 - Mechanics of Composite Materials II - 3cr.
- MAE6090 - Theory of Plates and Shells - 3cr.
- MAE6130 - Structural Dynamics and Seismic Design - 3cr.
- MAE6180 - Dynamics and Vibrations - 3cr.
- MAE6320 - Linear Multivariable Control - 3cr.
- MAE6330 - Robust Control - 3cr.
- MAE6340 - Spacecraft Attitude Control Theory - 3cr.
- MAE6410 - Fluid Dynamics - 3cr.
- MAE6420 - Mechanical Engineering Experiments - 3cr.
- MAE6430 - Boundary Layer Theory and Convection Heat Transfer - 3cr.
- MAE6440 - Advanced Computational Fluid Dynamics - 3cr.
- MAE6450 - Thermodynamics - 3cr.
- MAE6460 - Conduction and Radiation Heat Transfer - 3cr.
- MAE6490 - Turbulence - 3cr.
- MAE6500 - Potential Flow - 3cr.
- MAE6510 - Aircraft Dynamics and Flight Simulation - 3cr.
- MAE6530 - Propulsion Systems - 3cr.
- MAE6540 - Cislunar Astrodynamics and Distributed Space Systems - 3cr.
- MAE6560 - Spacecraft Navigation - 3cr.
- MAE6570 - Optimal Spacecraft Guidance - 3cr.
- MAE6670 - Fracture Mechanics - 3cr.
- MAE6930 - Special Problems - 1cr.
- MAE7080 - Advanced Plate and Shell Theory - 3cr.
- MAE7330 - Nonlinear and Adaptive Control - 3cr.
- MAE7340 - Advanced Aerospace Controls - 3cr.
- MAE7360 - Optimal Control - 3cr.
- MAE7540 - Astrodynamic Perturbations and Propagation - 3cr.
- MAE7560 - Optimal Estimation for Aerospace Systems - 3cr.
- MAE7570 - Monte Carlo and Linear Covariance Techniques for Closed-Loop GN&C System Analysis - 3cr.

Approved Advanced Math Courses:

Choose 6 credits (**PhD beyond a Bachelor's**) or 3 credits (**PhD beyond a Master's**)

Complete ANY of the following Courses:

- MAE6200 - Mathematical Methods in Aerospace Engineering - 3cr.
- MATH5270 - Complex Variables - 3cr.
- MATH5410 - Methods of Applied Mathematics - 3cr.
- MATH5420 - Partial Differential Equations - 3cr.
- MATH5460 - Nonlinear Dynamics - 3cr.
- STAT5200 - Analysis of Designed Experiments - 3cr.

Program Learning Outcomes

Program Learning Outcomes
https://engineering.usu.edu/

Medieval and Early Modern Studies - Institutional Certificate of Proficiency

Program Overview

College
College of Arts & Sciences

Department
English

Program Level
Undergraduate

About this Degree
The Medieval and Early Modern Studies (MEMS) Certificate is an Institutional Certificate of Proficiency that recognizes a student's proficient knowledge of the history, cultures, literature, art, and religions of the Middle Ages (500-1500) and/or the Early Modern era (1500-1800).

Program Requirements

Total Credits Required In Program Coursework
24

Total Credits Required To Earn This Credential
24

Simple Requisites

Program Requirements

To receive the certificate, the student must complete 24 credits in approved medieval and early modern courses as delineated below. All courses counted toward the certificate must be completed with a grade of B or higher.

Medieval and Early Modern Studies - ICP

Type
Completion Requirement

Core Course (3 credits)

Complete at least 1 of the following courses:

- HIST1100 - European History to 1500 (BHU) - 3cr.
- HIST1500 - Pre-Modern World (BHU) - 3cr.

Foreign Language Courses

Complete the following:
Students must complete six credits in a foreign language at the 2000 level or above.

Elective Courses

Type
Completion Requirement

Elective Courses (15 credits)

Students must complete 15 credits from among at least three of the nine disciplines below:

Art History

Complete ANY of the following Courses:

- ARTH2710 - Survey of Western Art: Prehistoric to Medieval (BHU) - 3cr.
- ARTH3320 - Pre-Columbian Art (CI) - 3cr.
- ARTH3340 - African Art (CI) - 3cr.
- ARTH3510 - Islamic Visual Cultures (CI/DHA) - 3cr.
- ARTH3620 - Early Christian and Byzantine Art (DHA) - 3cr.
- ARTH3630 - Medieval Art (CI/DHA) - 3cr.
- ARTH3720 - Renaissance Art (CI) - 3cr.

- ARTH4210 - Celtic Europe - 3cr.
- ARTH4730 - Baroque and Rococo Art - 3cr.

Chinese

Complete ANY of the following Courses:

- CHIN4090 - Readings in Masterworks of Classical Chinese Fiction - 3cr.

English

Complete ANY of the following Courses:

- ENGL3305 - Medieval Literary History - 3cr.
- ENGL3310 - Resistance and Literature I - 3cr.
- ENGL3315 - Early Modern British Literary History - 3cr.
- ENGL3320 - Resistance and Literature II - 3cr.
- ENGL3325 - Eighteenth-Century British Literary History - 3cr.
- ENGL3355 - Literary History of the Early Americas - 3cr.
- ENGL3395 - World Literature in Translation - 3cr.
- ENGL4300 - Shakespeare - 3cr.
- ENGL4350 - Studies in Poetry - 3cr.

French

Complete ANY of the following Courses:

- FREN4610 - Studies in French Literature and Culture (DHA) - 3cr.
- FREN4630 - French and Francophone Fairy Tales (DHA) - 3cr.

German

Complete ANY of the following Courses:

- GERM3600 - Classic German Art and Literature (DHA) - 3cr.

History

Complete ANY of the following Courses:

- HIST3010 - Introduction to Buddhism (DHA) - 3cr.
- HIST3020 - Introduction to Hinduism (DHA) - 3cr.
- HIST3030 - Introduction to Islam (DHA) - 3cr.
- HIST3060 - Introduction to Judaism (DHA) - 3cr.
- HIST3150 - Roman History (CI) - 3cr.
- HIST3220 - Medieval European Civilization, 500-1500 (DHA/CI) - 3cr.
- HIST3225 - Medieval Britain, 500-1500 (DHA) - 3cr.
- HIST3230 - Early Modern Europe (DHA) - 3cr.
- HIST3250 - Renaissance Europe 1300 to 1520 (DHA/CI) - 3cr.
- HIST3270 - The Crusades (DHA) - 3cr.
- HIST3482 - Ancient China to 1800 (DHA) - 3cr.
- HIST3620 - History of Colonial Latin America (DHA) - 3cr.
- HIST3670 - Slavery in the Atlantic World (CI) - 3cr.
- HIST3720 - Colonial America - 3cr.
- HIST3730 - American Revolutionary Era - 3cr.
- HIST4150 - Japan, Europe, and the Early Modern World - 3cr.
- HIST4230 - The History of Christianity in the West (DHA/CI) - 3cr.
- HIST4250 - The Reformation in Britain: 1450-1688 - 3cr.
- HIST4251 - The Tudors, 1485-1603 (DHA) - 3cr.
- HIST4260 - Witches, Workers, & Wives: Gender and Family in Early Modern Europe and America (DHA) - 3cr.
- HIST4290 - Europe and the French Revolution, 1700-1815 - 3cr.
- HIST4565 - Medieval Islam (DHA) - 3cr.

Philosophy

Complete ANY of the following Courses:

- PHIL3020 - Survey of Modern Philosophy (CI) - 3cr.
- PHIL3710 - Philosophies of East Asia - 3cr.
- PHIL4250 - Tolkien and Lewis on Myth and Truth - 3cr.

Religious Studies

Complete ANY of the following Courses:

- RELS3010 - Introduction to Buddhism (DHA) - 3cr.
- RELS3020 - Introduction to Hinduism (DHA) - 3cr.
- RELS3030 - Introduction to Islam (DHA) - 3cr.
- RELS3050 - Introduction to Christianity (DHA) - 3cr.
- RELS3060 - Introduction to Judaism (DHA) - 3cr.
- RELS3120 - Early Modern Philosophy - 3cr. (Inactive)
- RELS3220 - Medieval European Civilization, 500-1500 (DHA/CI) - 3cr.
- RELS3270 - The Crusades (DHA) - 3cr.
- RELS3420 - Gods and Goddesses of India - 3cr.
- RELS3482 - Ancient China to 1800 (DHA) - 3cr.
- RELS3820 - Hindu Sacred Texts (CI) - 3cr.
- RELS4230 - The History of Christianity in the West (DHA/CI) - 3cr.
- RELS4565 - Medieval Islam (DHA) - 3cr.

Spanish

Complete ANY of the following Courses:

- SPAN3600 - Survey of Spanish Literature I (DHA) - 3cr.
- SPAN3620 - Survey of Hispanic American Literature I (DHA) - 3cr.

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Undergraduate Academic or Technical Certificates)

Program Learning Outcomes

Program Learning Outcomes

https://chass.usu.edu/history/assessments

Middle East Studies - Minor

Program Overview

College
College of Arts & Sciences

Department
World Languages and Cultures, History, Cultures & Ideas, School of Social Sciences

Program Level
Undergraduate

About this Degree

This interdisciplinary program offers an introduction to history, politics, language, religion, and culture in the region. It prepares students for careers in diplomacy, intelligence, global business, journalism, education, humanitarian work, and more. Students develop intercultural competence, global awareness, critical thinking skills, research skills, analytical skills, and Arabic language skills.

Program Requirements

Total Credits Required In Program Coursework
14

Total Credits Required To Earn This Credential
14

Simple Requisites

Program Requirements

- **Total Credits for Middle East Studies Minor:** 14
- **Grade Point Average to Declare Minor:** 2.0 GPA minimum
- **Minimum Grade Requirement:** All courses taken for the minor require a minimum grade of **C-** or better. Courses for the minor may not be taken on a pass/fail basis.

Required Courses

Type
Completion Requirement

Required Courses (8 credits in Arabic language courses)

Earn a minimum grade of C- in the following:

- ARBC1010 - Arabic First Year I - 4cr.
- ARBC1020 - Arabic First Year II - 4cr.

See advisor for additional language options. Students with prior language experience should see the Department of World Languages & Cultures for Language Proficiency and Placement Testing to potentially place into a higher level (ARBC2010 ARABIC SECOND YR I, ARBC2020 ARABIC SECOND YR II, ARBC3010 ADV ARABIC I, and ARBC3020 ADVANCED ARABIC II also count for this minor).

Elective Courses

Type
Completion Requirement

Elective courses (6 credits)

All courses taken for the minor require a minimum grade of **C-** or better.

Earn at least 6 credits from the following:

- ARBC3030 - Introduction to Islam (DHA) - 3cr.
  OR HIST3030 - Introduction to Islam (DHA) - 3cr.
  OR RELS3030 - Introduction to Islam (DHA) - 3cr.
- ARBC3800 - Study Abroad in Jordan - 3cr.
- ARBC4040 - Language and Culture of the Arab World (DHA) - 3cr.
- HIST3110 - Ancient Near East (DHA/CI) - 3cr.
- HIST3270 - The Crusades (DHA) - 3cr.
  OR RELS3270 - The Crusades (DHA) - 3cr.
- HIST3410 - The Modern Middle East - 3cr.
- HIST4560 - Women in Islam (DHA) - 3cr.
  OR RELS4560 - Women in Islam (DHA) - 3cr.
- HIST4565 - Medieval Islam (DHA) - 3cr.
  OR RELS4565 - Medieval Islam (DHA) - 3cr.
- HIST4566 - Global Faces of Islam (DHA) - 3cr.
  OR RELS4566 - Global Faces of Islam (DHA) - 3cr.
- LING2500 - Language & Religion - 3cr.
- POLS3230 - Middle Eastern Government and Politics - 3cr.
- POLS4230 - Issues in Middle East Politics - 3cr.

Program Learning Outcomes

Program Learning Outcomes

https://chass.usu.edu/assessments/

Master of Financial Economics - MFE

Program Overview

College
Jon M. Huntsman School of Business

Department
Economics and Finance

Program Level
Graduate

About this Degree

The Master of Financial Economics (MFE) is designed as a terminal, professional degree in financial economics. The curriculum includes courses in the key areas of finance and the supporting areas of economics and quantitative methods. It is intended to prepare students for a wide range of careers both within and outside the financial industry, including risk management, asset management, macroeconomic and financial forecasting, trading, and financial and economic research. In conjunction with their program of study, students may pursue well-known external certifications, which include the Certified Financial Analyst (CFA) or Certified Financial Planner (CFP).

CFA: The Certified Financial Analyst specialization is designed to help students pass the first CFA exam (i.e., Level I exam) at the end of their second semester in the program. The CFA is the most internationally recognized and credible credential for financial professionals and is earned by passing a series of analytically rigorous exams.

CFP: The Certified Financial Planner specialization is designed to help students pass the CFP® exam at the end of their second semester. The CERTIFIED FINANCIAL PLANNER™ certification is the standard of excellence in financial planning. CFP® professionals meet rigorous education, training, and ethical standards, and are committed to serving their clients' best interests today to prepare them for a more secure tomorrow. The CFP® specialization offers courses that have been approved by the CFP® Board to meet the education requirements to sit for the CFP® exam.

Bloomberg Terminals and Training: Bloomberg is synonymous with real-time financial information. Every major financial institution hosts Bloomberg terminals. Due to the expense, however, very few universities provide access to Bloomberg. The Department of Economics and Finance at the Huntsman School of Business is one of these select few. These terminals not only support classroom instruction and faculty research but provide a means for students to become certified in the use of Bloomberg – a skill that provides value to future employers on day one of your professional career.

Opportunity to help manage real money: Students may take courses where they make asset allocation, trading, risk management, and credit decisions under the direction of a faculty member who is an experienced financial professional. This valuable experiential learning will help you apply what you learn and allow you to stand out in the marketplace.

Program Requirements

Total Credits Required In Program Coursework
30

Total Credits Required To Earn This Credential
30

Simple Requisites

Program Requirements

The MFE program requires a minimum of 30 credits from an approved program of study with at least 18 credits from 6000-level courses with an FIN/ECON prefix or higher. More information about courses and specific fields of study can be found at https://huntsman.usu.edu/mfe/.

Graduate School Requirements

A bachelor's degree from an accredited U.S. college or university or a similarly recognized international university is required for admission to and completion of a graduate program.

Graduate students are required to maintain at least a 3.0 GPA for degree-program courses. Grades of C- or lower will not be accepted for a graduate degree.

The program of study for a master's degree cannot include more than 12 semester credits of courses at the 5000 level. Credits in the following areas are not acceptable in a degree program: foreign languages (unless included in an approved Program of Study), continuing graduate advisement, individual home study, military science, and courses numbered below 5000.

A master's degree must be completed within six years of entering the degree program. Additional time may be requested by the student's committee and submitted to the Vice Provost of Graduate Studies for review. Coursework over eight years old at the time of degree completion may not be used for a graduate degree unless it is revalidated.

General MFE Requirements

Type
Completion Requirement

Requirements

A minimum of 30 credits from an approved program of study with at least 18 credits from 6000-level or higher courses with an FIN/ECON prefix

Program Learning Outcomes

Program Learning Outcomes

https://huntsman.usu.edu/assessment/assessment-plan

Food Safety and Quality - MFSQ

Program Overview

College	Department	Program Level
College of Agriculture & Natural Resources	Nutrition, Dietetics & Food Sciences	Graduate

About this Degree

The Master of Food Safety and Quality is a professional (Plan C) graduate degree designed to provide in-depth training in food science and food safety. This program is offered entirely online, and was designed to be flexible to meet the needs of most students who desire to enhance their careers. For more information, please contact Karin Allen, Program Director (karin.allen@usu.edu).

Tuition and Financial Aid

The MFSQ program does not provide financial aid (assistantships).

Admission Requirements for this Program

The MFSQ program of study has been tailored for students with undergraduate training in food science or related fields of study. It is recommended that applicants have some background in chemistry, statistics and microbiology. Prior coursework in food science or food safety is desirable. Applicants are encouraged to contact the MFSQ program coordinator prior to completing the University online application for graduate studies.

Application, Review and Acceptance

Applicants must meet the requirements of the School of Graduate Studies, as seen on the School of Graduate Studies Catalog page. There is no entrance exam requirement for the MFSQ program, but applicants must meet these minimum requirements:

- Complete the online application.
- Pay the required application fee.
- Provide transcripts for all college/university credits.
- 3.0 or higher GPA for the last 60 semester (90 quarter) credit hours.
- 3 professional letters of recommendation from professors, employers, or other professional references. No personal references are accepted.

The School of Graduate Studies will hold the application until it is complete, and it will then be reviewed by the NDFS department. If applicants have not received notification within 3 weeks of completing the application, they should contact the NDFS department (1-435-797-2126) to inquire on the status of their application.

Program Requirements

Total Credits Required In Program Coursework	Total Credits Required To Earn This Credential
33	33

Simple Requisites

Program Requirements

MFSQ Required Courses

Type
Completion Requirement

Core Courses

Complete ALL of the following Courses:

- NDFS6110 - Food Microbiology - 3cr.
- NDFS6150 - Principles of Food Sanitation - 3cr.
- NDFS6160 - Principles of Food Toxicology - 3cr.
- NDFS6510 - Food Laws and Regulations - 3cr.
- NDFS6960 - MFSQ Capstone - 1cr.

Core Course Options

Complete at least 2 of the following courses:

- NDFS6170 - Food Safety and Quality: Food Safety Management - 1cr.
- NDFS6171 - Food Safety and Quality: Current Good Manufacturing Practice - 1cr.
- NDFS6172 - Food Safety and Quality: Hazard Analysis and Critical Control Points - 1cr.
- NDFS6173 - Food Safety and Quality: Preventive Controls - 1cr.
- NDFS6174 - Food Safety and Quality: Standards for Produce Safety - 1cr.
- NDFS6175 - Food Safety and Quality: Acidified Foods - 1cr.

Elective Courses

Courses that are dual listed (e.g., NDFS 5000/6000-level courses) or were included in the student's undergraduate program cannot be retaken at the graduate (6000) level.

Complete ANY of the following Courses:

- NDFS6030 - Dairy Technology and Processing - 3cr.
- NDFS6180 - Food Safety Inspection and Auditing - 1cr.
- NDFS6440 - Food Composition and Analysis - 3cr.
- NDFS6530 - Food Packaging and Labeling - 3cr.
- NDFS6620 - Microbiology of Fermented Dairy Foods - 3cr.
- NDFS6660 - Cheese Science - 3cr.
- NDFS6950 - MFSQ Special Problems - 1cr.
- Students may include additional graduate-level courses in their program of study through a request to the faculty advisor that includes a description of the course and justification for how this course enhances their learning as part of their career objectives.

Capstone Report

The MFSQ program of study requires the production of a formal written capstone report. There are two options: (a) literature review or (b) special projects portfolio. The depth of the report is reflected in the number of credits taken for NDFS6960 MFSQ CAPSTONE (2-4 credits). Expectations and credits should be discussed with the faculty advisor.

If a literature review is chosen, it must be written in a similar style as a thesis. The literature review should be appropriately scientific with conclusions drawn. Since this program is a "Plan C" program, the literature review is not submitted to the graduate school.

The second option is a special projects portfolio. This document should reflect the experiential development of the student based on the NDFS6950 MFSQ SPECIAL PROBLEMS credits the student was engaged in during their MFSQ program of study at USU.

Students should make use of the University Writing Center (writing.usu.edu) to correct formatting, grammar and presentation for either capstone report. The capstone report is submitted to the supervising professor for approval by the tenth week of the student's final semester.

Complete ALL of the following Courses:

- NDFS6960 - MFSQ Capstone - 1cr.

Program Learning Outcomes

Program Learning Outcomes
https://caas.usu.edu/ndfs/assessment

Mental Health Advocacy and Awareness - Minor

Program Overview

College
College of Education & Human Services

Department
Psychology, Human Development and Family Studies

Program Level
Undergraduate

About this Degree
The Mental Health Advocacy and Awareness Minor prepares educators, direct care providers in treatment facilities, human resource personnel, nurses, law enforcement, and others to more effectively interact with individuals with mental health needs - including knowing where and when to refer individuals for appropriate services.

Program Requirements

Total Credits Required To Earn This Credential
13

Simple Requisites

Program Requirements

Students are required to have a 3.0 on all minor coursework with a minimum of C grade acceptable for credit in the minor.

Section 1

Type
Completion Requirement

Required Courses (9 credits)

Complete ALL of the following Courses:

- HDFS1500 - Human Development Across the Lifespan (BSS) - 3cr.
  OR PSY1100 - Lifespan Development - 3cr.
- HDFS3700 - Mental Health Advocacy and Awareness - 3cr.
  OR PSY3700 - Mental Health Advocacy and Awareness - 3cr.
- HDFS4930 - Practicum in Mental Health - 1cr.
  OR PSY4930 - Practicum in Mental Health - 1cr.

Section 2

Type
Completion Requirement

Additional Course Requirements

Students majoring in Psychology (PSY) should choose courses outside of the PSY major. Students majoring in Human Development and Family Studies (HDFS) should choose courses outside of the HDFS major.

Fulfill ALL of the following requirements:

Additional Requirement (3 credits)

Complete at least 1 of the following courses:

- HDFS3100 - Abuse and Neglect in Family Context - 3cr.
- HDFS4250 - Addictions and the Family - 3cr.
- PSY2300 - Psychological Disorders - 3cr.
- PSY3120 - Abuse, Neglect, and the Psychological Dimensions of Intimate Violence (DSS) - 3cr.

AND

Additional Requirements (3 credits)

Complete at least 1 of the following courses:

- HDFS4220 - Family Crises and Interventions - 3cr.
- HEP3000 - Drugs and Human Behavior - 3cr.
- HEP3200 - Consumer Health - 3cr.
- PSY3110 - Health Psychology - 3cr.
- PSY4240 - Multicultural Psychology (DSS) - 3cr.
- SW3650 - Mental Health - 3cr.

Additional Comments:
Please contact Laura.Holley@usu.edu to add the minor.

Kevin Barlow is the Practicum Coordinator for the HDFS4930 PRACTICUM IN MENTAL HEALTH or PSY4930 PRACTICUM IN MENTAL HEALTH - Practicum in Mental Health course. It is a 1-credit(s) course that requires 50 hours of fieldwork. For guidance on potential practicum sites, please visit the HDFS Practicum website or contact Kevin Barlow directly.

Program Learning Outcomes

Program Learning Outcomes
https://cehs.usu.edu/about/assessment

Military Science - Minor

Program Overview

College
College of Arts & Sciences

Department
Military Science

Program Level
Undergraduate

Program Requirements

Total Credits Required To Earn This Credential
23

Simple Requisites

Program Requirements

Students must obtain a grade of C or better in all courses used toward the minor, as well as maintain an institution GPA of 2.5 for these courses.

Section 1

Type
Completion Requirement

Course Requirements for Military Science Minor (23 credits)

Complete ALL of the following Courses:

- MSL1010 - Introduction to the Army - 2cr.
- MSL1020 - Foundations of Leadership - 2cr.
- MSL2010 - Leadership and Ethics - 2cr.
- MSL2020 - Army Doctrine and Decision-Making - 2cr.
- MSL3010 - Training Management and the Warfighting Functions - 3cr.
- MSL3020 - Applied Leadership in Small Unit Operations - 3cr.
- MSL4010 - The Army Officer - 3cr.
- MSL4020 - Company Grade Leadership - 3cr.
- MSL3000 - Leadership in Military History - 3cr.
  OR HIST4810 - American Military History - 3cr.

NOTE:

1. HIST4810 AMERICAN MILITARY HISTORY - No lab is required.

If a student is Prior Service, the first two years of courses **DO NOT** need to be completed.

Elective Course Offerings

Complete ANY of the following Courses:

- MSL1015 - Military Science Leadership Lab - 1cr.
- MSL1025 - Military Science Leadership Lab - 1cr.
- MSL2015 - Military Science Leadership Lab - 1cr.
- MSL2025 - Military Science Leadership Lab - 1cr.
- MSL2400 - Physical Readiness - 1cr.
- MSL2420 - Ranger Preparation - 2cr.
- MSL2430 - Air Assault - 2cr.
- MSL2440 - Airborne Operations - 2cr.
- MSL2510 - Leader's Training Course - 1cr.
- MSL3015 - Military Science Leadership Lab - 1cr.
- MSL3025 - Military Science Leadership Lab - 1cr.
- MSL3110 - Staff Organization and Operations - 1cr.
- MSL3210 - Independent Study - 1cr.
- MSL4015 - Military Science Leadership Lab - 1cr.
- MSL4025 - Military Science Leadership Lab - 1cr.
- MSL4110 - Advanced Staff Operations - 1cr.
- MSL4510 - ROTC Leader Development and Assessment

Course - 1cr.
- MSL4520 - Cadet Troop Leadership Training - 2cr.

Program Learning Outcomes

Program Learning Outcomes
https://chass.usu.edu/assessments/

Management Information Systems - Minor

Program Overview

College	Department	Program Level
Jon M. Huntsman School of Business	Data Analytics & Information Systems	Undergraduate

Program Requirements

Total Credits Required In Program Coursework	Total Credits Required To Earn This Credential
15-16	15-16

Simple Requisites

Program Requirements

A minimum 2.50 GPA is required in all courses counted toward the minor.

Section 1

Type
Completion Requirement

Management Information Systems Minor Required Courses

Complete ALL of the following Courses:
- IS5200 - Introduction to Cloud Computing - 3cr.
- DATA5300 - Database Management - 3cr.
- DATA5500 - Python Programming for Analytics - 3cr.

Section 2

Type
Completion Requirement

Section 2

Complete at least 6 additional credits of 5000-level IS or DATA courses.

Program Learning Outcomes

Program Learning Outcomes
https://huntsman.usu.edu/assessment/assessment-plan

Master of Management Information Systems - MMIS

Program Overview

College	Department	Program Level
Jon M. Huntsman School of Business	Data Analytics & Information Systems	Graduate

About this Degree

Opportunities in the information systems and technology sectors continue to be among the hottest and most rewarding across the job market. The MMIS program is an exciting and hands-on pathway to these careers that comprise a majority of Glassdoor's annual top 25 "Best Jobs in America," including enterprise architect, devops engineer, data engineer, Java developer, cloud engineer, information security engineer, data scientist, software developer, and others.

The MMIS program allows students to customize their course of study by selecting two post-baccalaureate certificates from tracks that include Data Technologies, Data Engineering, Data Analytics, Web Development, and Cybersecurity. Careers in information systems and data technologies are multidisciplinary and require teamwork, critical thinking, and communication. Well-qualified applicants are encouraged to apply from *any* background (including non-technical areas of study or employment) in which they have developed and applied these skills. Upon acceptance into the MMIS program, students will meet with the MMIS program coordinator to select certificate tracks that best complement their individual prior experience.

Financial Assistance

A limited number of graduate assistantships and scholarships are available to outstanding students and are awarded on a competitive basis, typically once the student is on campus and enrolled in classes. Qualified students admitted into the program may also be considered for positions as teaching assistants.

Master of Management Information Systems Faculty

Courses in the MMIS program are taught by faculty in Data Analytics and Information Systems and across the Huntsman School of Business who have years of corporate and academic experience. Our instructors are experts in the most cutting-edge tools and strategies for data and tech.

Jon M. Huntsman School of Business Faculty

Admission Requirements for this Program

A bachelor's degree from an accredited U.S. college or university or a similarly recognized international university is required for admission to and completion of the MMIS program. Applicants should generally expect to start the MMIS program in fall semester. For admission, applicants will be required to submit the following, in addition to the application form: an application fee, all undergraduate transcripts, three letters of recommendation, and a statement of purpose describing why they are interested in the MMIS program. All materials will be uploaded or sent directly to the School of Graduate Studies. TOEFL or IELTS scores are required for international students whose native language is not English. International students with a prior degree from a university in an English-speaking country are exempt from the TOEFL or IELTS exam. No application will be considered until all required information is received by the School of Graduate Studies. The School of Graduate Studies requires a minimum 3.0 GPA for the last 60 credits. For further requirements from the School of Graduate Studies please consult the following website: https://gradschool.usu.edu/apply.

Program Requirements

Total Credits Required In Program Coursework	Total Credits Required To Earn This Credential
30	30

Simple Requisites

Program Requirements

Students are individually responsible for meeting coursework requirements as outlined below. Students should ensure that they are aware of all requirements and initiate resolution of any apparent inconsistencies. MMIS students are required to maintain at least a 3.0 GPA for degree-program courses. Grades of C- or lower will not be accepted. Modifications or substitutions for the listed MMIS course requirements can be made with department approval, but a student's Program of Study must include at least 18 semester credits at the level of 6000 or above. Please also note these additional requirements from the USU School of Graduate Studies:

- Credits in the following areas are not acceptable for the MMIS program: foreign languages (unless included in an approved Program of Study), continuing graduate advisement, individual home study, military science, and courses numbered below 5000.
- Coursework over six years old at the time of degree completion may not be used for a graduate degree unless it is revalidated.
- The MMIS degree must be completed within six years of entering the degree program. Additional time may be requested by the student's committee and submitted to the Vice Provost of Graduate Studies for review.

Face-to-Face and Statewide MMIS Programs

The Utah State MMIS program can be completed face-to-face at the Logan campus and is also offered for working professionals through USU's Statewide campus system at locations throughout the state of Utah (see https://statewide.usu.edu/). Admission information and deadlines for the MMIS program can be found on the MMIS website at https://huntsman.usu.edu/mmis/index.

Degree Requirements

MMIS candidates can select two of the following certificates (24 total credits) and complete 6 additional capstone credits as specified below. Course substitutions can be made within certificate tracks or among the 6 capstone credits if approved by the department. A given course cannot be used to complete more than one certificate, or both a certificate and a capstone credit requirement.

Certificates

For each of the following certificates, specific course requirements are listed within the curriculum information below.

Data Technologies (12 credits) Designed specifically for students with nontechnical academic or employment backgrounds, the Data Technologies certificate allows students to learn foundational database, programming, and analytics skills to prepare them for successfully completing an additional certificate track. Note that the Data Technologies Certificate can be earned independently, without completing all MMIS requirements.

Data Engineering (12 credits) Data Engineering represents one of the fastest-growing sectors of the information economy. Data engineers provide critical support for the data pipeline, collaborating with their teams to obtain, manage, and prepare the right data needed to answer important questions and inform strategy. Well-qualified data engineers generally require experience in SQL, Agile project management tools, Python, JavaScript, web-based application program interfaces (APIs), and cloud architecture, and understand the applications of these in general business functions and processes. Note that the Data Engineering Certificate can be earned independently, without completing all MMIS requirements.

Data Analytics (12 credits) The Harvard Business Review has called data science the "sexiest job of the 21st century." Data analysts and data scientists are in heavy demand by companies who need to make strategic decisions in an increasingly data-driven world. In completing the Data Analytics certificate, students gain practical hands-on experience applying the latest data technologies and sophisticated analytical methods, developing advanced skills in programming, machine learning and artificial intelligence, visualization, and data mining. Note that the Data Analytics Certificate can be earned independently, without completing all MMIS requirements.

Web Development (12 credits) Companies of all sizes rely on interactive web applications to share data and support business transactions. This certificate prepares students to understand web application architecture and design, develop, and deploy data-driven web applications using the latest client-side and server-side frameworks. Note that the Web Development Certificate can be earned independently, without completing all MMIS requirements.

Cybersecurity (12 credits) Data, Service, and Systems Security is a crucial part of every industry and every vertical. Outstanding job opportunities strongly favor those who understand and apply secure practices that reduce corporate risk, in any IT/IS field. This certificate unveils the mysteries of vulnerabilities and sets student up for successful careers in proactive defense. Note that the Cybersecurity Certificate can be earned independently, without completing all MMIS requirements.

Capstone Requirements

In addition to completing two of the certificates listed above, students must complete 6 credits to broaden their strategic perspective in a business or organizational environment. These capstone credits include one required course and one elective, as specified within the curriculum below.

Requirements

Type
Completion Requirement

Required Certificates

Complete two of the post-bachelor's certificates listed below (24 credits)

- Data Technologies - Post-Bachelor's Certificate
- Data Engineering - Post-Bachelor's Certificate
- Data Analytics - Post Bachelor's Certificate
- Web Development - Post-Bachelor's Certificate
- Cybersecurity - Post- Bachelor's Certificate

MMIS Capstone Class

The following requirements must be completed by all MMIS candidates, in addition to two of the certificates listed above.

Fulfill ALL of the following requirements:

Required Course

Complete ALL of the following Courses:

- IS6610 - IS Strategy - 3cr.

AND

Elective Course

Complete at least 1 of the following courses:

- IS6250 - Graduate Internship - 1cr.
- DATA6490 - Prescriptive Analytics and Management Science - 3cr.
- ACCT6350 - Accounting for Management Decision Making - 3cr.
- FIN6010 - Solving Financial Problems - 3cr.
- MSLE6200 - Executive Influence - 3cr.
- MSLE6410 - Enterprise and Value Creation - 3cr.

Program Learning Outcomes

Program Learning Outcomes

https://huntsman.usu.edu/assessment/assessment-plan

Machine Learning and Artificial Intelligence - Post-Bachelor's Certificate

Program Overview

College
College of Arts & Sciences

Department
Mathematics & Statistics

Program Level
Graduate

About this Degree

Machine learning and artificial intelligence (AI) are at the forefront of technological advances in fields such as healthcare, finance, autonomous vehicles, and more. This certificate provides a strong foundation in machine learning and AI, equipping students with the skills and knowledge to better harness the power of data, enabling them to tackle complex problems, make data-driven decisions, and develop cutting-edge solutions.

This Certificate is stackable towards certain masters degrees at USU (including Master of Data Analytics and Master of Data Analytics-Statistics specialization).

Admission Requirements for this Program

Students already pursuing a masters or doctoral degree at USU may apply for this Certificate as a Secondary Program using the Concurrent Degree Form. Students interested in pursuing this Certificate as a standalone certificate (who are not already in a masters or doctoral degree program at USU) should apply through the USU School of Graduate Studies at https://gradschool.usu.edu/.

(A bachelor's degree is required before this credential can be awarded.)

Program Requirements

Total Credits Required In Program Coursework
12-13

Total Credits Required To Earn This Credential
12-13

Simple Requisites

Program Requirements

All grades for courses applied toward this Certificate must be C or better.

Machine Learning and Artificial Intelligence - Post-Bachelor's Certificate

Type
Completion Requirement

Machine Learning and Artificial Intelligence Core (3-4 credits)

Complete at least 1 of the following courses:

- STAT5650 - Applied Machine Learning and Multivariate Statistics - 3cr.
- STAT6655 - Machine Learning - 3cr.
- CS6600 - Intelligent Systems - 4cr.
- CS6840 - Graph Mining - 3cr.
- CS6665 - Machine Learning for Data Science - 3cr.

Electives (9 credits)

Students must take at least 9 credits from the following courses (not counting any courses taken for the core requirement above):

Earn at least 9 credits from the following:

- MATH5645 - Mathematical Methods for Data Science - 3cr.
  OR MATH6645 - Mathematical Methods for Data Science - 3cr.
  OR STAT5645 - Mathematical Methods for Data Science - 3cr.
  OR STAT6645 - Mathematical Methods for Data Science - 3cr.

- STAT5650 - Applied Machine Learning and Multivariate Statistics - 3cr.
- STAT5685 - Deep Learning Theory and Applications - 3cr.
  OR STAT6685 - Deep Learning Theory and Applications - 3cr.
- STAT6655 - Machine Learning - 3cr.
- BIOL6320 - Summarizing complex datasets and machine learning for life scientists - 1cr.
  OR CAS6320 - Summarizing complex datasets and machine learning for life scientists - 1cr.
- CS5080 - Data Mining - 3cr.
- CS6640 - Artificial Neural Networks - 3cr.
- CS6600 - Intelligent Systems - 4cr.
- CS6665 - Machine Learning for Data Science - 3cr.
- CS6675 - Advanced Data Mining - 3cr.
- CS6680 - Computer Vision: Foundations and Applications - 3cr.
- CS6830 - Data Science in Practice - 3cr.
- CS6840 - Graph Mining - 3cr.
- CS6850 - Introduction to Data Analysis - 3cr.
- DATA6420 - Introduction to Text Mining - 3cr.
- DATA6610 - Advanced Machine Learning for Analytics - 3cr.
- DATA6630 - Deep Forecasting - 3cr.
- ECON6090 - Machine Learning in Economics and Finance - 3cr.

Program Learning Outcomes

Program Learning Outcomes

https://www.usu.edu/oda/assessment/

Machine Learning Operations - Post-Bachelor's Certificate

Program Overview

College	Department	Program Level
Jon M. Huntsman School of Business	Data Analytics & Information Systems	Graduate

About this Degree

The Machine Learning Operations Certificate is designed to meet the increasing demand for professionals with skills in deploying, managing, and maintaining machine learning models in production environments. This program provides practical training in ML Ops, software development, web integration, and agile project management. These skills prepare graduates to meet the needs of organizations implementing AI technologies at scale. This program combines ML Ops-specific training with web development and project management methodologies to provide students with comprehensive, job-ready skills. The curriculum addresses a clear market need for professionals who can bridge the gap between data science and operational systems.

Note that the Machine Learning Operations Post-Bachelor's Certificate can be completed on its own, or it can be stacked with other certificates offered by the Department of Data Analytics and Information Systems (or with designated certificates from other campus programs) to meet the requirements of the Master's of Data Analytics (MDATA) program.

Data Analytics and Information Systems Faculty

Courses in Data Technologies Post-Bachelor's Certificate program are taught by faculty in the Department of Data Analytics and Information Systems who have years of corporate and academic experience. Our instructors are experts in the most cutting-edge tools and strategies for data and tech.

https://huntsman.usu.edu/dais/directory

Admission Requirements for this Program

Prior bachelor's degree with at least a 3.0 GPA in previous 90 credits; relevant coursework or experience in basic data analysis and programming.

Program Requirements

Total Credits Required In Program Coursework	Total Credits Required To Earn This Credential
12	12

Simple Requisites

Program Requirements

The certificate requires 12 total credits, with 6 required credits and two additional 3-credit elective courses as outlined within the curriculum below. Individual substitutions for course requirements may be considered and approved on a case-by-case basis by the Data Analytics and Information Systems Department.

Courses used to fulfill requirements for this certificate may not include courses previously completed to meet the requirements of any other certificate or program, and cannot be used to complete any other certificate or program.

Courses remain valid for 6 years for potential inclusion in a future master's degree program (MMIS or MDATA).

Certificate students who opt to earn an MMIS or MDATA degree will be granted a waiver for reduced application fees for their future master's application. Please contact our office for details.

Machine Learning Operations - Post-Bachelor's Certificate Course

Requirements

Type
Completion Requirement

Required Courses

Complete ALL of the following Courses:

- DATA6580 - Machine Learning Operations - 3cr.
- IS6100 - Agile Tech Design and Development - 3cr.

Additional Courses

Complete at least 2 of the following courses:

- DATA6500 - Python Programming for Analytics - 3cr.
- DATA6570 - Building Software With Artificial Intelligence - 3cr.
- IS6770 - Advanced Server-Side Web Application Development - 3cr.
- IS6780 - Advanced Client-Side Web Application Development - 3cr.

Program Learning Outcomes

Program Learning Outcomes

USU Learning Outcomes Assessment - MLOps certificate

Multimedia Development - Minor

Program Overview

College
College of Education & Human Services

Department
Instructional Technology & Learning Sciences

Program Level
Undergraduate

About this Degree

Objectives

1. Provide students with design skills.
2. Develop students' multimedia production skills.
3. Prepare students for employment in the multimedia field.

The Multimedia Development minor is especially appropriate for fields which require computer-based instruction, such as business, computer science, engineering, and communications, but students from all majors are accepted. For detailed requirements, contact the ITLS department.

Employment opportunities for graduates with multimedia development skills are increasing as hundreds of companies are being established to meet the demand for well-designed multimedia materials. This 15-credit undergraduate minor is designed for the individual who would enjoy producing multimedia computer-based training materials.

Admission Requirements for this Program

To be officially accepted into the minor, students must meet with the Instructional Technology & Learning Sciences (ITLS) multimedia minor coordinator and complete an Information Sheet (available in the ITLS department main office - Emma Eccles Jones Education building, room 215.

Program Requirements

Simple Requisites

Program Requirements

- Meet with the Multimedia Development Minor program coordinator to complete the necessary paperwork
- Successfully complete a minimum of 15 credits

Section 1

Type
Completion Requirement

Program Requirements (15 credits)

Earn at least 15 credits from the following:

- ITLS4208 - Integrated Multimedia Production - 3cr.
- ITLS4220 - Video and Audio Design and Production II - 3cr. (Inactive)
- ITLS5130 - Data Visualization - 3cr.
- ITLS5210 - Virtual Environment Development - 3cr.
- ITLS5215 - Video and Audio Design and Production I - 3cr.
- ITLS5225 - User Experience/User Interaction Design - 3cr.
- ITLS5240 - Graphic Design and Production II - 3cr.
- ITLS5260 - Mobile Design and Development for Learning - 3cr.
- ITLS5265 - Internet Design and Development - 3cr.
- ITLS5270 - Digital Making and Learning - 3cr.
- ITLS4275 - Multimedia Special Topic Studio I - 3cr. (Inactive)
- ITLS5245 - eLearning Authoring Tools - 3cr.
- ITLS5320 - Writing for Design (CI) - 3cr.

- IS3700 - User Interface/User Experience Web Design - 3cr.
- IS5700 - User Interface/User Experience Web Design - 3cr.

NOTE:

1. IS courses may have required prerequisites. Check before registration. Check the class schedule or with the program advisor for availability and course options.

Program Learning Outcomes

Program Learning Outcomes

https://cehs.usu.edu/about/assessment

Management - BA, BS

Program Overview

College
Huntsman School of Business

Department
Management

Program Level
Undergraduate

About this Degree

The Management major enables students to acquire a foundation of key concepts and skills that are applicable to both business and non-business organizations, coupled with the technical skills needed to support particular career paths.

Though this program can be earned without an emphasis, this major offers several emphasis options:
Management - Operations and Supply Chain Management Emphasis - BA, BS
Management - Human Resources Management Emphasis - BS
Management - Healthcare Management Emphasis - BA, BS
Management - Wealth Management Emphasis - BA, BS

- For more information about Management, see the website.
- Admitted and current students must meet with an advisor.
- Log on to Degree Works to check student-specific program progress.
- The highest math requirement for this degree is any Quantitative Literacy (QL) course

Admission Requirements for this Program

First-Year and Transfer Students are admitted to the Huntsman School of Business based on USU's Admission Requirements.

Current USU Students in good standing qualify for admission into a Huntsman School major.

Huntsman School Admission Details: https://huntsman.usu.edu/undergraduate/apply

Program Requirements

Total Credits Required In Program Coursework
73

Total Credits Required To Earn This Credential
120

Simple Requisites

Program Requirements

Students must complete the General Education Requirements

- We recommend students consult with their academic advisor to understand which major courses may fulfill these requirements.

Students must also complete the University Studies Depth Requirements

- Elective credits needed will be determined on an individual basis (a student with continuing education, AP credits, and language credits may not require additional elective credits).
- A complete list of requirements can be found on the requirements sheet at huntsman.usu.edu/undergraduate/majors/management-major.
- Students are encouraged to enhance their education experience through use of the Roadmap to Graduation and Student Success found at https://huntsman.usu.edu/advising/road_map.
- A 2.5 overall and major GPA are required to be recommended for graduation.

Management Major - BA, BS

Type
Completion Requirement

Management Major Required Courses

Complete ALL of the following Courses:

- MGT1000 - Business Career Preparation - 1cr.
- MGT3100 - Organizational Behavior - 2cr.
- MGT3250 - Managing Human Capital - 3cr.
- MGT3600 - Project Management - 2cr.
- MGT4250 - Management Internship - 1cr.
- 1 credit required in MGT 4250

Management Major Elective Courses

Management Major students who are not choosing an emphasis, must complete at least seventeen (17) credits from the following list of courses:

Earn at least 17 credits from the following:

- MGT3150 - Critical Thinking for Managerial Decision Making - 2cr.
- MGT3400 - Managerial Ethics - 2cr.
- MGT3450 - Film and Management - 1cr.
- MGT3710 - Team Management - 2cr.
- MGT3810 - Employment Law (DSS) - 3cr.
- MGT3850 - Sports Management - 2cr.
- MGT4500 - Principles of Healthcare Management - 3cr.
- MGT4510 - Innovation and Improvement in Healthcare Management - 3cr.
- MGT4520 - Healthcare Policy and Strategy - 3cr.
- MGT4600 - Negotiations - 2cr.
- MGT4610 - Recruitment and Selection - 2cr.
- MGT4620 - Talent Acquisition - 3cr.
- MGT4630 - Applied Human Resource Management - 3cr.
- MGT4720 - Sales and Operations Planning - 2cr.
- MGT4740 - Quality Management - 2cr.
- MGT4760 - Services Management - 2cr.
- MGT4790 - Managing Global Value Chains - 2cr.
- MGT5730 - Lean Continuous Improvement - 3cr.
- MGT4800 - Independent Research and Readings - 1cr.
- MGT4850 - Special Topics in Management - 1cr.
- MGT4250 - Management Internship - 1cr.

Up to nine (9) credits of upper-division HSB courses from other Huntsman Business School Departments (ACCT, DATA, IS, ECON, FIN, MSLE; 3000 - 5999 course numbers), not already counting toward the Business Acumen requirements, may be used to fulfill the Management Major Elective course requirement.

MGT 4250 Internship can be repeated for up to a total of six (6) credits, one (1) of which will fulfill the Major Requirement and up to five (5) can be used to fulfill the Management Major Elective requirement.

Business Acumen (47 credits)

Complete ALL of the following Courses:

- ACCT2010 - Financial Accounting Principles - 3cr.
- ACCT2020 - Managerial Accounting Principles - 3cr.
- BUS3200 - Professional Communication with AI (CI) - 3cr.
- DATA1100 - Excel for Business Analysis - 1cr.
- DATA2100 - Data and Information in Business - 3cr.
- DATA3100 - Making Decisions with Data - 3cr.
- DATA3300 - Introduction to Modern Data Analytics (QI) - 3cr.
- ECON2010 - Introduction to Microeconomics (BSS) - 3cr.
- ECON2020 - Introduction to Macroeconomics (BAI) - 3cr.
- ECON3050 - Foundations of Business: Capitalism, Markets, and Innovation - 3cr.
- FIN3200 - Corporate Finance (QI) - 3cr.
- FIN3300 - Investments - 3cr.
- MGT3350 - Legal and Ethical Environment of Business - 3cr.
- MGT3700 - Operations Management - 3cr.
- MSLE3500 - Fundamentals of Marketing - 3cr.
- MSLE3800 - Leadership - 2cr.
- MSLE3890 - Systems Strategy and Problem Solving - 2cr.

A minimum grade of C is required in all Business Acumen courses, except in cases where Major requirements may require a higher grade. Please consult your advisor for further information concerning minimum grades.

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Bachelor's Degree)

Suggested Degree Maps

Degree Map Name
Suggested Degree Map - Management BA, BS
Total Degree Map Credits
91 - 94
Degree Map Effective Catalog Year
2027 -

Degree Map Narrative

- Following is a sample four-year plan. Please note that student-specific plans may differ.
- Meet with an academic advisor to create a specific plan that best fits your academic needs.
- The student is ultimately responsible for knowing and completing all degree requirements.
- Make sure you meet the registration requirements for each class by clicking the course link and checking any prerequisites or corequisites.
- Consultation with an advisor may result in an altered plan customized for an individual student.
- Check your Degree Works for requirements and completion.

Students who have not attended any school beyond high school and have a declared major in the Huntsman School of Business are encouraged to enroll in BUS1000 HSB FRESHMEN ACADEMY during their first year at USU.

*The course is intended to acculturate students to college life, and is therefore not relevant for internal or external transfer students. This course is an in-person course on the Logan campus for now, so those at statewide campuses or online are not able to enroll.

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	16	0

Requirement Select
- MGT1000 - Business Career Preparation

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- USU1010 - University Connections

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select
- ENGL1010 - Writing as Inquiry (CL1)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- ECON2010 - Introduction to Microeconomics (BSS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- ECON2020 - Introduction to Macroeconomics (BAI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- BUS1000 - HSB Freshmen Academy

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- GEBLS - BREADTH LIFE SCIENCE

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- MINIMUM C GRADE REQUIRED: ECON 2010; ECON 2020 (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	16	0

Requirement Select

- ENGL2010 - Research and Argument Across Perspectives (CL2)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- MATH1050 - College Algebra (QL)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- DATA1100 - Excel for Business Analysis

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- DATA2100 - Data and Information in Business

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- MGT3100 - Organizational Behavior

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select

- GEBHU - BREADTH HUMANITIES

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- MINIMUM C GRADE REQUIRED: ENGL 2010; MATH 1050; DATA 1100; DAATA 2100 (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	14	0

Requirement Select

- ACCT2010 - Financial Accounting Principles

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- BUS3200 - Professional Communication with AI (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- MGT3100 - Organizational Behavior

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select
- GEBCA - BREADTH CREATIVE ARTS

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- GEBPS - BREADTH PHYSICAL SCI

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- MINIMUM C GRADE REQUIRED: ACCT 2010; BUS 3200 (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	15	0

Requirement Select
- ACCT2020 - Managerial Accounting Principles

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- DATA3100 - Making Decisions with Data

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- MGT3350 - Legal and Ethical Environment of Business

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- MGT3700 - Operations Management

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- MGT3250 - Managing Human Capital

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- MINIMUM C GRADE REQUIRED: ACCT 2020; DATA 3100; MGT 3350; MGT 3700 (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Fall	14 - 16	0

Requirement Select
- ECON3050 - Foundations of Business: Capitalism, Markets, and Innovation

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- FIN3200 - Corporate Finance (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- MGT3600 - Project Management

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select
- MGT4250 - Management Internship

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1 - 3
Progress Credits	-
Contact Hours	1 - 3
Clinical	-
Criticality	No

Requirement Select
- MSLE3800 - Leadership

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select
- MSLE3500 - Fundamentals of Marketing

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- MINIMUM GRADE REQUIRED: ECON 3050; FIN 3200; MSLE 3800; MSLE 3500 (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Spring	9	0

Requirement Select
- DATA3300 - Introduction to Modern Data Analytics (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- FIN3300 - Investments

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- GEDSC - DEPTH LIFE/PHYS SCI

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- CHOSEN MANAGEMENT ELECTIVES COURSE: 2-3 CREDITS (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Fall	7 - 8	0

Requirement Select
- MSLE3890 - Systems Strategy and Problem Solving

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select
- GEDHA - DEPTH HUM/CREATV ART

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2 - 3
Progress Credits	-
Contact Hours	2 - 3
Clinical	-
Criticality	No

Requirement Select

- GEO3400 - Communicating Geoscience (CI/DSC)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- CHOSEN MANAGEMENT ELECTIVE COURSE: 2-3 CREDITS (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- MINIMUM C GRADE REQUIRED: MSLE 3890 (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Spring	0	0

Requirement Select

- CHOSEN MANAGEMENT ELECTIVE COURSE: 2-4 CREDITS (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Program Learning Outcomes

Program Learning Outcomes

https://www.usu.edu/oda/assessment/

Management - Healthcare Management Emphasis - BA, BS

Program Overview

College
Jon M. Huntsman School of Business

Department
Management

Program Level
Undergraduate

About this Degree

The Management major enables students to acquire a foundation of key concepts and skills that are applicable to both business and non-business organizations, coupled with the technical skills needed to support particular career paths.

The Healthcare Management emphasis prepares students for careers in a rapidly growing sector of the economy that is already worth more than $1 trillion.

- For more information about Management, see the website.
- Admitted and current students must meet with an advisor.
- Log on to Degree Works to check student-specific program progress.
- The highest math requirement for this degree is any Quantitative Literacy (QL) course

Admission Requirements for this Program

First-Year and Transfer Students are admitted to the Huntsman School of Business based on USU's Admission Requirements.

Current USU Students in good standing qualify for admission into a Huntsman School major.

Huntsman School Admission Details: https://huntsman.usu.edu/undergraduate/apply

Program Requirements

Total Credits Required In Program Coursework
73

Total Credits Required To Earn This Credential
120

Simple Requisites

Program Requirements

Students must complete the General Education Requirements

- We recommend students consult with their academic advisor to understand which major courses may fulfill these requirements.

Students must also complete the University Studies Depth Requirements

- Elective credits needed will be determined on an individual basis (a student with continuing education, AP credits, and language credits may not require additional elective credits).
- Completing a minor is recommended to fulfill elective credits.
- A complete list of requirements can be found on the requirements sheet at huntsman.usu.edu/undergraduate/majors/management-major.
- Students are encouraged to enhance their education experience through use of the Roadmap to Graduation and Student Success found at https://huntsman.usu.edu/advising/road_map.
- A 2.5 overall and major GPA are required to be recommended for graduation.

Management - Healthcare Management Emphasis - BA, BS Course Requirements

Type
Completion Requirement

Management Major Requirements (9 credits)

Complete ALL of the following Courses:

- MGT1000 - Business Career Preparation - 1cr.
- MGT3100 - Organizational Behavior - 2cr.
- MGT3250 - Managing Human Capital - 3cr.
- MGT3600 - Project Management - 2cr.
- MGT4250 - Management Internship - 1cr.
- 1 credit required in MGT 4250

Management Major - Healthcare Management Emphasis (11 credits)

Complete ALL of the following Courses:

- MGT4500 - Principles of Healthcare Management - 3cr.
- MGT4510 - Innovation and Improvement in Healthcare Management - 3cr.
- MGT4520 - Healthcare Policy and Strategy - 3cr.
- MGT4600 - Negotiations - 2cr.

Management Major - Elective Credits (Minimum 6 credits required)

Business Acumen courses cannot also count toward Management major electives

Earn at least 6 credits from the following:

- MGT3150 - Critical Thinking for Managerial Decision Making - 2cr.
- MGT3400 - Managerial Ethics - 2cr.
- MGT3450 - Film and Management - 1cr.
- MGT3710 - Team Management - 2cr.
- MGT3810 - Employment Law (DSS) - 3cr.
- MGT3850 - Sports Management - 2cr.
- MGT4610 - Recruitment and Selection - 2cr.
- MGT4620 - Talent Acquisition - 3cr.
- MGT4630 - Applied Human Resource Management - 3cr.
- MGT4720 - Sales and Operations Planning - 2cr.
- MGT4740 - Quality Management - 2cr.
- MGT4760 - Services Management - 2cr.
- MGT4790 - Managing Global Value Chains - 2cr.
- MGT5730 - Lean Continuous Improvement - 3cr.
- MGT4800 - Independent Research and Readings - 1cr.
- MGT4850 - Special Topics in Management - 1cr.
- MGT4250 - Management Internship - 1cr.

MGT 4250 Internship may be repeated for up to six (6) total credits, one (1) of which will fulfill the Management Major requirements and up to five (5) can be used to fulfill the Management Major elective course requirements.

Up to 6 credits of any upper-division HSB courses (ACCT, FIN, ECON, DATA, IS, or MSLE, course number 3000 - 5999) may also be used to fulfill these elective credits required for the Management Major, Healthcare Emphasis.

Business Acumen (47 credits)

Complete all of the following Business Acumen courses:

Complete ALL of the following Courses:

- ACCT2010 - Financial Accounting Principles - 3cr.
- ACCT2020 - Managerial Accounting Principles - 3cr.
- BUS3200 - Professional Communication with AI (CI) - 3cr.

- DATA1100 - Excel for Business Analysis - 1cr.
- DATA2100 - Data and Information in Business - 3cr.
- DATA3100 - Making Decisions with Data - 3cr.
- DATA3300 - Introduction to Modern Data Analytics (QI) - 3cr.
- ECON2010 - Introduction to Microeconomics (BSS) - 3cr.
- ECON2020 - Introduction to Macroeconomics (BAI) - 3cr.
- ECON3050 - Foundations of Business: Capitalism, Markets, and Innovation - 3cr.
- FIN3200 - Corporate Finance (QI) - 3cr.
- FIN3300 - Investments - 3cr.
- MGT3350 - Legal and Ethical Environment of Business - 3cr.
- MGT3700 - Operations Management - 3cr.
- MSLE3500 - Fundamentals of Marketing - 3cr.
- MSLE3800 - Leadership - 2cr.
- MSLE3890 - Systems Strategy and Problem Solving - 2cr.

Business Acumen courses require a C or better in all courses, except in cases where major-specific requirements may require a higher grade.

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Bachelor's Degree)

Suggested Degree Maps

Degree Map Name
Suggested Degree Map - Management: Healthcare Management Emphasis - BA, BS
Total Degree Map Credits
87 - 98
Degree Map Effective Catalog Year
2027 -

Degree Map Narrative

- Following is a sample four-year plan. Please note that student-specific plans may differ.
- Meet with an academic advisor to create a specific plan that best fits your academic needs.
- The student is ultimately responsible for knowing and completing all degree requirements.
- Make sure you meet the registration requirements for each class by clicking the course link and checking any prerequisites or corequisites.
- Consultation with an advisor may result in an altered plan customized for an individual student.
- Check your Degree Works for requirements and completion.

Students who have not attended any school beyond high school and have a declared major in the Huntsman School of Business are encouraged to enroll in BUS1000 HSB FRESHMEN ACADEMY during their first year at USU.

*The course is intended to acculturate students to college life, and is therefore not relevant for internal or external transfer students. This course is an in-person course on the Logan campus for now, so those at statewide campuses or online are not able to enrol.

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	13	0

Requirement Select
- BUS1000 - HSB Freshmen Academy

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- MGT1000 - Business Career Preparation

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- USU1010 - University Connections

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select
- ENGL1010 - Writing as Inquiry (CL1)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- ECON2010 - Introduction to Microeconomics (BSS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- ECON2020 - Introduction to Macroeconomics (BAI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- MINIMUM C GRADE REQUIRED: ECON 2010; ECON 2020 (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	16	0

Requirement Select

- ENGL2010 - Research and Argument Across Perspectives (CL2)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- MATH1050 - College Algebra (QL)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- DATA1100 - Excel for Business Analysis

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- DATA2100 - Data and Information in Business

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- MGT3100 - Organizational Behavior

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select
- Breadth Humanities (BHU) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- MINIMUM C GRADE REQUIRED: ENGL2010; DATA1100; DATA 2100; MATH 1050 (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	12 - 16	0

Requirement Select
- ACCT2010 - Financial Accounting Principles

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- BUS3200 - Professional Communication with AI (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- MGT3250 - Managing Human Capital

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Breadth Creative Arts (BCA) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Breadth Physical Sciences (BPS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	0 - 4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- MINIMUM C GRADE REQUIRED: ACCT 2010; BUS 3200 (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	15	0

Requirement Select
- ACCT2020 - Managerial Accounting Principles

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- DATA3100 - Making Decisions with Data

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- MGT3350 - Legal and Ethical Environment of Business

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- MGT3700 - Operations Management

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- MSLE3500 - Fundamentals of Marketing

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- MINIMUM C GRADE REQUIRED: ACCT 2020; DATA 3100; MGT 3350; MGT 3700; MSLE 3500 (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Fall	8 - 10	0

Requirement Select
- ECON3050 - Foundations of Business: Capitalism, Markets, and Innovation

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- CHOSEN MANAGEMENT ELECTIVE COURS 2-3 CREDITS (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- MGT3600 - Project Management

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select
- MGT4250 - Management Internship

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1 - 3
Progress Credits	-
Contact Hours	1 - 3
Clinical	-
Criticality	No

Requirement Select
- MSLE3800 - Leadership

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select
- MINIMUM C GRADE REQUIRED: ECON 3050; MSLE 3800 (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Spring	13 - 14	0

Requirement Select
- DATA3300 - Introduction to Modern Data Analytics (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- FIN3300 - Investments

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Depth Life and Physical Sciences (DSC) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2 - 3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- MGT4500 - Principles of Healthcare Management

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- MGT4600 - Negotiations

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select
- MINIMUM C GRADE REQUIRED: DATA 3300; FIN 3300 (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Fall	10 - 14	0

Requirement Select
- MSLE3890 - Systems Strategy and Problem Solving

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select
- Depth Humanities and Creative Arts (DHA) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1 - 3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- GEO3400 - Communicating Geoscience (CI/DSC)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- MGT4510 - Innovation and Improvement in Healthcare Management

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- MGT4250 - Management Internship

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1 - 3
Progress Credits	-
Contact Hours	1 - 3
Clinical	-
Criticality	No

Requirement Select
- CHOSEN MANAGEMENT ELECTIVE COURSE: 2-3 CREDITS (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- MINIMUM C GRADE REQUIRED: MSLE 3890 (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Spring	0	0

Requirement Select

- CHOSEN MANAGEMENT ELECTIVE COURSE: 2-3 CREDITS (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Program Learning Outcomes

Program Learning Outcomes

https://www.usu.edu/oda/assessment/

Management - Hotel Management Emphasis - BA, BS (NOT CURRENTLY OFFERED)

Program Overview

College	Department	Program Level
Jon M. Huntsman School of Business	Management	Undergraduate

About this Degree

The Management major enables students to acquire a foundation of key concepts and skills that are applicable to both business and non-business organizations, coupled with the technical skills needed to support particular career paths.

- For more information about Management, see the website.
- Admitted and current students must meet with an advisor.
- Log on to Degree Works to check student-specific program progress.
- The highest math requirement for this degree is MATH1050 COLLEGE ALGEBRA (QL)

Admission Requirements for this Program

First-Year and Transfer Students are admitted to the Huntsman School of Business based on USU's Admission Requirements.

Current USU Students in good standing qualify for admission into a Huntsman School major.

Huntsman School Admission Details: https://huntsman.usu.edu/undergraduate/apply

Program Requirements

Total Credits Required To Earn This Credential

120

Simple Requisites

Program Requirements

Students must complete the General Education Requirements

- ECN1500 INTRODUCTION MACROEOECONOMICS will fulfill the American Institutions requirement.
- ECN2010 INTRO MICROECONOMICS (BSS) will fulfill the Breadth Social Sciences requirement.
- For Huntsman School of Business students, courses taken for their major may fulfill the Integrated Studies requirement.

Students must also complete the University Studies Depth Requirements

- Elective credits needed will be determined on an individual basis (a student with continuing education, AP credits, and language credits may not require additional elective credits).
- Completing a minor is recommended to fulfill elective credits.
- A complete list of requirements can be found on the requirements sheet at huntsman.usu.edu/undergraduate/majors/management-major.
- Students are encouraged to enhance their education experience through use of the Roadmap to Graduation and Student Success found at https://huntsman.usu.edu/advising/road_map.
- MGT4250 MANAGEMENT INTERNSHIP is recommended between the student's junior and senior years.

- A 2.5 overall and major GPA are required to be recommended for graduation.

Management - Hotel Management Emphasis - BS Course Requirements

Type
Completion Requirement

Major Requirements (17 credits)

Complete ALL of the following Courses:

- MGT3100 - Organizational Behavior - 2cr.
- MGT3150 - Critical Thinking for Managerial Decision Making - 2cr.
- MGT3250 - Managing Human Capital - 3cr.
- MGT3400 - Managerial Ethics - 2cr.
- MGT3600 - Project Management - 2cr.
- MGT3810 - Employment Law (DSS) - 3cr.
- MGT4600 - Negotiations - 2cr.
- MGT4790 - Managing Global Value Chains - 2cr.

The Human Resource emphasis requires a B- grade or higher in MGT3250 MANAGING HUMAN CAPITAL

Hotel Management (9 credits)

Complete ALL of the following Courses:

- MGT3940 - Principles of Hotel Management - 3cr.
- MGT3950 - Hotel Operations - 3cr.
- MGT3970 - Hotel Revenue and Cost Management - 3cr.

MGT3940 PRINCIPLES OF HOTEL MANAGEMENT requires a B- grade or higher

Business Acumen (46-47 credits)

All acumen courses must have a minimum grade of C unless otherwise stated.

Complete ALL of the following Courses:

- ACCT2010 - Financial Accounting Principles - 3cr.
- ACCT2020 - Managerial Accounting Principles - 3cr.
- BUS3200 - Professional Communication with AI (CI) - 3cr.
- DATA1100 - Excel for Business Analysis - 1cr.
- DATA2100 - Data and Information in Business - 3cr.
- DATA3100 - Making Decisions with Data - 3cr.
- DATA3300 - Introduction to Modern Data Analytics (QI) - 3cr.
- ECON2010 - Introduction to Microeconomics (BSS) - 3cr.
- ECON2020 - Introduction to Macroeconomics (BAI) - 3cr.
- ECON3050 - Foundations of Business: Capitalism, Markets, and Innovation - 3cr.
- FIN3200 - Corporate Finance (QI) - 3cr.
- FIN3300 - Investments - 3cr.
- MGT3700 - Operations Management - 3cr.
- MSLE3500 - Fundamentals of Marketing - 3cr.
- MSLE3800 - Leadership - 2cr.
- MSLE3890 - Systems Strategy and Problem Solving - 2cr.

Accounting majors require a B grade or higher in ACCT2010 FINANCIAL ACCT PRINCIPLES

Finance, International Business, and Management (Wealth Management emphasis) majors require a B- grade or higher in FIN3200

International Business and Management (Operations and Supply Chain Management emphasis) majors require a B- grade or higher in MGT3700 OPERATIONS MGMT

International Business majors require a B- grade or higher; Marketing majors require a B- grade or higher in MSLE3500 FUND OF MARKETING

Open Electives

Complete the following as needed:
Total elective credit is determined by General Education courses taken, degree type selected, additional credits earned, and any additional math or other prerequisite courses needed. Please consult your Academic Advisor for details.

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Bachelor's Degree)

Suggested Degree Maps

Degree Map Name
Suggested Degree Map - Management: Hotel Management Emphasis, BA, BS
Total Degree Map Credits
115 - 126
Degree Map Effective Catalog Year
2027 -

Degree Map Narrative

- Following is a sample four-year plan. Please note that student-specific plans may differ.
- Meet with an academic advisor to create a specific plan that best fits your academic needs.
- The student is ultimately responsible for knowing and completing all degree requirements.
- Make sure you meet the registration requirements for each class by clicking the course link and checking any prerequisites or corequisites.
- Consultation with an advisor may result in an altered plan customized for an individual student.
- Check your Degree Works for requirements and completion.

Students who have not attended any school beyond high school and have a declared major in the Huntsman School of Business are expected to enroll in BUS1000 HSB FRESHMEN ACADEMY during their first year at USU.

*The course is intended to acculturate students to college life, and is therefore not relevant for internal or external transfer students. Thus, transfer students are *not* expected to enroll in BUS1000 HSB FRESHMEN ACADEMY. This course is an in-person course on the Logan campus for now, so those at statewide campuses or online are not able to enroll, and thus *not* expected to enroll.

Undeclared students should apply to the Jon M. Huntsman School during fall semester of their second year (see http://huntsman.usu.edu/apply/).

Spring semester of their third year, students should apply for graduation at http://www.usu.edu/registrar/htm/graduation/apply-online.

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	16	0

Requirement Select
- ECON2020 - Introduction to Macroeconomics (BAI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- ENGL1010 - Writing as Inquiry (CL1)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- MATH1050 - College Algebra (QL)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- USU1010 - University Connections

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select
- BUS1000 - HSB Freshmen Academy

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- Breadth Humanities (BHU) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- A minimum grade of C is required in ECON2020; USU1010 is a recommended course; MATH1050 is recommended to fulfill the QL requirement (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	16	0

Requirement Select
- ECON2010 - Introduction to Microeconomics (BSS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- ENGL2010 - Research and Argument Across Perspectives (CL2)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- ACCT2010 - Financial Accounting Principles

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- DATA1100 - Excel for Business Analysis

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- DATA2100 - Data and Information in Business

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Breadth Creative Arts (BCA) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- A minimum grade of C is required in ECON2010, ACCT2010, DATA1100, DATA2100 (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	10 - 17	0

Requirement Select

- ACCT2020 - Managerial Accounting Principles

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- BUS3200 - Professional Communication with AI (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Breadth Physical Sciences (BPS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	0 - 4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Breadth Life Sciences (BLS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Depth Humanities and Creative Arts (DHA) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1 - 3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Minimum grade of C is required in ACCT2020, BUS3200 (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	15	0

Requirement Select
- ECON3050 - Foundations of Business: Capitalism, Markets, and Innovation

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- MGT3150 - Critical Thinking for Managerial Decision Making

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select
- MGT3350 - Legal and Ethical Environment of Business

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- MGT3400 - Managerial Ethics

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select
- DATA3100 - Making Decisions with Data

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- MSLE3800 - Leadership

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select
- A minimum grade of C is required in ECON3050, MGT3350, DATA3100, MSLE3800 (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Fall	16	0

Requirement Select
- FIN3200 - Corporate Finance (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- MGT3100 - Organizational Behavior

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select
- MGT3700 - Operations Management

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- MGT3600 - Project Management

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select
- DATA3300 - Introduction to Modern Data Analytics (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- MSLE3500 - Fundamentals of Marketing

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- A minimum grade of C is required in DATA3300, MSLE3500 (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- A minimum grade of B- is required in FIN3200 for Wealth Management emphasis, C otherwise; A minimum grade of B- is required in MGT3700 for Operations and Supply Chain Management emphasis, C otherwise (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Spring	14 - 16	0

Requirement Select

- FIN3400 - Corporate Finance (QI) (Inactive)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- MGT3250 - Managing Human Capital

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- MGT4600 - Negotiations

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select

- MGT4790 - Managing Global Value Chains

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select

- Depth Life and Physical Sciences (DSC) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2 - 3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Management Emphasis Course (2-3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2 - 3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- A minimum grade of C is required in FIN3400; A minimum grade of B- is required in MGT3250 for the Human Resource Management emphasis (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Fall	13 - 15	0

Requirement Select
- TESY1030 - Material Processing Systems

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Management Emphasis Course (2 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Management Emphasis Course (2-3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2 - 3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Electives (6-7 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	6 - 7
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- A minimum grade of C is required in TESY1030 (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Spring	15	0

Requirement Select
- Electives (15 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	15
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Program Learning Outcomes

Program Learning Outcomes
https://www.usu.edu/oda/assessment/

Management - Human Resources Management Emphasis - BA, BS

Program Overview

College
Jon M. Huntsman School of Business

Department
Management

Program Level
Undergraduate

About this Degree
The Management major enables students to acquire a foundation of key concepts and skills that are applicable to both business and non-business organizations, coupled with the technical skills needed to support particular career paths.

This emphasis develops students who understand human behavior in organizations and how human capital can be leveraged to create value for the individual and the organization.

- For more information about Management, see the website.
- Admitted and current students must meet with an advisor.
- Log on to Degree Works to check student-specific program progress.
- The highest math requirement for this degree is any Quantitative Literacy (QL) course

Admission Requirements for this Program
First-Year and Transfer Students are admitted to the Huntsman School of Business based on USU's Admission Requirements.

Current USU Students in good standing qualify for admission into a Huntsman School major.

Huntsman School Admission Details: https://huntsman.usu.edu/undergraduate/apply

Program Requirements

Total Credits Required In Program Coursework
73

Total Credits Required To Earn This Credential
120

Simple Requisites

Program Requirements

Students must complete the General Education Requirements

- We recommend students consult with their academic advisor to understand which major courses may fulfill these requirements.

Students must also complete the University Studies Depth Requirements

- Elective credits needed will be determined on an individual basis (a student with continuing education, AP credits, and language credits may not require additional elective credits).
- A complete list of requirements can be found on the requirements sheet at huntsman.usu.edu/undergraduate/majors/management-major.
- Students are encouraged to enhance their education experience through use of the Roadmap to Graduation and Student Success found at https://huntsman.usu.edu/advising/road_map.
- A 2.5 overall and major GPA are required to be recommended for graduation.

Management Major - Human Resources Management Emphasis - BA, BS

Course Requirements (26 total credits)

Type
Completion Requirement

Major Requirements (9 credits)

Complete ALL of the following Courses:

- MGT1000 - Business Career Preparation - 1cr.
- MGT3100 - Organizational Behavior - 2cr.
- MGT3250 - Managing Human Capital - 3cr.
- MGT3600 - Project Management - 2cr.
- MGT4250 - Management Internship - 1cr.
- 1 credit required in MGT 4250

Management Major - Human Resource Management Emphasis (11 credits)

For the Human Resource Management Emphasis complete the following courses.

Complete ALL of the following Courses:

- MGT3810 - Employment Law (DSS) - 3cr.
- MGT4600 - Negotiations - 2cr.
- MGT4620 - Talent Acquisition - 3cr.
- MGT4630 - Applied Human Resource Management - 3cr.

MGT 4610 Recruitment and Selection (2 credits) and MGT 4620 Talent Management (2 credits) can be substituted in place of MGT 4620 Talent Acquisition and Development (3 credits) to fulfill this HR Emphasis requirement.

Management Major Elective Credits (Minimum 6 credits)

Business Acumen courses cannot also count toward Management major electives

Earn at least 6 credits from the following:

- MGT3150 - Critical Thinking for Managerial Decision Making - 2cr.
- MGT3400 - Managerial Ethics - 2cr.
- MGT3450 - Film and Management - 1cr.
- MGT3710 - Team Management - 2cr.
- MGT3850 - Sports Management - 2cr.
- MGT4500 - Principles of Healthcare Management - 3cr.
- MGT4510 - Innovation and Improvement in Healthcare Management - 3cr.
- MGT4520 - Healthcare Policy and Strategy - 3cr.
- MGT4720 - Sales and Operations Planning - 2cr.
- MGT4740 - Quality Management - 2cr.
- MGT4760 - Services Management - 2cr.
- MGT4790 - Managing Global Value Chains - 2cr.
- MGT5730 - Lean Continuous Improvement - 3cr.
- MGT4800 - Independent Research and Readings - 1cr.
- MGT4850 - Special Topics in Management - 1cr.
- MGT4250 - Management Internship - 1cr.

MGT 4520 Internship can be repeated for up to six (6) total credits, one (1) of which will fulfill the Management Major requirements and up to five (5) of which can fulfill the Management Major Elective credits.

Up to 6 credits of any upper-division HSB courses (ACCT, FIN, ECON, DATA, IS, or MSLE, course number 3000 - 5999) may also be used to fulfill these elective credits required for the Management Major, HR emphasis.

Business Acumen Courses (47 credits)

Complete ALL of the following Courses:

- ACCT2010 - Financial Accounting Principles - 3cr.
- ACCT2020 - Managerial Accounting Principles - 3cr.
- BUS3200 - Professional Communication with AI (CI) - 3cr.
- DATA1100 - Excel for Business Analysis - 1cr.
- DATA2100 - Data and Information in Business - 3cr.
- DATA3100 - Making Decisions with Data - 3cr.
- DATA3300 - Introduction to Modern Data Analytics (QI) - 3cr.
- ECON2010 - Introduction to Microeconomics (BSS) - 3cr.
- ECON2020 - Introduction to Macroeconomics (BAI) - 3cr.
- ECON3050 - Foundations of Business: Capitalism, Markets, and Innovation - 3cr.
- FIN3200 - Corporate Finance (QI) - 3cr.
- FIN3300 - Investments - 3cr.
- MGT3350 - Legal and Ethical Environment of Business - 3cr.
- MGT3700 - Operations Management - 3cr.
- MSLE3500 - Fundamentals of Marketing - 3cr.
- MSLE3800 - Leadership - 2cr.
- MSLE3890 - Systems Strategy and Problem Solving - 2cr.

Business Acumen courses require a C or better in all courses, except in cases where major-specific requirements may require a higher grade.

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Bachelor's Degree)

Suggested Degree Maps

Degree Map Name
Suggested Degree Map - Management: Human Resources Management Emphasis - BA, BS
Total Degree Map Credits
92 - 102
Degree Map Effective Catalog Year
2027 -

Degree Map Narrative

- Following is a sample four-year plan. Please note that student-specific plans may differ.
- Meet with an academic advisor to create a specific plan that best fits your academic needs.
- The student is ultimately responsible for knowing and completing all degree requirements.
- Make sure you meet the registration requirements for each class by clicking the course link and checking any prerequisites or corequisites.
- Consultation with an advisor may result in an altered plan customized for an individual student.
- Check your Degree Works for requirements and completion.

Students who have not attended any school beyond high school and have a declared major in the Huntsman School of Business are encouraged to enroll in BUS1000 HSB FRESHMEN ACADEMY during their first year at USU.

*The course is intended to acculturate students to college life, and is therefore not relevant for internal or external transfer students. This course is an in-person course on the Logan campus for now, so those at statewide campuses or online are not able to enroll.

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	16 - 17	0

Requirement Select
- BUS1000 - HSB Freshmen Academy

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- MGT1000 - Business Career Preparation

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- USU1010 - University Connections

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select
- ENGL1010 - Writing as Inquiry (CL1)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- ECON2010 - Introduction to Microeconomics (BSS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- ECON2020 - Introduction to Macroeconomics (BAI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Breadth Life Sciences (BLS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- MINIMUM C GRADE REQUIRED: ECON 2010; ECON 2020 (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	16	0

Requirement Select

- ENGL2010 - Research and Argument Across Perspectives (CL2)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- MATH1050 - College Algebra (QL)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- DATA1100 - Excel for Business Analysis

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- DATA2100 - Data and Information in Business

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- MGT3100 - Organizational Behavior

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select

- Breadth Humanities (BHU) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- MINIMUM C GRADE REQUIRED: ENGL 2010; MATH 1050; DATA 1100; DATA 2100 (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	12 - 16	0

Requirement Select

- ACCT2010 - Financial Accounting Principles

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- BUS3200 - Professional Communication with AI (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- MGT3250 - Managing Human Capital

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Breadth Creative Arts (BCA) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Breadth Physical Sciences (BPS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	0 - 4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- MINIMUM C GRADE REQUIRED: ACCT 2010; BUS 3200 (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	12	0

Requirement Select
- ACCT2020 - Managerial Accounting Principles

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- DATA3100 - Making Decisions with Data

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- MGT3700 - Operations Management

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- MSLE3500 - Fundamentals of Marketing

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- MINIMUM C GRADE REQUIRED: ACCT 2020; DATA 3100; MGT 3350; MGT 3700; MSLE 3500 (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Fall	14 - 16	0

Requirement Select

- ECON3050 - Foundations of Business: Capitalism, Markets, and Innovation

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- FIN3200 - Corporate Finance (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- MGT3600 - Project Management

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select

- MGT4250 - Management Internship

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1 - 3
Progress Credits	-
Contact Hours	1 - 3
Clinical	-
Criticality	No

Requirement Select

- MSLE3800 - Leadership

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select

- MGT3810 - Employment Law (DSS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- MINIMUM C GRADE REQUIRED: ECON 3050; FIN 3200; MSLE 3800 (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Spring	13 - 14	0

Requirement Select
- DATA3300 - Introduction to Modern Data Analytics (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- FIN3300 - Investments

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Depth Life and Physical Sciences (DSC) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2 - 3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- MGT4600 - Negotiations

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select
- MGT4630 - Applied Human Resource Management

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- MINIMUM C GRADE REQUIRED: DATA 3300; FIN 3300 (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Fall	9 - 11	0

Requirement Select
- MSLE3890 - Systems Strategy and Problem Solving

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select
- Depth Humanities and Creative Arts (DHA) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1 - 3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- GEO3400 - Communicating Geoscience (CI/DSC)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- MGT4620 - Talent Acquisition

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- CHOSEN MANAGEMENT ELECTIVE COURSE: 2-3 CREDITS (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Spring	0	0

Requirement Select
- CHOSEN MANAGEMENT ELECTIVE COURSE: 2-3 CREDITS (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	Total Major Credits
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Program Learning Outcomes

Program Learning Outcomes

https://www.usu.edu/oda/assessment/

Management - Operations and Supply Chain Management Emphasis - BA, BS

Program Overview

College
Jon M. Huntsman School of Business

Department
Management

Program Level
Undergraduate

About this Degree

The Management major enables students to acquire a foundation of key concepts and skills that are applicable to both business and non-business organizations, coupled with the technical skills needed to support particular career paths.

This emphasis prepares students with interests in process improvement and how to manage supply chains.

- For more information about Management, see the website.
- Admitted and current students must meet with an advisor.
- Log on to Degree Works to check student-specific program progress.
- The highest math requirement for this degree is any Quantitative Literacy (QL) course

Admission Requirements for this Program

First-Year and Transfer Students are admitted to the Huntsman School of Business based on USU's Admission Requirements.

Current USU Students in good standing qualify for admission into a Huntsman School major.

Huntsman School Admission Details: https://huntsman.usu.edu/undergraduate/apply

Program Requirements

Total Credits Required In Program Coursework
73

Total Credits Required To Earn This Credential
120

Simple Requisites

Program Requirements

Students must complete the General Education Requirements

- We recommend students consult with their academic advisor to understand which major courses may fulfill these requirements.

Students must also complete the University Studies Depth Requirements

- Elective credits needed will be determined on an individual basis (a student with continuing education, AP credits, and language credits may not require additional elective credits).
- A complete list of requirements can be found on the requirements sheet at huntsman.usu.edu/undergraduate/majors/management-major.
- Students are encouraged to enhance their education experience through use of the Roadmap to Graduation and Student Success found at https://huntsman.usu.edu/advising/road_map.
- A 2.5 overall and major GPA are required to be recommended for graduation.

Management - Operations and Supply Chain Management Emphasis - BA, BS

Type
Completion Requirement

Management Major Requirements (9 credits)

Complete ALL of the following Courses:

- MGT1000 - Business Career Preparation - 1cr.
- MGT3100 - Organizational Behavior - 2cr.
- MGT3250 - Managing Human Capital - 3cr.
- MGT3600 - Project Management - 2cr.
- MGT4250 - Management Internship - 1cr.
- 1 credit required for MGT 4250

Operations and Supply Chain Management Emphasis (11 credits)

Students desiring to obtain the Operations and Supply Chain Management Emphasis must also complete the following courses:

Complete ALL of the following Courses:

- MGT4720 - Sales and Operations Planning - 2cr.
- MGT4740 - Quality Management - 2cr.
- MGT4760 - Services Management - 2cr.
- MGT4790 - Managing Global Value Chains - 2cr.
- MGT5730 - Lean Continuous Improvement - 3cr.

Management - Operations and Supply Chain Management Emphasis Major Electives (Min. 6 credits)

Business Acumen courses cannot also count toward Management major electives

Earn at least 6 credits from the following:

- MGT3150 - Critical Thinking for Managerial Decision Making - 2cr.
- MGT3400 - Managerial Ethics - 2cr.
- MGT3450 - Film and Management - 1cr.
- MGT3710 - Team Management - 2cr.
- MGT3810 - Employment Law (DSS) - 3cr.
- MGT3850 - Sports Management - 2cr.
- MGT4500 - Principles of Healthcare Management - 3cr.
- MGT4510 - Innovation and Improvement in Healthcare Management - 3cr.
- MGT4520 - Healthcare Policy and Strategy - 3cr.
- MGT4600 - Negotiations - 2cr.
- MGT4610 - Recruitment and Selection - 2cr.
- MGT4620 - Talent Acquisition - 3cr.
- MGT4630 - Applied Human Resource Management - 3cr.
- MGT4800 - Independent Research and Readings - 1cr.
- MGT4850 - Special Topics in Management - 1cr.
- MGT4250 - Management Internship - 1cr.

Up to six (6) credits of any upper-division courses from other Huntsman School of Business Departments (e.g. ACCT, DATA, IS, ECON, FIN; course numbers 3000 - 5999) may be used to fulfill the Management Major Elective credits.

MGT 4250 Internship may be repeated for up to a total of six (6) credits, one (1) of which will count toward the Major Requirements, with the remaining five (5) credits counting toward the Management Major Elective credits.

Business Acumen (47 credits)

All HSB majors require students to complete all of the following Business Acumen courses:

Complete ALL of the following Courses:

- ACCT2010 - Financial Accounting Principles - 3cr.

- ACCT2020 - Managerial Accounting Principles - 3cr.
- BUS3200 - Professional Communication with AI (CI) - 3cr.
- DATA1100 - Excel for Business Analysis - 1cr.
- DATA2100 - Data and Information in Business - 3cr.
- DATA3100 - Making Decisions with Data - 3cr.
- DATA3300 - Introduction to Modern Data Analytics (QI) - 3cr.
- ECON2010 - Introduction to Microeconomics (BSS) - 3cr.
- ECON2020 - Introduction to Macroeconomics (BAI) - 3cr.
- ECON3050 - Foundations of Business: Capitalism, Markets, and Innovation - 3cr.
- FIN3200 - Corporate Finance (QI) - 3cr.
- FIN3300 - Investments - 3cr.
- MGT3350 - Legal and Ethical Environment of Business - 3cr.
- MGT3700 - Operations Management - 3cr.
- MSLE3500 - Fundamentals of Marketing - 3cr.
- MSLE3800 - Leadership - 2cr.
- MSLE3890 - Systems Strategy and Problem Solving - 2cr.

Business Acumen courses require a C or better in all courses, except in cases where major-specific requirements may require a higher grade.

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Bachelor's Degree)

Suggested Degree Maps

Degree Map Name
Suggested Degree Map - Management: Operations and Supply Chain Management Emphasis BA, BS
Total Degree Map Credits
97 - 107
Degree Map Effective Catalog Year
2027 -

Degree Map Narrative

- Following is a sample four-year plan. Please note that student-specific plans may differ.
- Meet with an academic advisor to create a specific plan that best fits your academic needs.
- The student is ultimately responsible for knowing and completing all degree requirements.
- Make sure you meet the registration requirements for each class by clicking the course link and checking any prerequisites or corequisites.
- Consultation with an advisor may result in an altered plan customized for an individual student.
- Check your Degree Works for requirements and completion.

Students who have not attended any school beyond high school and have a declared major in the Huntsman School of Business are encouraged to enroll in BUS1000 HSB FRESHMEN ACADEMY during their first year at USU.

*The course is intended to acculturate students to college life, and is therefore not relevant for internal or external transfer students. This course is an in-person course on the Logan campus for now, so those at statewide campuses or online are not able to enroll.

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	16 - 17	0

Requirement Select
- BUS1000 - HSB Freshmen Academy

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- MGT1000 - Business Career Preparation

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- USU1010 - University Connections

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select
- ENGL1010 - Writing as Inquiry (CL1)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- ECON2010 - Introduction to Microeconomics (BSS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- ECON2020 - Introduction to Macroeconomics (BAI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Breadth Life Sciences (BLS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- ECON 2010 - MINIMUM C GRADE REQUIRED; ECON 2020 - MINIMUM C GRADE REQUIRED (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	16	0

Requirement Select

- ENGL2010 - Research and Argument Across Perspectives (CL2)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- MATH1050 - College Algebra (QL)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- DATA1100 - Excel for Business Analysis

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- DATA2100 - Data and Information in Business

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- MGT3100 - Organizational Behavior

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select
- Breadth Humanities (BHU) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- ENGL 2010 - MINIMUM C GRADE REQUIRED; MATH 1050 - MINIMUM C- GRADE REQUIRED DATA 1100 - MINIMUM C GRADE REQUIRED; DATA 2100 - MINIMUM C GRADE REQUIRED (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	12 - 16	0

Requirement Select
- ACCT2010 - Financial Accounting Principles

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- BUS3200 - Professional Communication with AI (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- MGT3250 - Managing Human Capital

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Breadth Creative Arts (BCA) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Breadth Physical Sciences (BPS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	0 - 4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- MINIMUM C GRADE REQUIRED: ACCT 2010; BUS 3200 (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	15	0

Requirement Select
- ACCT2020 - Managerial Accounting Principles

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- DATA3100 - Making Decisions with Data

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- MGT3350 - Legal and Ethical Environment of Business

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- MGT3700 - Operations Management

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- MSLE3500 - Fundamentals of Marketing

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- MINIMUM C GRADE REQUIRED: ACCT 2020; DATA 3100; MGT 3350; MGT 3700; MSLE 3500 (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Fall	13 - 15	0

Requirement Select
- ECON3050 - Foundations of Business: Capitalism, Markets, and Innovation

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- FIN3200 - Corporate Finance (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- MGT3600 - Project Management

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select
- MGT4250 - Management Internship

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1 - 3
Progress Credits	-
Contact Hours	1 - 3
Clinical	-
Criticality	No

Requirement Select
- MSLE3800 - Leadership

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select
- MGT4740 - Quality Management

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select
- MINIMUM C GRADE REQUIRED - ECON 3050; FIN 3200; MSLE 3800 (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Spring	12 - 13	0

Requirement Select
- DATA3300 - Introduction to Modern Data Analytics (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- FIN3300 - Investments

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Depth Life and Physical Sciences (DSC) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2 - 3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- MGT4720 - Sales and Operations Planning

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select
- MGT4600 - Negotiations

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select
- MINIMUM C GRADE REQUIRED: DATA 3300; FIN 3300 (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Fall	11 - 13	0

Requirement Select
- MSLE3890 - Systems Strategy and Problem Solving

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select
- Depth Humanities and Creative Arts (DHA) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1 - 3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- GEO3400 - Communicating Geoscience (CI/DSC)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- MGT4760 - Services Management

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select

- MGT5730 - Lean Continuous Improvement

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- MINIMUM C GRADE REQUIRED: MSLE 3890 (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Spring	2	0

Requirement Select

- MGT4790 - Managing Global Value Chains

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select

- CHOSEN MANAGEMENT ELECTIVES COURSE: 1-3 CREDITS (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- CHOSEN MANAGEMENT ELECTIVES COURSE: 1-3 CREDITS (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	Total Major Credits
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Program Learning Outcomes

Program Learning Outcomes

https://www.usu.edu/oda/assessment/

Management - Wealth Management Emphasis - BA, BS

Program Overview

College
Jon M. Huntsman School of Business

Department
Management

Program Level
Undergraduate

About this Degree

The Management major enables students to acquire a foundation of key concepts and skills that are applicable to both business and non-business organizations, coupled with the technical skills needed to support particular career paths.

The Wealth Management emphasis prepares students for careers in financial and retirement planning.

- For more information about Management, see the website.
- Admitted and current students must meet with an advisor.
- Log on to Degree Works to check student-specific program progress.
- The highest math requirement for this degree is any Quantitative Literacy (QL) course

Admission Requirements for this Program

First-Year and Transfer Students are admitted to the Huntsman School of Business based on USU's Admission Requirements.

Current USU Students in good standing qualify for admission into a Huntsman School major.

Huntsman School Admission Details: https://huntsman.usu.edu/undergraduate/apply

Program Requirements

Total Credits Required In Program Coursework
73

Total Credits Required To Earn This Credential
120

Simple Requisites

Program Requirements

Students must complete the General Education Requirements

- We recommend students consult with their academic advisor to understand which major courses may fulfill these requirements.

Students must also complete the University Studies Depth Requirements

- Elective credits needed will be determined on an individual basis (a student with continuing education, AP credits, and language credits may not require additional elective credits).
- A complete list of requirements can be found on the requirements sheet at huntsman.usu.edu/undergraduate/majors/management-major.
- Students are encouraged to enhance their education experience through use of the Roadmap to Graduation and Student Success found at https://huntsman.usu.edu/advising/road_map.
- A 2.5 overall and major GPA are required to be recommended for graduation.

Management - Wealth Management Emphasis - BA, BS Course Requirements

Type
Completion Requirement

Major Requirements (9 credits)

Complete ALL of the following Courses:

- MGT1000 - Business Career Preparation - 1cr.
- MGT3100 - Organizational Behavior - 2cr.
- MGT3250 - Managing Human Capital - 3cr.
- MGT3600 - Project Management - 2cr.
- MGT4250 - Management Internship - 1cr.
- 1 credit required in MGT 4250

Management Major - Wealth Management Emphasis (11 credits)

Complete ALL of the following Courses:

- FIN5060 - Introduction to Personal Financial Planning - 3cr.
- FIN5070 - Retirement Planning - 3cr.
- FIN5080 - Estate Planning - 3cr.
- MGT4600 - Negotiations - 2cr.

Management Major Electives (min 6 credits)

Earn at least 6 credits from the following:

- MGT3150 - Critical Thinking for Managerial Decision Making - 2cr.
- MGT3400 - Managerial Ethics - 2cr.
- MGT3450 - Film and Management - 1cr.
- MGT3710 - Team Management - 2cr.
- MGT3810 - Employment Law (DSS) - 3cr.
- MGT3850 - Sports Management - 2cr.
- MGT4500 - Principles of Healthcare Management - 3cr.
- MGT4510 - Innovation and Improvement in Healthcare Management - 3cr.
- MGT4520 - Healthcare Policy and Strategy - 3cr.
- MGT4610 - Recruitment and Selection - 2cr.
- MGT4620 - Talent Acquisition - 3cr.
- MGT4630 - Applied Human Resource Management - 3cr.
- MGT4720 - Sales and Operations Planning - 2cr.
- MGT4740 - Quality Management - 2cr.
- MGT4760 - Services Management - 2cr.
- MGT4790 - Managing Global Value Chains - 2cr.
- MGT5730 - Lean Continuous Improvement - 3cr.
- MGT4800 - Independent Research and Readings - 1cr.
- MGT4850 - Special Topics in Management - 1cr.
- MGT4250 - Management Internship - 1cr.

Wealth Management emphasis requires a B- grade or higher in FIN3200

MGT 4250 Internship may be repeated for up to a total of six (6) credits, one (1) credit which fulfill the Management Major requirement, and up to five (5) credits can fulfill the Management Major electives.

Business Acumen (47 credits)

Complete ALL of the following Courses:

- ACCT2010 - Financial Accounting Principles - 3cr.
- ACCT2020 - Managerial Accounting Principles - 3cr.
- BUS3200 - Professional Communication with AI (CI) - 3cr.
- DATA1100 - Excel for Business Analysis - 1cr.
- DATA2100 - Data and Information in Business - 3cr.
- DATA3100 - Making Decisions with Data - 3cr.
- DATA3300 - Introduction to Modern Data Analytics (QI) - 3cr.
- ECON2010 - Introduction to Microeconomics (BSS) - 3cr.
- ECON2020 - Introduction to Macroeconomics (BAI) - 3cr.
- ECON3050 - Foundations of Business: Capitalism, Markets, and Innovation - 3cr.

- FIN3200 - Corporate Finance (QI) - 3cr.
- FIN3300 - Investments - 3cr.
- MGT3350 - Legal and Ethical Environment of Business - 3cr.
- MGT3700 - Operations Management - 3cr.
- MSLE3500 - Fundamentals of Marketing - 3cr.
- MSLE3800 - Leadership - 2cr.
- MSLE3890 - Systems Strategy and Problem Solving - 2cr.

Minimum grade of C or better is required in Business Acumen courses, except in cases where major-specific requirements may require a higher grade.

Open Electives

Total elective credit is determined by General Education courses taken, degree type selected, additional credits earned, and any additional math or other prerequisite courses needed. Please consult your Academic Advisor for details.

Complete as needed

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Bachelor's Degree)

Suggested Degree Maps

Degree Map Name
Suggested Degree Map - Management: Wealth Management Emphasis - BA, BS
Total Degree Map Credits
95 - 105
Degree Map Effective Catalog Year
2027 -

Degree Map Narrative

- Following is a sample four-year plan. Please note that student-specific plans may differ.
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Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	16 - 17	0

Requirement Select
- BUS1000 - HSB Freshmen Academy

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- MGT1000 - Business Career Preparation

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- USU1010 - University Connections

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select
- ENGL1010 - Writing as Inquiry (CL1)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- ECON2010 - Introduction to Microeconomics (BSS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- ECON2020 - Introduction to Macroeconomics (BAI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Breadth Life Sciences (BLS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- ECON2010 - Minimum C Grade Required (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- ECON2020 Minimum C Grade Required (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	16	0

Requirement Select

- ENGL2010 - Research and Argument Across Perspectives (CL2)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- MATH1050 - College Algebra (QL)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- DATA1100 - Excel for Business Analysis

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- DATA2100 - Data and Information in Business

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- MGT3100 - Organizational Behavior

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select
- Breadth Humanities (BHU) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- ENGL2010 Minimum C Grade Required (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- MATH 1050: Recommend course to fulfill the course the QL requirement. Minimum C Grade Required (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- MGT 2100 - Minimum C Grade Required (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	12 - 16	0

Requirement Select
- ACCT2010 - Financial Accounting Principles

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- BUS3200 - Professional Communication with AI (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- MGT3250 - Managing Human Capital

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Breadth Creative Arts (BCA) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Breadth Physical Sciences (BPS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	0 - 4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- ACCT2010 - MINIMUM C GRADE REQUIRED; BUS 3200 - MINIMUM C GRADE REQUIRED (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	15	0

Requirement Select
- ACCT2020 - Managerial Accounting Principles

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- DATA3100 - Making Decisions with Data

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- MGT3350 - Legal and Ethical Environment of Business

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- MGT3700 - Operations Management

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- MSLE3500 - Fundamentals of Marketing

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- ACCT2020 - MINIMUM C GRADE REQUIRED; DATA3100 MINIMUM C GRADE REQUIRED; MGT 3700 - MINIMUM C GRADE REQUIRED; MSLE3500 - MINIMUM C GRADE REQUIRED (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Fall	14 - 16	0

Requirement Select
- ECON3050 - Foundations of Business: Capitalism, Markets, and Innovation

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- FIN3200 - Corporate Finance (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- MGT3600 - Project Management

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select
- MGT4250 - Management Internship

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1 - 3
Progress Credits	-
Contact Hours	1 - 3
Clinical	-
Criticality	No

Requirement Select
- MSLE3800 - Leadership

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select
- FIN5060 - Introduction to Personal Financial Planning

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- ECON3050 - MINIMUM C GRADE REQUIRED; FIN3200 MINIMUM C GRADE REQUIRED; MSLE3800 MINIMUM C GRADE REQUIRED (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Spring	13 - 14	0

Requirement Select

- DATA3300 - Introduction to Modern Data Analytics (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- FIN3300 - Investments

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Depth Life and Physical Sciences (DSC) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2 - 3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- FIN5070 - Retirement Planning

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- MGT4600 - Negotiations

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select

- DATA 3300 - MINIMUM C GRADE REQUIRED; FIN 3300 - MINIMUM C GADE REQUIRED (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Fall	9 - 11	0

Requirement Select

- MSLE3890 - Systems Strategy and Problem Solving

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select

- Depth Humanities and Creative Arts (DHA) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1 - 3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- GEO3400 - Communicating Geoscience (CI/DSC)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- FIN5080 - Estate Planning

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- CHOSEN MANAGEMENT ELECTIVE COURSE: 2-3 CREDITS (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Spring	0	0

Requirement Select

- CHOSEN MANAGEMENT ELECTIVE COURSES- 2-3 CREDITS (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Program Learning Outcomes

Program Learning Outcomes

https://www.usu.edu/oda/assessment/

Motion Design - MA

Program Overview

College
College of Arts & Sciences

Department
Art and Design

Program Level
Graduate

About this Degree

The MA in Motion Design offers advanced study in 2D and 3D motion methodologies and technologies, digital media theory, design for motion, video, and emerging media forms such as AI and augmented/virtual reality. The MA is a 30-credit (3 semester) program that culminates in a plan B master's thesis research project and exhibition. It is intended for students with a strong educational background in graphic design and for professional designers seeking to expand their motion-related abilities and professional competencies.

Admission Requirements for this Program

Successful applicants must exhibit academic excellence along with a portfolio that displays a strong understanding of graphic design and typography. A BFA or equivalent in a design related field is required. GPA in design courses during the last two years of undergraduate work must be at least 3.0 on a 4-point scale. A digital portfolio of recent work must be included in the application for consideration. Previous experience in motion design is not required.

Portfolios will be evaluated by faculty members to determine acceptance based on overall strength of applicant's work.

Program Requirements

Total Credits Required In Program Coursework
30

Total Credits Required To Earn This Credential
30

Simple Requisites

Program Requirements

Degree Verification

- A bachelor's degree from an accredited U.S. college or university or a similarly recognized international university is required for admission to and completion of a graduate program.

Overall Graduate GPA at least 3.0 and no grades of C- or lower:

- Graduate students are required to maintain at least a 3.0 GPA for degree-program courses. Grades of C- or lower will not be accepted for graduate degree.

Course Number Acceptability

- The Program of Study for a master's degree must include at least 18 semester credits at the level of 6000 or above.
- Credits in the following areas are not acceptable in a degree program: foreign languages (unless included in an approved Program of Study), continuing graduate advisement, individual home study, military science, and courses numbers below 5000.
- Courses numbered 5000 – 5990 are advanced, upper-division courses and a maximum of 12 credits may be used on a approved program of study.

Matriculation Start Semester

- A master's degree must be completed within six years of entering the degree program. Additional time may be requested by the student's committee and submitted to the Vice Provost of Graduate Studies for review.

Motion Design - MA

Type
Completion Requirement

Required Courses

Complete ALL of the following Courses:

- ART6100 - Design Strategies for Film, Broadcast, and Advertising - 3cr.
- ART6110 - 2D Motion Studio - 3cr.
- ART6120 - Kinetic Brand Identity Studio - 3cr.
- ART6125 - Digital Media Theory and Visual Culture - 3cr.
- ART6130 - Advanced 2D Motion Studio - 3cr.
- ART6140 - Narrative Cinematography - 3cr.
- ART6150 - 3D Motion Studio - 3cr.
- ART6160 - Experimental Motion - 3cr.
- ART6170 - Advanced 3D Motion Studio - 3cr.
- ART6180 - Motion Design Thesis - 3cr.

Suggested Degree Maps

Degree Map Name
Suggested Degree Map for Motion Design - MA
Total Degree Map Credits
30
Degree Map Effective Catalog Year
2027 -

Degree Map Narrative

Following is a sample plan. Please note that student-specific plans may differ.

Meet with an academic advisor to create a specific plan that best fits your academic needs.

The student is ultimately responsible for knowing and completing all degree requirements.

Make sure you meet the registration requirements for each class by clicking the course link and checking any prerequisites or corequisites.

Consultation with an advisor may result in an altered plan customized for an individual student

Check your Degree Works for requirements and completion.

Year	Semester	Actual Credits	Progress Credits
Year 1	Summer	9	0

Requirement Select

- ART6100 - Design Strategies for Film, Broadcast, and Advertising

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- ART6110 - 2D Motion Studio

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- ART6140 - Narrative Cinematography

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	12	0

Requirement Select
- ART6130 - Advanced 2D Motion Studio

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- ART6150 - 3D Motion Studio

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- ART6125 - Digital Media Theory and Visual Culture

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- ART6120 - Kinetic Brand Identity Studio

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	9	0

Requirement Select
- ART6160 - Experimental Motion

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- ART6170 - Advanced 3D Motion Studio

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- ART6180 - Motion Design Thesis

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Master of Ecological Restoration - MOER (NOT CURRENTLY OFFERED)

Program Overview

College
College of Agriculture & Natural Resources

Department
Watershed Sciences

Program Level
Graduate

Program Requirements

Total Credits Required In Program Coursework
-

Total Credits Required To Earn This Credential
18-23

Simple Requisites

Program Requirements

1. Approved Program of Study
2. Approved MoER Internship Agreement Form
3. Submit a Graduation Check Request Form
4. Submit the Graduation Application and pay the $15.00 graduation fee
5. GPA of 3.0 or higher

USU School of Graduate Studies general graduation guidelines

- **Degree Verification:** A bachelor's degree from an accredited U.S. college or university or a similarly recognized international university is required for admission to and completion of a graduate program.
- **Overall Graduate GPA at least 3.0 with no grades of C- or lower:** Graduate students are required to maintain at least a 3.0 GPA for courses on their Program of Study. Grades of C- or lower will not be accepted for a graduate degree.
- **Course Number Acceptability**: A MoER Program of Study must include at least 18 semester credits at the level of 6000 or above. Credits in the following areas are not acceptable in a degree program: foreign languages (unless included in an approved Program of Study), continuing graduate advisement, individual home study, military science, and courses numbered below 5000.
- **Matriculation Start Semester**: A MoER degree must be completed within six years of entering the degree program. Additional time may be requested by a student's supervisory committee and submitted to the Vice Provost of Graduate Studies for review and approval.
- **Coursework Validity**: Coursework over eight years old at the time of degree completion may not be used for a graduate degree unless it is revalidated.

To be awarded the Master of Ecological Restoration (Plan C), students must:

Type
Completion Requirement

A. Complete the Required Courses (10-15 credits)

Complete ALL of the following Courses:

- WATS5620 - Intro to Low-Tech Process-Based Restoration of Riverscapes - 1cr.
- WATS5625 - Adaptive Management and Monitoring of

Low-Tech Process-Based Restoration of Riverscapes - 1cr.
- WATS6240 - Graduate Internship/Co-op - 1cr.
- WATS6350 - Capstone Mentoring - 1cr.
- WATS6700 - Restoration Ecology - 4cr.

B. Complete a Committee-Approved Program of Study

A Master of Ecological Restoration (Plan C) Program of Study requires an additional 19-20 General Elective Credits, depending on the number of credits accrued for the required courses, including:

Fulfill ALL of the following requirements:

1. Ecology Block (Minimum of 2 credits)

Earn at least 2 credits from the following:
- WATS5200 - Fish Habitats - 2cr.
- WATS5305 - Ecology and Restoration of Plants - 3cr.
- WATS6540 - Ichthyology - 4cr.
- WATS6840 - Ecohydraulics - 3cr.

AND

2. GIS and Remote Sensing Block (Minimum of 2 credits)

Earn at least 2 credits from the following:
- UAS3700 - Unmanned Aircraft Systems Video Production - 3cr.
- NR6930 - Advanced GIS for Natural Resource Applications - 3cr.
- NR6940 - Principles of Remote Sensing of Natural Resources - 3cr.
- NR6950 - Geospatial Analysis for Natural Resource Management - 3cr.
- NR6960 - Python Programming for GIS - 3cr.

AND

3. Quantitative Methods Block (Minimum of 2 credits)

Earn at least 2 credits from the following:
- CEE6110 - Hydroinformatics - 3cr.
- CEE6740 - Surface Water Quality Modeling - 4cr.
- CEE6930 - Special Problems - 1cr.
- NR6580 - Data Analysis and Programming for Natural Resource Managers - 3cr.
- WATS6150 - Fluvial Geomorphology - 3cr.
- WATS6110 - Environmental Biogeochemistry - 3cr.
- WATS6580 - Base R: Data Management and Manipulation Using R - 1cr. (Inactive)
- WATS6900 - Graduate Special Topics - 1cr.

AND

4. Design Block (Minimum of 2 credits)

Earn at least 2 credits from the following:
- LAEP6100 - Regional Landscape Analysis and Planning - 5cr.
- LAEP6110 - Landscape Ecology for Planning - 3cr.
- WATS5621 - Science and Case Studies of Low-Tech Process-Based Restoration of Riverscapes - 1cr.
- WATS5622 - Planning Low-Tech Process-Based Restoration of Riverscapes - 1cr.
- WATS5623 - Designing Low-Tech Process-Based Restoration of Riverscapes - 1cr.
- WATS5624 - Implementation of Low-Tech Process-Based Restoration of Riverscapes - 1cr.

Program Learning Outcomes

Program Learning Outcomes

https://qcnr.usu.edu/wats/assessment/graduate

Management and Restoration of Aquatic Ecosystems - BS

Program Overview

College
College of Agriculture & Natural Resources

Department
Watershed Sciences

Program Level
Undergraduate

About this Degree

Utah State University is the only university in the state with a college devoted to the study of natural resources, and the management and restoration of aquatic ecosystems degree is unique in that it allows students the opportunity to integrate physics, chemistry, and biology to understand watershed systems. Clean and adequate water supplies and wetlands are essential elements of human society, and understanding the interactions between water and the rest of the world is necessary to the management of all ecosystems.

- For more information about Management and Restoration of Aquatic Ecosystems, see the website.
- Admitted and current students must meet with an academic advisor for semester by semester planning.
- Log on to Degree Works to check student-specific program progress.
- The highest math requirement for this degree is STAT3000 STATISTICS FOR SCIENTISTS (QI)

Admission Requirements for this Program

- New freshmen: Admitted to USU in Good Standing
- Transfer students from other institutions or other programs at USU: 2.5 GPA

Program Requirements

Total Credits Required In Program Coursework
74-79

Total Credits Required To Earn This Credential
120

Simple Requisites

Program Requirements

All courses required for the major must be taken on an A-B-C-D-F basis. A grade of C- or better is required for all WATS and GEOG courses used to meet requirements for a major in Management and Restoration of Aquatic Ecosystems. The grade point average for all courses taught by the College of Natural Resources must be 2.5 or higher.

Students majoring in Management and Restoration of Aquatic Ecosystems are required to select 12-15 directed elective credits, chosen from one of five areas of focus. The majority of these elective credits must come from courses directly related to the degree program, though you may choose to take more directed electives based on the field you are entering. Students must complete at least 5 credits from the 'Recommended' course list. All elective courses must be approved by the student's faculty advisor before enrollment. This degree is intentionally more open to allow you to meet OPM requirements in the field you are going into. Please work with your advisor to ensure you are taking sufficient pre-requisites and courses to meet current OPM requirements.

Management and Restoration of Aquatic Ecosystems Required Courses

Type
Completion Requirement

Scientific Foundation (30-31 credits)

Complete ALL of the following Courses:

- BIOL1610 - Biology I - 3cr.
- BIOL1620 - Biology II (BLS) - 3cr.
- CHEM1210 - Principles of Chemistry I - 4cr.
- CHEM1215 - Chemical Principles Laboratory I - 1cr.
- CHEM1220 - Principles of Chemistry II (BPS) - 4cr.
- CHEM1225 - Chemical Principles Laboratory II - 1cr.
- MATH1050 - College Algebra (QL) - 4cr.
- MATH1100 - Calculus Techniques (QL) - 3cr.
  OR MATH1210 - Calculus I (QL) - 4cr.
  OR MATH1170 - Modeling Change: Calculus in Life and Society - 4cr.
- STAT3000 - Statistics for Scientists (QI) - 3cr.
- WATS2220 - General Ecology - 3cr.

Scientific Foundation Core Options (4 credits)

Fulfill ANY of the following requirements:

Option 1

Complete ALL of the following Courses:

- GEO1110 - Physical Geology (BPS) - 3cr.
- GEO1115 - Physical Geology Laboratory - 1cr.

OR

Option 2

Complete ALL of the following Courses:

- GEOG1000 - Physical Geography (BPS) - 3cr.
- GEOG1005 - Physical Geography Lab - 1cr.

Common Departmental Core (17 credits)

Complete ALL of the following Courses:

- ENVS2000 - Natural Resource Professional Orientation - 1cr.
  OR WATS2000 - Natural Resource Professional Orientation - 1cr.
  OR WILD2000 - Natural Resource Professional Orientation - 1cr.
- ENVS4000 - Human Dimensions of Natural Resource Management (DSS) - 3cr.
  OR WATS3500 - Water and Power - 3cr.
- GEOG2800 - Introduction to Geographic Information Sciences - 4cr.
  OR WATS2800 - Introduction to Geographic Information Sciences - 4cr.
  OR WILD2800 - Introduction to Geographic Information Sciences - 4cr.
- WATS3100 - Fish Ecology, Conservation, and Management (CI/DSC) - 3cr.
- WATS3700 - Fundamentals of Watershed Science (CI) - 3cr.
- WATS5500 - Limnology: Ecology of Inland Waters - 3cr.

Required Courses for the MRAE Major (11-12 credits)

Complete ALL of the following Courses:

- APEC3012 - Introduction to Natural Resource Economics (DSS) - 3cr.
  OR ENVS5350 - Ecological Economics - 3cr.
- ENVS3010 - Natural Resource and Environmental Policy - 3cr.
  OR WATS5530 - Water Quality and Pollution - 3cr.
  OR WATS5600 - Environmental Water Management - 3cr.

- WATS5800 - Watershed Sciences Departmental Seminar - 1cr.
- WATS4300 - Principles of Ecosystem Restoration - 3cr.
  OR WATS5360 - Wetland Ecology and Management - 3cr.
  OR WILD4700 - Ecological Foundations of Restoration - 3cr.
- WATS5350 - Capstone and Professional Practice - 2cr.
  OR WATS4990 - Senior Thesis - 2cr.
  OR WATS4250 - Advanced Internship/Co-op - 1cr.

Directed Electives (select 12-15 directed elective credits, chosen from one of the following five areas of focus)

Type
Completion Requirement

Aquatic Habitats

Fulfill ANY of the following requirements:

Recommended Courses

Complete ANY of the following Courses:

- WATS5200 - Fish Habitats - 2cr.
- WATS5305 - Ecology and Restoration of Plants - 3cr.
- WATS5540 - Ichthyology - 4cr.
- WATS5550 - Freshwater Invertebrates - 3cr.

OR

Elective Courses

Complete ANY of the following Courses:

- BIOL1615 - Biology I Laboratory - 1cr.
- BIOL1625 - Biology II Laboratory - 1cr.
- CEE5930 - Independent Study - 1cr.
- GEOG3700 - Python Programming for GIS - 3cr.
- GEOG4900 - GIS Individual Projects - 1cr.
- GEOG5500 - Advanced Geographic Information Sciences (GIS) - 3cr.
- PSC3000 - Fundamentals of Soil Science - 4cr.
- PSC5350 - Wildland Soils - 3cr.
  OR WILD5350 - Wildland Soils - 3cr.
- WATS2050 - Data Management for Natural Resources – Cleaning and Shaping Data - 1cr.
- WATS2060 - Data Management for Natural Resources – Data Display and Analysis - 1cr.
- WATS2500 - Introduction to Marine Biology (BLS) - 3cr.
- WATS3000 - Oceanography (DSC) - 3cr.
- WATS3100 - Fish Ecology, Conservation, and Management (CI/DSC) - 3cr.
- WATS3110 - Fish Ecology, Conservation, and Management Lab - 1cr.
- WATS3200 - Marine Ecology: Expedition Sea of Cortez (DSC) - 3cr.
- WATS3450 - Introduction to Coral Reefs-Field Course (DSC) - 3cr.
- WATS4050 - Marine Global Change: Impacts and Conservation Strategies - 3cr.
- WATS4250 - Advanced Internship/Co-op - 1cr.
- WATS4510 - Aquatic Ecology Methods - 2cr.
- WATS4520 - Aquatic Ecology Practicum II: Analysis - 2cr.
- WATS4950 - Special Topics - 1cr.
- WATS4970 - Undergraduate Research - 1cr.
- WATS4990 - Senior Thesis - 2cr.
- WATS5110 - Environmental Biogeochemistry - 3cr.
- WATS5210 - The Secret Life of Elements on Earth - 2cr.
- WATS5360 - Wetland Ecology and Management - 3cr.
- WATS5610 - Field Introduction to Low-Tech Process-Based Restoration of Riverscapes - 1cr.
- WATS5620 - Intro to Low-Tech Process-Based Restoration of Riverscapes - 1cr.
- WATS5621 - Science and Case Studies of Low-Tech Process-Based Restoration of Riverscapes - 1cr.
- WATS5622 - Planning Low-Tech Process-Based Restoration of Riverscapes - 1cr.
- WATS5623 - Designing Low-Tech Process-Based Restoration of Riverscapes - 1cr.
- WATS5624 - Implementation of Low-Tech Process-Based Restoration of Riverscapes - 1cr.
- WATS5625 - Adaptive Management and Monitoring of Low-Tech Process-Based Restoration of Riverscapes - 1cr.
- WATS5690 - Climate Data-Driven Resource Management - 3cr.
- WILD3880 - Genetics in Conservation and Management - 3cr.
- WILD4600 - Conservation Biology - 3cr.
- WILD5560 - Applied Avian Ecology (CI) - 3cr.
- WILD5750 - Applied Remote Sensing - 3cr.

- Other courses as approved by faculty advisor

Water Quality

Fulfill ANY of the following requirements:

Recommended Courses

Complete ANY of the following Courses:

- WATS5110 - Environmental Biogeochemistry - 3cr.
- WATS4510 - Aquatic Ecology Methods - 2cr.
- WATS5550 - Freshwater Invertebrates - 3cr.

OR

Elective Courses

Complete ANY of the following Courses:

- BIOL1615 - Biology I Laboratory - 1cr.
- BIOL1625 - Biology II Laboratory - 1cr.
- CEE2620 - Environmental Engineering Microbiology - 3cr.
- CEE3610 - Environmental Management - 3cr.
- CEE5600 - Environmental Chemistry of Inorganic Contaminants - 2cr.
- CEE5610 - Environmental Quality Analysis - 3cr.
- CEE5620 - Aquatic Chemistry - 3cr.
- CEE5730 - Environmental Chemistry of Organic Contaminants - 3cr.
  OR PUBH5730 - Environmental Chemistry of Organic Contaminants - 3cr.
- GEOG3700 - Python Programming for GIS - 3cr.
- GEOG5500 - Advanced Geographic Information Sciences (GIS) - 3cr.
- GEO5510 - Groundwater Geology (QI) - 3cr.
- GEO5520 - Techniques of Groundwater Investigations (CI) - 3cr.
- PSC3000 - Fundamentals of Soil Science - 4cr.
- PHYS2110 - General Physics—Life Sciences I - 4cr.
- PHYS2210 - Physics for Scientists and Engineers I (QI/BPS) - 4cr.
- WATS2050 - Data Management for Natural Resources – Cleaning and Shaping Data - 1cr.
- WATS2060 - Data Management for Natural Resources –

Data Display and Analysis - 1cr.
- WATS3000 - Oceanography (DSC) - 3cr.
- WATS4250 - Advanced Internship/Co-op - 1cr.
- WATS4520 - Aquatic Ecology Practicum II: Analysis - 2cr.
- WATS4950 - Special Topics - 1cr.
- WATS4970 - Undergraduate Research - 1cr.
- WATS4990 - Senior Thesis - 2cr.
- WATS5210 - The Secret Life of Elements on Earth - 2cr.
- WATS5310 - Ecology and Restoration of Wetland and Riparian Plants - 3cr.
- WATS5540 - Ichthyology - 4cr.
- WATS5690 - Climate Data-Driven Resource Management - 3cr.

- Other courses as approved by faculty advisor

Hydrology and Water Resources*

*OPM requirements may require additional coursework. Please work with your advisor to ensure you are taking sufficient pre-requisites and courses to meet current OPM requirements.

Fulfill ANY of the following requirements:

Recommended Courses

Complete ALL of the following Courses:
- CEE3500 - Civil and Environmental Engineering Fluid Mechanics - 3cr.
- CEE4200 - Engineering Economics - 3cr.
- MATH1220 - Calculus II (QL) - 4cr.
- MATH2250 - Linear Algebra and Differential Equations (QI) - 4cr.
- PHYS2210 - Physics for Scientists and Engineers I (QI/BPS) - 4cr.
- WATS5490 - Small Watershed Hydrology (QI) - 4cr.

OR

Elective Courses

Complete ANY of the following Courses:
- CEE3430 - Engineering Hydrology - 3cr.
- CEE6110 - Hydroinformatics - 3cr.
- CEE6440 - Advanced Hydrology Through CUAHSI Virtual University - 1cr.
- GEO5510 - Groundwater Geology (QI) - 3cr.
- GEO5520 - Techniques of Groundwater Investigations (CI) - 3cr.
- GEOG3700 - Python Programming for GIS - 3cr.
- GEOG5500 - Advanced Geographic Information Sciences (GIS) - 3cr.
- WATS2050 - Data Management for Natural Resources – Cleaning and Shaping Data - 1cr.
- WATS2060 - Data Management for Natural Resources – Data Display and Analysis - 1cr.
- WATS3000 - Oceanography (DSC) - 3cr.
- WATS3450 - Introduction to Coral Reefs-Field Course (DSC) - 3cr.
- WATS4250 - Advanced Internship/Co-op - 1cr.
- WATS4510 - Aquatic Ecology Methods - 2cr.
- WATS4520 - Aquatic Ecology Practicum II: Analysis - 2cr.
- WATS4950 - Special Topics - 1cr.
- WATS4970 - Undergraduate Research - 1cr.
- WATS4990 - Senior Thesis - 2cr.
- WATS5210 - The Secret Life of Elements on Earth - 2cr.
- WATS5610 - Field Introduction to Low-Tech Process-Based Restoration of Riverscapes - 1cr.
- WATS5620 - Intro to Low-Tech Process-Based Restoration of Riverscapes - 1cr.
- WATS5621 - Science and Case Studies of Low-Tech Process-Based Restoration of Riverscapes - 1cr.
- WATS5622 - Planning Low-Tech Process-Based Restoration of Riverscapes - 1cr.
- WATS5623 - Designing Low-Tech Process-Based Restoration of Riverscapes - 1cr.
- WATS5624 - Implementation of Low-Tech Process-Based Restoration of Riverscapes - 1cr.
- WATS5625 - Adaptive Management and Monitoring of Low-Tech Process-Based Restoration of Riverscapes - 1cr.
- WATS5690 - Climate Data-Driven Resource Management - 3cr.

- Other courses as approved by faculty advisor

Geomorphology

Fulfill ANY of the following requirements:

Required Courses (counts toward 5-credit Recommended Courses requirement)

Complete ALL of the following Courses:
- WATS5150 - Fluvial Geomorphology - 3cr.
- GEO3600 - Geomorphology - 4cr.

OR

Recommended Courses

Complete ANY of the following Courses:
- GEO2200 - The Earth Through Time - 3cr.
- PHYS2210 - Physics for Scientists and Engineers I (QI/BPS) - 4cr.

OR

Elective courses

Complete ANY of the following Courses:
- CEE3430 - Engineering Hydrology - 3cr.
- CEE3500 - Civil and Environmental Engineering Fluid Mechanics - 3cr.
- GEO2800 - Minerals and Rocks - 4cr.
- GEO3700 - Structural Geology - 4cr.
- GEO5510 - Groundwater Geology (QI) - 3cr.
- GEO3550 - Sedimentation and Stratigraphy - 4cr.
- GEO5520 - Techniques of Groundwater Investigations (CI) - 3cr.
- GEOG3700 - Python Programming for GIS - 3cr.
- GEOG5500 - Advanced Geographic Information Sciences (GIS) - 3cr.
- MATH1220 - Calculus II (QL) - 4cr.
- MATH2250 - Linear Algebra and Differential Equations (QI) - 4cr.
- PSC3000 - Fundamentals of Soil Science - 4cr.
- PSC5350 - Wildland Soils - 3cr.
  OR WILD5350 - Wildland Soils - 3cr.
- WATS2050 - Data Management for Natural Resources – Cleaning and Shaping Data - 1cr.
- WATS2060 - Data Management for Natural Resources –

Data Display and Analysis - 1cr.
- WATS3000 - Oceanography (DSC) - 3cr.
- WATS3450 - Introduction to Coral Reefs-Field Course (DSC) - 3cr.
- WATS4250 - Advanced Internship/Co-op - 1cr.
- WATS4510 - Aquatic Ecology Methods - 2cr.
- WATS4520 - Aquatic Ecology Practicum II: Analysis - 2cr.
- WATS4950 - Special Topics - 1cr.
- WATS4970 - Undergraduate Research - 1cr.
- WATS4990 - Senior Thesis - 2cr.
- WATS5210 - The Secret Life of Elements on Earth - 2cr.
- WATS5310 - Ecology and Restoration of Wetland and Riparian Plants - 3cr.
- WATS5360 - Wetland Ecology and Management - 3cr.
- WATS5490 - Small Watershed Hydrology (QI) - 4cr.
- WATS5540 - Ichthyology - 4cr.
- WATS5610 - Field Introduction to Low-Tech Process-Based Restoration of Riverscapes - 1cr.
- WATS5620 - Intro to Low-Tech Process-Based Restoration of Riverscapes - 1cr.
- WATS5621 - Science and Case Studies of Low-Tech Process-Based Restoration of Riverscapes - 1cr.
- WATS5622 - Planning Low-Tech Process-Based Restoration of Riverscapes - 1cr.
- WATS5623 - Designing Low-Tech Process-Based Restoration of Riverscapes - 1cr.
- WATS5624 - Implementation of Low-Tech Process-Based Restoration of Riverscapes - 1cr.
- WATS5625 - Adaptive Management and Monitoring of Low-Tech Process-Based Restoration of Riverscapes - 1cr.
- WATS5690 - Climate Data-Driven Resource Management - 3cr.

- Other courses as approved by faculty advisor

Human Dimensions

Fulfill ALL of the following requirements:

Recommended Courses

Complete ANY of the following Courses:
- ENVS4020 - Foundations of Environmental Thought (DHA/CI) - 3cr.
- SOC4620 - Sociology of the Environment and Natural Resources (DSS) - 3cr.
- GEOG4900 - GIS Individual Projects - 1cr.

AND

Elective Courses

Complete ANY of the following Courses:
- TCR2100 - Introduction to Technical Communication - 3cr.
- ENVS3500 - Environmental Data Science (QI) - 3cr.
- ENVS4700 - Communicating Sustainability (CI) - 3cr.
- ENVS5000 - Environmental Nonprofit and Volunteer Management - 3cr.
- ENVS6320 - Water Law and Policy in the United States - 3cr.
- GEOG3700 - Python Programming for GIS - 3cr.
- GEOG5400 - Natural Hazards and Society - 3cr.
- GEOG5500 - Advanced Geographic Information Sciences (GIS) - 3cr.
- PUBH3610 - Environmental Management - 3cr.
  OR CEE3610 - Environmental Management - 3cr.
- SOC4640 - Managing Community Conflict (CI) - 3cr.
- WATS2050 - Data Management for Natural Resources – Cleaning and Shaping Data - 1cr.
- WATS2060 - Data Management for Natural Resources – Data Display and Analysis - 1cr.
- WATS3000 - Oceanography (DSC) - 3cr.
- WATS4050 - Marine Global Change: Impacts and Conservation Strategies - 3cr.
- WATS4250 - Advanced Internship/Co-op - 1cr.
- WATS4950 - Special Topics - 1cr.
- WATS4970 - Undergraduate Research - 1cr.
- WATS4990 - Senior Thesis - 2cr.
- WATS5210 - The Secret Life of Elements on Earth - 2cr.
- WATS5540 - Ichthyology - 4cr.
- WATS5690 - Climate Data-Driven Resource Management - 3cr.
- WILD5750 - Applied Remote Sensing - 3cr.

- Other courses as approved by faculty advisor

Open Electives

Complete the following as needed:
Total elective credit is determined by General Education courses taken, degree type selected, additional credits earned, and any additional math or other prerequisite courses needed. Please consult your Academic Advisor for details.

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Bachelor's Degree)

Suggested Degree Maps

Degree Map Name
Suggested Degree Map - Management and Restoration of Aquatic Ecosystems BS
Total Degree Map Credits
112 - 128
Degree Map Effective Catalog Year
2027 -

Degree Map Narrative

- Following is a sample four-year plan. Please note that student-specific plans may differ.
- Meet with an academic advisor to create a specific plan that best fits your academic needs.
- The student is ultimately responsible for knowing and completing all degree requirements.
- Make sure you meet the registration requirements for each class by clicking the course link and checking any prerequisites or corequisites.
- Consultation with an advisor may result in an altered plan customized for an individual student.
- Check your Degree Works for requirements and completion.

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	14 - 16	0

Requirement Select
- BIOL1610 - Biology I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- MATH1050 - College Algebra (QL)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- WATS2000 - Natural Resource Professional Orientation

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- Communications Literacy (CL1) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- General Electives (3-4 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	15 - 16	0

Requirement Select
- BIOL1620 - Biology II (BLS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- MATH1100 - Calculus Techniques (QL)
  OR
- MATH1210 - Calculus I (QL)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 4
Progress Credits	-
Contact Hours	3 - 4
Clinical	-
Criticality	No

Requirement Select
- WATS2220 - General Ecology

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Breadth Creative Arts (BCA) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Communications Literacy (CL2) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	15	0

Requirement Select

- CHEM1210 - Principles of Chemistry I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- CHEM1215 - Chemical Principles Laboratory I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- STAT3000 - Statistics for Scientists (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- GEO1110 - Physical Geology (BPS)
  OR
- GEOG1000 - Physical Geography (BPS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- GEO1115 - Physical Geology Laboratory
  OR
- GEOG1005 - Physical Geography Lab

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- General Electives (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	15	0

Requirement Select

- CHEM1220 - Principles of Chemistry II (BPS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- CHEM1225 - Chemical Principles Laboratory II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- GEOG2800 - Introduction to Geographic Information Sciences
  OR
- WILD2800 - Introduction to Geographic Information Sciences
  OR
- WATS2800 - Introduction to Geographic Information Sciences

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- WATS3100 - Fish Ecology, Conservation, and Management (CI/DSC)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- WATS3700 - Fundamentals of Watershed Science (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Fall	15	0

Requirement Select

- WATS5500 - Limnology: Ecology of Inland Waters

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- ENVS3010 - Natural Resource and Environmental Policy
  OR
- WATS5530 - Water Quality and Pollution
  OR
- WATS5600 - Environmental Water Management

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Breadth Humanities (BHU) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- General Electives (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Area of Emphasis Electives (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Spring	15	0

Requirement Select
- APEC3012 - Introduction to Natural Resource Economics (DSS)
  OR
- ENVS4350 - Ecological Economics

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- WATS5800 - Watershed Sciences Departmental Seminar

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- Breadth American Institutions (BAI) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- General Electives (5 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	5
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Area of Emphasis Electives (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Fall	15 - 16	0

Requirement Select
- ENVS4000 - Human Dimensions of Natural Resource Management (DSS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- WATS4310 - Wetland Ecology and Management
  OR
- WILD4700 - Ecological Foundations of Restoration
  OR
- WATS4300 - Principles of Ecosystem Restoration

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- General Electives (6-7 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	6 - 7
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Area of Emphasis Electives (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Spring	8 - 20	0

Requirement Select

- WATS4250 - Advanced Internship/Co-op
  OR
- WATS4990 - Senior Thesis
  OR
- WATS5350 - Capstone and Professional Practice

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1 - 9
Progress Credits	-
Contact Hours	1 - 9
Clinical	-
Criticality	No

Requirement Select

- Breadth Social Sciences (BSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Area of Emphasis Electives (6 credits) and/or General Electives (4-7 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4 - 7
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Program Learning Outcomes

Program Learning Outcomes

https://www.usu.edu/oda/assessment/

Master of Applied Kinesiology - MFP (NOT CURRENTLY OFFERED)

Program Overview

College
College of Education & Human Services

Department
Kinesiology and Health Science

Program Level
Graduate

Program Requirements

Total Credits Required In Program Coursework
-

Total Credits Required To Earn This Credential
-

Marriage and Family Therapy - MMFT

Program Overview

College
College of Education & Human Services

Department
Human Development and Family Studies

Program Level
Graduate

About this Degree

Students admitted into the Marriage and Family Therapy program are trained to be marriage and family therapists. While they receive their clinical training, students complete a Plan C non-thesis degree called the Master of Marriage and Family Therapy (MMFT). Along with the coursework, students are required to write and present an integrative Theory of Change paper as their major project, helping them to better prepare for clinical work.

This program is fully accredited by the Commission on Accreditation for Marriage and Family Therapy Education (COAMFTE) and qualifies students for associate-level licensure as marriage and family therapists in the State of Utah. Students are encouraged to research licensure requirements for other states.

Because we are a COAMFTE-accredited program, all courses are required. See http://hdfs.usu.edu/programs/graduate/mft-hdfs for the course requirements. For more specific information, see the department's Graduate Student Handbook at: cehs.usu.edu/hdfs/graduate/handbook.

Program Requirements

Total Credits Required In Program Coursework
53

Total Credits Required To Earn This Credential
53

Simple Requisites

Program Requirements

In addition to the department's requirements, the following are the School of Graduate Studies guidelines and are the minimum requirements for students to complete a degree.

School of Graduate Studies Requirements:

• Degree Verification: A bachelor's degree from an accredited U.S. college or university or a similarly recognized international university is required for admission to and completion of a graduate program. An official transcript must be sent directly to the School of Graduate Studies.
• Overall Graduate GPA at least 3.0 and no grades of C- or lower: Graduate students are required to maintain at least a 3.0 GPA for degree-program courses. Grades of C- or lower will not be accepted for a graduate degree.
• Course Number Acceptability: The program of study for a master's degree cannot include more than 12 semester credits of courses at the 5000 level. Credits in the following areas are not acceptable in a degree program: foreign languages (unless included in an approved Program of Study), continuing graduate advisement, individual home study, military science, and courses numbered below 5000.
• Matriculation Start Semester: A master's degree must be completed within six years of entering the degree program. Additional time may be requested by the student's advisor and submitted to the Vice Provost of Graduate Studies for review.
• Coursework Validity: Coursework over eight years old at the time of degree completion may not be used for a graduate degree unless it is revalidated by the Vice Provost of Graduate Studies.
• Master's forms: Approval of the Program of Study is required by the School of Graduate Studies.

Approval of academic forms required for master's students by the School of Graduate Studies

- Supervisory Committee
- Program of Study
- Professional/Plan C students cannot use any thesis/dissertation credits on Program of Study.

Marriage and Family Therapy - MMFT

Type

Completion Requirement

Core Courses

Fulfill ALL of the following requirements:

Core Requirements

Complete at least 1 of the following courses:

- HDFS6060 - Human Development Theories - 3cr.
  OR HDFS6070 - Family Theories - 3cr.

AND

Core Requirements

Complete ALL of the following Courses:

- HDFS6300 - Ethical Systemic Practice Seminar - 1cr.
- HDFS6305 - Systemic Assessment and Diagnosis Seminar - 1cr.
- HDFS6310 - Introduction to Systemic Family Theory and Practice - 3cr.
- HDFS6320 - Theories and Models of Systemic Family Therapy - 3cr.
- HDFS6325 - Gender and Diversity in Systemic Family Therapy - 3cr.
- HDFS6330 - Couple and Sex Therapy - 3cr.
- HDFS6340 - Collaborative Health Care and Psychopharmacology - 3cr.
- HDFS6350 - Treating Addictions, Trauma, and Violence in Couples and Families - 3cr.
- HDFS6355 - Child and Family Play Therapy - 3cr.
- HDFS6360 - Ethical and Professional Development in Systemic Family Therapy - 3cr.
- HDFS6370 - Psychopathology and Systemic Assessment - 3cr.
- HDFS6380 - Applying Scholarly Research and Systemic Family Treatment - 3cr.
- HDFS6390 - Practicum in Systemic Family Therapy - 1cr.
- HDFS6400 - Readings and Conference - 1cr.

NOTE:

- HDFS6390 PRACT SYSTEMIC FAMILY THERAPY - 16 credits required.
- HDFS6400 READINGS & CONFERENCE - 3 credits required.

Required Orientation Course

The School of Graduate Studies requires the following courses for teaching assistantships: Course credit does not count on the Program of Study toward degree requirements.

Complete the following Continuing Education Courses:

- CEUS 7901 - Graduate Teaching Training I: FERPA, Title IX, and Best Practices in Assessment and Communication
- CEUS 7902 - Graduate Teaching Training II: Ethics, Pedagogy, and Student Support

Program Learning Outcomes

Program Learning Outcomes

https://cehs.usu.edu/about/assessment

Marriage and Family Therapy - MS

Program Overview

College
College of Education & Human Services

Department
Human Development and Family Studies

Program Level
Graduate

About this Degree

Students admitted into the Marriage and Family Therapy Plan A program are trained to be marriage and family therapists. While they receive their clinical training, students complete a thesis and receive the Master of Science with a specialization in Marriage and Family Therapy.

This program is fully accredited by the Commission on Accreditation for Marriage and Family Therapy Education (COAMFTE) and qualifies students for associate-level licensure as marriage and family therapists in the State of Utah. Students are encouraged to research licensure requirements for other states.

Because we are a COAMFTE-accredited program, all courses are required. See http://hdfs.usu.edu/programs/graduate/mft-hdfs for the course requirements. For more specific information, see the department's Graduate Student Handbook at: cehs.usu.edu/hdfs/graduate/handbook.

Program Requirements

Total Credits Required In Program Coursework
59

Total Credits Required To Earn This Credential
59

Simple Requisites

Program Requirements

In addition to the department's requirements, the following are the School of Graduate Studies guidelines and are the minimum requirements for students to complete a degree.

School of Graduate Studies Requirements:

• Degree Verification: A bachelor's degree from an accredited U.S. college or university or a similarly recognized international university is required for admission to and completion of a graduate program. An official transcript must be sent directly to the School of Graduate Studies.
• Overall Graduate GPA at least 3.0 and no grades of C- or lower: Graduate students are required to maintain at least a 3.0 GPA for degree-program courses. Grades of C- or lower will not be accepted for a graduate degree.
• Course Number Acceptability: The program of study for a master's degree cannot include more than 12 semester credits of courses at the 5000 level. Credits in the following areas are not acceptable in a degree program: foreign languages (unless included in an approved Program of Study), continuing graduate advisement, individual home study, military science, and courses numbered below 5000.
• Matriculation Start Semester: A master's degree must be completed within six years of entering the degree program. Additional time may be requested by the student's advisor and submitted to the Vice Provost of Graduate Studies for review.
• Coursework Validity: Coursework over eight years old at the time of degree completion may not be used for a graduate degree unless it is revalidated by the Vice Provost of Graduate Studies.|
• Master's forms: Approval of the Program of Study is required by the School of Graduate Studies.

- **Master's Forms:**
    - Approval of academic forms required for master's students by the School of Graduate Studies
        - Supervisory Committee
        - Program of Study
        - Thesis/Project Approval
        - Appointment for Exam
        - Record of Examination
        - Authorship and Copyright
        - Thesis Format & Style
        - Title Page
        - Department, SGS, and library review and approval
    - Required for all Plan A/defense degrees-
        - Complete RCR training.
        - Six thesis credits are required.
        - Successful defense and submission of the thesis to the library.

Plan A - Thesis

Type
Completion Requirement

Core Requirements (53 credits)

Complete ALL of the following Courses:

- HDFS6060 - Human Development Theories - 3cr. **OR** HDFS6070 - Family Theories - 3cr.
- HDFS6300 - Ethical Systemic Practice Seminar - 1cr.
- HDFS6305 - Systemic Assessment and Diagnosis Seminar - 1cr.
- HDFS6310 - Introduction to Systemic Family Theory and Practice - 3cr.
- HDFS6320 - Theories and Models of Systemic Family Therapy - 3cr.
- HDFS6325 - Gender and Diversity in Systemic Family Therapy - 3cr.
- HDFS6330 - Couple and Sex Therapy - 3cr.
- HDFS6340 - Collaborative Health Care and Psychopharmacology - 3cr.
- HDFS6350 - Treating Addictions, Trauma, and Violence in Couples and Families - 3cr.
- HDFS6355 - Child and Family Play Therapy - 3cr.
- HDFS6360 - Ethical and Professional Development in Systemic Family Therapy - 3cr.
- HDFS6370 - Psychopathology and Systemic Assessment - 3cr.
- HDFS6380 - Applying Scholarly Research and Systemic Family Treatment - 3cr.
- HDFS6390 - Practicum in Systemic Family Therapy - 1cr.
- HDFS6400 - Readings and Conference - 1cr.
- HDFS6970 - Thesis Research - 1cr.

NOTE:

1. HDFS6390 PRACT SYSTEMIC FAMILY THERAPY - 16 credits required
2. HDFS6400 READINGS & CONFERENCE -3 credits required
3. HDFS6970 THESIS RESEARCH - 6 credits required

Required Orientation Course

The School of Graduate Studies requires the following courses for teaching assistantships: Course credit does not count on the Program of Study toward degree requirements.

Complete the following Continuing Education courses:

- CEUS 7901 - Graduate Teaching Training I: FERPA, Title IX, and Best PRactices in Assessment and Communication
- CEUS 7902 - Graduate Teaching Training II: Ethics, Pedagogy, and Student Support

Program Learning Outcomes

Program Learning Outcomes

https://cehs.usu.edu/about/assessment

Music: Music Education, Band - BM

Program Overview

College	Department	Program Level
College of Arts & Sciences	Music	Undergraduate

About this Degree

Music Education with an emphasis in band certifies graduates to teach instrumental, choral, and general music in secondary schools. Graduates routinely compete for positions throughout the state, region, and country for positions teaching band at the high school and junior high/middle school levels. The rigorous curriculum is capable of completion in four years and it fosters a comprehensive knowledge of band education with the concert experience as a core, reaching through the athletic bands and complete jazz experience.

Program Specifics

USU offers students in Music Education degrees the option of completing the Music K-12 Endorsement, which affords graduates a credential to teach Kindergarten through twelfth grades (K-12) rather than the Secondary Certificate (6-12) that comes with the standard USU Music Education degree. This program is recommended for all Music Education Majors for the following reasons: 1) the additional courses easily fit into the four-year curriculum and 2) having the Music K-12 Endorsement allows better reciprocity for students applying for employment in other states, which may require the K-12 certification. For more information, contact the CCA Advising Center for the coordinator of Music K-12 Endorsement. For specific information regarding coursework required to earn a Band emphasis, please refer to the BM Music Education - Band emphasis degree map.

- For more information about Music Education, see department website here.
- All music majors must pass an audition to be admitted.
- Admitted and current students must meet with an advisor.
- Log on to Degree Works to check student-specific program progress.
- The highest math requirement for this degree is the Quantitative Literacy (QL) of the student's choice.

Admission Requirements for this Program

- **Must** pass entrance audition on primary instrument
- New freshmen: Admitted to USU in Good Standing
- Transfer students from other institutions or other programs at USU: 3.0 GPA

Program Requirements

Total Credits Required In Program Coursework	Total Credits Required To Earn This Credential
99	126

Simple Requisites

Program Requirements

Course Grades and GPA Minimums

To maintain Music Major (and Pre-Music Major) status at USU, students must:

1. **Complete all Individual Instruction (primary instrument) courses with a grade of B- or higher**
    - Any grade lower than B- will result in an extra required semester of Individual Instruction.

- Any subsequent semester in which a student fails to meet this minimum grade may result in dismissal from the music program.

2. **Complete all music major core and emphasis classes with a grade of C or higher**
    - Any music course grade lower than C will not count towards graduation.
    - Core courses may be repeated once in an attempt to earn a grade of C or better.
    - Any subsequent semester in which a student fails to meet this minimum grade may result in dismissal from the music program.
3. **Maintain a 3. 0 cumulative GPA in all courses that fulfill a degree/ emphasis requirement.**
    - This GPA does not include general education and depth courses.
    - This GPA does not include the STEP courses for Music Education majors.
    - If a student's degree/emphasis GPA falls under this minimum, the student will be placed on departmental academic probation for one semester.
    - Inability to meet this degree/emphasis GPA during the probationary period will result in referral to the department head who in consultation with the appropriate faculty member(s) will determine if the student shall be allowed to remain a music major through an extension of the probationary period.

GRADING SCALE for music courses:

93-100 A

90-92. 99 A-

87-89. 99 B+

83-86. 99 B

80-82. 99 B- Lowest grade for individual instruction to fulfill graduation requirements)

77-79. 99 C+

73-76. 99 C Lowest grade for all other program courses to fulfill graduation requirements)

70-72. 99 C-

67-69. 99 D+

60-66. 99 D

59. 99 or below F

Music - Music Education, Band - BM

Type
Completion Requirement

BM Music Education Core Curriculum (44 credits)

Earn a minimum grade of C in the following:

- MUSC1110 - Music Theory I (BCA) - 3cr.
- MUSC1120 - Music Theory II - 3cr.
- MUSC1130 - Aural Skills I - 1cr.
- MUSC1140 - Aural Skills II - 1cr.
- MUSC1170 - Keyboard Harmony I - 1cr.
- MUSC1180 - Keyboard Harmony II - 1cr.
- MUSC1190 - World Music - 3cr.
- MUSC1500 - String Techniques - 1cr.
- MUSC1800 - Percussion Techniques - 1cr.
- MUSC2110 - Music Theory III - 3cr.
- MUSC2130 - Aural Skills III - 1cr.
- MUSC2180 - Computer Applications in Music Proficiency Exam - 1cr.
- MUSC2350 - Conducting - 2cr.
- MUSC2700 - Woodwind Techniques I: Flute, Clarinet - 1cr.
- MUSC3110 - Music History I: Antiquity through the Renaissance - 3cr.
- MUSC3120 - Music History II: The Baroque and Classical Periods - 3cr.
- MUSC3170 - Special Topics in Music Theory - 3cr.
- MUSC3180 - Orchestration - 2cr.
- MUSC3190 - Music History III: Romanticism through the 21st Century (CI) - 3cr.
- MUSC3220 - Choral Methods and Materials - 2cr.
- MUSC3240 - Instrumental Methods and Materials - 2cr.
- MUSC4240 - Advanced Conducting - 2cr.
- MUSC4920 - Senior Recital - 1cr.

NOTE:

MUSC4920 SENIOR RECITAL - 1 credit required.

MUED Band Concentration (23 credits)

All individual instruction courses on major instrument must be passed with a grade of B- or better. All other music concentration courses must be passed with a grade of C or better. Major requirements may *not* be taken pass/fail, except those courses taught only on a pass/fail basis. Minimum GPA for all required program courses is a 3.0.

Fulfill ALL of the following requirements:

Required Courses

Complete ALL of the following Courses:

- MUSC2710 - Woodwind Techniques II: Saxophone, Oboe, Bassoon - 1cr.
- MUSC2800 - High Brass Techniques - 1cr.
- MUSC2810 - Low Brass Techniques - 1cr.
- MUSC3785 - Marching Band (DHA) - 1cr.
- MUSC3900 - Improvisation I - 2cr.

AND

Individual Music Instruction (7 credit minimum)

Fulfill ALL of the following requirements:

Individual Pre-Music Wind/Brass/Percussion Instruction Course Options.

Complete ANY of the following Courses:

- MUSC1705 - Individual Pre-music Flute Instruction - 1cr.
- MUSC1715 - Individual Pre-Music Oboe Instruction - 1cr.
- MUSC1725 - Individual Pre-Music Clarinet Instruction - 1cr.
- MUSC1735 - Individual Pre-Music Bassoon Instruction - 1cr.
- MUSC1745 - Individual Pre-Music Saxophone Instruction - 1cr.
- MUSC1815 - Individual Pre-Music Trumpet Instruction -

1cr.
- MUSC1825 - Individual Pre-Music Trombone Instruction - 1cr.
- MUSC1835 - Individual Pre-music French Horn Instruction - 1cr.
- MUSC1845 - Individual Pre-Music Tuba/Euphonium Instruction - 1cr.
- MUSC1855 - Individual Pre-Music Percussion Instruction - 1cr.

AND

Individual Pre-Barrier Wind/Brass/Percussion Instruction Course Options.

Complete ANY of the following Courses:
- MUSC2755 - Individual Pre-barrier Flute Instruction - 1cr.
- MUSC2765 - Individual Pre-Barrier Oboe Instruction - 1cr.
- MUSC2775 - Individual Pre-Barrier Clarinet instruction - 1cr.
- MUSC2785 - Individual Pre-Barrier Bassoon Instruction - 1cr.
- MUSC2795 - Individual Pre-Barrier Saxophone Instruction - 1cr.
- MUSC2855 - Individual Pre-Barrier Trumpet Instruction - 1cr.
- MUSC2865 - Individual Pre-Barrier Trombone Instruction - 1cr.
- MUSC2875 - Individual Pre-barrier French Horn Instruction - 1cr.
- MUSC2885 - Individual Pre-Barrier Tuba/Euph Instruction - 1cr.
- MUSC2895 - Individual Pre-Barrier Percussion Instruction - 1cr.

AND

Individual Wind/Brass/Percussion Instruction Course Options.

Complete ANY of the following Courses:
- MUSC3710 - Individual Flute Instruction for Music Majors - 1cr.
- MUSC3720 - Individual Oboe Instruction for Music Majors - 1cr.
- MUSC3730 - Individual Clarinet Instruction for Music Majors - 1cr.
- MUSC3740 - Individual Bassoon Instruction for Music Majors - 1cr.
- MUSC3750 - Individual Saxophone Instruction for Music Majors - 1cr.
- MUSC3810 - Individual Trumpet Instruction for Music Majors - 1cr.
- MUSC3820 - Individual Trombone Instruction for Music Majors - 1cr.
- MUSC3830 - Individual French Horn Instruction for Music Majors - 1cr.
- MUSC3840 - Individual Tuba/Euphonium Instruction for Music Majors - 1cr.
- MUSC3860 - Individual Percussion Instruction for Music Majors - 1cr.

AND

Small Ensemble (1 credit)

1 credit of small ensemble is required. Two semesters of the following in an combination will satisfy the requirement.

Earn at least 1 credits from the following:
- MUSC2210 - Advanced Conducting Ensemble - 1cr.
- MUSC3700 - Woodwind Ensemble - 1cr.
- MUSC3760 - Jazz Ensemble - 1cr.
- MUSC3770 - Jazz Orchestra - 1cr.
- MUSC3780 - Flute Ensemble - 1cr.
- MUSC3800 - Low Brass Choir - 1cr.
- MUSC3870 - Percussion Ensemble - 1cr.
- MUSC4710 - Jazz Combo - 1cr.
- MUSC4720 - Saxophone Quartet - 1cr.

AND

Large Ensemble (7 credits)

7 credits of large ensemble are required. Any combination of these two courses will satisfy the requirement.

Earn at least 7 credits from the following:
- MUSC3790 - Symphonic Band (DHA) - 1cr.
- MUSC4700 - Wind Orchestra (DHA) - 1cr.

AND

Choral Ensemble (1 credit)

1 credit of choral ensemble is required. Any one of the following courses will satisfy the requirement.

Complete at least 1 of the following courses:
- MUSC2600 - Sapphire Singers - 1cr.
- MUSC4600 - University Chorale (DHA) - 1cr.

MUSC 1/2/3XXX Individual Instruction for Music Majors on major instrument (Students need to register in 7 semesters of which at least 2 semesters must be upper division (3000 level).)

Music Education STEP (32 credits)

Students must maintain a 3.0 overall GPA and a grade of C or better in all STEP program courses.

Complete ALL of the following Courses:
- ITLS2500 - Technology Enabled Instruction - 3cr.
- MUSC3100 - Motivation and Classroom Management Strategies in Secondary Classroom Music - 3cr.
- MUSC5500 - Seminar for Student Teaching - 2cr.
- MUSC5630 - Student Teaching in the Schools - 10cr.
- SCED3210 - Educational and Multicultural Foundations (DSS/CI) - 3cr.
- SCED3300 - Clinical Experience I - 1cr.
- SCED4300 - Clinical Experience II - 1cr.
- SCED5200 - Language, Literacy, and Learning in the Content Areas (CI) - 3cr.
- SCED5210 - Learning Theory, Curriculum, and Assessment - 3cr.
- SPED4000 - Education of Students with Disabilities - 3cr.

NOTE:

1. SCED3300 CLINICAL EXPERIENCE I - Taken concurrently with MUSC 3220.
2. SCED4300 CLINICAL EXPERIENCE II - Taken concurrently with MUSC3240 INSTRUMENTAL METHODS.

Recital and Concert Attendance Requirement

Complete the following:
To graduate, students are required to attend a minimum of 80 concerts or recitals. Recital and concert attendance is monitored and recorded in the Music Student Services office. Students should turn in programs after attending concerts and recitals for documentation of attendance.

Open Electives

Complete the following as needed:
Total elective credit is determined by General Education courses taken, degree type selected, additional credits earned, and any additional math or other prerequisite courses needed. Please consult your Academic Advisor for details.

Additional Comments:

Licensure Notification

This program typically leads to licensure and was designed to meet licensing qualifications in the state of Utah. If students wish to work in another state within the United States, they should review the qualifications for that state and the Education Licensure Compliance Table provided by School of Teacher Education and Leadership.

For more information, please contact the School of Teacher Education and Leadership at https://cehs.usu.edu/teal/

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Bachelor's Degree)

Suggested Degree Maps

Degree Map Name
Suggested Degree Map - Music: Music Education, Band BM
Total Degree Map Credits
135 - 137
Degree Map Effective Catalog Year
2026 -

Degree Map Narrative

- Following is a sample four-year plan. Please note that student-specific plans may differ.
- Meet with an academic advisor to create a specific plan that best fits your academic needs.
- The student is ultimately responsible for knowing and completing all degree requirements.
- Make sure you meet the registration requirements for each class by clicking the course link and checking any prerequisites or corequisites.
- Consultation with an advisor may result in an altered plan customized for an individual student.
- Check your Degree Works for requirements and completion.

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	16 - 18	0

Requirement Select

- Students with are pre-music majors are expected to enroll in MUSC 1105 during their first semester at USU. The course is intended to prepare students for MUSC 1110 - Music Theory I (BCA). Although the course is not required for graduation, it is expected that students will register for the course and either complete it or test out. Even if testing out, students must register for the course. MUSC 2180 consists of a series of three proficiency exams that all music majors must complete prior to the completion of four semesters of study. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- ENGL1010 - Writing as Inquiry (CL1)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- MUSC1105 - Fundamentals for Music Majors (BCA)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- MUSC1170 - Keyboard Harmony I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- MUSC2180 - Computer Applications in Music Proficiency Exam

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- MUSC3785 - Marching Band (DHA)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- MUSC1800 - Percussion Techniques

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- MUSC2700 - Woodwind Techniques I: Flute, Clarinet
  OR
- MUSC1500 - String Techniques

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- MUSC3790 - Symphonic Band (DHA)
  OR
- MUSC4700 - Wind Orchestra (DHA)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- Quantitative Literacy (QL) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 5
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Individual Pre-Music Wind/Brass/Percussion Instruction (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	17	0

Requirement Select

- MUSC1110 - Music Theory I (BCA)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- MUSC1130 - Aural Skills I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- MUSC1180 - Keyboard Harmony II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- MUSC1190 - World Music

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- MUSC1500 - String Techniques

  OR
- If MUSC1500 was not taken first year (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- MUSC3790 - Symphonic Band (DHA)

  OR
- MUSC4700 - Wind Orchestra (DHA)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- Individual Pre-Music Wind/Brass/Percussion Instruction (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Breadth Life Sciences (BLS) Course

  OR
- Breadth Physical Sciences (BPS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Breadth Life Sciences (BLS) Course
  OR
- Breadth Physical Sciences (BPS) Course
  OR
- Breadth Social Sciences (BSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	17	0

Requirement Select

- Apply for STEP during sophomore year. ITLS 2500 must be taken summer after second or third year to satisfy STEP requirements but not exceed 18 credit tuition plateau limit. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- ENGL2010 - Research and Argument Across Perspectives (CL2)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- MUSC1120 - Music Theory II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- MUSC1140 - Aural Skills II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- MUSC3785 - Marching Band (DHA)
  OR
- Take 2 semesters minimum. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- MUSC2800 - High Brass Techniques

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- MUSC3100 - Motivation and Classroom Management Strategies in Secondary Classroom Music

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- MUSC3110 - Music History I: Antiquity through the Renaissance

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Individual Pre-Barrier Wind/Brass/Percussion Instruction (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- MUSC3790 - Symphonic Band (DHA)

OR

- MUSC4700 - Wind Orchestra (DHA)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	18	0

Requirement Select

- Apply for STEP during sophomore year. Spring MUSC 2210 is a lab course for MUSC 4240 Advanced Conducting (Choral). Band emphasis students can satisfy the choral ensemble requirement by registering in the spring and singing in the practice choir. Fall MUSC 4240 is Advanced Conducting (Instrumental), and is required for the Band emphasis degree. ITLS 2500 must be taken summer after second or third year to satisfy STEP requirements but not exceed 18 credit tuition plateau limit. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- MUSC2110 - Music Theory III

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- MUSC2130 - Aural Skills III

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- MUSC2350 - Conducting

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select

- MUSC3120 - Music History II: The Baroque and Classical Periods

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- HDFS1500 - Human Development Across the Lifespan (BSS)
  OR
- HDFS1500 is recommended for Dual Licensure; see note below. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- MUSC2600 - Sapphire Singers
  OR
- MUSC4600 - University Chorale (DHA)
  OR
- MUSC2210 - Advanced Conducting Ensemble

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- MUSC 2210 lab ensemble for MUSC 4240 (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- MUSC3790 - Symphonic Band (DHA)
  OR
- MUSC4700 - Wind Orchestra (DHA)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- Quantitative Intensive (QI) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Individual Music Instruction (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Fall	17	0

Requirement Select

- A music theory elective course is offered every fall and spring semester. The music theory elective course may be taken any semester after completing MUSC 2110 with a grade of C or better. Music students should plan which option they wish to take and consult with the music department office regarding which semester that option will be offered. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- MUSC3170 - Special Topics in Music Theory

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- MUSC3190 - Music History III: Romanticism through the 21st Century (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- MUSC3220 - Choral Methods and Materials

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select

- SCED3300 - Clinical Experience I

  OR
- SCED3300 Must be taken concurrently with MUSC 3220 or MUSC 3240 (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- SPED4000 - Education of Students with Disabilities

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- MUSC3790 - Symphonic Band (DHA)

  OR
- MUSC4700 - Wind Orchestra (DHA)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- Breadth Humanities (BHU) Course

  OR
- Breadth American Institutions (BAI) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Individual Music Instruction course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Spring	16	0

Requirement Select

- MUSC2710 - Woodwind Techniques II: Saxophone, Oboe, Bassoon

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- MUSC2810 - Low Brass Techniques

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- SCED3210 - Educational and Multicultural Foundations (DSS/CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- MUSC3240 - Instrumental Methods and Materials

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select

- MUSC3900 - Improvisation I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select

- SCED4300 - Clinical Experience II

  OR
- SCED4300 must be taken concurrently with MUSC 3220 or MUSC 3240 (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- MUSC3790 - Symphonic Band (DHA)

  OR
- MUSC4700 - Wind Orchestra (DHA)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- Breadth Humanities (BHU) Course

OR

- Breadth American Institutions (BAI) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Individual Music Instruction course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Small Ensemble course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Fall	16	0

Requirement Select

- MUSC3180 - Orchestration

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select

- MUSC4240 Instrumental Conducting version (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- MUSC4240 - Advanced Conducting

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select

- MUSC4920 1 credit minimum (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- MUSC4920 - Senior Recital

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1 - 2
Clinical	-
Criticality	No

Requirement Select

- SCED5200 - Language, Literacy, and Learning in the Content Areas (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- SCED5210 - Learning Theory, Curriculum, and Assessment

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- MUSC3790 - Symphonic Band (DHA)

  OR
- MUSC4700 - Wind Orchestra (DHA)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- Depth Life and Physical Sciences (DSC) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Individual Music Instruction course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Spring	18	0

Requirement Select

- MUSC5500 - Seminar for Student Teaching

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select

- MUSC5630 - Student Teaching in the Schools

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	10
Progress Credits	-
Contact Hours	10
Clinical	-
Criticality	No

Requirement Select

- Dual Licensure Note: Dual Licensure (Recommended) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- PSY1100 - Lifespan Development
  OR
- HDFS1500 - Human Development Across the Lifespan (BSS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- MUSC3260 - Elementary School Music

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Level 1 Orff Schulwerk Teacher Education Workshop (offered every summer) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Program Learning Outcomes

Program Learning Outcomes

https://artsci.usu.edu/assessments/

Music: Music Education, Choral - BM

Program Overview

College	Department	Program Level
College of Arts & Sciences	Music	Undergraduate

About this Degree

The Choral Education Program at USU offers students the opportunity to become some of the country's finest choral educators. Students participate in vigorous coursework and first class ensembles. Included are courses in choral and instrumental methods and conducting, choral literature, instrumental techniques, secondary education and pedagogy and a semester of student teaching experience. Upon graduating, the student will have received a well-rounded education that has prepared them to teach both choral and instrumental ensembles. Students also have an opportunity to sing in one of USU's acclaimed choral ensembles. The Bachelor of Music in Choral Education is a 4-year degree with the option of Dual Licensure for K-12.

Program Specifics

USU offers students in Music Education degrees the option of completing the Music K-12 Endorsement, which affords graduates a credential to teach Kindergarten through twelfth grades (K-12) rather than the Secondary Certificate (6-12) that comes with the standard USU Music Education degree. This program is recommended for all Music Education Majors for the following reasons: 1) the additional courses easily fit into the four-year curriculum and 2) having the Music K-12 Endorsement allows better reciprocity for students applying for employment in other states, which may require the K-12 certification. For more information, contact CCA Advising Center, for the coordinator of Music K-12 Endorsement. For specific information regarding coursework required to earn a Choral emphasis, please refer to the BM Music Education - Choral emphasis degree map.

- For more information about Music Education, see department website.
- All music majors must pass an audition to be admitted.
- Admitted and current students must meet with an advisor.
- Log on to Degree Works to check student-specific program progress.
- The highest math requirement for this degree is the Quantitative Literacy (QL)of the student's choice.

Admission Requirements for this Program

- **Must** pass an entrance audition on primary instrument
- New freshmen: Admitted to USU in Good Standing
- Transfer students from other institutions or other programs at USU: 3.0 GPA

Program Requirements

Total Credits Required In Program Coursework	Total Credits Required To Earn This Credential
97	126

Simple Requisites

Program Requirements

Course Grades and GPA Minimums

- To maintain Music Major (and Pre-Music Major) status at USU, students must:
    1. **Complete all Individual Instruction (primary instrument) courses with a grade of B- or higher**
        - Any grade lower than B- will result in an extra required semester of Individual Instruction.
        - Any subsequent semester in which a student fails to meet this minimum grade may result in dismissal from the music program.
    2. **Complete all music major core and emphasis classes with a grade of C or higher**
        - Any music course grade lower than C will not count towards graduation.
        - Core courses may be repeated once in an attempt to earn a grade of C or better.
        - Any subsequent semester in which a student fails to meet this minimum grade may result in dismissal from the music program.
    3. **Maintain a 3.0 cumulative GPA in all courses that fulfill a degree/emphasis requirement.**
        - This GPA does not include general education and depth courses.
        - This GPA does not include the STEP courses for Music Education majors.
        - If a student's degree/emphasis GPA falls under this minimum, the student will be placed on departmental academic probation for one semester.
        - Inability to meet this degree/emphasis GPA during the probationary period will result in referral to the department head who in consultation with the appropriate faculty member(s) will determine if the student shall be allowed to remain a music major through an extension of the probationary period.

GRADING SCALE for music courses:

93-100 A

90-92.99 A-

87-89.99 B+

83-86.99 B

80-82.99 B- Lowest grade for individual instruction to fulfill graduation requirements)

77-79.99 C+

73-76.99 C Lowest grade for all other program courses to fulfill graduation requirements)

70-72.99 C-

67-69.99 D+

60-66.99 D

59.99 or below F

Music - Music Education, Choral - BM

Type
Completion Requirement

BM Music Education Core Curriculum (44 credits)

Earn a minimum grade of C in the following:

- MUSC1110 - Music Theory I (BCA) - 3cr.
- MUSC1120 - Music Theory II - 3cr.
- MUSC1130 - Aural Skills I - 1cr.
- MUSC1140 - Aural Skills II - 1cr.
- MUSC1170 - Keyboard Harmony I - 1cr.
- MUSC1180 - Keyboard Harmony II - 1cr.
- MUSC1190 - World Music - 3cr.
- MUSC1500 - String Techniques - 1cr.
- MUSC1800 - Percussion Techniques - 1cr.
- MUSC2110 - Music Theory III - 3cr.
- MUSC2130 - Aural Skills III - 1cr.
- MUSC2180 - Computer Applications in Music Proficiency Exam - 1cr.
- MUSC2350 - Conducting - 2cr.
- MUSC2700 - Woodwind Techniques I: Flute, Clarinet - 1cr.
- MUSC3110 - Music History I: Antiquity through the Renaissance - 3cr.
- MUSC3120 - Music History II: The Baroque and Classical Periods - 3cr.
- MUSC3170 - Special Topics in Music Theory - 3cr.
- MUSC3180 - Orchestration - 2cr.
- MUSC3190 - Music History III: Romanticism through the 21st Century (CI) - 3cr.
- MUSC3220 - Choral Methods and Materials - 2cr.
- MUSC3240 - Instrumental Methods and Materials - 2cr.
- MUSC4240 - Advanced Conducting - 2cr.
- MUSC4920 - Senior Recital - 1cr.

NOTE:

1. MUSC4920 SENIOR RECITAL - 1 credit required.

Music Education Choral Concentration (21 credits)

All individual instruction courses on major instrument must be passed with a grade of B- or better. All other music concentration courses must be passed with a grade of C or better. Major requirements may *not* be taken for a pass/fail grade, except those courses which are only taught on a pass/fail basis. Minimum GPA for all required music program courses is 3.0.

Fulfill ALL of the following requirements:

Required Courses

Complete ALL of the following Courses:

- MUSC3230 - Choral Literature - 2cr.
- MUSC3630 - Vocal Pedagogy I - 3cr.

NOTE:

MUSC3630 VOCAL PEDAGOGY I - Is offered every other year. Should be taken fall semester of either third or fourth year.

AND

Individual Vocal Instruction for Music Majors (7 credits minimum)

Students need 7 semesters of individual study to graduate, for a minimum of 7 credits.

Earn at least 7 credits from the following:

- MUSC1635 - Individual Pre-Music Voice Instruction - 1cr.
- MUSC2645 - Individual Pre-Barrier Voice Instruction - 1cr.
- MUSC3670 - Individual Vocal Instruction for Music Majors - 1cr.

NOTE:

1. MUSC1635 VOICE INSTR-PREMUSIC - First and second semesters in program.
2. MUSC2645 VOICE INSTR-PREBARRIER - Third semester in program.
3. MUSC3670 VOCAL INSTR - Fourth through seventh semesters of study.

AND

Large Ensemble (7 credits)

7 credits of large ensemble are required. Any combination of these three courses will satisfy the requirement.

Earn at least 7 credits from the following:

- MUSC2600 - Sapphire Singers - 1cr.
- MUSC4600 - University Chorale (DHA) - 1cr.
- MUSC4650 - Chamber Singers (DHA) - 1cr.

AND

Brass/Woodwind Techniques (2 credits)

Students may take MUSC2710 WOODWIND TECHNIQUES II for their own enrichment, but it is not required.

Complete ANY of the following Courses:

- MUSC2700 - Woodwind Techniques I: Flute, Clarinet - 1cr.
- MUSC2800 - High Brass Techniques - 1cr.
  OR MUSC2810 - Low Brass Techniques - 1cr.

Music Education STEP (32 credits)

Students must maintain a 3.0 overall GPA and a grade of C or better in all STEP program courses

Complete ALL of the following Courses:

- ITLS2500 - Technology Enabled Instruction - 3cr.
- MUSC3100 - Motivation and Classroom Management Strategies in Secondary Classroom Music - 3cr.
- MUSC5500 - Seminar for Student Teaching - 2cr.
- MUSC5630 - Student Teaching in the Schools - 10cr.
- SCED3210 - Educational and Multicultural Foundations (DSS/CI) - 3cr.
- SCED3300 - Clinical Experience I - 1cr.
- SCED4300 - Clinical Experience II - 1cr.
- SCED5200 - Language, Literacy, and Learning in the Content Areas (CI) - 3cr.
- SCED5210 - Learning Theory, Curriculum, and Assessment - 3cr.
- SPED4000 - Education of Students with Disabilities - 3cr.

NOTE:

1. SCED3300 CLINICAL EXPERIENCE I - Taken concurrently with MUSC3220 CHORAL METHODS AND MATERIALS.
2. SCED4300 CLINICAL EXPERIENCE II - Taken concurrently with MUSC3240 INSTRUMENTAL METHODS.

Recital and Concert Attendance Requirement

Complete the following:
To graduate, students are required to attend a minimum of 80 concerts or recitals. Recital and concert attendance is monitored and recorded in the Music Student Services office. Students should turn in programs after attending concerts and recitals for documentation of attendance.

Open Electives

Complete the following as needed:
Total elective credit is determined by General Education courses taken, degree type selected, additional credits earned, and any additional math or other prerequisite courses needed. Please consult your Academic Advisor for details.

Additional Comments:

Licensure Notification

This program typically leads to licensure and was designed to meet licensing qualifications in the state of Utah. If students wish to work in another state within the United States, they should review the qualifications for that state and the Education Licensure Compliance Table provided by School of Teacher Education and Leadership.

For more information, please contact the School of Teacher Education and Leadership at https://cehs.usu.edu/teal/

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Bachelor's Degree)

Suggested Degree Maps

Degree Map Name
Suggested Degree Map: Music: Music Education, Choral BM
Total Degree Map Credits
135 - 138
Degree Map Effective Catalog Year
2027 -

Degree Map Narrative

- Following is a sample four-year plan. Please note that student-specific plans may differ.
- Meet with an academic advisor to create a specific plan that best fits your academic needs.
- The student is ultimately responsible for knowing and completing all degree requirements.
- Make sure you meet the registration requirements for each class by clicking the course link and checking any prerequisites or corequisites.
- Consultation with an advisor may result in an altered plan customized for an individual student.
- Check your Degree Works for requirements and completion.

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	14	0

Requirement Select

- Students with are pre-music majors are expected to enroll in MUSC 1105 during their first semester at USU. The course is intended to prepare students for MUSC 1110 - Music Theory I (BCA). Although the course is not required for graduation, it is expected that students will register for the course and either complete it or test out. Even if testing out, students must register for the course. MUSC 2180 consists of a series of three proficiency exams that all music majors must complete prior to the completion of four semesters of study. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- ENGL1010 - Writing as Inquiry (CL1)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- MUSC1105 - Fundamentals for Music Majors (BCA)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- MUSC1170 - Keyboard Harmony I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- MUSC1500 - String Techniques

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- MUSC2180 - Computer Applications in Music Proficiency Exam

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- Register for 1 credit of MUSC1635 (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- MUSC1635 - Individual Pre-Music Voice Instruction

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1 - 2
Clinical	-
Criticality	No

Requirement Select

- MUSC2600 - Sapphire Singers
  OR
- MUSC4600 - University Chorale (DHA)
  OR
- MUSC4650 - Chamber Singers (DHA)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- Quantitative Literacy (QL) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	17	0

Requirement Select

- ENGL2010 - Research and Argument Across Perspectives (CL2)
  OR
- ENGL2020 - Professional Communication (CL2)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- MUSC1110 - Music Theory I (BCA)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- MUSC1130 - Aural Skills I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- MUSC1180 - Keyboard Harmony II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- MUSC1190 - World Music

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Register for 1 credit of MSUC1635 (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- MUSC1635 - Individual Pre-Music Voice Instruction

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1 - 2
Clinical	-
Criticality	No

Requirement Select

- MUSC1800 - Percussion Techniques

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- MUSC2600 - Sapphire Singers

  OR
- MUSC4600 - University Chorale (DHA)

  OR
- MUSC4650 - Chamber Singers (DHA)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- Breadth Physical Sciences (BPS) Course

  OR
- Breadth Life Sciences (BLS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	16 - 17	0

Requirement Select

- Apply for STEP during second year. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- MUSC1120 - Music Theory II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- MUSC1140 - Aural Skills II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- MUSC2645 - Individual Pre-Barrier Voice Instruction

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1 - 2
Progress Credits	-
Contact Hours	1 - 2
Clinical	-
Criticality	No

Requirement Select

- MUSC2700 - Woodwind Techniques I: Flute, Clarinet

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- MUSC3100 - Motivation and Classroom Management Strategies in Secondary Classroom Music

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- MUSC3110 - Music History I: Antiquity through the Renaissance

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- MUSC2600 - Sapphire Singers
  OR
- MUSC4600 - University Chorale (DHA)
  OR
- MUSC4650 - Chamber Singers (DHA)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- Breadth Physical Sciences (BPS) Course
  OR
- Breadth Life Sciences (BLS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	17 - 18	0

Requirement Select

- Apply for STEP during second year. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- MUSC2110 - Music Theory III

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- MUSC2130 - Aural Skills III

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- MUSC2350 - Conducting

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select

- MUSC3120 - Music History II: The Baroque and Classical Periods

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Register for 1 credit of MUSC3670 (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- MUSC3670 - Individual Vocal Instruction for Music Majors

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1 - 2
Progress Credits	-
Contact Hours	1 - 2
Clinical	-
Criticality	No

Requirement Select

- MUSC2600 - Sapphire Singers
  OR
- MUSC4600 - University Chorale (DHA)
  OR
- MUSC4650 - Chamber Singers (DHA)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- Quantitative Intensive (QI) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Breadth Social Sciences (BSS) Course
  OR
- (HDFS 1500 recommended for Dual Licensure) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Fall	17 - 18	0

Requirement Select

- A music theory elective course is offered every fall and spring semester. The music theory elective course may be taken any semester after completing MUSC 2110 with a grade of C or better. Music students should plan which option they wish to take and consult with the music department office regarding which semester that option will be offered. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- MUSC3170 - Special Topics in Music Theory

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- MUSC3190 - Music History III: Romanticism through the 21st Century (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- MUSC3220 - Choral Methods and Materials

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select

- Must take SCED3300 concurrently with MUSC 3220 or MUSC 3240 (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- SCED3300 - Clinical Experience I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- MUSC3670 - Individual Vocal Instruction for Music Majors

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1 - 2
Progress Credits	-
Contact Hours	1 - 2
Clinical	-
Criticality	No

Requirement Select

- MUSC2600 - Sapphire Singers
  OR
- MUSC4600 - University Chorale (DHA)
  OR
- MUSC4650 - Chamber Singers (DHA)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- One of the following (MUSC 3630 is taught alternate years. Register for ITLS 2500 the year MUSC 3630 is not offered): (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- MUSC3630 - Vocal Pedagogy I

  OR
- ITLS2500 - Technology Enabled Instruction

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Depth Life and Physical Sciences (DSC) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Spring	18	0

Requirement Select

- MUSC3180 - Orchestration

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select

- MUSC3230 - Choral Literature

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select

- MUSC3240 - Instrumental Methods and Materials

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select

- Register for 1 credit of MUSC3670 (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- MUSC3670 - Individual Vocal Instruction for Music Majors

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1 - 2
Clinical	-
Criticality	No

Requirement Select

- SCED3210 - Educational and Multicultural Foundations (DSS/CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- MUSC4240 - Advanced Conducting

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select

- Must be taken concurrently with MUSC 3220 or MUSC 3240 (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- SCED4300 - Clinical Experience II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- MUSC2600 - Sapphire Singers
  OR
- MUSC4600 - University Chorale (DHA)
  OR
- MUSC4650 - Chamber Singers (DHA)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- MUSC2810 - Low Brass Techniques
  OR
- MUSC2800 - High Brass Techniques

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- Breadth Humanities (BHU) Course
  OR
- Breadth American Institutions (BAI) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Fall	18	0

Requirement Select

- Register for 1 credit of MUSC3670. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- MUSC3670 - Individual Vocal Instruction for Music Majors

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1 - 2
Clinical	-
Criticality	No

Requirement Select

- SPED4000 - Education of Students with Disabilities

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Register for 1 credit of MUSC4920 (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- MUSC4920 - Senior Recital

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1 - 2
Clinical	-
Criticality	No

Requirement Select

- SCED5200 - Language, Literacy, and Learning in the Content Areas (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- SCED5210 - Learning Theory, Curriculum, and Assessment

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- MUSC2600 - Sapphire Singers
  OR
- MUSC4600 - University Chorale (DHA)
  OR
- MUSC4650 - Chamber Singers (DHA)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- MUSC3630 - Vocal Pedagogy I
  OR
- ITLS5500 - Integration and Innovation of Technology in Education

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Breadth Humanities (BHU) Course
  OR
- Breadth American Institutions (BAI) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Spring	18	0

Requirement Select

- For more information about the K-12 Endorsement, please go to music.usu.edu/students/dualcertification. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- SCED5500 - Student Teaching Seminar

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select

- MUSC5630 - Student Teaching in the Schools

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	10
Progress Credits	-
Contact Hours	10
Clinical	-
Criticality	No

Requirement Select

- Dual-Licensure Note: Dual Licensure (Recommended): (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- PSY1100 - Lifespan Development
  OR
- HDFS1500 - Human Development Across the Lifespan (BSS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- MUSC3260 - Elementary School Music

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Level 1 Orff Schulwerk Teacher Education Workshop (offered every summer) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Program Learning Outcomes

Program Learning Outcomes

https://artsci.usu.edu/assessments/

Music: Music Education, Guitar - BM

Program Overview

College	Department	Program Level
College of Arts & Sciences	Music	Undergraduate

About this Degree

Program Specifics

There is a long history of guitar education at Utah State University. Students are required to take classes in guitar pedagogy, instrumental methods, educational practices, guitar performance, and to participate in university ensembles. Ensembles include acoustic and electric guitar ensembles, jazz combo, jazz big band, and choirs.

Our guitar pedagogy class prepares future teachers by introducing them to important guitar literature and method books for studio and classroom teaching. It also give future teachers ideas about sequencing classes and material, teaching in private lesson or group settings, and how to navigate the day-to-day aspects of being a guitar teacher. This class and many others including the Guitar Styles classes, Guitar History, and ensembles have been thoughtfully designed to make you a great teacher.

- For more information about the Music Education program, see the department website.
- All music majors must pass an audition to be admitted.
- Admitted and current students must meet with an advisor.
- Log on to Degree Works to check student-specific program progress.
- The highest math requirement for this degree is the Quantitative Literacy (QL) General Education Requirementsof the student's choice.

Admission Requirements for this Program

- **Must** pass entrance audition on primary instrument
- New freshmen: Admitted to USU in Good Standing
- Transfer students from other institutions or other programs at USU: 3.0 GPA

Program Requirements

Total Credits Required In Program Coursework	Total Credits Required To Earn This Credential
100	126

Simple Requisites

Program Requirements

Course Grades and GPA Minimums

To maintain Music Major (and Pre-Music Major) status at USU, students must:

1. **Complete all Individual Instruction (primary instrument) courses with a grade of B- or higher.**
    - Any grade lower than B- will result in an extra required semester of Individual Instruction.
    - Any subsequent semester in which a student fails to meet this minimum grade may result in dismissal from the music program.

2. **Complete all music major core and emphasis classes with a grade of C or higher**
    - Any music course grade lower than C will not count towards graduation.
    - Core courses may be repeated once in an attempt to earn a grade of C or better.
    - Any subsequent semester in which a student fails to meet this minimum grade may result in dismissal from the music program.
3. **Maintain a 3. 0 cumulative GPA in all courses that fulfill a degree/ emphasis requirement.**
    - This GPA does not include general education and depth courses.
    - This GPA does not include the STEP courses for Music Education majors.
    - If a student's degree/emphasis GPA falls under this minimum, the student will be placed on departmental academic probation for one semester.
    - Inability to meet this degree/emphasis GPA during the probationary period will result in referral to the department head who in consultation with the appropriate faculty member(s) will determine if the student shall be allowed to remain a music major through an extension of the probationary period.

GRADING SCALE for music courses:

93-100 A

90-92. 99 A-

87-89. 99 B+

83-86. 99 B

80-82. 99 B- Lowest grade for individual instruction to fulfill graduation requirements)

77-79. 99 C+

73-76. 99 C Lowest grade for all other program courses to fulfill graduation requirements)

70-72. 99 C-

67-69. 99 D+

60-66. 99 D

59. 99 or below F

Music: Music Education, Guitar - BM

Type

Completion Requirement

BM Music Education Core Curriculum (44 credits)

A minimum grade of a "C" is required for all Music Education Core Curriculum courses.

Complete ALL of the following Courses:

- MUSC1110 - Music Theory I (BCA) - 3cr.
- MUSC1120 - Music Theory II - 3cr.
- MUSC1130 - Aural Skills I - 1cr.
- MUSC1140 - Aural Skills II - 1cr.
- MUSC1170 - Keyboard Harmony I - 1cr.
- MUSC1180 - Keyboard Harmony II - 1cr.
- MUSC1190 - World Music - 3cr.
- MUSC1500 - String Techniques - 1cr.
- MUSC1800 - Percussion Techniques - 1cr.
- MUSC2110 - Music Theory III - 3cr.
- MUSC2130 - Aural Skills III - 1cr.
- MUSC2180 - Computer Applications in Music Proficiency Exam - 1cr.
- MUSC2350 - Conducting - 2cr.
- MUSC2700 - Woodwind Techniques I: Flute, Clarinet - 1cr.
- MUSC3110 - Music History I: Antiquity through the Renaissance - 3cr.
- MUSC3120 - Music History II: The Baroque and Classical Periods - 3cr.
- MUSC3170 - Special Topics in Music Theory - 3cr.
- MUSC3180 - Orchestration - 2cr.
- MUSC3190 - Music History III: Romanticism through the 21st Century (CI) - 3cr.
- MUSC3220 - Choral Methods and Materials - 2cr.
- MUSC3240 - Instrumental Methods and Materials - 2cr.
- MUSC4240 - Advanced Conducting - 2cr.
- MUSC4920 - Senior Recital - 1cr.

NOTE:

1. MUSC4920 SENIOR RECITAL - 1 credit required.

Guitar Requirements (24 credits)

All individual instruction courses on major instrument must be passed with a grade of B- or better. All other music concentration courses must be passed with a grade of C or better. Major requirements may *not* be taken for a pass/fail grade, except those courses which are only taught on a pass/ fail basis. Minimum GPA for all required music program courses as well as STEP courses is 3.0. An overall minimum GPA of 3.0 is required for graduation.

Fulfill ALL of the following requirements:

Required Courses

Complete ALL of the following Courses:

- MUSC2550 - Guitar Styles: Blues - 2cr.
  OR MUSC2560 - Guitar Styles: Bluegrass/Folk - 2cr.
- MUSC2570 - Fingerboard Theory I - 2cr.
- MUSC2580 - Fingerboard Theory II - 2cr.
- MUSC3570 - Guitar Pedagogy I - 2cr.
- MUSC3580 - Guitar Pedagogy II - 2cr.

NOTE:

1. MUSC3570 GUITAR PEDAGOGY I and MUSC3580 GUITAR PEDAGOGY II - Are offered alternate years.

AND

Individual Instruction (7 credits)

Earn at least 7 credits from the following:

- MUSC1585 - Individual Pre-music Guitar Instruction - 1cr.
- MUSC2595 - Individual Pre-Barrier Guitar Instruction - 1cr.
- MUSC3550 - Individual Guitar Instruction for Music Majors - 1cr.

NOTE:

1. MUSC1585 GUITAR INSTR-PREMUSIC - First year fall and spring, 2 credits.

2. MUSC2595 GUITAR INSTR-PREBARRIER - Second year fall semester, 1 credit.
3. MUSC3550 GUITAR INSTR - Second year spring through fourth year fall semesters, 4 credits total.

AND

Large Ensemble (3 credits)

3 credits minimum of Large Ensemble are required. Any combinations of these two courses satisfies the requirement.

Earn at least 3 credits from the following:

- MUSC2600 - Sapphire Singers - 1cr.
- MUSC4600 - University Chorale (DHA) - 1cr.

AND

Choral Ensemble (1 credit)

1 credit of choral ensemble is required. Any one of these courses will satisfy the requirement.

Earn at least 1 credits from the following:

- MUSC2600 - Sapphire Singers - 1cr.
- MUSC4600 - University Chorale (DHA) - 1cr.

AND

Brass/Woodwind Techniques (2 credits)

It is recommended to take MUSC2700 WOODWIND TECHNIQUES I second year fall and MUSC2800 HIGH BRASS TECHNIQUES fourth year fall.

Complete ALL of the following Courses:

- MUSC2700 - Woodwind Techniques I: Flute, Clarinet - 1cr.
- MUSC2800 - High Brass Techniques - 1cr.
  OR MUSC2810 - Low Brass Techniques - 1cr.

Music Education STEP (32 credits)

Students must maintain a 3.0 overall GPA and a grade of C or better in all STEP program courses.

Complete ALL of the following Courses:

- ITLS2500 - Technology Enabled Instruction - 3cr.
- MUSC3100 - Motivation and Classroom Management Strategies in Secondary Classroom Music - 3cr.
- MUSC5500 - Seminar for Student Teaching - 2cr.
- MUSC5630 - Student Teaching in the Schools - 10cr.
- SCED3210 - Educational and Multicultural Foundations (DSS/CI) - 3cr.
- SCED3300 - Clinical Experience I - 1cr.
- SCED4300 - Clinical Experience II - 1cr.
- SCED5200 - Language, Literacy, and Learning in the Content Areas (CI) - 3cr.
- SCED5210 - Learning Theory, Curriculum, and Assessment - 3cr.
- SPED4000 - Education of Students with Disabilities - 3cr.

NOTE:

1. SCED3300 CLINICAL EXPERIENCE I - Taken concurrently with MUSC3220 CHORAL METHODS AND MATERIALS.
2. SCED4300 CLINICAL EXPERIENCE II - Taken concurrently with MUSC3240 INSTRUMENTAL METHODS.

Recital and Concert Attendance Requirement

Complete the following:
To graduate, students are required to attend a minimum of 80 concerts or recitals. Recital and concert attendance is monitored and recorded in the Music Student Services office. Students should turn in programs after attending concerts and recitals for documentation of attendance.

Open Electives

Complete the following as needed:
To graduate, students are required to attend a minimum of 80 concerts or recitals. Recital and concert attendance is monitored and recorded in the Music Student Services office. Students should turn in programs after attending concerts and recitals for documentation of attendance.

Additional Comments:

Licensure Notification

This program typically leads to licensure and was designed to meet licensing qualifications in the state of Utah. If students wish to work in another state within the United States, they should review the qualifications for that state and the Education Licensure Compliance Table provided by School of Teacher Education and Leadership.

For more information, please contact the School of Teacher Education and Leadership at https://cehs.usu.edu/teal/

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Bachelor's Degree)

Suggested Degree Maps

Degree Map Name
Suggested Degree Map - Music: Music Education, Guitar - BM
Total Degree Map Credits
131 - 141
Degree Map Effective Catalog Year
2026 -

Degree Map Narrative

- Following is a sample four-year plan. Please note that student-specific plans may differ.
- Meet with an academic advisor to create a specific plan that best fits your academic needs.
- The student is ultimately responsible for knowing and completing all degree requirements.
- Make sure you meet the registration requirements for each class by clicking the course link and checking any prerequisites or corequisites.
- Consultation with an advisor may result in an altered plan customized for an individual student.
- Check your Degree Works for requirements and completion.

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	16 - 18	0

Requirement Select

- Students that are pre-music majors are expected to enroll in MUSC 1105 during their first semester at USU. The course is intended to prepare students for MUSC 1110 - Music Theory I (BCA). Although the course is not required for graduation, it is expected that students will register for the course and either complete it or test out. Even if testing out, students must register for the course. MUSC 2180 consists of a series of three proficiency exams that all music majors must complete prior to the completion of four semesters of study. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- ENGL1010 - Writing as Inquiry (CL1)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- MUSC1105 - Fundamentals for Music Majors (BCA)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- MUSC1170 - Keyboard Harmony I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- MUSC2180 - Computer Applications in Music Proficiency Exam

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- MUSC2570 - Fingerboard Theory I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select

- MUSC2700 - Woodwind Techniques I: Flute, Clarinet

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- Register for 1 credit of MUSC1585 (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- MUSC1585 - Individual Pre-music Guitar Instruction

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1 - 2
Clinical	-
Criticality	No

Requirement Select

- MUSC3590 - Electric Guitar Ensemble

  OR
- MUSC4550 - Acoustic Guitar Ensemble

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- Quantitative Literacy (QL) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 5
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	17	0

Requirement Select

- ENGL2010 - Research and Argument Across Perspectives (CL2)

  OR
- ENGL2020 - Professional Communication (CL2)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- MUSC1110 - Music Theory I (BCA)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- MUSC1130 - Aural Skills I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- MUSC1180 - Keyboard Harmony II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- MUSC1190 - World Music

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- MUSC2580 - Fingerboard Theory II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select

- Register for 1 credit of MUSC1585 (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- MUSC1585 - Individual Pre-music Guitar Instruction

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1 - 2
Clinical	-
Criticality	No

Requirement Select

- MUSC1800 - Percussion Techniques

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- MUSC2350 - Conducting

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	17	0

Requirement Select

- Apply for STEP during sophomore year. ITLS 2500 must be taken summer after second or third year to satisfy STEP requirements but not exceed 18 credit tuition plateau limit. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- MUSC1120 - Music Theory II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- MUSC1140 - Aural Skills II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- MUSC3110 - Music History I: Antiquity through the Renaissance

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Register for 1 credit of MUSC2595 (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- MUSC2595 - Individual Pre-Barrier Guitar Instruction

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1 - 2
Clinical	-
Criticality	No

Requirement Select

- MUSC3590 - Electric Guitar Ensemble
  OR
- MUSC4550 - Acoustic Guitar Ensemble

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- One of the following (MUSC 3570 is offered every other year. Check schedule for availability): (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- MUSC3570 - Guitar Pedagogy I
  OR
- MUSC2550 - Guitar Styles: Blues

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select

- MUSC3100 - Motivation and Classroom Management Strategies in Secondary Classroom Music

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Breadth Life Sciences (BLS) Course
  OR
- Breadth Physical Sciences (BPS) Course
  OR
- Breadth Social Sciences (BSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- (HDFS 1500 recommended to satisfy Dual Licensure) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	15 - 17	0

Requirement Select

- *Spring MUSC 2210 is the lab course for MUSC 4240 Advanced Conducting (Choral). Guitar emphasis students can satisfy the choral ensemble requirement by registering in the spring and singing in the practice choir. Fall MUSC 4240 is Advanced Conducting (Instrumental), and is required for the Guitar emphasis degree. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Apply for STEP during sophomore year. ITLS 2500 must be taken summer after second or third year to satisfy STEP requirements but not exceed 18 credit tuition plateau limit. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- MUSC2110 - Music Theory III

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- MUSC2130 - Aural Skills III

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- MUSC3120 - Music History II: The Baroque and Classical Periods

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- MUSC3550 - Individual Guitar Instruction for Music Majors

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1 - 2
Clinical	-
Criticality	No

Requirement Select

- MUSC2600 - Sapphire Singers
- **AND** MUSC3580 - Guitar Pedagogy II
  OR
- MUSC4600 - University Chorale (DHA)
  OR
- MUSC2210 - Advanced Conducting Ensemble

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1 - 3
Progress Credits	-
Contact Hours	1 - 3
Clinical	-
Criticality	No

Requirement Select

- Breadth Humanities (BHU) Course
  OR
- Breadth American Institutions (BAI) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Breadth Life Sciences (BLS) Course
  OR
- Breadth Physical Sciences (BPS) Course
  OR
- Breadth Social Sciences (BSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- (HDFS 1500 recommended to satisfy Dual Licensure requirement–see note) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Fall	16 - 18	0

Requirement Select

- *A music theory elective course is offered every fall and spring semester. The music theory elective course may be taken any semester after completing MUSC 2110 with a grade of C or higher. Music students should plan which option they wish to take and consult with the music department office regarding which semester that option will be offered. ITLS 2500 must be taken the summer after the second or third year to satisfy STEP requirements but not exceed 18 credit tuition plateau limit. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- MUSC3170 - Special Topics in Music Theory

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- MUSC3190 - Music History III: Romanticism through the 21st Century (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- MUSC2550 - Guitar Styles: Blues
  OR
- MUSC3570 - Guitar Pedagogy I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select

- MUSC3570 is offered every other year. Check schedule for availability (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Register for 1 credit of MUSC3550 (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- MUSC3550 - Individual Guitar Instruction for Music Majors

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1 - 2
Progress Credits	-
Contact Hours	1 - 2
Clinical	-
Criticality	No

Requirement Select

- MUSC3590 - Electric Guitar Ensemble
  OR
- MUSC4550 - Acoustic Guitar Ensemble

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- MUSC3220 - Choral Methods and Materials

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select

- SCED3300 - Clinical Experience I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- SCED3300 is suggested to be taken concurrently with MUSC 3220 or MUSC 3240 (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Breadth Life Sciences (BLS) Course
  OR
- Breadth Physical Sciences (BPS) Course
  OR
- Breadth Social Sciences (BSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- HDFS 1500 recommended to satisfy Dual Licensure requirement–see note (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Spring	15 - 18	0

Requirement Select

- Spring MUSC 2210 is the lab course for MUSC 4240 - Advanced Conducting (Choral). Guitar emphasis students can satisfy the choral ensemble requirement by registering it in the spring and singing in the practice choir. Fall MUSC 4240 is Advanced Conducting (Instrumental), and is required for the Guitar emphasis degree. ITLS 2500 must be taken the summer after the second or third year to satisfy STEP requirements but not exceed 18 credit tuition plateau limit. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- MUSC1500 - String Techniques

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- MUSC3180 - Orchestration

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select

- SCED3210 - Educational and Multicultural Foundations (DSS/CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- MUSC3240 - Instrumental Methods and Materials

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select

- MUSC3550 - Individual Guitar Instruction for Music Majors

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1 - 2
Progress Credits	-
Contact Hours	1 - 2
Clinical	-
Criticality	No

Requirement Select

- SCED4300 Must be taken concurrently with MUSC 3220 or MUSC 3240 (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- SCED4300 - Clinical Experience II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- CCA3070 - Unveiling the Anthropocene (DSC/QI)
  OR
- Other QI/DSC designated course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- MUSC2800 - High Brass Techniques
  OR
- MUSC2810 - Low Brass Techniques

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- MUSC2600 - Sapphire Singers
- **AND** MUSC3580 - Guitar Pedagogy II
  OR
- MUSC4600 - University Chorale (DHA)
  OR
- MUSC2210 - Advanced Conducting Ensemble

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1 - 3
Progress Credits	-
Contact Hours	1 - 3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Fall	17 - 18	0

Requirement Select

- MUSC3550 register for 1 credit. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- MUSC3550 - Individual Guitar Instruction for Music Majors

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1 - 2
Clinical	-
Criticality	No

Requirement Select

- MUSC4240 - Advanced Conducting

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select

- MUSC4920 - Senior Recital

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1 - 2
Progress Credits	-
Contact Hours	1 - 2
Clinical	-
Criticality	No

Requirement Select

- SPED4000 - Education of Students with Disabilities

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Breadth Humanities (BHU) Course

  OR
- Breadth American Institutions (BAI) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- SCED5200 - Language, Literacy, and Learning in the Content Areas (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- SCED5210 - Learning Theory, Curriculum, and Assessment

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- MUSC2800 - High Brass Techniques
  OR
- MUSC2810 - Low Brass Techniques

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- MUSC2810 taken 3rd year Spring. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Spring	18	0

Requirement Select

- MUSC5500 - Seminar for Student Teaching

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select

- MUSC5630 - Student Teaching in the Schools

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	10
Progress Credits	-
Contact Hours	10
Clinical	-
Criticality	No

Requirement Select

- Dual Licensure Note: Dual Licensure (recommended): (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- HDFS1500 - Human Development Across the Lifespan (BSS)
  OR
- PSY1100 - Lifespan Development

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- MUSC3260 - Elementary School Music

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Level 1 Orff Schulwerk Teacher Education Workshop (offered every summer) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Program Learning Outcomes

Program Learning Outcomes
https://artsci.usu.edu/assessments/

Music: Music Education, Orchestra - BM

Program Overview

College
College of Arts & Sciences

Department
Music

Program Level
Undergraduate

About this Degree
Music Education with an emphasis in strings certifies graduates to teach instrumental, choral, and general music in secondary schools. As music education majors with an Orchestra Education emphasis, students are part of the String Program led by the members of the Fry Street Quartet and bassist Braun Khan. The curriculum for this degree fosters a comprehensive knowledge of string education alongside rigorous artistic development on one's primary instrument.

The Fry Street Quartet occupies the Manon Caine Russell and Dan C. Russell Endowed String Quartet Residency at Utah State University. This residency affords all string majors the rare opportunity to study with a world-renowned string quartet as their primary professors.

The size of the String Program at Utah State allows for each student to receive a great deal of individual attention throughout his or her study. With chamber music as a natural focus of a program led by a string quartet, a close-knit atmosphere is at the heart of the student experience. The shared artistic and educational values of the FSQ are central to this experience and transfer to the classroom as well as the concert stage.

- For more information about Music Education, see the department website.
- All music majors must pass an audition to be admitted.
- Admitted and current students must meet with an advisor.
- Log on to Degree Works to check student-specific program progress.
- The highest math requirement for this degree is the Quantitative Literacy (QL) of the student's choice.

Admission Requirements for this Program
- New freshmen:
    - Admitted to USU in Good Standing
    - Must pass entrance audition on primary instrument
- Transfer students from other institutions or other programs at USU:
    - Admitted to USU in Good Standing
    - Must pass entrance audition on primary instrument

Program Requirements

Total Credits Required In Program Coursework
99

Total Credits Required To Earn This Credential
126

Simple Requisites

Program Requirements

Course Grades and GPA Minimums

To maintain Music Major (and Pre-Music Major) status at USU, students must:

1. **Complete all Individual Instruction (primary instrument) courses with a grade of B- or higher**
    - Any grade lower than B- will result in an extra required semester of Individual Instruction.

- Any subsequent semester in which a student fails to meet this minimum grade may result in dismissal from the music program.

2. **Complete all music major core and emphasis classes with a grade of C or higher**
    - Any music course grade lower than C will not count towards graduation.
    - Core courses may be repeated once in an attempt to earn a grade of C or better.
    - Any subsequent semester in which a student fails to meet this minimum grade may result in dismissal from the music program.
3. **Maintain a 3.0 cumulative GPA in all courses that fulfill a degree/emphasis requirement.**
    - This GPA does not include general education and depth courses.
    - This GPA does not include the STEP courses for Music Education majors.
    - If a student's degree/emphasis GPA falls under this minimum, the student will be placed on departmental academic probation for one semester.
    - Inability to meet this degree/emphasis GPA during the probationary period will result in referral to the department head who in consultation with the appropriate faculty member(s) will determine if the student shall be allowed to remain a music major through an extension of the probationary period.

GRADING SCALE for music courses:

93-100 A

90-92.99 A-

87-89.99 B+

83-86.99 B

80-82.99 B- Lowest grade for individual instruction to fulfill graduation requirements)

77-79.99 C+

73-76.99 C Lowest grade for all other program courses to fulfill graduation requirements)

70-72.99 C-

67-69.99 D+

60-66.99 D

59.99 or below F

Music - Music Education, Orchestra - BM

Type
Completion Requirement

BM Music Education Core Curriculum (44 credits)

A minimum grade of a "C" is required for all Music Education Core Curriculum courses.

Earn a minimum grade of C in the following:

- MUSC1110 - Music Theory I (BCA) - 3cr.
- MUSC1120 - Music Theory II - 3cr.
- MUSC1130 - Aural Skills I - 1cr.
- MUSC1140 - Aural Skills II - 1cr.
- MUSC1170 - Keyboard Harmony I - 1cr.
- MUSC1180 - Keyboard Harmony II - 1cr.
- MUSC1190 - World Music - 3cr.
- MUSC1500 - String Techniques - 1cr.
- MUSC1800 - Percussion Techniques - 1cr.
- MUSC2110 - Music Theory III - 3cr.
- MUSC2130 - Aural Skills III - 1cr.
- MUSC2180 - Computer Applications in Music Proficiency Exam - 1cr.
- MUSC2350 - Conducting - 2cr.
- MUSC2700 - Woodwind Techniques I: Flute, Clarinet - 1cr.
- MUSC3110 - Music History I: Antiquity through the Renaissance - 3cr.
- MUSC3120 - Music History II: The Baroque and Classical Periods - 3cr.
- MUSC3170 - Special Topics in Music Theory - 3cr.
- MUSC3180 - Orchestration - 2cr.
- MUSC3190 - Music History III: Romanticism through the 21st Century (CI) - 3cr.
- MUSC3220 - Choral Methods and Materials - 2cr.
- MUSC3240 - Instrumental Methods and Materials - 2cr.
- MUSC4240 - Advanced Conducting - 2cr.
- MUSC4920 - Senior Recital - 1cr.

NOTE:

1. MUSC4920 SENIOR RECITAL - 1 credit required.

MUED Orchestra Concentration (23 credits)

All individual instruction courses on major instrument must be passed with a grade of B- or better. All other music concentration courses must be passed with a grade of C- or better. Major requirements may *not* be taken for a pass/fail grade, except those courses which are only taught on a pass/fail basis. Minimum GPA for all required music program courses is 3.0.

Fulfill ALL of the following requirements:

Individual Instruction

MUSC 1/2/4XXX Individual Instruction for Music Majors (Students need 7 semesters of individual study to graduate, for a minimum of 7 credits.)

Fulfill ANY of the following requirements:

Violin Individual Instruction

Earn at least 7 credits from the following:

- MUSC1535 - Individual Pre-Music Violin Instruction - 1cr.
- MUSC2545 - Individual Pre-Barrier Violin Instruction - 1cr.
- MUSC4510 - Individual Violin Instruction for Music Majors - 1cr.

OR

Viola Individual Instruction

Earn at least 7 credits from the following:

- MUSC1525 - Individual Pre-music Viola Instruction - 1cr.
- MUSC2535 - Individual Pre-barrier Viola Instruction - 1cr.
- MUSC4520 - Individual Viola Instruction for Music

Majors - 1cr.

OR

Cello Individual Instruction

Complete ALL of the following Courses:

- MUSC1515 - Individual Pre-major Cello Instruction - 1cr.
- MUSC2525 - Individual Pre-Barrier Cello Instruction - 1cr.
- MUSC4530 - Individual Cello Instruction for Music Majors - 1cr.

OR

Double Bass Individual Instruction

Complete ALL of the following Courses:

- MUSC1545 - Individual Pre-Music String Bass Instruction - 1cr.
- MUSC2505 - Individual Pre-Barrier String Bass Instruction - 1cr.
- MUSC4540 - Individual String Bass Instruction for Music Majors - 1cr.

AND

Required Courses

Fulfill ALL of the following requirements:

Large Ensemble (7 credits)

Any combination of these two courses will satisfy the requirement.

Earn at least 7 credits from the following:

- MUSC3500 - Symphony Orchestra (DHA) - 1cr.
- MUSC3530 - Cache Symphony Orchestra - 1cr.

NOTE:

1. MUSC3500 SYMPHONY ORCHESTRA (DHA) - Preferred for music majors.

AND

Required Courses

Music Education, Orchestra students are required to take MUSC2700 WOODWIND TECHNIQUES I and one semester of brass techniques. Students may choose either MUSC2800 HIGH BRASS TECHNIQUES or MUSC2810 LOW BRASS TECHNIQUES for their brass techniques course. It is recommended to take MUSC2700 WOODWIND TECHNIQUES I 1st year fall and MUSC2800 HIGH BRASS TECHNIQUES 4th year fall.

Complete ALL of the following Courses:

- MUSC1600 - Voice Techniques - 1cr.
- MUSC4500 - String Ensemble - 1cr.
- MUSC2800 - High Brass Techniques - 1cr.
  OR MUSC2810 - Low Brass Techniques - 1cr.

NOTE:

1. MUSC4500 STRING ENSEMBLE - 2 credits.

AND

Choral Ensemble (1 credit)

Music Education, Orchestra majors are required to take one semester of choral ensemble.

Earn at least 1 credits from the following:

- MUSC2210 - Advanced Conducting Ensemble - 1cr.
- MUSC2600 - Sapphire Singers - 1cr.
- MUSC4600 - University Chorale (DHA) - 1cr.

AND

Required Courses

Complete ANY of the following Courses:

- MUSC3510 - Orchestra Literature - 2cr.
- MUSC3520 - String Pedagogy and Solo Literature - 2cr.

NOTE:

1. MUSC3510 ORCHESTRA LITERATURE and MUSC3520 STRING PED/SOLO LIT - Are offered consecutive semesters every other year. Check schedule to determine when these courses will be offered. See 2nd and 3rd year of Degree Map for details.

Music Education STEP (32 credits)

Students must maintain a 3.0 overall GPA and a grade of C or better in all STEP program courses.

Complete ALL of the following Courses:

- ITLS2500 - Technology Enabled Instruction - 3cr.
- MUSC3100 - Motivation and Classroom Management Strategies in Secondary Classroom Music - 3cr.
- MUSC5500 - Seminar for Student Teaching - 2cr.
- MUSC5630 - Student Teaching in the Schools - 10cr.
- SCED3210 - Educational and Multicultural Foundations (DSS/CI) - 3cr.
- SCED3300 - Clinical Experience I - 1cr.
- SCED4300 - Clinical Experience II - 1cr.
- SCED5200 - Language, Literacy, and Learning in the Content Areas (CI) - 3cr.
- SCED5210 - Learning Theory, Curriculum, and Assessment - 3cr.
- SPED4000 - Education of Students with Disabilities - 3cr.

NOTE:

1. SCED3300 CLINICAL EXPERIENCE I - Taken concurrently with MUSC3220 CHORAL METHODS AND MATERIALS.
2. SCED4300 CLINICAL EXPERIENCE II - Taken concurrently with MUSC3240 INSTRUMENTAL METHODS.

Recital and Concert Attendance Requirement

Complete the following:
To graduate, students are required to attend a minimum of 80 concerts or recitals. Recital and concert attendance is monitored and recorded in the Music Student Services office. Students should turn in programs after attending concerts and recitals for documentation of attendance.

Open Electives

Complete the following as needed:

Total elective credit is determined by General Education courses taken, degree type selected, additional credits earned, and any additional math or other prerequisite courses needed. Please consult your Academic Advisor for details.

Additional Comments:

Licensure Notification

This program typically leads to licensure and was designed to meet licensing qualifications in the state of Utah. If students wish to work in another state within the United States, they should review the qualifications for that state and the Education Licensure Compliance Table provided by School of Teacher Education and Leadership.

For more information, please contact the School of Teacher Education and Leadership at https://cehs.usu.edu/teal/

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Bachelor's Degree)

Suggested Degree Maps

Degree Map Name
Suggested Degree Map - Music: Music Education, Orchestra BM
Total Degree Map Credits
128 - 134
Degree Map Effective Catalog Year
2026 -

Degree Map Narrative

- Following is a sample four-year plan. Please note that student-specific plans may differ.
- Meet with an academic advisor to create a specific plan that best fits your academic needs.
- The student is ultimately responsible for knowing and completing all degree requirements.
- Make sure you meet the registration requirements for each class by clicking the course link and checking any prerequisites or corequisites.
- Consultation with an advisor may result in an altered plan customized for an individual student.
- Check your Degree Works for requirements and completion.

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	15 - 17	0

Requirement Select

- Students that are pre-music majors are expected to enroll in MUSC 1105 during their first semester at USU. The course is intended to prepare students for MUSC 1110 - Music Theory I (BCA). Although the course is not required for graduation, it is expected that students will register for the course and either complete it or test out. Even if testing out, students must register for the course. MUSC 2180 consists of a series of three proficiency exams that all music majors must complete prior to the completion of four semesters of study. Students need 7 semesters of individual study to graduate, for a minimum of 7 credits. Students need 7 credits minimum of MUSC 3500. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- ENGL1010 - Writing as Inquiry (CL1)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- MUSC1105 - Fundamentals for Music Majors (BCA)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- MUSC1170 - Keyboard Harmony I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- MUSC2180 - Computer Applications in Music Proficiency Exam

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- MUSC2700 - Woodwind Techniques I: Flute, Clarinet

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- MUSC3500 - Symphony Orchestra (DHA)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- MUSC4500 - String Ensemble

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- MUSC 1XXX: Individual Pre-Music String Instruction (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Quantitative Literacy (QL) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 5
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	16	0

Requirement Select
- Students need 7 semesters of individual study to graduate, for a minimum of 7 credits. Students will need 7 credits minimum of MUSC 3500. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- ENGL2010 - Research and Argument Across Perspectives (CL2)
  OR
- ENGL2020 - Professional Communication (CL2)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- MUSC1110 - Music Theory I (BCA)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- MUSC1130 - Aural Skills I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- MUSC1180 - Keyboard Harmony II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- MUSC1190 - World Music

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- MUSC3500 - Symphony Orchestra (DHA)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- MUSC 1XXX: Individual Pre-Music String Instruction (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Breadth Life Sciences (BLS) Course
  OR
- Breadth Social Sciences (BSS) Course
  OR
- Breadth Physical Sciences (BPS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- (HDFS 1500 is a recommended course to satisfy Dual Licensure requirement) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	16	0

Requirement Select

- Apply for STEP during second year. ITLS 2500 must be taken summer after second or third year to satisfy STEP requirements but not exceed the 18-credit tuition plateau limit. Students will need 7 semesters of individual study to graduate, for a minimum of 7 credits. Students will need 7 credits minimum of MUSC 3500. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- MUSC1120 - Music Theory II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- MUSC1140 - Aural Skills II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- MUSC3100 - Motivation and Classroom Management Strategies in Secondary Classroom Music

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- MUSC3110 - Music History I: Antiquity through the Renaissance

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- MUSC3500 - Symphony Orchestra (DHA)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- MUSC3520 - String Pedagogy and Solo Literature
- **AND** MUSC1800 - Percussion Techniques
  OR
- Breadth Life Sciences (BLS) Course
  OR
- Breadth Social Sciences (BSS) Course
  OR
- Breadth Physical Sciences (BPS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- (MUSC 3520 is offered every other year. Check schedule for actual term offered. Take 3 credit Breadth Gen Ed course the semester MUSC 3520 not offered.) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- MUSC4500 - String Ensemble

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- MUSC 2XXX: Individual Pre-Barrier String Instruction (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	14	0

Requirement Select

- Apply for STEP during sophomore year. Spring MUSC 2210 is a lab for MUSC 4240 Advanced Conducting (Choral). Orchestra emphasis students can satisfy the choral ensemble requirement by registering in the spring and singing in the practice choir. MUSC 4240 and is required for the Orchestra emphasis degree. ITLS 2500 must be taken summer after the second or third year to satisfy STEP requirements but not exceed the 18-credit tuition plateau limit. Students need 7 semesters of individual study to graduate, for a minimum of 7 credits. Students need 7 credits minimum of MUSC 3500. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- MUSC2110 - Music Theory III

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- MUSC2130 - Aural Skills III

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- MUSC2350 - Conducting

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select

- MUSC3120 - Music History II: The Baroque and Classical Periods

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- MUSC3500 - Symphony Orchestra (DHA)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- MUSC2600 - Sapphire Singers
  OR
- MUSC4600 - University Chorale (DHA)
  OR
- MUSC2210 - Advanced Conducting Ensemble

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- MUSC3510 - Orchestra Literature
- **AND** MUSC1500 - String Techniques
  OR
- Breadth Life Sciences (BLS) Course
  OR
- Breadth Social Sciences (BSS) Course
  OR
- Breadth Physical Sciences (BPS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- (MUSC 3510 is offered every other year. Check schedule for actual term offered. Take 3 credit Breadth Gen Ed course the semester MUSC 3510 not offered.) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Fall	17	0

Requirement Select

- *A music theory elective course is offered every fall and spring semester. The music theory elective course may be taken any semester after completing MUSC 2110 with a grade of C or better. Music students should plan which option they wish to take and consult with the music department office regarding which semester that option will be offered. ITLS 2500 must be taken summer after the second or third year to satisfy STEP requirements but not exceed the 18-credit tuition plateau limit. Students will need 7 semesters of individual study to graduate, for a minimum of 7 credits. Students will need 7 credits minimum of MUSC 3500. SCED 3300 must be taken concurrently with MUSC 3220 or MUSC 3240. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- MUSC3170 - Special Topics in Music Theory

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- MUSC3190 - Music History III: Romanticism through the 21st Century (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- MUSC 4XXX: Individual Music Instruction (Orchestra) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- SCED3210 - Educational and Multicultural Foundations (DSS/CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- MUSC3220 - Choral Methods and Materials

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select

- SCED3300 - Clinical Experience I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- SCED3300 Must be taken concurrently with MUSC 3220 or MUSC 3240 (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- MUSC3500 - Symphony Orchestra (DHA)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- MUSC3520 - String Pedagogy and Solo Literature
- **AND** MUSC1500 - String Techniques
  OR
- Breadth Life Sciences (BLS) Course
  OR
- Breadth Social Sciences (BSS) Course
  OR
- Breadth Physical Sciences (BPS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- MUSC 3520 is offered every other year. Check schedule for actual term offered. Take 3 credit Breadth Gen Ed course the semester MUSC 3520 not offered. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Spring	17	0

Requirement Select

- Students need 7 semesters of individual study to graduate, for a minimum of 7 credits. Students need 7 credits minimum of MUSC 3500. SCED 4300 must be taken concurrently with MUSC 3220 or MUSC 3240. ITLS 2500 must be taken summer after the second or third year to satisfy STEP requirements but not exceed the 18-credit tuition plateau limit. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- MUSC1600 - Voice Techniques

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- MUSC3180 - Orchestration

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select

- MUSC3240 - Instrumental Methods and Materials

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select

- MUSC3500 - Symphony Orchestra (DHA)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- SPED4000 - Education of Students with Disabilities

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- SCED4300 - Clinical Experience II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- SCED4300 Must be taken concurrently with MUSC 3220 or MUSC 3240 (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- MUSC 4XXX: Individual Music Instruction (Orchestra) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- MUSC3510 - Orchestra Literature
- **AND** MUSC1800 - Percussion Techniques
  OR
- Breadth Life Sciences (BLS) Course
  OR
- Breadth Social Sciences (BSS) Course
  OR
- Breadth Physical Sciences (BPS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- MUSC 3510 is offered every other year. Check schedule for actual term offered. Take 3 credit Breadth Gen Ed course the semester MUSC 3510 not offered.) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Breadth Humanities (BHU) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Fall	18 - 19	0

Requirement Select

- MUSC 4240 and is required for the Orchestra emphasis degree. Students need 7 semesters of individual study to graduate, for a minimum of 7 credits. Students need 7 credits minimum of MUSC 3500. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- MUSC2800 - High Brass Techniques

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- MUSC3500 - Symphony Orchestra (DHA)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- MUSC4240 - Advanced Conducting

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select

- MUSC4920 - Senior Recital

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1 - 2
Progress Credits	-
Contact Hours	1 - 2
Clinical	-
Criticality	No

Requirement Select

- SCED5200 - Language, Literacy, and Learning in the Content Areas (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- SCED5210 - Learning Theory, Curriculum, and Assessment

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- MUSC 3/4XXX: Individual Music Instruction (Orchestra) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Breadth Social Sciences (BSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Depth Life and Physical Sciences (DSC) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Spring	15 - 18	0

Requirement Select
- MUSC5500 - Seminar for Student Teaching

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select
- MUSC5630 - Student Teaching in the Schools

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	10
Progress Credits	-
Contact Hours	10
Clinical	-
Criticality	No

Requirement Select
- Dual Licensure Note: Dual Licensure (Recommended): (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- PSY1100 - Lifespan Development
  OR
- HDFS1500 - Human Development Across the Lifespan (BSS)
- **AND** MUSC3260 - Elementary School Music

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 6
Progress Credits	-
Contact Hours	3 - 6
Clinical	-
Criticality	No

Requirement Select
- Level 1 Orff Schulwerk Teacher Education Workshop (offered every summer) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	Total Major Credits
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Program Learning Outcomes

Program Learning Outcomes

https://artsci.usu.edu/assessments/

Mathematics/Statistics Education (Composite) - BA, BS

Program Overview

College
College of Arts & Sciences

Department
Mathematics & Statistics

Program Level
Undergraduate

About this Degree

The mathematics/statistics education (composite) major is designed to prepare teachers of mathematics at the middle and high school levels. USU is one of the only universities in the nation where students can be certified to teach both mathematics and statistics in one degree program, which makes them more marketable and competitive for teaching positions. USU's program has also served as a model for other universities that wish to create similar programs.

USU's math education program is recognized as the largest and the best in the state, with 100% of its graduates receiving teaching positions in school districts upon graduation. Students in the program learn much higher math than they will ever teach in middle school or high school, making them experts in their subject area. They also take methods courses where they learn how to teach the material to students and have early experience in actual classrooms, making them more familiar and comfortable with these settings before they begin their student teaching.

- For more information about Mathematics/Statistics Education (Composite), see the website.
- Admitted and current students must meet with the advisor, Linda Skabelund.
- Log on to Degree Works to check student-specific program progress.

Bachelor of Arts Degree Requirement

See Undergraduate Academic Credential Requirements website for language requirements.

Admission Requirements for this Program

In addition to Utah State University's admissions requirements, the mathematics/statistics education (composite) program has additional requirements:

New freshmen admitted to USU in good standing qualify for admission to this major. A 3.0 GPA, ACT scores of 21 composite and 20 verbal/English and 19 mathematics/quantitative, and 30 credits of coursework are required for admission to the Secondary Teacher Education Program (STEP). Students should contact the School of Teacher Education and Leadership (TEAL) for information on additional admission criteria.

Transfer students from other institutions or other USU majors need a 3.0 GPA, ACT scores of 21 composite and 20 verbal/English and 19 mathematics/quantitative to be admitted to the major. They also need 30 credits of coursework to be admitted to the STEP. Students should contact the School of Teacher Education and Leadership (TEAL) for information on additional admission criteria.

Some major coursework may fulfill the General Education Requirements, or University Studies Requirements.

- Two courses having the CI designation (such as MATH4200 FOUNDATIONS OF ANALYSIS (CI), MATH4310 INTRO ALGEBRAIC STRC (CI), MATH5580 ACTUARIAL MATH II (CI), and STAT5100 MODERN REGRESSION METH(CI)(QI)) will meet the Communications Intensive (CI) requirement.
- One course having the QI designation (such as MATH2210 MULTIVARIABLE CALCULUS (QI), MATH2250 LINEAR ALG/DIFF EQUATIONS (QI), MATH2270 LINEAR ALGEBRA (QI), MATH2280 ORD DIFFRNTIAL EQUATIONS (QI), and STAT3000 STATISTICS FOR SCIENTISTS (QI)) will meet the Quantitative Intensive (QI) requirement.

Program Requirements

Total Credits Required In Program Coursework
44

Total Credits Required To Earn This Credential
120

Simple Requisites

Program Requirements

The Mathematics/Statistics Education (Composite) major requires a 3.00 GPA. A grade of C or better is required in all courses taken for the major. Program coursework *may not* be taken on a pass/fail basis, except MATH3300 SCHOOL MATH LAB I, MATH4300 SCHOOL MATH LAB II, and SCED5630 STUDENT TEACHING SEC SCHOOL.

Mathematics/Statistics Education (Composite) - BA, BS

Type
Completion Requirement

Major Requirements (44 credits)

Complete ALL of the following Courses:

- MATH1210 - Calculus I (QL) - 4cr.
- MATH1220 - Calculus II (QL) - 4cr.
- MATH2210 - Multivariable Calculus (QI) - 3cr.
- MATH2270 - Linear Algebra (QI) - 3cr.
  OR DSAI2275 - Linear Algebra for Data Science - 4cr.
- MATH2280 - Ordinary Differential Equations (QI) - 3cr.
- MATH3110 - Modern Geometry - 3cr.
- MATH3310 - Discrete Mathematics - 3cr.
- MATH4200 - Foundations of Analysis (CI) - 3cr.
- MATH4310 - Introduction to Algebraic Structures (CI) - 3cr.
- MATH5400 - Mathematics and Its History - 3cr.
  OR MATH3010 - Pedagogical Foundations of Algebra - 3cr.
- MATH5710 - Introduction to Probability - 3cr.
- MATH5720 - Introduction to Mathematical Statistics - 3cr.
  OR STAT5200 - Analysis of Designed Experiments - 3cr.
- STAT3000 - Statistics for Scientists (QI) - 3cr.
- STAT5100 - Modern Regression Methods (CI/QI) - 3cr.

Clinicals (14 credits)

Must be taken after students are admitted into the SCED program and within the year before student teaching.

MATH3300 SCHOOL MATH LAB I is not required of students with teaching minors in other departments.

Earn at least 14 credits from the following:

- MATH3300 - School Laboratory for Mathematics Teachers Level I - 1cr.
- MATH4300 - School Laboratory for Mathematics Teachers Level II - 1cr.
- MATH5010 - Technology for Teaching Mathematics - 3cr.
- MATH5020 - Mathematical Cognition and Assessment of Mathematical Achievement - 3cr.
- MATH5500 - Methods of Secondary School Mathematics Teaching - 3cr.
- STAT4010 - Probability and Statistics for Teachers - 3cr.

Mathematics Secondary Teaching Requirements (24 credits)

Earn at least 24 credits from the following:

- SCED3210 - Educational and Multicultural Foundations (DSS/CI) - 3cr.
- SCED5100 - Motivation and Classroom Management - 3cr.

- SCED5200 - Language, Literacy, and Learning in the Content Areas (CI) - 3cr.
- SCED5500 - Student Teaching Seminar - 2cr.
- SCED5630 - Student Teaching in Secondary Schools - 10cr.
- SPED4000 - Education of Students with Disabilities - 3cr.

College of Science Sequence (6-8 credits)

Choose one of the following sequences:

Fulfill ANY of the following requirements:

Biology Sequence

Complete ALL of the following Courses:

- BIOL1610 - Biology I - 3cr.
- BIOL1620 - Biology II (BLS) - 3cr.

OR

Chemistry Sequence

Complete ALL of the following Courses:

- CHEM1210 - Principles of Chemistry I - 4cr.
- CHEM1220 - Principles of Chemistry II (BPS) - 4cr.

OR

Geology Sequence

Complete ALL of the following Courses:

- GEO1110 - Physical Geology (BPS) - 3cr.
  AND GEO1115 - Physical Geology Laboratory - 1cr.
- GEO2200 - The Earth Through Time - 3cr.

OR

Physics Sequence

Complete one of the following course sets.

Complete ANY of the following Courses:

- PHYS2110 - General Physics—Life Sciences I - 4cr.
  AND PHYS2120 - General Physics - Life Sciences II (BPS) - 4cr.
- PHYS2210 - Physics for Scientists and Engineers I (QI/BPS) - 4cr.
  AND PHYS2220 - Physics for Scientists and Engineers II (BPS/QI) - 4cr.

OR

Computer Science Sequence

Complete ALL of the following Courses:

- CS1400 - Introduction to Computer Science--CS 1 - 4cr.
- CS1410 - Introduction to Computer Science--CS 2 (QI) - 3cr.
  OR CS1440 - Software Engineering Fundamentals - 3cr.

Open Electives

Complete the following as needed:

Total elective credit is determined by General Education courses taken, degree type selected, additional credits earned, and any additional math or other prerequisite courses needed. Please consult your Academic Advisor for details.

Additional Comments:

Licensure Notification

This program typically leads to licensure and was designed to meet licensing qualifications in the state of Utah. If students wish to work in another state within the United States, they should review the qualifications for that state and the Education Licensure Compliance Table provided by School of Teacher Education and Leadership.

For more information, please contact the School of Teacher Education and Leadership at https://cehs.usu.edu/teal/.

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Bachelor's Degree)

Suggested Degree Maps

Degree Map Name
Suggested Degree Map - Mathematics/Statistics Education (Composite) BA, BS
Total Degree Map Credits
110 - 112
Degree Map Effective Catalog Year
2026 -

Degree Map Narrative

- Following is a sample four-year plan. Please note that student-specific plans may differ.
- Meet with an academic advisor to create a specific plan that best fits your academic needs.
- The student is ultimately responsible for knowing and completing all degree requirements.
- Make sure you meet the registration requirements for each class by clicking the course link and checking any prerequisites or corequisites.
- Consultation with an advisor may result in an altered plan customized for an individual student.
- Check your Degree Works for requirements and completion.

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	14	0

Requirement Select

- ENGL1010 - Writing as Inquiry (CL1)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- MATH1210 - Calculus I (QL)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- Breadth Life Sciences (BLS) Course

OR

- Breadth Physical Sciences (BPS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- College of Science Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	17	0

Requirement Select

- ENGL2010 - Research and Argument Across Perspectives (CL2)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- MATH1220 - Calculus II (QL)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- STAT3000 - Statistics for Scientists (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Breadth Creative Arts (BCA) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- College of Science Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	15 - 16	0

Requirement Select

- SPED4000 - Education of Students with Disabilities

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- MATH2210 - Multivariable Calculus (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- MATH2270 - Linear Algebra (QI)

  OR
- DSAI2275 - Linear Algebra for Data Science

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 4
Progress Credits	-
Contact Hours	3 - 4
Clinical	-
Criticality	No

Requirement Select

- STAT5100 - Modern Regression Methods (CI/QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Breadth American Institutions (BAI) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	15	0

Requirement Select

- Apply for the SCED program. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- MATH2280 - Ordinary Differential Equations (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- MATH3310 - Discrete Mathematics

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- SCED3210 - Educational and Multicultural Foundations (DSS/CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Breadth Humanities (BHU) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- MATH3110 - Modern Geometry

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Fall	14 - 15	0

Requirement Select

- MATH4200 - Foundations of Analysis (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- MATH4310 - Introduction to Algebraic Structures (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- MATH5710 - Introduction to Probability

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- SCED5100 - Motivation and Classroom Management

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Depth Humanities and Creative Arts (DHA) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2 - 3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Spring	10	0

Requirement Select

- STAT5200 - Analysis of Designed Experiments
  OR
- MATH5720 - Introduction to Mathematical Statistics

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- MATH5400 - Mathematics and Its History
  OR
- MATH3010 - Pedagogical Foundations of Algebra

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- MATH5500 - Methods of Secondary School Mathematics Teaching

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- MATH4300 - School Laboratory for Mathematics Teachers Level II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Fall	13	0

Requirement Select

- MATH5010 - Technology for Teaching Mathematics

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- MATH5020 - Mathematical Cognition and Assessment of Mathematical Achievement

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- MATH3300 - School Laboratory for Mathematics Teachers Level I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- STAT4010 - Probability and Statistics for Teachers

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- SCED5200 - Language, Literacy, and Learning in the Content Areas (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Spring	12	0

Requirement Select

- SCED5500 - Student Teaching Seminar

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select

- SCED5630 - Student Teaching in Secondary Schools

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	10
Progress Credits	-
Contact Hours	10
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Program Learning Outcomes

Program Learning Outcomes

https://artsci.usu.edu/math-stats/assessment/math-stat-education

Master of Technical Communication - MTC

Program Overview

College	Department	Program Level
College of Arts & Sciences	Communication & Media	Graduate

About this Degree

The professional degree program in Technical Communication welcomes applications from the following types of students:

- students interested in an academic career in technical communication
- working professionals seeking advancement and interested in gaining skills in the diverse and complex field of technical communication, which includes user experience, usability, social media, crisis communication, and other professional writing careers.
- high school English teachers who want to expand their repertoire of English courses to include technical communication

The entire program may be completed online and prepares students for understanding how culture, technology, and workplace research shape the field and practice of technical communication.

Refer to the Master of Technical Communication pages for more information.

Financial Information

For information on the cost of the program, refer to USU Online's Cost and Financial Aid Page.

Note that employees of Utah State University may be eligible to receive a tuition reduction for this program. Call Human Resources for further information at (435) 797-0216.

Admission Requirements for this Program

Master's Admission Requirements

The GRE, MAT or GMAT are not required to be considered for the Master of Technical Communication program. Applicants need to have a minimum GPA of 3.00 on a 4.00 scale in the last 60 credits taken in order to be considered. International applicants from non-English-speaking countries should see the additional requirements described on the Graduate School Admissions Policies

Master's Admission Procedure

Master's students must apply for admission through the School of Graduate Studies

The MTC program application requires the following supplemental items:

1. Letter of intent
2. Resume or CV
3. One sample of applicant's professional writing
4. Half-page introduction to the sample
5. Three letters of recommendation from people who can address your readiness for graduate studies

Refer to the Master of Technical Communication application page for more information on your application and for help in making your application more persuasive.

Deadlines

The online Master of Technical Communication will accept applications on a rolling basis for summer, fall, and spring semesters.

Additional Questions

You may send questions to TCR Program Director, Dr. Chen Chen at chen.chen@usu.edu.

Program Requirements

Total Credits Required In Program Coursework	Total Credits Required To Earn This Credential
33	33

Simple Requisites

Program Requirements

Master of Technical Communication Degree Requirements

As part of the 33 credits required to graduate, two or three online classes are offered each fall and spring semester. Occasionally, classes may be offered in the summer.

The curriculum has been designed to allow students to complete all requirements within a three-year period, although students may take longer if they choose. The School of Graduate Studies requires students to complete their degrees in no more than six years. Extensions of this deadline are sometimes allowed, but classes expire after EIGHT years and will no longer count toward the degree.

Students should complete the three core requirements (TCR6130 PROFESSIONAL EDITING, TCR6100 FOUNDATIONS OF TECHNICAL COMM, and TCR6120 RHETORICAL THEORY) at their first opportunity after entering the program.

Students need to maintain at least a 3.0 GPA to remain in good standing. If the GPA falls below a 3.0, the School of Graduate Studies will take action, which could include a letter of warning, probation, or even dismissal from the program. Any grade below a B- will not count toward the degree.

The Program of Study for the MTC degree, if the student has a master's degree, must include at least 15 semester credits at the level of 6000 or above. Refer to degree requirements above for more information. To count toward degree requirements, courses numbered below 6000 must be approved by the Director of Graduate Studies and the Program Chair for Technical Communication and Rhetoric.

Credits in the following areas are not acceptable in a degree program: foreign languages (unless included in an approved Program of Study), continuing graduate advisement, individual home study, military science, and courses numbered below 5000. No more than 12 credits of 5000 level courses are accepted.

A master's degree must be completed within six years of entering the degree program. Additional time may be requested by the student's committee and submitted to the Vice Provost of Graduate Studies for review.

Coursework over eight years old at the time of degree completion may not be used for a graduate degree unless it is revalidated by the Vice Provost of Graduate Studies.

At least 21-semester credits for the MTC degree must be from Utah State University, approved by a program committee and the School of Graduate Studies through the Program of Study form.

Students in the master's program who are able to come to the Logan campus may be able to include some in-person classes in their programs of study. As an undergraduate or concurrent student, you can apply up to 12 credits of coursework to a future graduate degree if they are 5000 level or above. Courses can only be applied to one degree. Consult with the Director of Graduate Studies, Dr. Chen Chen at chen.chen@usu.edu, if interested.

Professional/Plan C students cannot use any thesis/dissertation credits.

A Technical Communication master's student will be required to complete the following academic forms during their time of study:

- Program of Study

- Other forms may be required; for details refer to the Graduate Student Handbook.

Curriculum

Students take all three core requirement classes and 24 additional credits for a total of 33 credit hours. All classes below are offered for 3 credits each, making a total of 11 courses. At minimum, 7 of these 11 courses must be Master of Technical Communication courses. Courses are not repeatable for credit unless otherwise indicated below.

Master of Technical Communication - MTC

Type
Completion Requirement

Core Requirements

Complete ALL of the following Courses:

- TCR6130 - Professional Editing - 3cr.
- TCR6100 - Foundations of Technical Communication - 3cr.
- TCR6120 - Rhetorical Theory - 3cr.

Issues in Professional Communication (12-24* credits required)

Complete ALL of the following Courses:

- TCR6210 - Cultural Research Methods - 3cr.
- TCR6220 - User Experience Design - 3cr.
- TCR6230 - Instructional Design for Technical Communicators - 3cr.
- TCR6240 - Communication Design - 3cr.
- TCR6250 - Digital Rhetorics - 3cr.
- TCR6260 - Accessibility Rhetorics and Disability Studies - 3cr.
- TCR6270 - Writing Technologies - 3cr.
- TCR6490 - Special Topics in Technical Communication and Rhetoric - 3cr.
- TCR6900 - Graduate Internship & Cooperative Work Experience - 1cr.
- TCR7110 - Empirical Research Methods - 3cr.
- ENGL6890 - Studies in Writing and Rhetoric - 3cr.

Note

See below:
Students may reach the required 33-credit total by taking the 9 required credits from TCR6100 FOUNDATIONS OF TECHNICAL COMM, TCR6120 RHETORICAL THEORY, and TCR6130 PROFESSIONAL EDITING and the remaining 24 credits from the courses listed under B above. Alternatively, they may take up to 12 of the 24 credits through online classes outside the TCR program. To fulfill up to 12 remaining credits with courses outside of list B above, contact the Director of Graduate Studies (DGS), Dr. Chen Chen, to request approval. To reiterate, any class not listed under A or B will only count towards the student's program of study if it has been approved by the DGS and the Technical Communication & Rhetoric faculty.

Program Learning Outcomes

Program Learning Outcomes
https://artsci.usu.edu/assessments/

Mathematical Sciences - PhD

Program Overview

College
College of Arts & Sciences

Department
Mathematics & Statistics

Program Level
Graduate

About this Degree
The Department of Mathematics and Statistics teaches advanced quantitative and analytic skills for professionals in education, industry and research. At the Ph.D. level this mission is realized through three doctoral specializations within the Mathematical Sciences PhD.

The Pure and Applied Mathematics specialization, a traditional doctoral program, provides training in the foundations of modern mathematics and specialized areas of mathematical research. Graduates are employed as tenured faculty at universities and colleges as well as governmental and industrial research centers. Students work with faculty researchers in differential geometry, computer-algebra and mathematical physics, dynamical systems, mathematical ecology, graph theory and low-dimensional topology. The dissertation should be a publishable, significant contribution to research in an area of mathematics or its applications. Students in this Pure and Applied Mathematics specialization must obtain a minimum grade of "B" or better in at least two of the 6000-level topic tracks listed below the specialization descriptions.

The Interdisciplinary Studies PhD specialization combines training in mathematics or statistics, significant interaction with other fields that use advanced methodology from mathematics or statistics, and training in an area of application outside math/statistics, with program direction by scholars in math/statistics and in an external discipline. The dissertation should constitute a body of work on significant application or relationship of mathematics or statistics to other disciplines, with the goal of publication in either mathematics, statistics or the field of impact.

The Interdisciplinary Studies Specialization requires at least 9 credits of coursework in the student's chosen interdisciplinary area (outside both Mathematics and Statistics). Recent students have taken external courses in the College of Education, from the Departments of Biology and Physics, or as part of the Program in Climate Adaptation Science. The student's PhD supervisory committee should include two persons in the student's selected interdisciplinary area, and the comprehensive examination (see below) should have a significant interdisciplinary component.

Students in this Interdisciplinary Studies specialization must obtain a minimum grade of "B" or better in at least two of the 6000-level topic tracks listed below the specialization descriptions.

The College Teaching Ph.D. specialization is designed for students preparing for careers focused on teaching mathematics and statistics. Students in the College Teaching specialization receive broad training in pure and applied mathematics and statistics and complete six credits of College Teaching Internship under the guidance of their supervisory committee. The dissertation for this specialization is flexible and may include original research in mathematics, statistics or education as well as exposition of important mathematical and statistical theories and their historical relationships.

Program Requirements

Total Credits Required In Program Coursework
45-72

Total Credits Required To Earn This Credential
45-72

Simple Requisites

Program Requirements

School of Graduate Studies Requirements:

- Degree Verification: A bachelor's degree from an accredited U.S. college or university or a similarly recognized international university is required for admission to and completion of a graduate program. An official transcript must be sent directly to the School of Graduate Studies.
- Overall Graduate GPA at least 3.0 and no grades of C- or lower: Graduate students are required to maintain at least a 3.0 GPA for degree-program courses. Grades of C- or lower will not be accepted for a graduate degree.
- Matriculation Start Semester: A master's degree must be completed within six years of entering the degree program. Additional time may be requested by the student's advisor and submitted to the Vice Provost of Graduate Studies for review.
- Coursework Validity: Coursework over eight years old at the time of degree completion may not be used for a graduate degree unless it is revalidated by the Vice Provost of Graduate Studies.
- Course Number Acceptability: The program of study cannot include more than 12 semester credits of courses below the 6000 level. Credits in the following areas are not acceptable in a degree program: foreign languages (unless included in an approved Program of Study), continuing graduate advisement, individual home study, military science, and courses numbered below 5000.
- Master's forms: Approval of the Program of Study is required by the School of Graduate Studies.

Program Requirements:

- This degree requires at least 45 total credits (Masters) or 72 total credits (no Masters) numbered 5000-level or higher. This includes research credits but excludes MATH6990 CONT GRAD ADVISEMENT/STAT6990 CONT GRAD ADVISEMENT and MATH6990 CONT GRAD ADVISEMENT/STAT7990 CONT GRAD ADVISEMENT (Continuing Graduate Advisement). No more than 12 of these credits can be numbered 5000-5999.
- Supervisory Committee Approval by the end of the second semester
- Program of Study submitted by the end of the third semester
- Write and successfully defend a dissertation research proposal
- Pass a comprehensive examination that is constructed specifically for the student by his or her supervisory committee. The form of the examination may be written or oral or may include a combination of written and oral components. The length and content of the exam are determined by the student's supervisory committee but is expected to take at least eight hours of direct effort from the student (e.g., three two-hour written exams followed by a two-hour oral exam).
- Application for Candidacy Form at least 3 months before final defense
- Appointment for examination form submitted 10 days before defense and during defense semester must be registered for credit
- Write and successfully defend a dissertation
- Record of Examination Form
- Thesis/Dissertation format and Style and Electronic Publication Form
- Authorship and Copyright form
- Graduation application

Introductory Seminar

Type
Completion Requirement

Required Seminar

Complete ALL of the following Courses:

- MATH6910 - Directed Reading and Conference - 1cr.

NOTE:

1. MATH6910 DIRECTED READING DR: Modern Research in Math/Stats) - 1 credit

Dissertation Research

Type
Completion Requirement

Dissertation Course

Complete ALL of the following Courses:

- MATH7970 - Dissertation Research - 1cr.

NOTE:

1. Students with a prior masters degree will take between 12-18 credits of MATH7970 DISSERTATION RESEARCH (repeatable for credit).
2. Students without a prior masters degree will take between 18-24 credits of MATH7970 DISSERTATION RESEARCH (repeatable for credit).

Topic Tracks for Pure/Applied Mathematics and Interdisciplinary Studies specializations

Type
Completion Requirement

Topic Options

Each series of courses is a topic track. Students must complete at least 2 topic tracks with a minimum grade of B.

Complete at least 2 of the following:

Complete ALL of the following Courses:

- MATH6210 - Real Analysis - 3cr.
  AND MATH6220 - Real Analysis - 3cr.

OR

Complete ALL of the following Courses:

- MATH6310 - Modern Algebra - 3cr.
  AND MATH6320 - Modern Algebra - 3cr.

OR

Complete ALL of the following Courses:

- MATH6110 - Differential Geometry - 3cr.
  AND MATH6510 - Topology - 3cr.

OR

Complete ALL of the following Courses:

- MATH6410 - Methods of Applied Mathematics - 3cr.
  AND MATH6440 - ODE and Dynamics - 3cr.
  AND MATH6420 - PDE I - 3cr.
  AND MATH6450 - PDE II - 3cr.

OR

Complete ALL of the following Courses:

- MATH6470 - Advanced Asymptotic Methods - 3cr.
  AND MATH6810 - Topics in Mathematics (Topic) - 1cr.

OR

Complete ALL of the following Courses:

- MATH6610 - Introduction to Numerical Analysis - 3cr.
  AND MATH6620 - Numerical Solution of Partial Differential Equations - 3cr.

Interdisciplinary Studies Specialization

Type

Completion Requirement

Specialization Requirement

Complete the following:
The Interdisciplinary Studies Specialization requires at least 9 credits of coursework in the student's chosen interdisciplinary area (outside both Mathematics and Statistics). Recent students have taken external courses in the College of Education, from the Departments of Biology and Physics, or as part of the Program in Climate Adaptation Science. The student's PhD supervisory committee should include two persons in the student's selected interdisciplinary area, and the comprehensive examination (see below) should have a significant interdisciplinary component.

College Teaching Specialization

Type

Completion Requirement

Teaching Requirement

Earn at least 6 credits from the following:

- MATH7910 - College Teaching Internship - 3cr.

Elective Credit

Type

Completion Requirement

Elective Requirement

Complete the following:
Students must take at least 45 total credits (Masters) or 72 total credits (no Masters) numbered 5000-level or higher. This includes research credits but excludes MATH6990 CONT GRAD ADVISEMENT/STAT6990 CONT GRAD ADVISEMENT and STAT7990 CONT GRAD ADVISEMENT (Continuing Graduate Advisement). Students are required to complete suitable electives at the 5000-level or higher, as approved by their supervisory committee, to meet the total credit thresholds after accounting for the required courses. No more than 12 of these elective credits can be numbered 5000-5999 and no more than 3 (Masters) or 6 (no Masters) can be STAT6250 GRAD INTERN/COOP (repeatable for credit).

Program Learning Outcomes

Program Learning Outcomes

https://www.usu.edu/math/assessment/Mathematics

Music - BA

Program Overview

College
College of Arts & Sciences

Department
Music

Program Level
Undergraduate

About this Degree

Students in the Bachelor of Arts in Music program develop excellence in music within the context of the liberal arts. Core courses in music are complemented by a range of electives outside music, including language study. BA students have a high degree of flexibility in choosing their electives, making this program perfect for students interested in a double major or careers in arts administration, music business, musicology, and music theory, among others. The BA is also suitable for students who wish to study music in college but learn a broad range of skills that can be transferred to careers or graduate study in other fields. For more information, read the BA in Music Student Guide or refer to the BA Music 4-year Degree Map.

- For more information about the Music BA, see the department website.
- All music majors must pass an audition to be admitted
- Admitted and current students must meet with an advisor.
- Log on to Degree Works to check student-specific program progress.
- The highest math requirement for this degree is the Quantitative Literacy (QL) of the student's choice.

Admission Requirements for this Program

- New freshmen: Admitted to USU in Good Standing. MUST PASS ENTRANCE AUDITION ON PRIMARY INSTRUMENT.
- Transfer students from other institutions or other programs at USU: 2.75 GPA. MUST PASS ENTRANCE AUDITION ON PRIMARY INSTRUMENT
- Department of Music website: https://cca.usu.edu/music/

Program Requirements

Total Credits Required In Program Coursework
67

Total Credits Required To Earn This Credential
120

Simple Requisites

Program Requirements

Course Grades and GPA Minimums

To maintain Music Major (and Pre-Music Major) status at USU, students must:

1. **Complete all Individual Instruction (primary instrument) courses with a grade of B- or higher**
    - Any grade lower than B- will result in an extra required semester of Individual Instruction.
    - Any subsequent semester in which a student fails to meet this minimum grade may result in dismissal from the music program.
2. **Complete all music major core and emphasis classes with a grade of C or higher**
    - Any music course grade lower than C will not count towards graduation.
    - Core courses may be repeated once in an attempt to earn a grade of C or better.
    - Any subsequent semester in which a student fails to meet this minimum grade may result in dismissal from the music program.
3. **Maintain a 3.0 cumulative GPA in all courses that fulfill a degree/emphasis requirement.**
    - This GPA does not include general education and depth courses.
    - This GPA does not include the STEP courses for Music Education majors.
    - If a student's degree/emphasis GPA falls under this minimum, the student will be placed on departmental academic probation for one semester.
    - Inability to meet this degree/emphasis GPA during the probationary period will result in referral to the department head who in consultation with the appropriate faculty member(s) will determine if the student shall be allowed to remain a music major through an extension of the probationary period.

GRADING SCALE for music courses:

93-100 A

90-92.99 A-

87-89.99 B+

83-86.99 B

80-82.99 B- Lowest grade for individual instruction to fulfill graduation requirements)

77-79.99 C+

73-76.99 C Lowest grade for all other program courses to fulfill graduation requirements)

70-72.99 C-

67-69.99 D+

60-66.99 D

59.99 or below F

Music - BA

Type
Completion Requirement

Musicianship (26 credits)

Musicianship courses must be passed with a grade of C or higher. Minimum GPA for all required program courses is 3.0.

Fulfill ALL of the following requirements:

Required Courses

Complete ALL of the following Courses:

- MUSC1110 - Music Theory I (BCA) - 3cr.
- MUSC1120 - Music Theory II - 3cr.
- MUSC2110 - Music Theory III - 3cr.
- MUSC1130 - Aural Skills I - 1cr.
- MUSC1140 - Aural Skills II - 1cr.
- MUSC1170 - Keyboard Harmony I - 1cr.
- MUSC1180 - Keyboard Harmony II - 1cr.
- MUSC1190 - World Music - 3cr.

- MUSC2180 - Computer Applications in Music Proficiency Exam - 1cr.

AND

Required Music History Courses

Complete at least 2 of the following courses:

- MUSC3110 - Music History I: Antiquity through the Renaissance - 3cr.
- MUSC3120 - Music History II: The Baroque and Classical Periods - 3cr.
- MUSC3190 - Music History III: Romanticism through the 21st Century (CI) - 3cr.

AND

Required Courses

Complete at least 1 of the following courses:

- MUSC3020 - History of Jazz (DHA) - 3cr.
- MUSC3030 - Rock and Roll-Catalyst for Social Change (DSS) - 3cr.

AND

Specialization (29 credits)

Individual instruction courses on major instrument must be passed with a grade of B- or higher. Minimum GPA for all required program courses is 3.0. Major requirements may *not* be taken for a pass/fail grade.

Fulfill ALL of the following requirements:

Individual Instruction (4 credits)

Complete the following:

- MUSC 1/2/3/4XXX

NOTE:

• Must be on same instrument/voice; must include 1 credit past barrier jury.
• Up to 4 additional credits of major instrument instruction may be applied to the upper-division music elective requirement

AND

Large Ensemble (4 credits)

Complete the following:

- MUSC 2/3/4XXX

NOTE:

• Upper-division large ensembles are recommended for fulfillment of 40 upper-division credit requirement.
• Up to 4 additional credits of ensemble may be applied to the upper-division music elective requirement.

AND

Recital/Capstone

Complete at least 1 of the following courses:

- MUSC4920 - Senior Recital - 1cr.
  OR MUSC4935 - Music BA Capstone Project - 2cr.

NOTE:

1. MUSC4935 MUSIC BA CAPSTONE PROJECT - Capstone project proposal to be submitted to the program director by week 12, two semesters prior to registering for MUSC4935 MUSIC BA CAPSTONE PROJECT.

AND

Arts Elective (3 credits)

Complete the following:

- One class from ART or THEA department.

AND

Foreign Language Proficiency (16 credits)

Earn at least 16 credits

- See the BA Foreign Language Requirements on the Undergraduate Academic Credential Requirements page.

Upper-Division Music Electives (12 credits)

Additional courses at the 3000-level or higher or from the approved list below. Must be passed with a grade of C or higher.

Fulfill ANY of the following requirements:

Upper Division Courses

• Private Instruction (up to 4 credits in addition to the 4 required)
• Large Ensemble (up to 4 credits in addition to the 4 required)

NOTE: Students should consult with the program's academic advisor before selecting music electives to ensure that the university's graduation requirement of 40 upper-division credits is fulfilled.

OR

Additional Options for Upper-Division Music Electives

These lower-division courses have been approved to satisfy the upper-division music elective requirement:

Complete ANY of the following Courses:

- MUSC2130 - Aural Skills III - 1cr.
- MUSC2350 - Conducting - 2cr.
- MUSC2570 - Fingerboard Theory I - 2cr.
  AND MUSC2580 - Fingerboard Theory II - 2cr.
- MUSC2660 - Italian Diction for Singers - 2cr.
- MUSC2670 - German Diction for Singers - 2cr.
- MUSC2680 - French Diction for Singers - 2cr.

Recital and Concert Attendance Requirement

Complete the following:
To graduate, students are required to attend a minimum of 80 concerts or recitals. Recital and concert attendance is monitored and recorded in the Music Student Services office. Students should turn in programs after attending concerts and recitals for documentation of attendance.

Open Electives

Complete the following as needed:

Total elective credit is determined by General Education courses taken, degree type selected, additional credits earned, and any additional math or other prerequisite courses needed. Please consult your Academic Advisor for details.

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Bachelor's Degree)

Suggested Degree Maps

Degree Map Name
Suggested Degree Map - Music - BA
Total Degree Map Credits
122 - 128
Degree Map Effective Catalog Year
2026 -

Degree Map Narrative

- Following is a sample four-year plan. Please note that student-specific plans may differ.
- Meet with an academic advisor to create a specific plan that best fits your academic needs.
- The student is ultimately responsible for knowing and completing all degree requirements.
- Make sure you meet the registration requirements for each class by clicking the course link and checking any prerequisites or corequisites.
- Consultation with an advisor may result in an altered plan customized for an individual student.
- Check your Degree Works for requirements and completion.

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	16	0

Requirement Select

- Students with are pre-music majors are expected to enroll in MUSC 1105 during their first semester at USU. The course is intended to prepare students for MUSC 1110 - Music Theory I (BCA). Although the course is not required for graduation, it is expected that students will register for the course and either complete it or test out. Even if testing out, students must register for the course. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- ENGL1010 - Writing as Inquiry (CL1)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- This course is not a graduation requirement, however all students are expected to either take or test out of the course. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- MUSC1105 - Fundamentals for Music Majors (BCA)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- MUSC1170 - Keyboard Harmony I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- 1000-level Individual Pre-Music Instruction (major instrument specialization course) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Large Ensemble (see notes for course options) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Breadth Life Sciences (BLS) Course

  OR
- Breadth Physical Sciences (BPS) Course

  OR
- Breadth Social Sciences (BSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- General Electives (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- MUSC2180 - Computer Applications in Music Proficiency Exam

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	16 - 18	0

Requirement Select

- ENGL2010 - Research and Argument Across Perspectives (CL2)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- MUSC1110 - Music Theory I (BCA)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- MUSC1130 - Aural Skills I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- MUSC1180 - Keyboard Harmony II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- MUSC1190 - World Music

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- 1000-level Individual Pre-Music Instruction (major instrument specialization course) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Large Ensemble (see notes for course options) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Quantitative Literacy (QL) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 5
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	15	0

Requirement Select

- Music BA students must earn a total of 6 credits from either MUSC 3110 - Music History I: Antiquity through the Renaissance, MUSC 3120 - Music History II: The Baroque and Classical Periods, or MUSC 3190 - Music History III: Romanticism through the 21st Century (CI), passing with a grade of C or better. In addition, they must earn a total of 3 credits from either MUSC 3020 - History of Jazz (DHA) or MUSC 3030 - Rock and Roll-Catalyst for Social Change (DSS), passing with a grade of C or better. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- MUSC1120 - Music Theory II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	C
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- MUSC1140 - Aural Skills II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	C
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- MUSC3020 - History of Jazz (DHA)
  OR
- MUSC3030 - Rock and Roll-Catalyst for Social Change (DSS)
  OR
- MUSC3110 - Music History I: Antiquity through the Renaissance

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	C
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- 2000-level Individual Pre-Barrier Instruction (major instrument) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	C
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Large Ensemble (see notes for course options) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Arts Elective (One class from ART or THEA department) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	C
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Breadth Life Sciences (BLS) Course
  OR
- Breadth Physical Sciences (BPS) Course
  OR
- Breadth Social Sciences (BSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	C
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	14 - 16	0

Requirement Select

- Music BA students must earn a total of 6 credits from either MUSC 3110 - Music History I: Antiquity through the Renaissance, MUSC 3120 - Music History II: The Baroque and Classical Periods, or MUSC 3190 - Music History III: Romanticism through the 21st Century (CI), passing with a grade of C or better. In addition, they must earn a total of 3 credits from either MUSC 3020 - History of Jazz (DHA) or MUSC 3030 - Rock and Roll-Catalyst for Social Change (DSS), passing with a grade of C or better. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- MUSC2110 - Music Theory III

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	C
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- MUSC3020 - History of Jazz (DHA)
  OR
- MUSC3030 - Rock and Roll-Catalyst for Social Change (DSS)
  OR
- MUSC3120 - Music History II: The Baroque and Classical Periods

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	C
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Large Ensemble (see notes for course options) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	C
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- 3000- or 4000-level Individual Instruction (major instrument) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	C
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Quantitative Intensive (QI) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	C
Area	-
Actual Credits	3 - 5
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Breadth American Institutions (BAI) Course
  OR
- Breadth Humanities (BHU) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Fall	15	0

Requirement Select

- Music BA students must earn a total of 6 credits from either MUSC 3110 - Music History I: Antiquity through the Renaissance, MUSC 3120 - Music History II: The Baroque and Classical Periods, or MUSC 3190 - Music History III: Romanticism through the 21st Century (CI), passing with a grade of C or better. In addition, they must earn a total of 3 credits from either MUSC 3020 - History of Jazz (DHA) or MUSC 3030 - Rock and Roll-Catalyst for Social Change (DSS), passing with a grade of C or better. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- MUSC3020 - History of Jazz (DHA)
  OR
- MUSC3030 - Rock and Roll-Catalyst for Social Change (DSS)
  OR
- MUSC3190 - Music History III: Romanticism through the 21st Century (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	C
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Breadth American Institutions (BAI) Course
  OR
- Breadth Humanities (BHU) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Foreign Language (Bachelor of Arts Degree Requirements) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Music Elective (MUSC 3XXX or higher, or lower division course from the approved list) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- General Electives (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	C
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Spring	13	0

Requirement Select

- BA students must turn in a proposal for their capstone project to the program director by week 12 two semesters before signing up for the project credits. For most students this means the proposal will be due by week 12 of their third-to-last semester. Contact the BA program director for more information. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Foreign Language (Bachelor of Arts Degree Requirements) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Music Elective (MUSC 3XXX or higher, or lower division course from the approved list) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Breadth Life Sciences (BLS) Course
  OR
- Breadth Physical Sciences (BPS) Course
  OR
- Breadth Social Sciences (BSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- General Electives (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Fall	16	0

Requirement Select

- BA students must turn in a proposal for their capstone project to the program director by week 12 two semesters before signing up for the project credits. For most students this means the proposal will be due by week 12 of their third-to-last semester. Contact the BA program director for more information. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Foreign Language (Bachelor of Arts Degree Requirements) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Music Elective (MUSC 3XXX or higher, or lower division course from the approved list) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Communications Intensive (CI) Courses

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Depth Life and Physical Sciences (DSC) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- General Electives (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Spring	17 - 19	0

Requirement Select
- Foreign Language (Bachelor of Arts Degree Requirements) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Music Elective (MUSC 3XXX or higher, or lower division course from the approved list) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- MUSC4920 - Senior Recital
  OR
- MUSC4935 - Music BA Capstone Project

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1 - 3
Progress Credits	-
Contact Hours	1 - 3
Clinical	-
Criticality	No

Requirement Select
- Communications Intensive (CI) Courses
  OR
- (if MUSC 3190 is not taken any previous semester) (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Depth Social Sciences (DSS) Course
  OR
- if MUSC 3030 is not taken any previous semester) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- General Electives (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	Total Major Credits
0	0

Total Minor Credits	Total Elective Credits
0	0

Program Learning Outcomes

Program Learning Outcomes

https://artsci.usu.edu/assessments/

Music: Composition - BA

Program Overview

College	Department	Program Level
College of Arts & Sciences	Music	Undergraduate

About this Degree

Students in the Bachelor of Arts in Music program develop excellence in music within the context of the liberal arts. Core courses in music are complemented by a range of electives outside music, including language study. BA students have a high degree of flexibility in choosing their electives, making this program perfect for students interested in a double major or careers in arts administration, music business, musicology, and music theory, among others. The BA is also suitable for students who wish to study music in college but learn a broad range of skills that can be transferred to careers or graduate study in other fields. For more information, read the BA in Music Student Guide or refer to the Music BA - 4 Year Degree Map.

Composition Emphasis

Students wishing a more directed experience in the context of the music BA degree can elect to adopt an emphasis in composition for the BA. This does not change the entrance requirements, or the curriculum for general education, musicianship, or performance. However, upper-level music electives are specific to the Composition Emphasis.

- For more information about the Music BA Composition Emphasis, see the department website.
- All music majors must pass an audition to be admitted
- Admitted and current students must meet with an advisor.
- Log on to Degree Works to check student-specific program progress.
- The highest math requirement for this degree is the Quantitative Literacy (QL) of the student's choice.

Admission Requirements for this Program

- New freshmen:
    - Admitted to USU in Good Standing
    - Must pass entrance audition on primary instrument
- Transfer students from other institutions or other programs at USU:
    - Admitted to USU in Good Standing
    - Must pass entrance audition on primary instrument

Program Requirements

Total Credits Required In Program Coursework	Total Credits Required To Earn This Credential
66	120

Simple Requisites

Program Requirements

Course Grades and GPA Minimums

To maintain Music Major (and Pre-Music Major) status at USU, students must:

1. **Complete all Individual Instruction (primary instrument) courses with a grade of B- or higher**
    - Any grade lower than B- will result in an extra required semester of Individual Instruction.

- Any subsequent semester in which a student fails to meet this minimum grade may result in dismissal from the music program.

2. **Complete all music major core and emphasis classes with a grade of C or higher**
    - Any music course grade lower than C will not count towards graduation.
    - Core courses may be repeated once in an attempt to earn a grade of C or better.
    - Any subsequent semester in which a student fails to meet this minimum grade may result in dismissal from the music program.
4. **Maintain a 3.0 cumulative GPA in all courses that fulfill a degree/emphasis requirement.**
    - This GPA does not include general education and depth courses.
    - This GPA does not include the STEP courses for Music Education majors.
    - If a student's degree/emphasis GPA falls under this minimum, the student will be placed on departmental academic probation for one semester.
    - Inability to meet this degree/emphasis GPA during the probationary period will result in referral to the department head who in consultation with the appropriate faculty member(s) will determine if the student shall be allowed to remain a music major through an extension of the probationary period.

GRADING SCALE for music courses:

93-100 A

90-92.99 A-

87-89.99 B+

83-86.99 B

80-82.99 B- Lowest grade for individual instruction to fulfill graduation requirements)

77-79.99 C+

73-76.99 C Lowest grade for all other program courses to fulfill graduation requirements)

70-72.99 C-

67-69.99 D+

60-66.99 D

59.99 or below F

Music: Composition - BA

Type
Completion Requirement

Musicianship (25 credits)

Musicianship courses must be passed with a grade of C or higher. Minimum GPA for all required program courses is 3.0.

Fulfill ALL of the following requirements:

Required Courses

Complete ALL of the following Courses:

- MUSC1110 - Music Theory I (BCA) - 3cr.
- MUSC1120 - Music Theory II - 3cr.
- MUSC1130 - Aural Skills I - 1cr.
- MUSC1140 - Aural Skills II - 1cr.
- MUSC1170 - Keyboard Harmony I - 1cr.
- MUSC1180 - Keyboard Harmony II - 1cr.
- MUSC1190 - World Music - 3cr.
- MUSC2110 - Music Theory III - 3cr.

AND

Music History Courses

Complete at least 2 of the following courses:

- MUSC3110 - Music History I: Antiquity through the Renaissance - 3cr.
- MUSC3120 - Music History II: The Baroque and Classical Periods - 3cr.
- MUSC3190 - Music History III: Romanticism through the 21st Century (CI) - 3cr.

AND

Required Courses

Complete at least 1 of the following courses:

- MUSC3020 - History of Jazz (DHA) - 3cr.
- MUSC3030 - Rock and Roll-Catalyst for Social Change (DSS) - 3cr.

Specialization (29 credits)

All individual instruction courses must be passed with a grade of B- or better. All other music courses must be passed with a grade of C or better. Major requirements may *not* be taken on a pass/fail basis. Minimum GPA for all required courses is a 3.0.

Fulfill ALL of the following requirements:

Individual Instruction: 4 semesters (1-2 credits)

- Must be on same instrument/voice; must include 1 semester past barrier jury.
- Register for 1 or 2 credits per major instrument area requirement.

Complete the following:

- MUSC 1/2/3/4XXX Individual Instruction (4 semesters)

AND

Large Ensemble (4 credits)

Upper-division large ensembles are recommended for fulfillment of 40 upper-division credit requirement.

Complete the following:

- MUSC 2/3/4XXX Large Ensemble

AND

Capstone (2 credits minimum)

Capstone project proposal to be submitted to the program director by week 12, two semesters prior to registering for MUSC4935 MUSIC BA CAPSTONE PROJECT.

Complete ALL of the following Courses:

- MUSC4935 - Music BA Capstone Project - 2cr.

AND

Arts Elective (3 credits)

Complete the following:

- One class from ART, ARTH, or THEA department.

AND

Foreign Language Proficiency (16 credits)

Complete the following:
See the BA Foreign Language Requirements on the Undergraduate Academic Credential Requirements page.

Composition Emphasis (12 credits minimum)

Fulfill ALL of the following requirements:

Required Courses

Complete ALL of the following Courses:

- MUSC3170 - Special Topics in Music Theory - 3cr.
- MUSC3180 - Orchestration - 2cr.
- MUSC3910 - Individual Composition Instruction - 1cr.
- MUSC3915 - Composition Seminar - 1cr.

NOTE:

1. MUSC3910 COMPOSITION INSTR - 2 credit minimum.
2. MUSC3915 COMPOSITION SEMINAR - 2 credit minimum.

AND

Composition Elective Credits (3 credits)

Earn at least 3 credits from the following:

- MUSC2350 - Conducting - 2cr.
- MUSC3900 - Improvisation I - 2cr.
- MUSC3910 - Individual Composition Instruction - 1cr.
- MUSC3915 - Composition Seminar - 1cr.

• Other classes approved by BA faculty mentor.

Open Electives (24 credits)

Complete the following as needed:
Total elective credit is determined by General Education courses taken, degree type selected, additional credits earned, and any additional math or other prerequisite courses needed. Please consult your Academic Advisor for details.

Recital and Concert Attendance Requirement

Complete the following:
To graduate, students are required to attend a minimum of 80 concerts or recitals. Recital and concert attendance is monitored and recorded in the Music Student Services office. Students should turn in programs after attending concerts and recitals for documentation of attendance.

Additional Comments:

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Bachelor's Degree)

Suggested Degree Maps

Degree Map Name
Suggested Degree Map - Music: Composition - BA
Total Degree Map Credits
120 - 130
Degree Map Effective Catalog Year
2026 -

Degree Map Narrative

- Following is a sample four-year plan. Please note that student-specific plans may differ.
- Meet with an academic advisor to create a specific plan that best fits your academic needs.
- The student is ultimately responsible for knowing and completing all degree requirements.
- Make sure you meet the registration requirements for each class by clicking the course link and checking any prerequisites or corequisites.
- Consultation with an advisor may result in an altered plan customized for an individual student.
- Check your Degree Works for requirements and completion.

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	15	0

Requirement Select

- Students that are pre-music majors are expected to enroll in MUSC 1105 during their first semester at USU. The course is intended to prepare students for MUSC 1110 - Music Theory I (BCA). Although the course is not required for graduation, it is expected that students will register for the course and either complete it or test out. Even if testing out, students must register for the course. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- ENGL1010 - Writing as Inquiry (CL1)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Although MUSC1105 is not a requirement for graduation is it expected that all students will take or test out (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- MUSC1105 - Fundamentals for Music Majors (BCA)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- MUSC1170 - Keyboard Harmony I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- 1000-level Individual Pre-Music Instruction (major instrument) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Breadth Physical Sciences (BPS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- General Electives (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- MUSC2600 - Sapphire Singers
  OR
- MUSC3500 - Symphony Orchestra (DHA)
  OR
- MUSC3530 - Cache Symphony Orchestra
  OR
- MUSC3785 - Marching Band (DHA)
  OR
- MUSC3790 - Symphonic Band (DHA)
  OR
- MUSC4600 - University Chorale (DHA)
  OR
- MUSC4650 - Chamber Singers (DHA)
  OR
- MUSC4700 - Wind Orchestra (DHA)
  OR
- MUSC5640 - American Festival Chorus

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	16 - 18	0

Requirement Select

- ENGL2010 - Research and Argument Across Perspectives (CL2)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- MUSC1110 - Music Theory I (BCA)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- MUSC1130 - Aural Skills I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- MUSC1180 - Keyboard Harmony II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- MUSC1190 - World Music

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- 1000-level Individual Pre-Music Instruction (major instrument) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Quantitative Literacy (QL) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 5
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Large Ensemble (1 credit): Choose from the courses below: (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- MUSC2600 - Sapphire Singers
  OR
- MUSC3500 - Symphony Orchestra (DHA)
  OR
- MUSC3530 - Cache Symphony Orchestra
  OR
- MUSC3785 - Marching Band (DHA)
  OR
- MUSC3790 - Symphonic Band (DHA)
  OR
- MUSC4600 - University Chorale (DHA)
  OR
- MUSC4650 - Chamber Singers (DHA)
  OR
- MUSC4700 - Wind Orchestra (DHA)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	15	0

Requirement Select

- Music BA students must earn a total of 6 credits from either MUSC 3110 - Music History I: Antiquity through the Renaissance, MUSC 3120 - Music History II: The Baroque and Classical Periods, or MUSC 3190 - Music History III: Romanticism through the 21st Century (CI), passing with a grade of C or better. In addition, they must earn a total of 3 credits from either MUSC 3020 - History of Jazz (DHA) or MUSC 3030 - Rock and Roll-Catalyst for Social Change (DSS), passing with a grade of C or better. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- MUSC1120 - Music Theory II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- MUSC1140 - Aural Skills II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- MUSC3020 - History of Jazz (DHA)
  OR
- MUSC3030 - Rock and Roll-Catalyst for Social Change (DSS)
  OR
- MUSC3110 - Music History I: Antiquity through the Renaissance

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- 2000-level Individual Pre-Barrier Instruction (major instrument) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Arts Elective (One class from ART or THEA department) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Breadth Life Sciences (BLS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Large Ensemble (1 credit): Choose from the list below: (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- MUSC2600 - Sapphire Singers
  OR
- MUSC3500 - Symphony Orchestra (DHA)
  OR
- MUSC3530 - Cache Symphony Orchestra
  OR
- MUSC3785 - Marching Band (DHA)
  OR
- MUSC3790 - Symphonic Band (DHA)
  OR
- MUSC4600 - University Chorale (DHA)
  OR
- MUSC4650 - Chamber Singers (DHA)
  OR
- MUSC4700 - Wind Orchestra (DHA)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	14 - 16	0

Requirement Select

- Music BA students must earn a total of 6 credits from either MUSC 3110 - Music History I: Antiquity through the Renaissance, MUSC 3120 - Music History II: The Baroque and Classical Periods or MUSC 3190 - Music History III: Romanticism through the 21st Century (CI), passing with a grade of C or better. In addition, they must earn a total of 3 credits from either MUSC 3020 - History of Jazz (DHA) or MUSC 3030 - Rock and Roll-Catalyst for Social Change (DSS), passing with a grade of C or better. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- MUSC2110 - Music Theory III

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- MUSC3020 - History of Jazz (DHA)
  OR
- MUSC3030 - Rock and Roll-Catalyst for Social Change (DSS)
  OR
- MUSC3120 - Music History II: The Baroque and Classical Periods

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- 3000- or 4000-level Individual Instruction (major instrument) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Quantitative Intensive (QI) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 5
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Breadth American Institutions (BAI) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Large Ensemble (1 credit): Choose from the courses below: (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- MUSC2600 - Sapphire Singers
  OR
- MUSC3500 - Symphony Orchestra (DHA)
  OR
- MUSC3530 - Cache Symphony Orchestra
  OR
- MUSC3785 - Marching Band (DHA)
  OR
- MUSC3790 - Symphonic Band (DHA)
  OR
- MUSC4600 - University Chorale (DHA)
  OR
- MUSC4650 - Chamber Singers (DHA)
  OR
- MUSC4700 - Wind Orchestra (DHA)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

-

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Fall	17 - 18	0

Requirement Select

- Music BA students must earn a total of 6 credits from either MUSC 3110 - Music History I: Antiquity through the Renaissance, MUSC 3120 - Music History II: The Baroque and Classical Periods, or MUSC 3190 - Music History III: Romanticism through the 21st Century (CI), passing with a grade of C or better. In addition, they must earn a total of 3 credits from either MUSC 3020 - History of Jazz (DHA) or MUSC 3030 - Rock and Roll-Catalyst for Social Change (DSS), passing with a grade of C or better. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- MUSC3020 - History of Jazz (DHA)
  OR
- MUSC3030 - Rock and Roll-Catalyst for Social Change (DSS)
  OR
- MUSC3190 - Music History III: Romanticism through the 21st Century (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- MUSC3170 - Special Topics in Music Theory

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- MUSC3910 - Individual Composition Instruction

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1 - 2
Progress Credits	-
Contact Hours	1 - 2
Clinical	-
Criticality	No

Requirement Select

- MUSC3915 - Composition Seminar

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- Breadth Humanities (BHU) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Foreign Language (Undergraduate Academic Credential Requirements) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- General Electives (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Spring	16 - 17	0

Requirement Select
- BA students must turn in a proposal for their capstone project to the program director by week 12 two semesters before signing up for the project credits. For most students this means the proposal will be due by week 12 of their third-to-last semester. Contact the BA program director for more information. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- MUSC3180 - Orchestration

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select
- MUSC3910 - Individual Composition Instruction

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1 - 2
Progress Credits	-
Contact Hours	1 - 2
Clinical	-
Criticality	No

Requirement Select
- MUSC3915 - Composition Seminar

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- Foreign Language (Undergraduate Academic Credential Requirements (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Breadth Social Sciences (BSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Depth Life and Physical Sciences (DSC) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- General Electives (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Fall	14	0

Requirement Select
- BA students must turn in a proposal for their capstone project to the program director by week 12 two semesters before signing up for the project credits. For most students this means the proposal will be due by week 12 of their third-to-last semester. Contact the BA program director for more information. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- MUSC2350 - Conducting
  OR
- Composition elective(s) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select
- Foreign Language (Undergraduate Academic Credential Requirements) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Communications Intensive (CI) Courses

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- General Elective (3 credits) (Generic)
  OR
- Communications Intensive (CI) Courses
  OR
- if MUSC 3190 not taken previously (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- General Electives (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Spring	13 - 17	0

Requirement Select

- MUSC3900 - Improvisation I
  OR
- Composition Elective(s) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select

- MUSC4935 - Music BA Capstone Project

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2 - 3
Progress Credits	-
Contact Hours	2 - 3
Clinical	-
Criticality	No

Requirement Select

- Foreign Language (Undergraduate Academic Credential Requirements) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Depth Social Sciences (DSS) Course
  OR
- f MUSC 3030 is not taken any previous semester) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	0 - 3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- General Electives (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	5
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Program Learning Outcomes

Program Learning Outcomes

https://artsci.usu.edu/assessments/

Music: Guitar Performance - BM

Program Overview

College
College of Arts & Sciences

Department
Music

Program Level
Undergraduate

About this Degree

The Guitar Performance degree at Utah State University has a strong legacy and has helped many students become international performers, educators, and writers. USU offers a unique experience for guitar students that transcends style by covering many styles (not just jazz and classical music).

We want our graduates to find THEIR voice but want them to arrive at originality with skills rooted in tradition that reflects dedication to their art. We want them to be original voices that are relevant, authentic and rooted so they will stand the test of time. We will work with students to help them become performers that will outshine the competition because of their work and training.

Program Specifics

Performance majors are required, and given the opportunity, to play in guitar ensembles, jazz combos, and jazz big bands, as well as work with large choirs and smaller groups such as duos and trios. We offer styles classes that prepare guitar performance majors to play authentically in blues, and American folk styles. The Fingerboard Theory class accelerates students' knowledge of music theory, advanced jazz theory, and arranging for the guitar. There are many off-campus opportunities and venues to hone the skills that are worked on in class.

For specific information regarding coursework required to earn a Guitar emphasis, please refer to the BM Guitar Performance degree map.

- For more information about Guitar Performance, see the department website.
- All music majors must pass an Audition to be admitted.
- Admitted and current students must meet with an advisor.
- Log on to Degree Works to check student-specific program progress.
- The highest math requirement for this degree is the Quantitative Literacy (QL) of the student's choice.

Admission Requirements for this Program

- New freshmen: Admitted to USU in Good Standing
- Transfer students from other institutions or other programs at USU: 2.75 GPA
- **Must** pass entrance audition on primary instrument

Program Requirements

Total Credits Required In Program Coursework
79

Total Credits Required To Earn This Credential
120

Simple Requisites

Program Requirements

Course Grades and GPA Minimums

To maintain Music Major (and Pre-Music Major) status at USU, students must:

1. **Complete all Individual Instruction (primary instrument) courses with a grade of B- or higher**
    - Any grade lower than B- will result in an extra required semester of Individual Instruction.
    - Any subsequent semester in which a student fails to meet this minimum grade may result in dismissal from the music program.
2. **Complete all music major core and emphasis classes with a grade of C or higher**
    - Any music course grade lower than C will not count towards graduation.
    - Core courses may be repeated once in an attempt to earn a grade of C or better.
    - Any subsequent semester in which a student fails to meet this minimum grade may result in dismissal from the music program.
3. **Maintain a 3. 0 cumulative GPA in all courses that fulfill a degree/ emphasis requirement.**
    - This GPA does not include general education and depth courses.
    - This GPA does not include the STEP courses for Music Education majors.
    - If a student's degree/emphasis GPA falls under this minimum, the student will be placed on departmental academic probation for one semester.
    - Inability to meet this degree/emphasis GPA during the probationary period will result in referral to the department head who in consultation with the appropriate faculty member(s) will determine if the student shall be allowed to remain a music major through an extension of the probationary period.

GRADING SCALE for music courses:

93-100 A

90-92. 99 A-

87-89. 99 B+

83-86. 99 B

80-82. 99 B- Lowest grade for individual instruction to fulfill graduation requirements)

77-79. 99 C+

73-76. 99 C Lowest grade for all other program courses to fulfill graduation requirements)

70-72. 99 C-

67-69. 99 D+

60-66. 99 D

59. 99 or below F

Music - Guitar Performance - BM

Type
Completion Requirement

BM Performance Music Core Curriculum (33 credits)

Earn a minimum grade of C in the following:

- MUSC1110 - Music Theory I (BCA) - 3cr.
- MUSC1120 - Music Theory II - 3cr.
- MUSC1130 - Aural Skills I - 1cr.
- MUSC1140 - Aural Skills II - 1cr.
- MUSC1170 - Keyboard Harmony I - 1cr.

- MUSC1180 - Keyboard Harmony II - 1cr.
- MUSC1190 - World Music - 3cr.
- MUSC2110 - Music Theory III - 3cr.
- MUSC2130 - Aural Skills III - 1cr.
- MUSC2180 - Computer Applications in Music Proficiency Exam - 1cr.
- MUSC3110 - Music History I: Antiquity through the Renaissance - 3cr.
- MUSC3120 - Music History II: The Baroque and Classical Periods - 3cr.
- MUSC3170 - Special Topics in Music Theory - 3cr.
- MUSC3190 - Music History III: Romanticism through the 21st Century (CI) - 3cr.
- MUSC3920 - Junior Recital - 1cr.
- MUSC4920 - Senior Recital - 1cr.

NOTE:

1. MUSC3920 JUNIOR RECITAL - 1 credit; 30-minute recital.
2. MUSC4920 SENIOR RECITAL - 2 credits; 60-minute recital.

Guitar Performance Requirements (46 credits)

All individual instruction courses must be passed with a grade of B- or better. All other music courses must be passed with a grade of C or better. Major requirements may *not* be taken on a pass/fail basis. Minimum GPA for all required courses is a 3.0.

Fulfill ALL of the following requirements:

Required Courses

Complete ALL of the following Courses:

- MUSC1585 - Individual Pre-music Guitar Instruction - 1cr.
- MUSC2350 - Conducting - 2cr.
- MUSC2550 - Guitar Styles: Blues - 2cr.
- MUSC2560 - Guitar Styles: Bluegrass/Folk - 2cr.
- MUSC2570 - Fingerboard Theory I - 2cr.
- MUSC2580 - Fingerboard Theory II - 2cr.
- MUSC2595 - Individual Pre-Barrier Guitar Instruction - 1cr.
- MUSC3180 - Orchestration - 2cr.
- MUSC3550 - Individual Guitar Instruction for Music Majors - 1cr.
- MUSC3570 - Guitar Pedagogy I - 2cr.
- MUSC3580 - Guitar Pedagogy II - 2cr.
- MUSC3590 - Electric Guitar Ensemble - 1cr.
  OR MUSC4550 - Acoustic Guitar Ensemble - 1cr.

NOTE:

1. MUSC1585 GUITAR INSTR-PREMUSIC - First year fall and first year spring semesters for a total of 4 credits.
2. MUSC2595 GUITAR INSTR-PREBARRIER - Second year fall semester for a total of 2 credits.
3. MUSC3550 GUITAR INSTR - 5 remaining semesters for a total of 10 credits.

AND

Large Ensemble.

8 credits minimum of large ensemble. Any combination of these two courses satisfies requirements.

Earn at least 8 credits from the following:

- MUSC3900 - Improvisation I - 2cr.
- MUSC3905 - Improvisation II - 2cr.

AND

Music Electives (2 credits)

Complete the following:

- Any MUSC-prefix course.

Recital and Concert Attendance Requirement

Complete the following:
To graduate, students are required to attend a minimum of 80 concerts or recitals. Recital and concert attendance is monitored and recorded in the Music Student Services office. Students should turn in programs after attending concerts and recitals for documentation of attendance.

Open Electives.

Complete the following as needed:
Total elective credit is determined by General Education courses taken, degree type selected, additional credits earned, and any additional math or other prerequisite courses needed. Please consult your Academic Advisor for details.

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Bachelor's Degree)

Suggested Degree Maps

Degree Map Name
Suggested Degree Map - Music: Guitar Performance - BM
Total Degree Map Credits
118 - 122
Degree Map Effective Catalog Year
2026 -

Degree Map Narrative

- Following is a sample four-year plan. Please note that student-specific plans may differ.
- Meet with an academic advisor to create a specific plan that best fits your academic needs.
- The student is ultimately responsible for knowing and completing all degree requirements.
- Make sure you meet the registration requirements for each class by clicking the course link and checking any prerequisites or corequisites.
- Consultation with an advisor may result in an altered plan customized for an individual student.
- Check your Degree Works for requirements and completion.

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	16 - 18	0

Requirement Select

- *Students that are pre-music majors are expected to enroll in MUSC 1105 during their first semester at USU. The course is intended to prepare students for MUSC 1110 - Music Theory I (BCA). Although the course is not required for graduation, it is expected that students will register for the course and either complete it or test out. Even if testing out, students must register for the course. ** MUSC 2180 consists of a series of three proficiency exams that all music majors must complete prior to the completion of four semesters of study. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- ENGL1010 - Writing as Inquiry (CL1)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- MUSC1105 - Fundamentals for Music Majors (BCA)

  OR
- Integrated Studies Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- MUSC2180 - Computer Applications in Music Proficiency Exam

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- MUSC2570 - Fingerboard Theory I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select

- Register for 2 credits of MUSC1585 (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- MUSC1585 - Individual Pre-music Guitar Instruction

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	1 - 2
Clinical	-
Criticality	No

Requirement Select

- MUSC3590 - Electric Guitar Ensemble
  OR
- MUSC4550 - Acoustic Guitar Ensemble

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- Quantitative Literacy (QL) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 5
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- MUSC1170 - Keyboard Harmony I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	16	0

Requirement Select

- ENGL2010 - Research and Argument Across Perspectives (CL2)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- MUSC1110 - Music Theory I (BCA)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- MUSC1130 - Aural Skills I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- MUSC1180 - Keyboard Harmony II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- MUSC1190 - World Music

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- MUSC2580 - Fingerboard Theory II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select

- Register for 2 credits of MUSC1585 (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- MUSC1585 - Individual Pre-music Guitar Instruction

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	1 - 2
Clinical	-
Criticality	No

Requirement Select

- MUSC3590 - Electric Guitar Ensemble

  OR
- MUSC4550 - Acoustic Guitar Ensemble

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	12	0

Requirement Select

- MUSC1120 - Music Theory II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- MUSC1140 - Aural Skills II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- MUSC2550 - Guitar Styles: Blues

  OR
- MUSC3570 - Guitar Pedagogy I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select

- MUSC3110 - Music History I: Antiquity through the Renaissance

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Register for 2 credits of MUSC2595 (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- MUSC2595 - Individual Pre-Barrier Guitar Instruction

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	1 - 2
Clinical	-
Criticality	No

Requirement Select
- MUSC3590 - Electric Guitar Ensemble
  OR
- MUSC4550 - Acoustic Guitar Ensemble

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	15 - 17	0

Requirement Select
- MUSC2110 - Music Theory III

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- MUSC2130 - Aural Skills III

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- MUSC2560 - Guitar Styles: Bluegrass/Folk
  OR
- MUSC3580 - Guitar Pedagogy II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select
- MUSC3120 - Music History II: The Baroque and Classical Periods

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Register for 2 credits of MSC3550 (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- MUSC3550 - Individual Guitar Instruction for Music Majors

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	1 - 2
Clinical	-
Criticality	No

Requirement Select

- MUSC3590 - Electric Guitar Ensemble
  OR
- MUSC4550 - Acoustic Guitar Ensemble

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- Quantitative Intensive (QI) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 5
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Fall	16	0

Requirement Select

- *A music theory elective course is offered every fall and spring semester. The music theory elective course may be taken any semester after completing MUSC 2110 with a grade of C or better. Music students should plan which option they wish to take and consult with the music department office regarding which semester that option will be offered. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- MUSC3170 - Special Topics in Music Theory

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- MUSC2350 - Conducting

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select

- MUSC3190 - Music History III: Romanticism through the 21st Century (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Register for 2 credits of MUSC3550 (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- MUSC3550 - Individual Guitar Instruction for Music Majors

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	1 - 2
Clinical	-
Criticality	No

Requirement Select

- MUSC3570 - Guitar Pedagogy I
  OR
- MUSC2550 - Guitar Styles: Blues

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select

- MUSC3590 - Electric Guitar Ensemble
  OR
- MUSC4550 - Acoustic Guitar Ensemble

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- Breadth Life Sciences (BLS) Course
  OR
- Breadth Social Sciences (BSS) Course
  OR
- Breadth Physical Sciences (BPS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Spring	14	0

Requirement Select

- Register for 2 credits of MUSC3550 (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- MUSC3550 - Individual Guitar Instruction for Music Majors

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	1 - 2
Clinical	-
Criticality	No

Requirement Select

- MUSC3580 - Guitar Pedagogy II
  OR
- MUSC2560 - Guitar Styles: Bluegrass/Folk

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select

- MUSC3590 - Electric Guitar Ensemble
  OR
- MUSC4550 - Acoustic Guitar Ensemble

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- MUSC3900 - Improvisation I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select

- Register for 1 credit of MUSC3920 (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- MUSC3920 - Junior Recital

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1 - 2
Clinical	-
Criticality	No

Requirement Select

- Breadth Physical Sciences (BPS) Course
  OR
- Breadth Life Sciences (BLS) Course
  OR
- Breadth Social Sciences (BSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Communications Intensive (CI) Courses

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Fall	14	0

Requirement Select

- Register for 2 credits of MUSC3550 (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- MUSC3550 - Individual Guitar Instruction for Music Majors

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	1 - 2
Clinical	-
Criticality	No

Requirement Select

- MUSC3590 - Electric Guitar Ensemble
  OR
- MUSC4550 - Acoustic Guitar Ensemble

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- MUSC3905 - Improvisation II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select

- Depth Social Sciences (DSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Breadth American Institutions (BAI) Course
  OR
- Breadth Humanities (BHU) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Music Electives (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Spring	15	0

Requirement Select

- MUSC3180 - Orchestration

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select

- Register for 2 credits of MUSC3550 (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- MUSC3550 - Individual Guitar Instruction for Music Majors

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	1 - 2
Clinical	-
Criticality	No

Requirement Select

- MUSC3590 - Electric Guitar Ensemble
  OR
- MUSC4550 - Acoustic Guitar Ensemble

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- Register for 2 credits for MUSC4920 (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- MUSC4920 - Senior Recital

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	1 - 2
Clinical	-
Criticality	No

Requirement Select

- Register for 2 credits of MUSC4930 (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- MUSC4930 - Readings and Conference

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	1 - 6
Clinical	-
Criticality	No

Requirement Select

- Depth Life and Physical Sciences (DSC) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Breadth Humanities (BHU) Course
  OR
- Breadth American Institutions (BAI) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Program Learning Outcomes

Program Learning Outcomes

https://artsci.usu.edu/assessments/

Music - Harp Performance - BM

Program Overview

College
College of Arts & Sciences

Department
Music

Program Level
Undergraduate

About this Degree

The Harp Program at Utah State University offers a rigorous, rewarding, and well-rounded experience that prepares students for graduate study or a professional career in teaching and performing. The focus is on the whole person, cultivating and fostering a healthy, engaged, and creative individual. By putting into action what is learned during one-to-one instruction, students solidify technical goals and explore their own musical personality while developing critical faculties students need for wherever life takes them.

Harp Performance is an emphasis for students who are passionate about discovering all that a musical life offers in an environment that encourages individual exploration.

Opportunities abound in the professional world as a teacher, a member of an orchestra or a military band, studio musician, therapeutic musician, and entrepreneur. In addition to many other professional possibilities, graduates of Utah State University will be prepared to continue their study at the next level in a graduate program. Most importantly, students learn that their future depends on their ability to create opportunities for themselves, to be proactive, seeking their musical life goals, rather than expecting them to materialize upon graduation.

Program Specifics

In addition to the core general education and music courses, harpists take classes exploring the multi-faceted world of their instrument. Focusing on the breadth of the harp repertoire, students learn about various musical styles including: orchestral, choral, chamber, contemporary, ballet, and popular music. Participation in a Harp Pedagogy and Solo Literature class prepares harpists to teach students of all ages and provides the opportunity to survey the solo repertoire.

Harpists collaborate in chamber music each semester with performers from other areas of the music department as well as fellow harpists. The latter may include harp ensemble.

Musical elements such as breathing and phrasing are reinforced in private voice lessons or a voice techniques class, while individual percussion instruction allows for focused concentration on timing and rhythm.

A healthy body and mind are fortified through yoga classes, performance exercises, and an educational atmosphere that inspires internal motivation.

For specific information regarding coursework required to earn a Harp emphasis, please refer to the BM Harp Performance degree map.

- For more information about Harp Performance, see the department website.
- All music majors must pass an audition to be admitted.
- Admitted and current students must meet with an advisor.
- Log on to Degree Works to check student-specific program progress.
- The highest math requirement for this degree is the Quantitative Literacy (QL) of the student's choice.

Admission Requirements for this Program

- **Must** pass entrance audition on primary instrument
- New freshmen: Admitted to USU in Good Standing
- Transfer students from other institutions or other programs at USU: 2.75 GPA

Program Requirements

Total Credits Required In Program Coursework
67

Total Credits Required To Earn This Credential
120

Simple Requisites

Program Requirements

To maintain Music Major (and Pre-Music Major) status at USU, students must:

1. **Complete all Individual Instruction (primary instrument) courses with a grade of B- or higher**
    - Any grade lower than B- will result in an extra required semester of Individual Instruction.
    - Any subsequent semester in which a student fails to meet this minimum grade may result in dismissal from the music program.
2. **Complete all music major core and emphasis classes with a grade of C or higher**
    - Any music course grade lower than C will not count towards graduation.
    - Core courses may be repeated once in an attempt to earn a grade of C or better.
    - Any subsequent semester in which a student fails to meet this minimum grade may result in dismissal from the music program.
3. **Maintain a 3. 0 cumulative GPA in all courses that fulfill a degree/ emphasis requirement.**
    - This GPA does not include general education and depth courses.
    - This GPA does not include the STEP courses for Music Education majors.
    - If a student's degree/emphasis GPA falls under this minimum, the student will be placed on departmental academic probation for one semester.
    - Inability to meet this degree/emphasis GPA during the probationary period will result in referral to the department head who in consultation with the appropriate faculty member(s) will determine if the student shall be allowed to remain a music major through an extension of the probationary period.

GRADING SCALE for music courses:

93-100 A

90-92. 99 A-

87-89. 99 B+

83-86. 99 B

80-82. 99 B- Lowest grade for individual instruction to fulfill graduation requirements)

77-79. 99 C+

73-76. 99 C Lowest grade for all other program courses to fulfill graduation requirements)

70-72. 99 C-

67-69. 99 D+

60-66. 99 D

59. 99 or below F

Music - Harp Performance - BM

Type
Completion Requirement

BM Performance Music Core Curriculum (33 credits)

Earn a minimum grade of C in the following:

- MUSC1110 - Music Theory I (BCA) - 3cr.
- MUSC1120 - Music Theory II - 3cr.
- MUSC1130 - Aural Skills I - 1cr.
- MUSC1140 - Aural Skills II - 1cr.
- MUSC1170 - Keyboard Harmony I - 1cr.
- MUSC1180 - Keyboard Harmony II - 1cr.
- MUSC1190 - World Music - 3cr.
- MUSC2110 - Music Theory III - 3cr.
- MUSC2130 - Aural Skills III - 1cr.
- MUSC2180 - Computer Applications in Music Proficiency Exam - 1cr.
- MUSC3110 - Music History I: Antiquity through the Renaissance - 3cr.
- MUSC3120 - Music History II: The Baroque and Classical Periods - 3cr.
- MUSC3170 - Special Topics in Music Theory - 3cr.
- MUSC3190 - Music History III: Romanticism through the 21st Century (CI) - 3cr.
- MUSC3920 - Junior Recital - 1cr.
- MUSC4920 - Senior Recital - 1cr.

NOTE:

1. MUSC3920 JUNIOR RECITAL - 1 credit; 30-minute recital.
2. MUSC4920 SENIOR RECITAL - 2 credits; 60-minute recital.

Harp Performance Requirements (34 credits)

All individual instruction courses must be passed with a grade of B- or better. All other music courses must be passed with a grade of C or better. Major requirements may *not* be taken on a pass/fail basis. Minimum GPA for all required courses is a 3.0.

Fulfill ALL of the following requirements:

Required Courses

Complete ALL of the following Courses:

- MUSC1225 - Individual Pre-Music Harp Instruction - 1cr.
- MUSC2225 - Individual Pre-Barrier Harp Instruction - 1cr.
- MUSC3210 - Individual Harp Instruction for Music Majors - 1cr.
- MUSC1600 - Voice Techniques - 1cr.
  OR MUSC2640 - Individual Vocal Instruction (Second Instrument) for Music Majors - 1cr.
- MUSC2350 - Conducting - 2cr.
- MUSC2890 - Individual Percussion Instruction (Second Instrument) for Music Majors - 1cr.
- MUSC3180 - Orchestration - 2cr.
- MUSC4500 - String Ensemble - 1cr.
- MUSC4930 - Readings and Conference - 1cr.
  OR MUSC4730 - Directed Project in Instrumental Pedagogy and Literature (CI) - 3cr.
- PE1057 - Yoga - 1cr.

NOTE:

1. MUSC1225 HARP INSTR-PREMUSIC - First year fall and first year spring semesters for a total of 2 credits.
2. MUSC2225 HARP INSTR-PREBARRIER - Second year fall semester for a total of 1 credit.
3. MUSC3210 HARP INSTR - 5 remaining semesters for a total of 5 credits.
4. MUSC4500 STRING ENSEMBLE - 8 semesters of Chamber Ensembles.
5. MUSC4930 READINGS AND CONFERENCE - 4 credits total.
6. MUSC4730 DIR PROJ INST PED AND LIT (CI) - 3 credits total.

AND

Large Ensembles (8 credits)

Earn at least 8 credits from the following:

- MUSC2600 - Sapphire Singers - 1cr.
- MUSC2745 - Wind Symphony - 1cr.
- MUSC3500 - Symphony Orchestra (DHA) - 1cr.
- MUSC3530 - Cache Symphony Orchestra - 1cr.
- MUSC3790 - Symphonic Band (DHA) - 1cr.
- MUSC4600 - University Chorale (DHA) - 1cr.
- MUSC4650 - Chamber Singers (DHA) - 1cr.
- MUSC4700 - Wind Orchestra (DHA) - 1cr.
- MUSC5640 - American Festival Chorus - 1cr.

Recital and Concert Attendance Requirement

Complete the following as needed:
To graduate, students are required to attend a minimum of 80 concerts or recitals. Recital and concert attendance is monitored and recorded in the Music Student Services office. Students should turn in programs after attending concerts and recitals for documentation of attendance.

Open Electives

Complete the following as needed:
Total elective credit is determined by General Education courses taken, degree type selected, additional credits earned, and any additional math or other prerequisite courses needed. Please consult your Academic Advisor for details.

Minimum University Requirements

Minimum University Requirements
Minimum University Requirements (Bachelor's Degree)

Suggested Degree Maps

Degree Map Name
Suggested Degree Map - Music: Harp Performance BM
Total Degree Map Credits
129 - 140
Degree Map Effective Catalog Year
2026 -

Degree Map Narrative

- Following is a sample four-year plan. Please note that student-specific plans may differ.
- Meet with an academic advisor to create a specific plan that best fits your academic needs.
- The student is ultimately responsible for knowing and completing all degree requirements.
- Make sure you meet the registration requirements for each class by clicking the course link and checking any prerequisites or corequisites.
- Consultation with an advisor may result in an altered plan customized for an individual student.
- Check your Degree Works for requirements and completion.

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	16 - 17	0

Requirement Select

- *Students that are pre-music majors are expected to enroll inMUSC 1105 during their first semester at USU. The course is intended to prepare students for MUSC 1110 - Music Theory I (BCA). Although the course is not required for graduation, it is expected that students will register for the course and either complete it or test out. Even if testing out, students must register for the course. ** MUSC 2180 consists of a series of three proficiency exams that all music majors must complete prior to the completion of four semesters of study. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- ENGL1010 - Writing as Inquiry (CL1)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- MUSC1105 - Fundamentals for Music Majors (BCA)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- MUSC1170 - Keyboard Harmony I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- MUSC1190 - World Music

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- MUSC2180 - Computer Applications in Music Proficiency Exam

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- MUSC1225 - Individual Pre-Music Harp Instruction

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1 - 2
Progress Credits	-
Contact Hours	1 - 2
Clinical	-
Criticality	No

Requirement Select
- MUSC2890 - Individual Percussion Instruction (Second Instrument) for Music Majors

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- MUSC4500 - String Ensemble

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- PE1057 - Yoga

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- Large Ensemble Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	15 - 18	0

Requirement Select
- MUSC1110 - Music Theory I (BCA)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- MUSC1130 - Aural Skills I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- MUSC1180 - Keyboard Harmony II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- MUSC1600 - Voice Techniques
  OR
- MUSC2640 - Individual Vocal Instruction (Second Instrument) for Music Majors

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- MUSC1225 - Individual Pre-Music Harp Instruction

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1 - 2
Progress Credits	-
Contact Hours	1 - 2
Clinical	-
Criticality	No

Requirement Select

- MUSC4500 - String Ensemble

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- ENGL2010 - Research and Argument Across Perspectives (CL2)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Large Ensemble Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Quantitative Literacy (QL) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 5
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	17 - 18	0

Requirement Select

- MUSC1120 - Music Theory II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- MUSC1140 - Aural Skills II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- MUSC3110 - Music History I: Antiquity through the Renaissance

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- MUSC2225 - Individual Pre-Barrier Harp Instruction

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1 - 2
Progress Credits	-
Contact Hours	1 - 2
Clinical	-
Criticality	No

Requirement Select
- MUSC4500 - String Ensemble

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- Large Ensemble Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Music Elective (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Breadth Humanities (BHU) Course
  OR
- Breadth American Institutions (BAI) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Breadth Physical Sciences (BPS) Course
  OR
- Breadth Life Sciences (BLS) Course
  OR
- Breadth Social Sciences (BSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	16 - 17	0

Requirement Select
- MUSC2110 - Music Theory III

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- MUSC2130 - Aural Skills III

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- MUSC3120 - Music History II: The Baroque and Classical Periods

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- MUSC3210 - Individual Harp Instruction for Music Majors

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1 - 2
Progress Credits	-
Contact Hours	1 - 2
Clinical	-
Criticality	No

Requirement Select

- MUSC4500 - String Ensemble

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- Large Ensemble Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Quantitative Intensive (QI) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Breadth Physical Sciences (BPS) Course
  OR
- Breadth Life Sciences (BLS) Course
  OR
- Breadth Social Sciences (BSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Fall	16 - 17	0

Requirement Select

- *A music theory elective course is offered every fall and spring semester. The music theory elective course may be taken any semester after completing MUSC 2110 with a grade of C or better. Music students should plan which option they wish to take and consult with the music department office regarding which semester that option will be offered. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- MUSC3170 - Special Topics in Music Theory

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- MUSC3190 - Music History III: Romanticism through the 21st Century (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- MUSC3210 - Individual Harp Instruction for Music Majors

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1 - 2
Progress Credits	-
Contact Hours	1 - 2
Clinical	-
Criticality	No

Requirement Select

- MUSC4500 - String Ensemble

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- Large Ensemble Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Breadth Humanities (BHU) Course

  OR
- Breadth American Institutions (BAI) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Music Electives (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Electives (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Spring	15 - 16	0

Requirement Select
- MUSC2350 - Conducting

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select
- MUSC3180 - Orchestration

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select
- MUSC3210 - Individual Harp Instruction for Music Majors

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1 - 2
Progress Credits	-
Contact Hours	1 - 2
Clinical	-
Criticality	No

Requirement Select
- Register for 1 credit of MUSC3920 (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- MUSC3920 - Junior Recital

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1 - 2
Clinical	-
Criticality	No

Requirement Select
- MUSC4500 - String Ensemble

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- Large Ensemble Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Depth Life and Physical Sciences (DSC) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Music Electives (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Fall	17 - 18	0

Requirement Select

- * MUSC 4730 - Directed Project in Instrumental Pedagogy and Literature (CI) is an option to satisfy this requirement. It is traditionally offered summer semester. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- MUSC3210 - Individual Harp Instruction for Music Majors

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1 - 2
Progress Credits	-
Contact Hours	1 - 2
Clinical	-
Criticality	No

Requirement Select

- MUSC4930 - Readings and Conference
  OR
- MUSC4730 - Directed Project in Instrumental Pedagogy and Literature (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	1 - 6
Clinical	-
Criticality	No

Requirement Select

- MUSC4500 - String Ensemble

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- Large Ensemble Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Breadth Humanities (BHU) Course
  OR
- Breadth American Institutions (BAI) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Depth Social Sciences (DSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Music Elective (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Electives (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Spring	17 - 19	0

Requirement Select
- * MUSC 4730 - Directed Project in Instrumental Pedagogy and Literature (CI) is an option to satisfy this requirement. It is traditionally offered summer semester. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- MUSC3210 - Individual Harp Instruction for Music Majors

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1 - 2
Progress Credits	-
Contact Hours	1 - 2
Clinical	-
Criticality	No

Requirement Select
- Register for 2 credits of MUSC4920 (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- MUSC4920 - Senior Recital

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	1 - 2
Clinical	-
Criticality	No

Requirement Select
- MUSC4930 - Readings and Conference
  OR
- MUSC4730 - Directed Project in Instrumental Pedagogy and Literature (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	1 - 6
Clinical	-
Criticality	No

Requirement Select

- MUSC4500 - String Ensemble

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- Large Ensemble Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Communications Intensive (CI) Courses

  OR
- (if MUSC 4730 not taken) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Music Electives (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Electives (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2 - 3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Program Learning Outcomes

Program Learning Outcomes

https://artsci.usu.edu/assessments/

Music - MM

Program Overview

College	Department	Program Level
College of Arts & Sciences	Music	Graduate

About this Degree

The USU Music Department offers accredited Master of Music (MM) degrees with specializations in Piano Performance and Pedagogy, Voice Performance, Guitar Performance, and Choral Conducting. USU Master of Music students acquire comprehensive knowledge in their specialization through intensive one-on-one applied study, challenging seminar classes, and research. Through the curriculum, MM students have multiple opportunities to practice professional skills, expand their intellectual capabilities, and gain leadership experience.

Selected MM students will be offered graduate assistantship positions under faculty supervision. After completing departmental requirements, these students will be eligible to teach courses in the undergraduate curriculum for music majors and minors. All graduate students, including those who do not receive an assistantship position, may have the opportunity to provide instruction to non-majors, for which they would receive payment. These teaching opportunities will be invaluable components of the graduate program, which is specifically designed to prepare students for both performance and teaching careers.

Prospective students of the proposed graduate program will apply for admission to the Utah State University School of Graduate Studies. University policies that establish acceptable standards for these graduate programs are developed and maintained by the Dean of Graduate Studies with the advice of the University and College Graduate Councils. Within the Department of Music, the graduate program is governed by the Music Department Graduate Committee. The Department of Music is the final arbiter of whom meets the standards, both for admission and graduation in music.

Admission Requirements for this Program

Master of Music (MM) Application

All applications are submitted online through gradschool.usu.edu/apply/. Applicants for the Master of Music degree must complete the following:

1. **Official College Transcripts** - To qualify for admission to the MM program, applicants must have a bachelor's degree in any field of study, with a GPA of at least 3.0. Official transcripts must be sent directly from previous institutions to USU.
2. **(NOT REQUIRED) GRE or MAT Scores** - The GRE or MAT is **optional** for applicants to the Master of Music degree programs. However, applicants should be advised that the GRE/MAT is a requirement for some tuition waivers and scholarships available through the School of Graduate Studies. For information about these awards, and whether or not applicants may qualify, please visit gradschool.usu.edu/tuition-financial-aid/.
3. **Letters of Recommendation** – Three satisfactory letters of recommendation must be sent directly by the recommenders through the application server. Applicants are highly encouraged to seek a recommendation from a primary applied teacher and one academic music faculty (theory, history, etc.).
4. **Writing Sample** - Applicants must upload a 500–1000 word (1-2 pages, single-spaced) personal statement on one of the following topics:

- Topic 1: Describe a moment or experience in your musical education that convinced you to pursue higher education in music.
- Topic 2: How do you hope your music career will make an impact on today's musical culture?
- Topic 3: Why does/should music matter to individuals or society today?

An academic research paper on a musical subject may also be accepted at the discretion of the Graduate Music Committee. The writing sample will be evaluated by the Music Department Graduate Committee and all full-time faculty in the applicant's primary area of emphasis. Applicant essays will be evaluated in part on the quality of writing, including organization, concision, and clarity.

5. **International Student Requirements** - In addition to the General Admissions Requirements, International students must meet the language, degree, and funding requirements of the USU School of Graduate Studies, available at gradschool.usu.edu/apply/.
6. **Audition/Interview** - Applicants must complete a successful live or recorded entrance audition/interview. To schedule an audition, submit an "Online Graduate Audition Application" at music.usu.edu/apply/index. If travel distance or schedule conflicts prevent applicants from auditioning live, they may submit a video recording of their audition through the recorded audition form: music.usu.edu/students/recorded-audition-form.

Master of Music: Piano Performance and Pedagogy Audition Requirements

Pre-Screening Videos

Admission to the M.M. degree in Piano Performance and Pedagogy is granted on a rolling basis throughout the year. Applicants seeking priority scholarship consideration should submit a prescreening video, using the Piano Pre-screening Video form at https://cca.usu.edu/music/apply/auditions/piano, by **December 15th,** and audition on or before **February 27th.** Applicants' Pre-screen Video must contain at least 30 minutes of memorized repertoire including the following:

1. A sonata-allegro movement from a classical sonata, preferably by Haydn, Mozart, Beethoven, or Schubert
2. A Romantic work
3. 1 or 2 additional pieces of applicant's choice, from any style or period

- *Include a list of significant repertoire studied with pre screening submission.*

Audition

Auditions will take place in the Russell/Wanless Performance Hall on the audition dates posted on the Music Department website**.** If another time needs to be arranged, or if you would prefer to audition by video, contact Dr. Kevin Olson at kevin.olson@usu.edu.

For the M.M. degree in Piano Performance and Pedagogy, students should prepare the following for the audition:

1. A polyphonic work by J.S. Bach
2. A full classical sonata, preferably by Haydn, Mozart, Beethoven, or Schubert
3. A Romantic, Impressionist, modern, or contemporary work
4. One other freely chosen work of the applicant's choice
5. Applicants will receive a short "Independent Study Piece" 2-3 weeks before the audition and will perform the piece in the audition. Memory is not required, and applicants are welcome to bring their own scores with notes.
6. Applicants who wish to be considered for collaborative piano stipends may be asked to sight-read.

A list of significant repertoire studied should be brought to your audition.

Piano area scholarships are awarded only to applicants who intend to pursue a piano degree. Limited graduate assistantships are available for students entering the M.M. degree program in Piano Performance and Pedagogy. These assistantships cover up to full tuition plus a salary stipend.

If you have any questions, please contact Dr. Cahill Smith.

Master of Music - Performance (Voice Specialization) Audition Requirements

Applicants for the Master of Music - Performance (Voice Specialization) should prepare the following:

1. A combination of 5 art songs and arias (both categories should be represented) demonstrating proficiency in at least three languages, one of which should be English.
2. Two additional pieces are optional: one oratorio/concert work aria and/or one musical theatre selection.

An accompanist will be provided, but candidates may bring their own. Pre-recorded accompaniment tracks (minus tracks) are not allowed. All repertoire should be memorized for the audition, except for the optional oratorio/concert work aria. Auditions will also include a brief interview and may include an assessment of the auditioning student's sight-reading and/or aural skills.

For additional information, or to schedule another date for a live audition, please contact Dr. Thomas Glenn at thomas.glenn@usu.edu.

Master of Music: Performance (Guitar Specialization) Audition Requirements

Applicants for the Master of Music - Performance (Guitar Specialization) should prepare the following for an audition:

1. All major and minor (natural, harmonic, and melodic) scales in two octaves.
2. Other common scales – modes of the major scale, whole-tone, diminished, etc.
3. One solo piece (chord solo arrangement or classical/fingerstyle) that best represents the applicant's technical and artistic strengths.
4. Applicants should bring a typed list of repertoire studied in the last four years.

All applicants will also be tested on music reading and knowledge of chord voicing in the audition. Applicants with a jazz emphasis should also prepare to improvise over a "standard" and a blues progression.

For questions regarding guitar audition repertoire, please contact Corey Christiansen at corey.christiansen@usu.edu.

Master of Music: Choral Conducting Audition Requirements

Applicants for the Master of Music - Conducting (Choral Specialization) must complete the following **by December 15th** for full consideration:

1. Submit a pre-screening video recording, via web links (YouTube, Google Drive, etc.) through the recorded audition fSubmit a pre-screening video recording, via web links (YouTube, Google Drive, etc.) to musicadmissions@usu.edu. This pre-screening recording should include:
    1. Approximately 10 minutes of rehearsal footage demonstrating the applicant's abilities in teaching, assessing, coaching, and developing ensemble skills.
    2. Approximately 10 minutes of performance footage from the ensemble's perspective (conductor's face is visible) demonstrating the applicant's abilities as a creative colleague and performer. There is no restriction as to the profile of the ensemble (elementary, middle school, high school, college, professional, community). The applicant should select the footage that illustrates their best work in partnership with the ensemble. Careful consideration should be given to the quality of the repertoire and suitability of the ensemble's skills and for graduate conducting study.
2. Applicants whose pre-audition screening is approved should confer with the Coordinator of Graduate Choral Conducting Studies, Dr. Craig Jessop (craig.jessop@usu.edu), to schedule the audition/interview and discuss the literature to be conducted for the audition. The audition will include vocalizing and rehearsing the choir, an interview with the choral faculty, and a brief singing exercise to include sight-reading.

For questions regarding the choral conducting application process, please contact Dr. Craig Jessop, Professor of Choral Conducting, at craig.jessop@usu.edu.

Program Requirements

Total Credits Required In Program Coursework
30-36

Total Credits Required To Earn This Credential
30-36

Simple Requisites

Program Requirements

Overall GPA and minimum grades: Overall Graduate GPA at least 3.0 and no grades of C- or lower; Graduate students are required to maintain at least a 3.0 GPA for degree-program courses. Grades of C- or lower will not be accepted for a graduate degree.

Matriculation Start Semester: A master's degree must be completed within six years of entering the degree program. Additional time may be requested by the student's committee and submitted to the Vice Provost of Graduate Studies for review.

Degree Verification: A bachelor's degree from an accredited U.S. college or university or a similarly recognized international university is required for admission to and completion of a graduate program.

Course Number Acceptability

- The Program of Study for a master's degree or a doctoral degree, if the student has a master's degree, must include at least 18 semester credits at the level of 6000 or above.
- Credits in the following areas are not acceptable in a degree program: foreign languages (unless included in an approved Program of Study), continuing graduate advisement, individual home study, military science, and courses numbered below 5000. A maximum of 12 credits of 5000-level coursework may be applied to a graduate program.
- A master's degree must be completed within six years of entering the degree program. Additional time may be requested by the student's committee and submitted to the Vice Provost of Graduate Studies for review.

Required Master's forms:

- Approval of academic forms required for master's students by the School of Graduate Studies
- Supervisory Committee

MM Piano Performance and Pedagogy Specialization (36 credits)

Type
Completion Requirement

Curriculum

Fulfill ALL of the following requirements:

Fall Semester Year 1

Complete ALL of the following Courses:

- MUSC6010 - Introduction to Music Research - 3cr.
- MUSC6300 - Graduate Piano Literature I - 2cr.
  OR MUSC6410 - Collaborative Artistry - 2cr.
- MUSC6430 - Special Topics in Performance and Pedagogy - 2cr.
- MUSC6630 - Individual Instruction for Graduates - 1cr.

NOTE:

1. MUSC6300 GRAD PIANO LIT I is offered every other year in the fall
2. MUSC6630 INDIV INSTR-GRAD - register for 2 credits.

Note: Your faculty mentor may recommend an audit of MUSC4460 KEYBOARD SKILLS III in the fall before you take MUSC6470 KEYBOARD SKILLS IV in the spring.

AND

Spring Semester Year 1

Complete ALL of the following Courses:

- MUSC6130 - Music History Seminar - 3cr.
- MUSC6400 - Graduate Piano Literature II - 2cr.
  OR MUSC6470 - Keyboard Skills IV - 2cr.
- MUSC6430 - Special Topics in Performance and Pedagogy - 2cr.
- MUSC6630 - Individual Instruction for Graduates - 1cr.

NOTE:

1. MUSC6400 GRAD PIANO LIT II is offered every other year in the spring.
2. MUSC6470 KEYBOARD SKILLS IV is offered every other year in the spring.
3. MUSC6630 INDIV INSTR-GRAD - register for 2 credits.

AND

Fall Semester Year 2

Complete ALL of the following Courses:

- MUSC6140 - Music Theory Seminar - 3cr.
- MUSC6410 - Collaborative Artistry - 2cr.
  OR MUSC6300 - Graduate Piano Literature I - 2cr.
- MUSC6420 - Pedagogy Practicum - 2cr.
- MUSC6630 - Individual Instruction for Graduates - 1cr.

Your faculty mentor may recommend an audit of MUSC4460 KEYBOARD SKILLS III **in the fall before you take** MUSC6470 KEYBOARD SKILLS IV **in the spring.**

NOTE:

1. MUSC6300 GRAD PIANO LIT I is offered every other year in the fall.
2. MUSC6630 INDIV INSTR-GRAD - register for 2 credits.

AND

Spring Semester Year 2

Complete ALL of the following Courses:

- MUSC6420 - Pedagogy Practicum - 2cr.
- MUSC6630 - Individual Instruction for Graduates - 1cr.
- MUSC6910 - Individual Recital - 1cr.
- MUSC6400 - Graduate Piano Literature II - 2cr.
  OR MUSC6470 - Keyboard Skills IV - 2cr.
- MUSC6130 - Music History Seminar - 3cr.
  OR MUSC6140 - Music Theory Seminar - 3cr.
  OR MUSC6430 - Special Topics in Performance and Pedagogy - 2cr.
  OR MUSC6900 - Independent Study - 1cr.
  OR MUSC6970 - Research and Thesis - 2cr.

NOTE:

1. MUSC6630 INDIV INSTR-GRAD register for 1 credit.
2. MUSC6910 INDIVIDUAL RECITAL register for 1 credit.
3. MUSC6470 KEYBOARD SKILLS IV is offered every other year in the spring.
4. MUSC6400 GRAD PIANO LIT II is offered every other year in the spring.

Master of Music Performance (Voice Specialization) (32 credits)

Type
Completion Requirement

Curriculum

The MM in Performance with a specialization in Voice includes individual instruction, ensemble performance, and vocal pedagogy techniques which focus on the student's career and educational objectives. Students in the program must complete a minimum of 32 approved semester credits, divided into two main areas: (1) 20 credits in performance and (2) 12 credits in other studies in music.

Fulfill ALL of the following requirements:

Fall Semester Year 1

Complete ALL of the following Courses:

- MUSC6010 - Introduction to Music Research - 3cr.
- MUSC5600 - Opera Theatre Production - 1cr.
- MUSC6630 - Individual Instruction for Graduates - 1cr.
- MUSC6640 - Graduate Vocal Pedagogy Seminar - 3cr.
- MUSC6650 - Graduate Advanced Coaching and Repertoire Study - 1cr.

NOTE:

1. MUSC6630 INDIV INSTR-GRAD - register for 2 credits.

AND

Spring Semester Year 1

Complete ALL of the following Courses:

- MUSC6130 - Music History Seminar - 3cr.
- MUSC5600 - Opera Theatre Production - 1cr.
- MUSC6630 - Individual Instruction for Graduates - 1cr.
- MUSC6650 - Graduate Advanced Coaching and Repertoire Study - 1cr.
- MUSC6910 - Individual Recital - 1cr.

NOTE:

1. MUSC6630 INDIV INSTR-GRAD - register for 2 credits.
2. MUSC6910 INDIVIDUAL RECITAL - register for 2 credits.

AND

Fall Semester Year 2

Complete ALL of the following Courses:

- MUSC5600 - Opera Theatre Production - 1cr.
- MUSC6140 - Music Theory Seminar - 3cr.
- MUSC6630 - Individual Instruction for Graduates - 1cr.
- MUSC6650 - Graduate Advanced Coaching and Repertoire Study - 1cr.

NOTE:

1. MUSC6630 INDIV INSTR-GRAD - register for 2 credits.

AND

Spring Semester Year 2

Complete ALL of the following Courses:

- MUSC5600 - Opera Theatre Production - 1cr.
- MUSC6630 - Individual Instruction for Graduates - 1cr.
- MUSC6650 - Graduate Advanced Coaching and Repertoire Study - 1cr.
- MUSC6910 - Individual Recital - 1cr.

NOTE:

1. MUSC6630 INDIV INSTR-GRAD - register for 2 credits.
2. MUSC6650 GRAD ADV COACHING & REPERTOIRE - register for 1-3 credits.
3. MUSC6910 INDIVIDUAL RECITAL - register for 2 credits.

MM Performance (Guitar Specialization) (30 credits)

Type
Completion Requirement

Curriculum

The MM in Performance with specialization in Guitar includes individual instruction, ensemble performance and advisor-approved independent study which focuses on the student's career and educational objectives. Students in the program must complete a minimum of 30 approved semester credits, divided into two main areas: (1) 16 credits in performance and (2) 14 credits in other studies in music.

Fulfill ALL of the following requirements:

Fall Semester Year 1

Complete ALL of the following Courses:

- MUSC6010 - Introduction to Music Research - 3cr.
- MUSC6100 - Graduate Performance Ensemble - 1cr.
- MUSC6630 - Individual Instruction for Graduates - 1cr.
- MUSC6900 - Independent Study - 1cr.

NOTE:

1. MUSC6630 INDIV INSTR-GRAD - register for 2 credits.
2. MUSC6900 INDEPENDENT STUDY - register for 2 credits.

AND

Spring Semester Year 1

Complete ALL of the following Courses:

- MUSC6100 - Graduate Performance Ensemble - 1cr.
- MUSC6130 - Music History Seminar - 3cr.
- MUSC6630 - Individual Instruction for Graduates - 1cr.
- MUSC6910 - Individual Recital - 1cr.

NOTE:

1. MUSC6630 INDIV INSTR-GRAD - register for 2 credits.

AND

Fall Semester Year 2

Complete ALL of the following Courses:

- MUSC6100 - Graduate Performance Ensemble - 1cr.
- MUSC6140 - Music Theory Seminar - 3cr.
- MUSC6620 - Seminar in Musical Literature - 2cr.
- MUSC6630 - Individual Instruction for Graduates - 1cr.

NOTE:

1. MUSC6630 INDIV INSTR-GRAD - register for 2 credits.

AND

Spring Semester Year 2

Complete ALL of the following Courses:

- MUSC6100 - Graduate Performance Ensemble - 1cr.
- MUSC6630 - Individual Instruction for Graduates - 1cr.
- MUSC6900 - Independent Study - 1cr.
- MUSC6910 - Individual Recital - 1cr.

NOTE:

1. MUSC6630 INDIV INSTR-GRAD - register for 2 credits.
2. MUSC6900 INDEPENDENT STUDY - register for 2 credits.

MM Conducting (Choral Specialization) (32 credits)

Type
Completion Requirement

Curriculum

The primary purpose of this degree is to develop and educate graduate students with a high level of choral conducting and administrative skills so that they are prepared and qualified to direct a choral program at an advanced level and contribute as professionals to the growth and development of the choral field. This program includes the importance of intensive score preparation and study, emphasizing conducting abilities that demonstrate expressive and clear gestures with poise and confidence, and rehearsal preparation which is faithful to the score and connects with the musicians, resulting in inspiring performances. It introduces the students to a diverse choral repertoire of both secular and sacred music from the different stylistic periods of choral music.

This master's program is intended for the student who has had previous conducting experience and who wishes to pursue advanced studies to be a more fully-equipped teacher in a public or private education or to advance to doctoral study. The degree stresses the advancement of musical understanding and skill, as well as those personal traits and abilities required of the conductor who aspires to musical excellence.

The MM in Conducting with a specialization in Choral Conducting is a two-year, 32 credit hour program. Courses consist of private conducting lessons, bibliography, music history, and literature, advanced music theory, conducting seminars with ensembles, department ensemble participation, final recital, and final oral and/or written examinations.

Fulfill ALL of the following requirements:

Fall Semester Year 1

Complete ALL of the following Courses:

- MUSC6010 - Introduction to Music Research - 3cr.
- MUSC6100 - Graduate Performance Ensemble - 1cr.
- MUSC6610 - Practicum in Music Performance - 1cr.
- MUSC6620 - Seminar in Musical Literature - 2cr.
- MUSC6630 - Individual Instruction for Graduates - 1cr.

NOTE:

1. MUSC6630 INDIV INSTR-GRAD - register for 2 credits.

AND

Spring Semester Year 1

Complete ALL of the following Courses:

- MUSC6100 - Graduate Performance Ensemble - 1cr.
- MUSC6110 - Advanced Conducting - 2cr.
- MUSC6130 - Music History Seminar - 3cr.
- MUSC6620 - Seminar in Musical Literature - 2cr.
- MUSC6630 - Individual Instruction for Graduates - 1cr.

NOTE:

1. MUSC6630 INDIV INSTR-GRAD - register for 2 credits.

AND

Fall Semester Year 2

Complete ALL of the following Courses:

- MUSC6100 - Graduate Performance Ensemble - 1cr.
- MUSC6110 - Advanced Conducting - 2cr.
- MUSC6120 - Advanced Rehearsal Techniques - 2cr.
- MUSC6140 - Music Theory Seminar - 3cr.
- MUSC6630 - Individual Instruction for Graduates - 1cr.

NOTE:

1. MUSC6630 INDIV INSTR-GRAD - register for 2 credits.

AND

Spring Semester Year 2

Complete ALL of the following Courses:

- MUSC6100 - Graduate Performance Ensemble - 1cr.
- MUSC6610 - Practicum in Music Performance - 1cr.
- MUSC6630 - Individual Instruction for Graduates - 1cr.
- MUSC6900 - Independent Study - 1cr.
- MUSC6910 - Individual Recital - 1cr.

NOTE:

1. MUSC6630 INDIV INSTR-GRAD - register for 2 credits.

Program Learning Outcomes

Program Learning Outcomes

https://www.usu.edu/oda/assessment/

Music: Piano Performance and Pedagogy - BM

Program Overview

College
College of Arts & Sciences

Department
Music

Program Level
Undergraduate

About this Degree

The piano performance & pedagogy degree is designed for students that want to pursue careers in solo and collaborative performance, operate high-level teaching studios, and apply for and excel in the best graduate piano programs. Students receive multiple opportunities for collaborative and solo performing opportunities during their studies, and are able to study with a renowned group of piano faculty. USU became an All-Steinway school in 2012, offering students the ability to perform on the highest-quality pianos in the practice rooms and performing halls.

Program Specifics

The degree combines music core instruction with piano pedagogy and performance courses, preparing prospective piano teachers for careers in the teaching field. A unique aspect of this degree is the opportunity to receive hands-on teaching training in the USU Youth Conservatory, a preparatory lab program that provides private and group instruction to over 200 pre-college pianists each week. For more information, refer to the Piano Performance and Pedagogy BM degree map.

- For more information about Piano Performance, see the department website.
- All music majors must pass an audition to be admitted.
- Admitted and current students must meet with an advisor.
- Log on to Degree Works to check student-specific program progress.
- The highest math requirement for this degree is the Quantitative Literacy (QL) of the student's choice.

Admission Requirements for this Program

- New freshmen must be admitted to USU in Good Standing.
- Music requires a 2.75 GPA overall for admission as a transfer student.
- Students must pass an entrance audition on primary instru

Program Requirements

Total Credits Required In Program Coursework

Total Credits Required To Earn This Credential
120

Simple Requisites

Program Requirements

Course Grades and GPA Minimums

To maintain Music Major (and Pre-Music Major) status at USU, students must:

1. **Complete all Individual Instruction (primary instrument) courses with a grade of B- or higher**
    - Any grade lower than B- will result in an extra required semester of Individual Instruction.
    - Any subsequent semester in which a student fails to meet this minimum grade may result in dismissal from the music program.
2. **Complete all music major core and emphasis classes with a grade of C or higher**
    - Any music course grade lower than C will not count towards graduation.
    - Core courses may be repeated once in an attempt to earn a grade of C or better.
    - Any subsequent semester in which a student fails to meet this minimum grade may result in dismissal from the music program.
3. **Maintain a 3.0 cumulative GPA in all courses that fulfill a degree/ emphasis requirement.**
    - This GPA does not include general education and depth courses.
    - This GPA does not include the STEP courses for Music Education majors.
    - If a student's degree/emphasis GPA falls under this minimum, the student will be placed on departmental academic probation for one semester.
    - Inability to meet this degree/emphasis GPA during the probationary period will result in referral to the department head who in consultation with the appropriate faculty member(s) will determine if the student shall be allowed to remain a music major through an extension of the probationary period.

GRADING SCALE for music courses:

93-100 A

90-92.99 A-

87-89.99 B+

83-86.99 B

80-82.99 B- Lowest grade for individual instruction to fulfill graduation requirements)

77-79.99 C+

73-76.99 C Lowest grade for all other program courses to fulfill graduation requirements)

70-72.99 C-

67-69.99 D+

60-66.99 D

59.99 or below F

All individual instruction courses must be passed with a grade of B- or better. All other music courses must be passed with a grade of C or better. Major requirements may *not* be taken on a pass/fail basis. Students register for 1 credit of individual Piano Instruction during the semester they prepare for a recital.

Music: Piano Performance and Pedagogy - BM

Type
Completion Requirement

BM Piano Major Music Core Curriculum (33 credits)

A minimum grade of C is required for all BM Piano Major Music Core Curriculum courses.

Complete ALL of the following Courses:

- MUSC1110 - Music Theory I (BCA) - 3cr.

- MUSC1120 - Music Theory II - 3cr.
- MUSC1130 - Aural Skills I - 1cr.
- MUSC1140 - Aural Skills II - 1cr.
- MUSC1190 - World Music - 3cr.
- MUSC1270 - Keyboard Skills I - 1cr.
- MUSC1280 - Keyboard Skills II - 1cr.
- MUSC2110 - Music Theory III - 3cr.
- MUSC2130 - Aural Skills III - 1cr.
- MUSC2180 - Computer Applications in Music Proficiency Exam - 1cr.
- MUSC2920 - Sophomore Recital - 1cr.
- MUSC3110 - Music History I: Antiquity through the Renaissance - 3cr.
- MUSC3120 - Music History II: The Baroque and Classical Periods - 3cr.
- MUSC3170 - Special Topics in Music Theory - 3cr.
- MUSC3190 - Music History III: Romanticism through the 21st Century (CI) - 3cr.
- MUSC4920 - Senior Recital - 1cr.

Piano Performance and Pedagogy Requirements (46 credits)

All individual instruction courses must be passed with a grade of B- or better. All other music courses must be passed with a grade of C or better. Major requirements may *not* be taken on a pass/fail basis. Minimum GPA for all required courses is a 3.0.

Complete ALL of the following Courses:

- MUSC1430 - Piano Pedagogy I - 3cr.
- MUSC1440 - Piano Pedagogy II - 3cr.
- MUSC1450 - Pedagogy Practicum - 1cr.
- MUSC1485 - Individual Pre-Music Piano Instruction - 1cr.
- MUSC2270 - Keyboard Improvisation - 1cr.
- MUSC2420 - Piano Literature I - 3cr.
- MUSC2430 - Piano Literature II - 3cr.
- MUSC2440 - Piano Literature III - 3cr.
- MUSC2495 - Individual Pre-Barrier Piano Instruction - 1cr.
- MUSC3410 - Collaborative Piano in Ensemble - 1cr.
- MUSC4460 - Keyboard Skills III - 2cr.
- MUSC3450 - Individual Piano Instruction for Music Majors - 1cr.
- MUSC4410 - Special Topics in Performance and Pedagogy - 1cr.
- MUSC5470 - Keyboard Skills IV - 2cr.

NOTE:

1. MUSC1450 PEDAGOGY PRACTICUM - 2 credits minimum.
2. MUSC1485 PIANO INSTR-PREMUSIC - 4 credits total; Register for 2 credits first year fall and first year spring semesters.
3. MUSC2495 PIANO INSTR-PREBARRIER - Register for 2 credits second year fall semester.
4. MUSC3410 COLLABORATIVE PIANO ENSEMBLE - 4 credits required.
5. MUSC3450 PIANO INSTR-MAJOR - 8 credits total); Register for 2 credits EXCEPT 2nd year Spring and 4th year Spring when preparing for Sophomore and Senior recitals.
6. MUSC4410 ST: PERFORMANCE AND PEDAGOGY - 6 credits minimum.

Music Electives (2 credits)

Earn at least 2 credits from the following:

- MUSC2410 - Individual Organ Instruction (Second Instrument) for Music Majors - 1cr.
- MUSC2470 - Individual Jazz Piano Instruction (Second Instrument) for Music Majors - 1cr.

• Second instrument, ensemble, or another course with permission of the piano faculty.

Recital and Concert Attendance Requirement

Complete the following:
To graduate, students are required to attend a minimum of 80 concerts or recitals. Recital and concert attendance is monitored and recorded in the Music Student Services office. Students should turn in programs after attending concerts and recitals for documentation of attendance.

Open Electives

Complete the following as needed:
Total elective credit is determined by General Education courses taken, degree type selected, additional credits earned, and any additional math or other prerequisite courses needed. Please consult your Academic Advisor for details.

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Bachelor's Degree)

Suggested Degree Maps

Degree Map Name
Suggested Degree Map - Music: Piano Performance and Pedagogy BM
Total Degree Map Credits
118 - 123
Degree Map Effective Catalog Year
2027 -

Degree Map Narrative

- Following is a sample four-year plan. Please note that student-specific plans may differ.
- Meet with an academic advisor to create a specific plan that best fits your academic needs.
- The student is ultimately responsible for knowing and completing all degree requirements.
- Make sure you meet the registration requirements for each class by clicking the course link and checking any prerequisites or corequisites.
- Consultation with an advisor may result in an altered plan customized for an individual student.
- Check your Degree Works for requirements and completion.

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	16 - 18	0

Requirement Select

- *Students that are pre-music majors are expected to enroll in MUSC 1105 during their first semester at USU. The course is intended to prepare students for MUSC 1110. Although the course is not required for graduation, it is expected that students will register for the course and either complete it or test out. Even if testing out, students must register for the course. **MUSC 2180 consists of a series of three proficiency exams that all music majors must complete prior to the completion of four semesters of study. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- MUSC1105 - Fundamentals for Music Majors (BCA)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- MUSC1270 - Keyboard Skills I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- MUSC1430 - Piano Pedagogy I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Students should register for 2 credits in MUSC 1485. (minimum grade of B- or better) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- MUSC1485 - Individual Pre-Music Piano Instruction

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	B-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	1 - 2
Clinical	-
Criticality	No

Requirement Select

- MUSC2180 - Computer Applications in Music Proficiency Exam

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- ENGL1010 - Writing as Inquiry (CL1)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Quantitative Literacy (QL) Course
  OR
- Math Placement Test (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 5
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	13 - 14	0

Requirement Select

- Students should register for 2 credits in MUSC 1485 and 2 credits in MUSC 1450. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- MUSC1110 - Music Theory I (BCA)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- MUSC1130 - Aural Skills I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- MUSC1280 - Keyboard Skills II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- MUSC1450 2 credits minimum (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- MUSC1450 - Pedagogy Practicum

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- MUSC1440 - Piano Pedagogy II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- MSUC1485 minimum grade of B- required. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- MUSC1485 - Individual Pre-Music Piano Instruction

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1 - 2
Progress Credits	-
Contact Hours	1 - 2
Clinical	-
Criticality	No

Requirement Select
- ENGL2010 - Research and Argument Across Perspectives (CL2)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	14 - 16	0

Requirement Select
- Register for 2 credits and must pass with a grade of B- or better in MUSC 2495. 2 credits minimum in MUSC 1450. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- MUSC1120 - Music Theory II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- MUSC1140 - Aural Skills II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- MSC1450 2 credits required. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- MUSC1450 - Pedagogy Practicum

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- MUSC2270 - Keyboard Improvisation

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- MUSC3110 - Music History I: Antiquity through the Renaissance

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- MUSC2495 (minimum grade of B- required) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- MUSC2495 - Individual Pre-Barrier Piano Instruction

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	B-
Area	-
Actual Credits	1 - 2
Progress Credits	-
Contact Hours	1 - 2
Clinical	-
Criticality	No

Requirement Select
- MUSC4410 - Special Topics in Performance and Pedagogy

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1 - 2
Progress Credits	-
Contact Hours	1 - 2
Clinical	-
Criticality	No

Requirement Select
- Quantitative Intensive (QI) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	15	0

Requirement Select
- Students register for 1 credit of Individual Piano Instruction during the semester they prepare for a recital. Register for 1 credit during sophomore recital semester in MUSC 2920 and 1 credit in the recital semester in MUSC 3450. Students should register for 1 credit in MUSC 3410 and MUSC 4410. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- MUSC2110 - Music Theory III

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- MUSC2130 - Aural Skills III

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- MUSC4410 - Special Topics in Performance and Pedagogy

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1 - 2
Clinical	-
Criticality	No

Requirement Select
- MUSC2920 - Sophomore Recital

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1 - 2
Clinical	-
Criticality	No

Requirement Select
- MUSC3120 - Music History II: The Baroque and Classical Periods

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- MUSC3450 (minimum grade of B- required) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- MUSC3450 - Individual Piano Instruction for Music Majors

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	B-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1 - 2
Clinical	-
Criticality	No

Requirement Select
- MUSC3410 - Collaborative Piano in Ensemble

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1 - 2
Clinical	-
Criticality	No

Requirement Select
- Breadth American Institutions (BAI) Course

OR
- Breadth Humanities (BHU) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Music Elective (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Fall	15	0

Requirement Select

- A music theory elective course is offered every fall and spring semester. The music theory elective course may be taken any semester after completing MUSC 2110 with a grade of C or better. Music students should plan which option they wish to take and consult with the music department office regarding which semester that option will be offered. Students should register for 2 credits in MUSC 3450 and 1 credit in MUSC 3410 and MUSC 4410. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- MUSC2420 - Piano Literature I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- MUSC3170 - Special Topics in Music Theory

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- MUSC3190 - Music History III: Romanticism through the 21st Century (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- MUSC3450 minimum grade of B- grade. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- MUSC3450 - Individual Piano Instruction for Music Majors

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	B-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	1 - 2
Clinical	-
Criticality	No

Requirement Select

- MUSC3410 - Collaborative Piano in Ensemble

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1 - 2
Clinical	-
Criticality	No

Requirement Select

- MUSC4460 - Keyboard Skills III

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select

- MUSC4410 - Special Topics in Performance and Pedagogy

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1 - 2
Clinical	-
Criticality	No

Requirement Select

- Register for 1 credit of MUSC4410. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Spring	15	0

Requirement Select

- Students should register for 1 credit in MUSC 3410 and MUSC 4410 and 2 credits in MUSC 3450. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- MUSC1190 - World Music

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- MUSC2430 - Piano Literature II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- MUSC3450 minimum grade of B- required. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- MUSC3450 - Individual Piano Instruction for Music Majors

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	1 - 2
Clinical	-
Criticality	No

Requirement Select

- MUSC3410 - Collaborative Piano in Ensemble

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1 - 2
Clinical	-
Criticality	No

Requirement Select

- MUSC5470 - Keyboard Skills IV

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select

- MUSC4410 - Special Topics in Performance and Pedagogy

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1 - 2
Clinical	-
Criticality	No

Requirement Select

- Breadth Physical Sciences (BPS) Course

OR

- Breadth Life Sciences (BLS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Fall	16	0

Requirement Select

- Students should register for 1 credit in MUSC 3410 and MUSC 4410 and register for 2 credits in MUSC 3450. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- MUSC3450 minimum grade of B- required. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- MUSC3450 - Individual Piano Instruction for Music Majors

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	B-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	1 - 2
Clinical	-
Criticality	No

Requirement Select

- MUSC3410 - Collaborative Piano in Ensemble

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1 - 2
Clinical	-
Criticality	No

Requirement Select

- MUSC2440 - Piano Literature III

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- MUSC4410 - Special Topics in Performance and Pedagogy

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1 - 2
Clinical	-
Criticality	No

Requirement Select

- Breadth Social Sciences (BSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Communications Intensive (CI) Courses

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Breadth Life Sciences (BLS) Course
  OR
- Breadth Physical Sciences (BPS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Spring	14	0

Requirement Select

- Students register for 1 credit of Individual Piano Instruction (MUSC 3450) during the semester they prepare for a recital. Students should register for 2 credits for senior recital (MUSC 4920). (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- MUSC3450 - Individual Piano Instruction for Music Majors

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1 - 2
Clinical	-
Criticality	No

Requirement Select

- MUSC4410 - Special Topics in Performance and Pedagogy

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1 - 2
Clinical	-
Criticality	No

Requirement Select

- Breadth American Institutions (BAI) Course

OR

- Breadth Humanities (BHU) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- MUSC4920 - Senior Recital

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	1 - 2
Clinical	-
Criticality	No

Requirement Select

- Music Elective (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Depth Social Sciences (DSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Depth Life and Physical Sciences (DSC) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Program Learning Outcomes

Program Learning Outcomes

https://artsci.usu.edu/assessments/

Music: String Performance - BM

Program Overview

College
College of Arts & Sciences

Department
Music

Program Level
Undergraduate

About this Degree

The String Program at USU is lead by the members of the Fry Street Quartet and bassist Braun Khan.

The Fry Street Quartet occupies the Manon Caine Russell and Dan C. Russell Endowed String Quartet Residency at Utah State University. This residency affords string majors the rare opportunity to study with a world-renowned string quartet as their primary professors.

Dr. Khan has performed to equal acclaim in both the jazz and classical worlds, and runs a dynamic bass studio at USU.

The size of the String Program at Utah State allows for each student to receive a great deal of individual attention throughout his or her study. With chamber music as a natural focus of a program led by a string quartet, a close-knit atmosphere is at the heart of the student experience, and the shared artistic and educational values of the Fry String Quartet are central to this experience.

Competition winners and finalists, summer study at home and abroad, and continuing studies in prestigious graduate programs across the country are common among the ambitious students of the String Program at the Caine College of the Arts.

- For more information about String Performance, see the department website.
- All music majors must pass and audition to be admitted.
- Admitted and current students must meet with an advisor.
- Log on to Degree Works to check student-specific program progress.
- The highest math requirement for this degree is the Quantitative Literacy (QL) of the student's choice.

Admission Requirements for this Program

- New freshmen:
    - Admitted to USU in Good Standing
    - Must pass entrance audition on primary instrument
- Transfer students from other institutions or other programs at USU:
    - Admitted to USU in Good Standing
    - Must pass entrance audition on primary instrument

Program Requirements

Total Credits Required In Program Coursework
84

Total Credits Required To Earn This Credential
120

Simple Requisites

Program Requirements

Course Grades and GPA Minimums

To maintain Music Major (and Pre-Music Major) status at USU, students must:

1. **Complete all Individual Instruction (primary instrument) courses with a grade of B- or higher**
    - Any grade lower than B- will result in an extra required semester of Individual Instruction.
    - Any subsequent semester in which a student fails to meet this minimum grade may result in dismissal from the music program.
2. **Complete all music major core and emphasis classes with a grade of C or higher**
    - Any music course grade lower than C will not count towards graduation.
    - Core courses may be repeated once in an attempt to earn a grade of C or better.
    - Any subsequent semester in which a student fails to meet this minimum grade may result in dismissal from the music program.
3. **Maintain a 3.0 cumulative GPA in all courses that fulfill a degree/ emphasis requirement.**
    - This GPA does not include general education and depth courses.
    - This GPA does not include the STEP courses for Music Education majors.
    - If a student's degree/emphasis GPA falls under this minimum, the student will be placed on departmental academic probation for one semester.
    - Inability to meet this degree/emphasis GPA during the probationary period will result in referral to the department head who in consultation with the appropriate faculty member(s) will determine if the student shall be allowed to remain a music major through an extension of the probationary period.

GRADING SCALE for music courses:

93-100 A

90-92.99 A-

87-89.99 B+

83-86.99 B

80-82.99 B- Lowest grade for individual instruction to fulfill graduation requirements)

77-79.99 C+

73-76.99 C Lowest grade for all other program courses to fulfill graduation requirements)

70-72.99 C-

67-69.99 D+

60-66.99 D

59.99 or below F

Music - String Performance - BM

Type
Completion Requirement

BM Performance Music Core Curriculum (33 credits)

A grade of C or better is required in all Music Performance courses.

Complete ALL of the following Courses:

- MUSC1110 - Music Theory I (BCA) - 3cr.
- MUSC1120 - Music Theory II - 3cr.
- MUSC1130 - Aural Skills I - 1cr.
- MUSC1140 - Aural Skills II - 1cr.
- MUSC1170 - Keyboard Harmony I - 1cr.
- MUSC1180 - Keyboard Harmony II - 1cr.
- MUSC1190 - World Music - 3cr.
- MUSC2110 - Music Theory III - 3cr.
- MUSC2130 - Aural Skills III - 1cr.
- MUSC2180 - Computer Applications in Music Proficiency Exam - 1cr.
- MUSC3110 - Music History I: Antiquity through the Renaissance - 3cr.
- MUSC3120 - Music History II: The Baroque and Classical Periods - 3cr.
- MUSC3170 - Special Topics in Music Theory - 3cr.
- MUSC3190 - Music History III: Romanticism through the 21st Century (CI) - 3cr.
- MUSC3920 - Junior Recital - 1cr.
- MUSC4920 - Senior Recital - 1cr.

NOTE:

1. MUSC3920 JUNIOR RECITAL - 1 credit; 30-minute recital.
2. MUSC4920 SENIOR RECITAL - 2 credits; 60-minute recital.

String Performance Emphasis Required Courses (41 credits)

All individual instruction courses must be passed with a grade of B- or better. All other music courses must be passed with a grade of C or better. Major requirements may *not* be taken on a pass/fail basis. Minimum GPA for all required courses is a 3.0.

Fulfill ALL of the following requirements:

Individual Instruction (16 credits minimum)

Fulfill ALL of the following requirements:

1000- Level Courses (4 credits)

Register for 2 credits of pre-music individual instruction on your major instrument first and second semesters of study.

Earn at least 4 credits from the following:

- MUSC1515 - Individual Pre-major Cello Instruction - 1cr.
- MUSC1525 - Individual Pre-music Viola Instruction - 1cr.
- MUSC1535 - Individual Pre-Music Violin Instruction - 1cr.
- MUSC1545 - Individual Pre-Music String Bass Instruction - 1cr.

AND

2000-Level Courses (2 credits)

Register for 2 credits of individual pre-barrier instruction on major instrument the third semester of study.

Earn at least 2 credits from the following:

- MUSC2505 - Individual Pre-Barrier String Bass Instruction - 1cr.
- MUSC2525 - Individual Pre-Barrier Cello Instruction - 1cr.
- MUSC2535 - Individual Pre-barrier Viola Instruction - 1cr.
- MUSC2545 - Individual Pre-Barrier Violin Instruction - 1cr.

AND

4000-Level Courses (10 credits)

Register for 2 credits of individual instruction on major instrument for all remaining semesters of study.

Earn at least 10 credits from the following:

- MUSC4510 - Individual Violin Instruction for Music Majors - 1cr.
- MUSC4520 - Individual Viola Instruction for Music Majors - 1cr.
- MUSC4530 - Individual Cello Instruction for Music Majors - 1cr.
- MUSC4540 - Individual String Bass Instruction for Music Majors - 1cr.

AND

Ensembles (16 credits)

Earn at least 16 credits from the following:

- MUSC2350 - Conducting - 2cr.
- MUSC3180 - Orchestration - 2cr.
- MUSC3500 - Symphony Orchestra (DHA) - 1cr.
- MUSC3515 - Orchestral Auditions Seminar - 2cr.
- MUSC3520 - String Pedagogy and Solo Literature - 2cr.
- MUSC4500 - String Ensemble - 1cr.
- PE1057 - Yoga - 1cr.

NOTE:

MUSC3500 SYMPHONY ORCHESTRA (DHA) and MUSC4500 STRING ENSEMBLE - 8 credits minimum each.

Recital and Concert Attendance Requirement

To graduate, students are required to attend a minimum of 80 concerts or recitals. Recital and concert attendance is monitored and recorded in the Music Student Services office. Students should turn in programs after attending concerts and recitals for documentation of attendance.

Complete the following:

Music Electives (10 credits)

Complete the following;
Music electives are subject to music faculty approval.

Open Electives

Complete the following as needed:
Total elective credit is determined by General Education courses taken, degree type selected, additional credits earned, and any additional math or other prerequisite courses needed. Please consult your Academic Advisor for details.

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Bachelor's Degree)

Suggested Degree Maps

Degree Map Name
Suggested Degree Map - Music: String Performance BM
Total Degree Map Credits
123 - 125
Degree Map Effective Catalog Year
2026 -

Degree Map Narrative

- Following is a sample four-year plan. Please note that student-specific plans may differ.
- Meet with an academic advisor to create a specific plan that best fits your academic needs.
- The student is ultimately responsible for knowing and completing all degree requirements.
- Make sure you meet the registration requirements for each class by clicking the course link and checking any prerequisites or corequisites.
- Consultation with an advisor may result in an altered plan customized for an individual student.
- Check your Degree Works for requirements and completion.

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	16 - 18	0

Requirement Select

- Students that are pre-music majors are expected to enroll in MUSC 1105 during their first semester at USU. The course is intended to prepare students for MUSC 1110 - Music Theory I (BCA). Although the course is not required for graduation, it is expected that students will register for the course and either complete it or test out. Even if testing out, students must register for the course. MUSC 2180 consists of a series of three proficiency exams that all music majors must complete prior to the completion of four semesters of study. The MUSC 4500 requirement may also be satisfied by MUSC 3760, MUSC 3770, and MUSC 4710 for string bass majors only. 8 credits minimum are required for both MUSC 3500 and MUSC 4500. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- ENGL1010 - Writing as Inquiry (CL1)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- MUSC1105 - Fundamentals for Music Majors (BCA)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- MUSC1170 - Keyboard Harmony I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- MUSC2180 - Computer Applications in Music Proficiency Exam

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- MUSC3500 - Symphony Orchestra (DHA)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- MUSC4500 - String Ensemble

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- PE1057 - Yoga

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- MUSC 15XX: Individual Pre-Music String Instruction (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Quantitative Literacy (QL) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 5
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	18	0

Requirement Select

- The MUSC 4500 requirement may also be satisfied by MUSC 3760, MUSC 3770, and MUSC 4710 for string bass majors only. 8 credits minimum required for MUSC 3500 and MUSC 4500. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- ENGL2010 - Research and Argument Across Perspectives (CL2)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- MUSC1110 - Music Theory I (BCA)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- MUSC1130 - Aural Skills I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- MUSC1180 - Keyboard Harmony II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- MUSC1190 - World Music

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- MUSC3500 - Symphony Orchestra (DHA)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- MUSC4500 - String Ensemble

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- MUSC 15XX: Individual Pre-Music String Instruction (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Breadth Life Sciences (BLS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	16	0

Requirement Select
- The MUSC 4500 requirement may also be satisfied by MUSC 3760, MUSC 3770, and MUSC 4710 for string bass majors only. 8 credits minimum required for MUSC 3500 and MUSC 4500. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- MUSC1120 - Music Theory II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- MUSC1140 - Aural Skills II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- MUSC3110 - Music History I: Antiquity through the Renaissance

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- MUSC3500 - Symphony Orchestra (DHA)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- MUSC3520 - String Pedagogy and Solo Literature

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select
- MUSC4500 - String Ensemble

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- MUSC 25XX: Individual Pre-Barrier String Instruction (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Breadth Physical Sciences (BPS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	17	0

Requirement Select

- The MUSC 4500 requirement may also be satisfied by MUSC 3760, MUSC 3770, and MUSC 4710 for string bass majors only. 8 credits minimum required for MUSC 3500 and MUSC 4500. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- MUSC2110 - Music Theory III

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- MUSC2130 - Aural Skills III

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- MUSC3120 - Music History II: The Baroque and Classical Periods

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- MUSC3500 - Symphony Orchestra (DHA)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- MUSC4500 - String Ensemble

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- MUSC 45XX: Individual String Instruction (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Quantitative Intensive (QI) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Breadth American Institutions (BAI) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Fall	15	0

Requirement Select

- 8 credits minimum required for MUSC 3500 and MUSC 4500. *A music theory elective course is offered every fall and spring semester. The music theory elective course may be taken any semester after completing MUSC 2110 with a grade of C or better. Music students should plan which option they wish to take and consult with the music department office regarding which semester that option will be offered. **The MUSC MUSC 4500 requirement may also be satisfied by MUSC 3760, MUSC 3770, and MUSC 4710 for string bass majors only. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- MUSC3170 - Special Topics in Music Theory

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- MUSC3190 - Music History III: Romanticism through the 21st Century (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- MUSC3500 - Symphony Orchestra (DHA)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- MUSC4500 - String Ensemble

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- MUSC3515 - Orchestral Auditions Seminar

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select

- MUSC 45XX: Individual String Instruction (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Breadth Social Sciences (BSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Spring	14	0

Requirement Select

- **The MUSC 4500 requirement may also be satisfied by MUSC 3760, MUSC 3770, and MUSC 4710 for string bass majors only. 8 credits minimum required for MUSC 3500 and MUSC 4500. Students should register for 1 credit for junior recital (MUSC 3920). (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- MUSC2350 - Conducting

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select

- MUSC3180 - Orchestration

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select

- MUSC3500 - Symphony Orchestra (DHA)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- MUSC4500 - String Ensemble

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- MUSC3920 - Junior Recital

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1 - 2
Clinical	-
Criticality	No

Requirement Select
- MUSC 45XX: Individual String Instruction (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Depth Life and Physical Sciences (DSC) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Music Electives (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Fall	15	0

Requirement Select
- **The MUSC 4500 requirement may also be satisfied by MUSC 3760, MUSC 3770, and MUSC 4710 for string bass majors only. 8 credits minimum required in MUSC 3500 and MUSC 4500. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- MUSC3500 - Symphony Orchestra (DHA)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- MUSC4500 - String Ensemble

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- MUSC 45XX: Individual String Instruction (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Communications Intensive (CI) Courses

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Breadth Humanities (BHU) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Music Electives (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	5
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Spring	12	0

Requirement Select
- **The MUSC 4500 requirement may also be satisfied by MUSC 3760, MUSC 3770, and MUSC 4710 for string bass majors only. 8 credits minimum required for MUSC 3500 and MUSC 4500. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- MUSC3500 - Symphony Orchestra (DHA)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- MUSC4500 - String Ensemble

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- Students should register for 2 credits for senior recital (MUSC 4920). (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- MUSC4920 - Senior Recital

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	1 - 2
Clinical	-
Criticality	No

Requirement Select
- MUSC 45XX: Individual String Instruction (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select	• Depth Social Sciences (DSS) Course
Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select	• Music Electives (Generic)
Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Program Learning Outcomes

Program Learning Outcomes

https://artsci.usu.edu/assessments/

Music: Vocal Performance - BM

Program Overview

College	Department	Program Level
College of Arts & Sciences	Music	Undergraduate

About this Degree

The Vocal Performance degree at Utah State University provides a robust and comprehensive educational foundation for students wishing to learn artful and healthy techniques of singing in both classical and musical theatre styles. This degree track prepares students for continued graduate study or immediate entrance into the professional world as a voice teacher or performer.

In addition to private voice instruction from exceptional pedagogues, Voice Performance majors at Utah State receive innovative classroom instruction in vocal pedagogy, the languages of classical singing, repertoire, and close mentorship from an experienced and professional faculty as they work towards their goals in personal musical excellence. Annual productions of operas, musicals, and scenes programs provide all students with ample performance opportunities where the invaluable skills of acting and stagecraft are taught by knowledgeable faculty members and guest directors.

Program Specifics

Voice Performance majors take a combination of core music classes to perfect general musicianship and emphasis courses that teach the specific skills singers need to master the art and technique of singing. The students' training is also supplemented by frequent visiting master artists and guest performers/directors.

The most advanced students have the option of being part of the scholarship-receiving Manon Caine Russell Opera Outreach Quartet, providing these promising students additional performance and leadership opportunities.

Although students come from varying backgrounds with different levels of experience, those that have the most success as Voice Performance majors at Utah State are those that are motivated, dedicated, and involved. They exhibit a passion for communicating through song and typically have had some choral or solo vocal training before coming to college. Strong sight-singing and piano skills are also beneficial for all voice performance majors.

For specific information regarding coursework required to earn a Voice emphasis, please refer to the BM Vocal Performance degree map.

- For more information about Vocal Performance, see the department website.
- All music majors must pass an audition to be admitted.
- Admitted and current students must meet with an advisor.
- Log on to Degree Works to check student-specific program progress.
- The highest math requirement for this degree is the Quantitative Literacy (QL) of the student's choice.

Admission Requirements for this Program

- New freshmen must be admitted to USU in Good Standing.
- Music requires a 2.75 GPA overall for admission as a transfer student
- Students must pass an entrance audition on primary instrument.

Program Requirements

Total Credits Required In Program Coursework	Total Credits Required To Earn This Credential
77	120

Simple Requisites

Program Requirements

To maintain Music Major (and Pre-Music Major) status at USU, students must:

1. **Complete all Individual Instruction (primary instrument) courses with a grade of B- or higher**
    - Any grade lower than B- will result in an extra required semester of Individual Instruction.
    - Any subsequent semester in which a student fails to meet this minimum grade may result in dismissal from the music program.
2. **Complete all music major core and emphasis classes with a grade of C or higher**
    - Any music course grade lower than C will not count towards graduation.
    - Core courses may be repeated once in an attempt to earn a grade of C or better.
    - Any subsequent semester in which a student fails to meet this minimum grade may result in dismissal from the music program.
3. **Maintain a 3.0 cumulative GPA in all courses that fulfill a degree/ emphasis requirement.**
    - This GPA does not include general education and depth courses.
    - This GPA does not include the STEP courses for Music Education majors.
    - If a student's degree/emphasis GPA falls under this minimum, the student will be placed on departmental academic probation for one semester.
    - Inability to meet this degree/emphasis GPA during the probationary period will result in referral to the department head who in consultation with the appropriate faculty member(s) will determine if the student shall be allowed to remain a music major through an extension of the probationary period.

GRADING SCALE for music courses:

93-100 A

90-92.99 A-

87-89.99 B+

83-86.99 B

80-82.99 B- Lowest grade for individual instruction to fulfill graduation requirements)

77-79.99 C+

73-76.99 C Lowest grade for all other program courses to fulfill graduation requirements)

70-72.99 C-

67-69.99 D+

60-66.99 D

59.99 or below F

Music - Vocal Performance - BM

Type
Completion Requirement

BM Performance Music Core Curriculum (33 credits)

A grade of C or better is required in all Music Performance courses.

Complete ALL of the following Courses:

- MUSC1110 - Music Theory I (BCA) - 3cr.
- MUSC1120 - Music Theory II - 3cr.
- MUSC1130 - Aural Skills I - 1cr.
- MUSC1140 - Aural Skills II - 1cr.
- MUSC1170 - Keyboard Harmony I - 1cr.
- MUSC1180 - Keyboard Harmony II - 1cr.
- MUSC1190 - World Music - 3cr.
- MUSC2110 - Music Theory III - 3cr.
- MUSC2130 - Aural Skills III - 1cr.
- MUSC2180 - Computer Applications in Music Proficiency Exam - 1cr.
- MUSC3110 - Music History I: Antiquity through the Renaissance - 3cr.
- MUSC3120 - Music History II: The Baroque and Classical Periods - 3cr.
- MUSC3170 - Special Topics in Music Theory - 3cr.
- MUSC3190 - Music History III: Romanticism through the 21st Century (CI) - 3cr.
- MUSC3920 - Junior Recital - 1cr.
- MUSC4920 - Senior Recital - 1cr.

NOTE:

1. MUSC3920 JUNIOR RECITAL - 1 credit; 30-minute recital.
2. MUSC4920 SENIOR RECITAL - 2 credits; 60-minute recital.

Vocal Performance Emphasis Courses (44 credits)

All individual instruction courses must be passed with a grade of B- or better. All other music courses must be passed with a grade of C or better. Major requirements may *not* be taken on a pass/fail basis. Minimum GPA for all required courses is a 3.0.

Fulfill ALL of the following requirements:

Individual Instruction (8 credits)

Complete ALL of the following Courses:

- MUSC1635 - Individual Pre-Music Voice Instruction - 1cr.
- MUSC2645 - Individual Pre-Barrier Voice Instruction - 1cr.
- MUSC3670 - Individual Vocal Instruction for Music Majors - 1cr.

NOTE:

1. MUSC1635 VOICE INSTR-PREMUSIC - First year fall and first year spring semesters for a total of 2 credits.
2. MUSC2645 VOICE INSTR-PREBARRIER - Second year fall semester for a total of 1 credit.
3. MUSC3670 VOCAL INSTR - 5 remaining semesters for a total of 5 credits.

AND

Large Ensembles (8 credits)

Students must earn 8 credits from any combination of these courses.

Complete ANY of the following Courses:

- MUSC2600 - Sapphire Singers - 1cr.

- MUSC4600 - University Chorale (DHA) - 1cr.
- MUSC4650 - Chamber Singers (DHA) - 1cr.
- MUSC5640 - American Festival Chorus - 1cr.

AND

Required Courses

Complete ALL of the following Courses:

- MUSC2350 - Conducting - 2cr.
- MUSC2490 - Individual Piano Instruction (Second Instrument) for Music Majors - 1cr.
- MUSC2660 - Italian Diction for Singers - 2cr.
- MUSC2670 - German Diction for Singers - 2cr.
- MUSC2680 - French Diction for Singers - 2cr.
- MUSC3610 - Vocal Repertory I - 2cr.
- MUSC3620 - Vocal Repertory II (CI) - 2cr.
- MUSC3630 - Vocal Pedagogy I - 3cr.
- MUSC3640 - Vocal Pedagogy II - 3cr.
- MUSC5600 - Opera Theatre Production - 1cr.

NOTE:

1. MUSC2490 PIANO INSTR-2ND - Credits as determined by Music Faculty Advisor to pass Level 5 Piano Proficiency.
2. MUSC3610 VOCAL REPERTORY I - Even year fall.
3. MUSC3620 VOCAL REPERTORY II (CI) - Odd year spring.
4. MUSC3630 VOCAL PEDAGOGY I - Odd year fall.
5. MUSC3640 VOCAL PEDAGOGY II - Even year spring.
6. MUSC5600 OPERA THEATRE PROD - 8 credits minimum.

Language Course Requirement (8 credits)

Vocal Performance majors may either take one First Year I and one First Year II courses in the same language, or two First Year I courses in two different languages. Language options are limited to French, German or Italian.

Fulfill ANY of the following requirements:

French

Complete ALL of the following Courses:

- FREN1010 - French First Year I - 4cr.
- FREN1020 - French First Year II - 4cr.

OR

German

Complete ALL of the following Courses:

- GERM1010 - German First Year I - 4cr.
- GERM1020 - German First Year II - 4cr.

OR

Italian

Complete ALL of the following Courses:

- ITAL1010 - Italian First Year I - 4cr.
- ITAL1020 - Italian First Year II - 4cr.

Recital and Concert Attendance Requirement

Complete the following:
To graduate, students are required to attend a minimum of 80 concerts or recitals. Recital and concert attendance is monitored and recorded in the Music Student Services office. Students should turn in programs after attending concerts and recitals for documentation of attendance.

Open Electives

Complete the following as needed:
Total elective credit is determined by General Education courses taken, degree type selected, additional credits earned, and any additional math or other prerequisite courses needed. Please consult your Academic Advisor for details.

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Bachelor's Degree)

Suggested Degree Maps

Degree Map Name
Suggested Degree Map - Music: Vocal Performance BM
Total Degree Map Credits
118 - 138
Degree Map Effective Catalog Year
2026 -

Degree Map Narrative

- Following is a sample four-year plan. Please note that student-specific plans may differ.
- Meet with an academic advisor to create a specific plan that best fits your academic needs.
- The student is ultimately responsible for knowing and completing all degree requirements.
- Make sure you meet the registration requirements for each class by clicking the course link and checking any prerequisites or corequisites.
- Consultation with an advisor may result in an altered plan customized for an individual student.
- Check your Degree Works for requirements and completion.

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	14 - 17	0

Requirement Select

- *Students that are pre-music majors are expected to enroll in MUSC 1105 during their first semester at USU. The course is intended to prepare students for MUSC 1110 - Music Theory I (BCA). Although the course is not required for graduation, it is expected that students will register for the course and either complete it or test out. Even if testing out, students must register for the course. **MUSC 2180 consists of a series of three proficiency exams that all music majors must complete prior to the completion of four semesters of study. 1-4 credits as determined by Music Faculty Advisor to pass Level 5 Piano Proficiency in MUSC 2490. MUSC 5600 - Register for 1 credit; May register for more with permission of instructor. Students will take a total of 8 semesters to graduate in MUSC 1635. 8 credits minimum in MUSC 26/46XX: Vocal Major Ensemble. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- ENGL1010 - Writing as Inquiry (CL1)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- MUSC1105 - Fundamentals for Music Majors (BCA)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- MUSC1170 - Keyboard Harmony I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- MUSC2180 - Computer Applications in Music Proficiency Exam

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- MUSC2490 - Individual Piano Instruction (Second Instrument) for Music Majors

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1 - 2
Clinical	-
Criticality	No

Requirement Select

- MUSC5600 - Opera Theatre Production

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1 - 3
Clinical	-
Criticality	No

Requirement Select

- MUSC1635 - Individual Pre-Music Voice Instruction

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1 - 2
Progress Credits	-
Contact Hours	1 - 2
Clinical	-
Criticality	No

Requirement Select

- MUSC 26/46XX: Vocal Major Ensemble (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Quantitative Literacy (QL) Course

  OR
- Math Placement. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 5
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	17	0

Requirement Select

- 1-4 credits as determined by Musical Faculty Advisor to pass Level 5 Piano Proficiency in MUSC 2490. MUSC 5600 - Register for 1 credit; May register for more with permission of instructor. Students will take a total 8 semesters to graduate in MUSC 1635. 8 credits minimum in MUSC 26/46XX Vocal Major Ensemble. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- ENGL2010 - Research and Argument Across Perspectives (CL2)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- MUSC1110 - Music Theory I (BCA)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- MUSC1130 - Aural Skills I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- MUSC1180 - Keyboard Harmony II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- MUSC1190 - World Music

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- MUSC2490 - Individual Piano Instruction (Second Instrument) for Music Majors

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1 - 2
Clinical	-
Criticality	No

Requirement Select
- MUSC2660 - Italian Diction for Singers

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select
- MUSC5600 - Opera Theatre Production

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1 - 3
Clinical	-
Criticality	No

Requirement Select
- MUSC1635 - Individual Pre-Music Voice Instruction

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1 - 2
Clinical	-
Criticality	No

Requirement Select
- MUSC 26/46XX Vocal Major Ensemble (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	16 - 18	0

Requirement Select
- MUSC 5600 - Register for 1 credit; May register for more with permission of instructor. Students will take a total 8 semesters to graduate in MUSC 2645. 8 credits minimum in MUSC 26/46XX: Vocal Major Ensemble. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- MUSC1120 - Music Theory II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- MUSC1140 - Aural Skills II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- MUSC2490 - Individual Piano Instruction (Second Instrument) for Music Majors

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1 - 2
Progress Credits	-
Contact Hours	1 - 2
Clinical	-
Criticality	No

Requirement Select

- MUSC2670 - German Diction for Singers

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select

- MUSC3110 - Music History I: Antiquity through the Renaissance

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- MUSC5600 - Opera Theatre Production

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1 - 3
Clinical	-
Criticality	No

Requirement Select

- MUSC2645 - Individual Pre-Barrier Voice Instruction

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1 - 2
Progress Credits	-
Contact Hours	1 - 2
Clinical	-
Criticality	No

Requirement Select

- MUSC 26/46XX: Vocal Major Ensemble (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Breadth Life Sciences (BLS) Course

  OR
- Breadth Physical Sciences (BPS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	15 - 17	0

Requirement Select

- MUSC 5600 - Register for 1 credit; May register for more with permission of instructor. Students will take a total 8 semesters to graduate in MUSC 3670. 8 credits minimum in MUSC 26/46XX: Vocal Major Ensemble. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- MUSC2110 - Music Theory III

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- MUSC2130 - Aural Skills III

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- MUSC2490 - Individual Piano Instruction (Second Instrument) for Music Majors

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1 - 2
Progress Credits	-
Contact Hours	1 - 2
Clinical	-
Criticality	No

Requirement Select

- MUSC2680 - French Diction for Singers

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select

- MUSC3120 - Music History II: The Baroque and Classical Periods

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- MUSC5600 - Opera Theatre Production

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1 - 3
Clinical	-
Criticality	No

Requirement Select

- MUSC3670 - Individual Vocal Instruction for Music Majors

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1 - 2
Progress Credits	-
Contact Hours	1 - 2
Clinical	-
Criticality	No

Requirement Select

- MUSC 26/46XX: Vocal Major Ensemble (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Quantitative Intensive (QI) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Fall	15 - 19	0

Requirement Select

- MUSC 5600 - Register for 1 credit; May register for more with permission of instructor. Students will take a total 8 semesters to graduate in MUSC 3670. 8 credits minimum in MUSC 26/46XX: Vocal Major Ensemble. The foreign language requirement can be met by either taking two consecutive semesters of the same language or one semester of two different languages. *A music theory elective course is offered every fall and spring semester. The music theory elective course may be taken any semester after completing MUSC 2110 with a grade of C or better. Music students should plan which option they wish to take and consult with the music department office regarding which semester that option will be offered. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- MUSC3170 - Special Topics in Music Theory

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- MUSC3190 - Music History III: Romanticism through the 21st Century (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- MUSC5600 - Opera Theatre Production

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1 - 3
Progress Credits	-
Contact Hours	1 - 3
Clinical	-
Criticality	No

Requirement Select

- MUSC3610 - Vocal Repertory I
  OR
- MUSC3630 - Vocal Pedagogy I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2 - 3
Progress Credits	-
Contact Hours	2 - 3
Clinical	-
Criticality	No

Requirement Select

- MUSC3670 - Individual Vocal Instruction for Music Majors

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1 - 2
Progress Credits	-
Contact Hours	1 - 2
Clinical	-
Criticality	No

Requirement Select

- MUSC 26/46XX: Vocal Major Ensemble (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Foreign Language Course (French, German or Italian) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Spring	13 - 16	0

Requirement Select

- MUSC 5600 - Register for 1 credit; May register for more with permission of instructor. Students will take a total 8 semesters to graduate in MUSC 3670. 8 credits minimum in MUSC 26/46XX: Vocal Major Ensemble. The foreign language requirement can be met by either taking two consecutive semesters of the same language or one semester of two different languages. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- MUSC5600 - Opera Theatre Production

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1 - 3
Clinical	-
Criticality	No

Requirement Select

- MUSC3620 - Vocal Repertory II (CI)

  OR
- MUSC3640 - Vocal Pedagogy II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2 - 3
Progress Credits	-
Contact Hours	2 - 3
Clinical	-
Criticality	No

Requirement Select

- MUSC3670 - Individual Vocal Instruction for Music Majors

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1 - 2
Progress Credits	-
Contact Hours	1 - 2
Clinical	-
Criticality	No

Requirement Select

- MUSC3920 - Junior Recital

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1 - 2
Progress Credits	-
Contact Hours	1 - 2
Clinical	-
Criticality	No

Requirement Select

- MUSC 26/46XX: Vocal Major Ensemble (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Breadth Life Sciences (BLS) Course
  OR
- Breadth Physical Sciences (BPS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Foreign Language Course (French, German or Italian) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Fall	14 - 16	0

Requirement Select

- MUSC 5600 -Register for 1 credit; May register for more with permission of instructor. Students will take a total 8 semesters to graduate in MUSC 3670. 8 credits minimum in MUSC 26/46XX: Vocal Major Ensemble. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- MUSC5600 - Opera Theatre Production

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1 - 3
Clinical	-
Criticality	No

Requirement Select

- MUSC3610 - Vocal Repertory I
  OR
- MUSC3630 - Vocal Pedagogy I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2 - 3
Progress Credits	-
Contact Hours	2 - 3
Clinical	-
Criticality	No

Requirement Select

- MUSC3670 - Individual Vocal Instruction for Music Majors

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1 - 2
Progress Credits	-
Contact Hours	1 - 2
Clinical	-
Criticality	No

Requirement Select

- MUSC 26/46XX: Vocal Major Ensemble (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Breadth Social Sciences (BSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Breadth Humanities (BHU) Course

  OR
- Breadth American Institutions (BAI) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Depth Social Sciences (DSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Spring	14 - 18	0

Requirement Select

- MUSC 5600 - Register for 1 credit; May register for more with permission of instructor. Students will take a total 8 semesters to graduate in MUSC 3670. Students should register for 2 credits for senior recital (MUSC 4920). 8 credits minimum in MUSC 26/46XX: Vocal Major Ensemble. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- MUSC2350 - Conducting

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select

- MUSC5600 - Opera Theatre Production

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1 - 2
Progress Credits	-
Contact Hours	1 - 3
Clinical	-
Criticality	No

Requirement Select

- MUSC3620 - Vocal Repertory II (CI)

  OR
- MUSC3640 - Vocal Pedagogy II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2 - 3
Progress Credits	-
Contact Hours	2 - 3
Clinical	-
Criticality	No

Requirement Select

- MUSC3670 - Individual Vocal Instruction for Music Majors

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1 - 2
Progress Credits	-
Contact Hours	1 - 2
Clinical	-
Criticality	No

Requirement Select

- MUSC4920 - Senior Recital

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1 - 2
Progress Credits	-
Contact Hours	1 - 2
Clinical	-
Criticality	No

Requirement Select

- MUSC 26/46XX: Vocal Major Ensemble (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Breadth Humanities (BHU) Course

  OR
- Breadth American Institutions (BAI) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Depth Life and Physical Sciences (DSC) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Program Learning Outcomes

Program Learning Outcomes

https://artsci.usu.edu/assessments/

Music: Woodwind/Brass/Percussion Performance - BM

Program Overview

College
College of Arts & Sciences

Department
Music

Program Level
Undergraduate

About this Degree

Woodwind, brass and percussion students who choose to major in instrumental performance at USU enter a rigorous program that prepares them to be excellent performers and studio teachers.

Music majors will have the opportunity to perform the finest literature for their instrument in ensembles such as the Wind Orchestra and Symphony Orchestra, the Jazz Orchestra, and the Caine Ensembles–a chamber music experience with scholarship support that is open to the finest performers in the department based on audition.

Majoring in Wind and Percussion Performance at Utah State University gives you the tools you need to succeed in the professional world and beyond.

Program Specifics

Each semester, students take private instruction on their major instrument and perform in large and small ensembles. Many students also participate in athletic bands which often comes with additional scholarship support, and most students complete their degrees in 4 years.

For specific information regarding coursework required to earn a Woodwind, Brass, and Percussion emphasis, please refer to the BM Woodwind/Brass/ Percussion Performance degree map.

- For more information about Wind/Brass/Percussion Performance, see the department website.
- All music majors must pass an audition to be admitted.
- Admitted and current students must meet with an advisor.
- Log on to Degree Works to check student-specific program progress.
- The highest math requirement for this degree is the Quantitative Literacy (QL) of the student's choice.

Admission Requirements for this Program

- New freshmen must be admitted to USU in Good Standing.
- Music requires a 2.75 GPA overall for admission as a transfer student, for scholarship eligibility, and to graduate.
- Students must complete an entrance exam on primary instrument.

Program Requirements

Total Credits Required In Program Coursework
77

Total Credits Required To Earn This Credential
120

Simple Requisites

Program Requirements

To maintain Music Major (and Pre-Music Major) status at USU, students must:

1. **Complete all Individual Instruction (primary instrument) courses with a grade of B- or higher**
    - Any grade lower than B- will result in an extra required semester of Individual Instruction.
    - Any subsequent semester in which a student fails to meet this minimum grade may result in dismissal from the music program.
2. **Complete all music major core and emphasis classes with a grade of C or higher**
    - Any music course grade lower than C will not count towards graduation.
    - Core courses may be repeated once in an attempt to earn a grade of C or better.
    - Any subsequent semester in which a student fails to meet this minimum grade may result in dismissal from the music program.
3. **Maintain a 3.0 cumulative GPA in all courses that fulfill a degree/ emphasis requirement.**
    - This GPA does not include general education and depth courses.
    - This GPA does not include the STEP courses for Music Education majors.
    - If a student's degree/emphasis GPA falls under this minimum, the student will be placed on departmental academic probation for one semester.
    - Inability to meet this degree/emphasis GPA during the probationary period will result in referral to the department head who in consultation with the appropriate faculty member(s) will determine if the student shall be allowed to remain a music major through an extension of the probationary period.

GRADING SCALE for music courses:

93-100 A

90-92.99 A-

87-89.99 B+

83-86.99 B

80-82.99 B- Lowest grade for individual instruction to fulfill graduation requirements)

77-79.99 C+

73-76.99 C Lowest grade for all other program courses to fulfill graduation requirements)

70-72.99 C-

67-69.99 D+

60-66.99 D

59.99 or below F

Music - Woodwinds/Brass/Percussion Performance - BM

Type
Completion Requirement

BM Performance Music Core Curriculum (33 credits)

A grade of C or better is required in all Music Performance courses.

Complete ALL of the following Courses:

- MUSC1110 - Music Theory I (BCA) - 3cr.
- MUSC1120 - Music Theory II - 3cr.
- MUSC1130 - Aural Skills I - 1cr.

- MUSC1140 - Aural Skills II - 1cr.
- MUSC1170 - Keyboard Harmony I - 1cr.
- MUSC1180 - Keyboard Harmony II - 1cr.
- MUSC1190 - World Music - 3cr.
- MUSC2110 - Music Theory III - 3cr.
- MUSC2130 - Aural Skills III - 1cr.
- MUSC2180 - Computer Applications in Music Proficiency Exam - 1cr.
- MUSC3110 - Music History I: Antiquity through the Renaissance - 3cr.
- MUSC3120 - Music History II: The Baroque and Classical Periods - 3cr.
- MUSC3170 - Special Topics in Music Theory - 3cr.
- MUSC3190 - Music History III: Romanticism through the 21st Century (CI) - 3cr.
- MUSC3920 - Junior Recital - 1cr.
- MUSC4920 - Senior Recital - 1cr.

NOTE:

1. MUSC3920 JUNIOR RECITAL - 1 credit; 30-minute recital.
2. MUSC4920 SENIOR RECITAL - 2 credits; 60-minute recital.

Wind/Brass/Percussion Performance Emphasis Courses (35 credits)

All individual instruction courses on major instrument must be passed with a grade of B- or better. All other music concentration courses must be passed with a grade of C or better. Major requirements may *not* be taken on a pass/fail basis. Music requires a 3.0 GPA in music classes.

Fulfill ALL of the following requirements:

Required Courses

MUSC 1/2/3XXX Individual Instruction for Music Majors on major instrument

(Students need 8 semesters of study for 16-21 credits to graduate, of which at least 3 semesters must be upper division-3000 level.)

Complete ANY of the following Courses:

- MUSC1705 - Individual Pre-music Flute Instruction - 1cr.
- MUSC1715 - Individual Pre-Music Oboe Instruction - 1cr.
- MUSC1725 - Individual Pre-Music Clarinet Instruction - 1cr.
- MUSC1735 - Individual Pre-Music Bassoon Instruction - 1cr.
- MUSC1745 - Individual Pre-Music Saxophone Instruction - 1cr.
- MUSC1815 - Individual Pre-Music Trumpet Instruction - 1cr.
- MUSC1825 - Individual Pre-Music Trombone Instruction - 1cr.
- MUSC1845 - Individual Pre-Music Tuba/Euphonium Instruction - 1cr.
- MUSC1855 - Individual Pre-Music Percussion Instruction - 1cr.
- MUSC2755 - Individual Pre-barrier Flute Instruction - 1cr.
- MUSC2765 - Individual Pre-Barrier Oboe Instruction - 1cr.
- MUSC2775 - Individual Pre-Barrier Clarinet instruction - 1cr.
- MUSC2785 - Individual Pre-Barrier Bassoon Instruction - 1cr.
- MUSC2795 - Individual Pre-Barrier Saxophone Instruction - 1cr.
- MUSC2855 - Individual Pre-Barrier Trumpet Instruction - 1cr.
- MUSC2865 - Individual Pre-Barrier Trombone Instruction - 1cr.
- MUSC2875 - Individual Pre-barrier French Horn Instruction - 1cr.
- MUSC2885 - Individual Pre-Barrier Tuba/Euph Instruction - 1cr.
- MUSC2895 - Individual Pre-Barrier Percussion Instruction - 1cr.
- MUSC3710 - Individual Flute Instruction for Music Majors - 1cr.
- MUSC3720 - Individual Oboe Instruction for Music Majors - 1cr.
- MUSC3730 - Individual Clarinet Instruction for Music Majors - 1cr.
- MUSC3740 - Individual Bassoon Instruction for Music Majors - 1cr.
- MUSC3750 - Individual Saxophone Instruction for Music Majors - 1cr.
- MUSC3810 - Individual Trumpet Instruction for Music Majors - 1cr.
- MUSC3820 - Individual Trombone Instruction for Music Majors - 1cr.
- MUSC3830 - Individual French Horn Instruction for Music Majors - 1cr.
- MUSC3840 - Individual Tuba/Euphonium Instruction for Music Majors - 1cr.
- MUSC3860 - Individual Percussion Instruction for Music Majors - 1cr.

AND

Large Ensemble

8 credits minimum of large ensemble-any combination of these 3 courses satisfies requirements:

Earn at least 8 credits from the following:

- MUSC3500 - Symphony Orchestra (DHA) - 1cr.
- MUSC3790 - Symphonic Band (DHA) - 1cr.
- MUSC4700 - Wind Orchestra (DHA) - 1cr.

AND

Small Ensemble

MUSC 2/3/4XXX Small Ensemble.

Earn at least 4 credits from the following:

- MUSC2210 - Advanced Conducting Ensemble - 1cr.
- MUSC3700 - Woodwind Ensemble - 1cr.
- MUSC3760 - Jazz Ensemble - 1cr.
- MUSC3770 - Jazz Orchestra - 1cr.
- MUSC3780 - Flute Ensemble - 1cr.
- MUSC3800 - Low Brass Choir - 1cr.
- MUSC3850 - Brass Ensemble - 1cr.
- MUSC3870 - Percussion Ensemble - 1cr.
- MUSC4710 - Jazz Combo - 1cr.
- MUSC4720 - Saxophone Quartet - 1cr.

AND

Additional Required Courses:

Fulfill ALL of the following requirements:

Additional Required Courses

Complete ALL of the following Courses:

- MUSC2350 - Conducting - 2cr.
- MUSC4730 - Directed Project in Instrumental Pedagogy and Literature (CI) - 3cr.

NOTE:

1. MUSC4730 DIR PROJ INST PED AND LIT (CI) - Will only be offered when there are students on that instrument who need it to graduate; students should take it as early in their degree plan as possible.

AND

Additional Required Course Options

Fulfill ANY of the following requirements:

Option 1

Complete ALL of the following Courses:

- MUSC3900 - Improvisation I - 2cr.

OR

Option 2

Complete ALL of the following Courses:

- MUSC3910 - Individual Composition Instruction - 1cr.
- MUSC3915 - Composition Seminar - 1cr.

Music Electives (9 credits)

Minimum of 9 credits to be approved by music faculty advisor

Earn at least 9 credits from the following:

- MUSC3020 - History of Jazz (DHA) - 3cr.
- MUSC3180 - Orchestration - 2cr.
- MUSC3785 - Marching Band (DHA) - 1cr.
- MUSC3905 - Improvisation II - 2cr.
- MUSC4240 - Advanced Conducting - 2cr.
- MUSC5915 - Careers in Music - 3cr.

• All other large and small ensembles (1 credit each)
• Any/all recording technology courses (2-3 credits each)
• Secondary applied lessons or individual composition instruction (1 credit)
• Independent study (1-6 credits; must be with a music faculty member)

Recital and Concert Attendance Requirement

Complete the following:

To graduate, students are required to attend a minimum of 80 concerts or recitals. Recital and concert attendance is monitored and recorded in the Music Student Services office. Students should turn in programs after attending concerts and recitals for documentation of attendance.

Open Electives

Complete the following as needed:

Total elective credit is determined by General Education courses taken, degree type selected, additional credits earned, and any additional math or other prerequisite courses needed. Please consult your Academic Advisor for details.

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Bachelor's Degree)

Suggested Degree Maps

Degree Map Name
Suggested Degree Map - Music: Woodwind/Brass/Percussion Performance BM
Total Degree Map Credits
117 - 130
Degree Map Effective Catalog Year
2027 -

Degree Map Narrative

- Following is a sample four-year plan. Please note that student-specific plans may differ.
- Meet with an academic advisor to create a specific plan that best fits your academic needs.
- The student is ultimately responsible for knowing and completing all degree requirements.
- Make sure you meet the registration requirements for each class by clicking the course link and checking any prerequisites or corequisites.
- Consultation with an advisor may result in an altered plan customized for an individual student.
- Check your Degree Works for requirements and completion.

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	15	0

Requirement Select

- Students that are pre-music majors are expected to enroll in MUSC 1105 during their first semester at USU. The course is intended to prepare students for MUSC 1110 - Music Theory I (BCA). Although the course is not required for graduation, it is expected that students will register for the course and either complete it or test out. Even if testing out, students must register for the course. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- ENGL1010 - Writing as Inquiry (CL1)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- MUSC1105 - Fundamentals for Music Majors (BCA)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- MUSC1170 - Keyboard Harmony I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- MUSC1190 - World Music

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- MUSC3500 - Symphony Orchestra (DHA)
  OR
- MUSC3790 - Symphonic Band (DHA)
  OR
- MUSC4700 - Wind Orchestra (DHA)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- MUSC 17/18XX Individual Pre-Music Wind/Percussion Instruction (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Music Electives (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	15	0

Requirement Select

- Must pass Level 1 Jury and earn at least a grade of C in Music Theory I, Aural Skills I and satisfy Basic Piano Proficiency requirement. Students in this program must complete a jury or recital hearing, take private instruction, and participate in at least one large ensemble each semester they are in residence. MUSC 2180 consists of a series of three proficiency exams that all music majors must complete prior to the completion of four semesters of study. Register for 2 credits of MUSC 17/18XX Individual Pre-Music Wind/Percussion Instruction and 8 credits minimum of MUSC 3500, MUSC 3790, or MUSC 4700. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- MUSC1110 - Music Theory I (BCA)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- MUSC1130 - Aural Skills I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- MUSC1180 - Keyboard Harmony II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- MUSC2180 - Computer Applications in Music Proficiency Exam

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- MUSC3500 - Symphony Orchestra (DHA)

  OR
- MUSC3790 - Symphonic Band (DHA)

  OR
- MUSC4700 - Wind Orchestra (DHA)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- MUSC 17/18XX Individual Pre-Music Wind/Percussion Instruction (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- ENGL2010 - Research and Argument Across Perspectives (CL2)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Quantitative Literacy (QL) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	16	0

Requirement Select

- Students in this program must complete a jury or recital hearing, take private instruction, and participate in at least one large ensemble each semester they are in residence. Register for 2 credits of MUSC 27/28XX Individual Pre-Barrier Wind/Brass/Percussion Instruction and 8 credits minimum of MUSC 3500, MUSC 3790, or MUSC 4700. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- MUSC1120 - Music Theory II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- MUSC1140 - Aural Skills II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- MUSC3110 - Music History I: Antiquity through the Renaissance

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- MUSC3500 - Symphony Orchestra (DHA)
  OR
- MUSC3790 - Symphonic Band (DHA)
  OR
- MUSC4700 - Wind Orchestra (DHA)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- MUSC 27/28XX: Individual Pre-Barrier Wind/Brass/ Percussion Instruction (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Breadth American Institutions (BAI) Course
  OR
- Breadth Life Sciences (BLS) Course
  OR
- Breadth Physical Sciences (BPS) Course

Course Requirement Group

Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Breadth American Institutions (BAI) Course
  OR
- Breadth Life Sciences (BLS) Course
  OR
- Breadth Physical Sciences (BPS) Course

Course Requirement Group

Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	15 - 16	0

Requirement Select

- Students in this program must complete a jury or recital hearing, take private instruction, and participate in at least one large ensemble each semester they are in residence. Register for 2 credits of MUSC 37/38XX Individual Wind/ Brass/Percussion Instruction and 8 credits minimum of MUSC 3500, MUSC 3790, or MUSC 4700. (Generic)

Course Requirement Group

Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- MUSC2110 - Music Theory III

Course Requirement Group

Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- MUSC2130 - Aural Skills III

Course Requirement Group

Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- MUSC3120 - Music History II: The Baroque and Classical Periods

Course Requirement Group

Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- MUSC3500 - Symphony Orchestra (DHA)
  OR
- MUSC3790 - Symphonic Band (DHA)
  OR
- MUSC4700 - Wind Orchestra (DHA)

Course Requirement Group

Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- MUSC2350 - Conducting

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select

- MUSC 37/38XX: Individual Wind/Brass/Percussion Instruction (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2 - 3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- CMST1020 - Public Speaking (BHU)

  OR
- CMST2110 - Interpersonal Communication (BHU)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Fall	14 - 16	0

Requirement Select

- Ped/Lit courses are taught by individual applied faculty and will only be offered when there are students on that instrument who need it to graduate; students should take it as early in their degree plan as possible. If it is not taught in students/ junior year, it can be traded with the senior year MUSC 3170 or one of the general education courses in sophomore year. Students in this program must complete a jury or recital hearing, take private instruction, and participate in at least one large ensemble each semester they are in residence. Register for 2-3 credits of MUSC 37/38XX Individual Wind/Brass/Percussion Instruction and 8 credits minimum of MUSC 3500, MUSC 3790, or MUSC 4700. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- MUSC3190 - Music History III: Romanticism through the 21st Century (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- MUSC4730 - Directed Project in Instrumental Pedagogy and Literature (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- MUSC3500 - Symphony Orchestra (DHA)
  OR
- MUSC3790 - Symphonic Band (DHA)
  OR
- MUSC4700 - Wind Orchestra (DHA)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- MUSC 37/38XX: Small Ensemble (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- MUSC 37/38XX: Individual Wind/Brass/Percussion Instruction (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2 - 3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Music Electives (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1 - 2
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- BUSN1010 - Business Principles (BSS)
  OR
- FCSE1350 - Financial Literacy (BSS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Spring	14 - 18	0

Requirement Select

- Students in this program must complete a jury or recital hearing, take private instruction, and participate in at least one large ensemble each semester they are in residence. Register for 2-3 credits of MUSC 37/38XX Individual Wind/Brass/Percussion Instruction, 1 credit of MUSC 3920, MUSC 3910, and MUSC 3915, and 8 credits minimum of MUSC 3500, MUSC 3790, or MUSC 4700. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- MUSC3500 - Symphony Orchestra (DHA)
  OR
- MUSC3790 - Symphonic Band (DHA)
  OR
- MUSC4700 - Wind Orchestra (DHA)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- MUSC3900 - Improvisation I
  OR
- MUSC3910 - Individual Composition Instruction
- **AND** MUSC3915 - Composition Seminar

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1 - 2
Progress Credits	-
Contact Hours	2 - 3
Clinical	-
Criticality	No

Requirement Select

- MUSC3920 - Junior Recital

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1 - 2
Clinical	-
Criticality	No

Requirement Select

- MUSC 37/38XX: Small Ensemble (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2 - 3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- MUSC 37/38XX: Individual Wind/Brass/Percussion Instruction (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2 - 3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Music Electives (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4 - 5
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Breadth American Institutions (BAI) Course
  OR
- Breadth Life Sciences (BLS) Course
  OR
- Breadth Physical Sciences (BPS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Fall	14 - 16	0

Requirement Select

- Register for 2-3 credits of MUSC 37/38XX Individual Wind/Brass/Percussion Instruction. Students in this program must complete a jury or recital hearing, take private instruction, and participate in at least one large ensemble each semester they are in residence. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- MUSC3170 - Special Topics in Music Theory

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- MUSC 37/38XX: Individual Wind/Brass/Percussion Instruction (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2 - 3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- MUSC3500 - Symphony Orchestra (DHA)
  OR
- MUSC3790 - Symphonic Band (DHA)
  OR
- MUSC4700 - Wind Orchestra (DHA)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- MUSC 37/38XX: Small Ensemble (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Depth Life and Physical Sciences (DSC) Course
  OR
- Depth Social Sciences (DSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- MUSC 3030 recommended for DSS (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Music Electives (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4 - 5
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Spring	14 - 18	0

Requirement Select

- Students in this program must complete a jury or recital hearing, take private instruction, and participate in at least one large ensemble each semester they are in residence. Register for 2-3 credits of MUSC 37/38XX Individual Wind/ Brass/Percussion Instruction, 2 credits of MUSC 4920, and 8 credits minimum of MUSC 3500, MUSC 3790, or MUSC 4700. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- MUSC4920 - Senior Recital

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	1 - 2
Clinical	-
Criticality	No

Requirement Select

- MUSC 37/38XX: Individual Wind/Brass/Percussion Instruction (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2 - 3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- MUSC3500 - Symphony Orchestra (DHA)
  OR
- MUSC3790 - Symphonic Band (DHA)
  OR
- MUSC4700 - Wind Orchestra (DHA)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- MUSC 37/38XX: Small Ensemble (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Depth Life and Physical Sciences (DSC) Course
  OR
- Depth Social Sciences (DSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- CCA 3070 recommended for DSC (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Quantitative Intensive (QI) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 5
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- CCA 3070 recommended for QI (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Music Electives (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2 - 3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Program Learning Outcomes

Program Learning Outcomes

https://artsci.usu.edu/assessments/

Museum Studies - Institutional Certificate of Proficiency

Program Overview

College	Department	Program Level
College of Arts & Sciences	School of Social Sciences	Undergraduate

About this Degree

Program Director: Dr. Jacob Freeman, Department of Sociology, Anthropology and Criminal Justice

Museum Director/Program Administrator: Dr. Molly Cannon, Department of Sociology, Anthropology and Criminal Justice

Advisor: Tom Liljegren, CHaSS Advising - Schedule an appointment at https://artsci.usu.edu/advising/.

Department Head: Dr. Judson Finley, Department of Sociology, Anthropology and Criminal Justice

Location: Old Main, 252

Phone: (435) 797-7545

E-mail: molly.cannon@usu.edu

The Museum of Anthropology is a teaching unit under the program's umbrella that offers a certificate in Museum Studies. The certificate program is unique among offerings at Utah's public and private institutions, in that a certificate can be earned as a complement to a bachelor's, master's, or PhD degree in any field. The 24-credit certification program, which features supporting coursework from nearly two dozen departments and programs across the USU campus, educates students in museum administration, collections management and care, and interpretation and exhibition skills. Interested students should consult the USU Museum of Anthropology Director or Museum Studies Advisor for more information on the certificate and a list of course and internship requirements.

Utah State University's Museum Studies Certificate is designed to provide both undergraduate and graduate students with a strong theoretical and experiential foundation (1) for graduate work with the field of Museum Studies; (2) paid jobs in museum settings upon graduation; and/or (3) voluntary service at Utah's 250+ museums.

The certificate program is unique among offerings at Utah's public and private institutions, in that a certificate can be earned as a complement to a bachelor's, master's, or PhD degree in any field.

Admission Requirements for this Program

Interested students are urged to meet with the Museum Curator or certificate advisor as early as possible to ensure efficient course planning.

Program Requirements

Total Credits Required In Program Coursework	Total Credits Required To Earn This Credential
24	24

Simple Requisites

Program Requirements

Students must maintain a 3.0 GPA for all courses taken to fulfill certificate requirements. A maximum of 12 credits can come from any one course prefix. Students must have a 3.0 GPA for all coursework to graduate with the Museum Studies Certificate. All courses require a minimum grade of B or better.

Museum Studies Course Requirements (24 credits)

Type
Completion Requirement

1. Museum Studies Required Core Courses (6 credits)

Fulfill ALL of the following requirements:

Required (3 credits)

Complete ALL of the following Courses:

- ANTH3310 - Introduction to Museum Studies (CI) - 3cr.

AND

Required (3 credits):

And any combination of the following (3 credit hours):

Earn at least 3 credits from the following:

- ANTH5900 - Independent Studies - 1cr.
- ARTH4810 - Museum Internship - 1cr.
- HIST4940 - Historical Internship - 1cr.
- HIST4945 - Archives Management/Archives Internship - 1cr.
- USU4250 - Advanced Internship - 1cr.

2. Museum Administration Courses (6 credits)

Complete at least 2 of the following courses:

- ACCT2010 - Financial Accounting Principles - 3cr.
- ACCT2020 - Managerial Accounting Principles - 3cr.
- BUS3200 - Professional Communication with AI (CI) - 3cr.
- CCA3060 - Quantitative Methods for the Arts (QI) - 3cr.
- DATA2100 - Data and Information in Business - 3cr.
- ECON1500 - Introduction to Economic Instititutions, History, and Principles - 3cr.
- ENGL3040 - Perspectives in Writing and Rhetoric (DHA) - 3cr.
- HIST3000 - History Research Methods - 3cr.
- HIST4020 - Public History - 3cr.
- HIST4990 - Undergraduate Research Capstone (CI) - 3cr.
- MGT3250 - Managing Human Capital - 3cr.
- MGT3710 - Team Management - 2cr.
- MGT3810 - Employment Law (DSS) - 3cr.
- MSLE3110 - Managing Organizations and People (DSS) - 3cr.
- MSLE3500 - Fundamentals of Marketing - 3cr.
- OSS1550 - Business Correspondence - 3cr.
- TCR2100 - Introduction to Technical Communication - 3cr.
- TCR3100 - Workplace Research - 3cr.

3. Object Care and Exhibition (6 credits)

Complete at least 2 of the following courses:

- ANTH3250 - Osteology - 3cr.
- ANTH5320 - Zooarchaeology - 3cr.
- ANTH5420 - Lithic Analysis - 1cr.
- ANTH5800 - Museum Development - 1cr.
- ART1050 - Introduction to Photography - 3cr.
- ART1120 - Two-Dimensional Design - 3cr.
- ART1130 - Three-Dimensional Design - 3cr.
- ART2400 - Introduction to Graphic Design - 3cr.
- ART2810 - Photography I - 3cr.
- ART3400 - Typography - 3cr.
- ARTH5430 - Curatorial Seminar - Rare Books and Manuscripts - 3cr.
- CHEM1010 - Introduction to Chemistry (BPS) - 3cr.
- CHEM1110 - General Chemistry I (BPS) - 4cr.
- CHEM1210 - Principles of Chemistry I - 4cr.
- ENGL4700 - Folk Material Culture (DHA) - 3cr.
- FCSE3030 - Textile Science (DSC/QI) - 4cr.
- HIST3390 - Objects of War - 3cr.
- HIST4940 - Historical Internship - 1cr.
- HIST4945 - Archives Management/Archives Internship - 1cr.
- ITLS3110 - Design Perspectives and Processes I - 3cr.
- ITLS3120 - Design Perspectives and Processes II - 3cr.
- ITLS4208 - Integrated Multimedia Production - 3cr.
- ITLS5215 - Video and Audio Design and Production I - 3cr.
- ITLS5220 - Video and Audio Design and Production II - 3cr.
- ITLS5230 - Graphic Design and Production I - 3cr.
- ITLS5240 - Graphic Design and Production II - 3cr.
- JCOM2030 - Multimedia Bootcamp - 4cr.
- TCR4210 - Visual Communication Design - 3cr.

4. Interpretation and Educational Outreach (6 credits)

Any 1 Art History (ARTH) Course (3 credits) will count toward the Interpretation and Educational Outreach requirement.

Complete at least 2 of the following courses:

- CCA3070 - Unveiling the Anthropocene (DSC/QI) - 3cr.
- CCA3330 - Arts Symposium (DHA) - 2cr.
- CMST1020 - Public Speaking (BHU) - 3cr.
- CMST2110 - Interpersonal Communication (BHU) - 3cr.
- CMST3330 - Intercultural Communication (DSS) - 3cr.
- ELED1010 - Orientation to Elementary Education - 3cr.
- ENGL3040 - Perspectives in Writing and Rhetoric (DHA) - 3cr.
- ENGL3440 - Creative Nonfiction Writing - 3cr.
- ENVS5600 - Natural Resource Interpretation - 3cr.
- JCOM1130 - Media Writing - 3cr.
- JCOM1500 - Introduction to Mass Communication (BSS) - 3cr.
- JCOM3310 - Writing for Public Relations (CI) - 3cr.
- SCED3210 - Educational and Multicultural Foundations (DSS/CI) - 3cr.
- THEA1033 - Beginning Acting (BCA) - 3cr.
- THEA4320 - Storytelling in Education (DHA) - 3cr.

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Undergraduate Academic or Technical Certificates)

Program Learning Outcomes

Program Learning Outcomes

https://chass.usu.edu/assessments/

Music Studies - Minor

Program Overview

College
College of Arts & Sciences

Department
Music

Program Level
Undergraduate

About this Degree
The Music Studies Minor gives students with or without formal training in music the opportunity to understand it from new perspectives. Classes address music listening, music notation, world music, and music history. Students who wish to take voice or instrument lessons and play or sing in ensembles should also consider the Basic Music Minor.

Program Requirements

Total Credits Required To Earn This Credential
18

Simple Requisites

Program Requirements

18 credits

Section 1

Type
Completion Requirement

Required Courses (9 credits)

Complete ALL of the following Courses:

- MUSC1010 - Introduction to Music (BCA) - 3cr.
- MUSC1100 - Fundamentals of Music for Non-Music Majors (BCA) - 3cr.
- MUSC1190 - World Music - 3cr.

Section 2

Type
Completion Requirement

Elective Courses (9 credits)

Earn at least 9 credits from the following:

- MUSC3010 - Masterpieces of Music (DHA) - 3cr.
- MUSC3020 - History of Jazz (DHA) - 3cr.
- MUSC3030 - Rock and Roll-Catalyst for Social Change (DSS) - 3cr.

Program Learning Outcomes

Program Learning Outcomes
https://www.usu.edu/oda/assessment/

Music Therapy - BS

Program Overview

College
College of Arts & Sciences

Department
Music

Program Level
Undergraduate

About this Degree
Utah State offers the only music therapy program in the state of Utah, and the program is one of only five in the western United States.

USU employs top music therapy educators who attract students from around the world. Over the last 20 years our graduates have maintained a nearly perfect pass rate on the national board exam and 100% job placement, as music therapists are in high demand across the nation. Graduates also have excellent internship placement at nationally competitive sites throughout the country. A degree in music therapy prepares students for an established healthcare profession that uses music to address the physical, emotional, cognitive, and social needs of individuals of all ages.

Music therapists can improve the quality of life for people who are healthy as well as children and adults with illnesses or disabilities. They help others manage stress, alleviate pain, express feelings, enhance memory, improve communication, and improve health through music therapy practices.

- For more information about Music Therapy, see the department website.
- Admitted and current students must meet with an advisor.
- Log on to Degree Works to check student-specific program progress.
- The highest math requirement for this degree is STAT1040 INTRO TO STATISTICS (QL) or STAT1045 INTRO STAT WITH ALGEBRA (QL) or STAT1080 FOUNDATIONS OF DATA SCI (QL).

Admission Requirements for this Program

- New freshmen:
    - Admitted to USU in Good Standing
    - Acceptance into the Music Therapy major based on competitive selection through audition/interview process.
    - 3.00 GPA
- Transfer students from other institutions or other programs at USU:
    - Admitted to USU in Good Standing
    - Acceptance into the Music Therapy major based on competitive selection through audition/interview process.
    - 3.00 GPA

Program Requirements

Total Credits Required In Program Coursework

Total Credits Required To Earn This Credential
120

Simple Requisites

Program Requirements

All individual instruction courses must be passed with a grade of B- or better. All Music Therapy Core Curriculum Courses (MUSC prefix) must be passed with a grade of B or better. All other music courses (MUSC prefix) must be passed with a grade of C or better. Music requires a 3.0 GPA in music courses and 3.0 GPA overall for admission as a transfer student and for scholarship eligibility.

Some major coursework will fulfill the General Education Requirements and University Studies Requirements.

• STAT1040 INTRO TO STATISTICS (QL) or STAT1045 INTRO STAT WITH ALGEBRA (QL) or STAT1080 FOUNDATIONS OF DATA SCI (QL) is required for the Music Therapy major for Quantitative Literacy (QL).
• MUSC3190 MUSIC HISTORY III (CI) and MUSC4320 RESEARCH IN MUSIC THERAPY (CI) will fulfill the Communications Intensive (CI) requirement.
• PSY3010 PSYCHOLOGICAL STAT (QI) is suggested for fulfilling the Quantitative Intensive (QI) requirement.
• Music Therapy majors must complete 9 credits of Behavioral Health electives. Three (3) credits must come from a Depth Social Sciences (DSS) designated course in order to fulfill the DSS University Studies Requirement. Behavioral Health Elective course options with the DSS designation are: PSY3120 ABUSE AND NEGLECT (DSS), PSY3510 SOCIAL PSYCHOLOGY (DSS), PSY4210 PERSONALITY THEORY (DSS), PSY4230 PSYCHOLOGY OF GENDER (DSS) and SOC3010 SOCIAL INEQUALITY (DSS).

Music Therapy - BS

Type
Completion Requirement

BS Music Therapy Music Core Curriculum (33 credits)

Earn a minimum grade of C in the following:

- MUSC1105 - Fundamentals for Music Majors (BCA) - 3cr.
- MUSC1110 - Music Theory I (BCA) - 3cr.
- MUSC1120 - Music Theory II - 3cr.
- MUSC1130 - Aural Skills I - 1cr.
- MUSC1140 - Aural Skills II - 1cr.
- MUSC1170 - Keyboard Harmony I - 1cr.
- MUSC1180 - Keyboard Harmony II - 1cr.
- MUSC1190 - World Music - 3cr.
- MUSC2110 - Music Theory III - 3cr.
- MUSC2130 - Aural Skills III - 1cr.
- MUSC2180 - Computer Applications in Music Proficiency Exam - 1cr.
- MUSC3110 - Music History I: Antiquity through the Renaissance - 3cr.
- MUSC3120 - Music History II: The Baroque and Classical Periods - 3cr.
- MUSC3170 - Special Topics in Music Theory - 3cr.
- MUSC3190 - Music History III: Romanticism through the 21st Century (CI) - 3cr.

BS Music Therapy Core Curriculum Requirements (31 credits)

The following 14 courses constitute the “core” of the music therapy program. Only matriculated majors are allowed to enroll in these courses, with the exception of MUSC1310 INTRO MUSIC THERAPY and MUSC3320 PSYCHOLOGY OF MUSIC. Students from any area of study are welcome to enroll in MUSC3110 MUSIC HISTORY I and/or MUSC3320 PSYCHOLOGY OF MUSIC. Music Therapy majors must earn a grade of B or better in each of these required music therapy core courses.

Earn a minimum grade of B in the following:

- MUSC1310 - Introduction to Music Therapy - 2cr.
- MUSC1320 - Improvisation Facilitation in Music Therapy - 2cr.
- MUSC2310 - Music Therapy Treatment I - 2cr.
- MUSC2320 - Music Therapy Treatment II - 2cr.
- MUSC3310 - Music Therapy With Diverse Clinical Populations - 3cr.
- MUSC3320 - Psychology of Music - 2cr.
- MUSC3331 - Music Therapy Practicum: Field Experience 1 - 1cr.
- MUSC3332 - Music Therapy Practicum: Field Experience 2 - 2cr.
- MUSC3333 - Music Therapy Practicum: Field Experience 3 - 3cr.
- MUSC3334 - Music Therapy Practicum: Field Experience 4 - 3cr.
- MUSC4310 - Music Therapy with Adult Populations - 3cr.
- MUSC4320 - Research in Music Therapy (CI) - 2cr.
- MUSC4330 - Clinical and Professional Issues in Music Therapy - 3cr.
- MUSC4340 - Internship in Music Therapy - 2cr.

BS Music Therapy - Ensemble and Individual Instruction Requirements (6 credits)

Music Therapy majors have the opportunity to participate in USU’s performing large ensembles (i.e., choir, band, and orchestra). Two semesters (2 credits) of participation are required.

Music Therapy majors are required to successfully pass four juried semesters of individual instruction on their major performing instrument. Individual instruction courses must be passed with a grade of B- or higher. [NOTE: Music Therapy Core Curriculum Courses must be passed with a B grade or better; all other music courses must be passed with a grade of C or better. Music requires a 3.0 GPA in music courses and 3.0 GPA overall for admission as a transfer student and for scholarship eligibility.

- MUSC 2/3/4XXX Large Ensemble (2 credits minimum)
- **Individual Instruction**

  Music Therapy majors must take 4 semesters of juried instruction on their major instrument.

  Register for 1 credit of pre-music individual instruction on your major instrument for the first and second semesters of study.

Fulfill ALL of the following requirements:

Pre-music 1000-level (2 credits)

Earn at least 2 credits from the following:

- MUSC1225 - Individual Pre-Music Harp Instruction - 1cr.
- MUSC1484 - Individual Pre-Music Piano Instruction for Music Therapy Majors - 1cr.
- MUSC1515 - Individual Pre-major Cello Instruction - 1cr.
- MUSC1525 - Individual Pre-music Viola Instruction - 1cr.
- MUSC1535 - Individual Pre-Music Violin Instruction - 1cr.
- MUSC1545 - Individual Pre-Music String Bass Instruction - 1cr.
- MUSC1585 - Individual Pre-music Guitar Instruction - 1cr.
- MUSC1635 - Individual Pre-Music Voice Instruction - 1cr.
- MUSC1705 - Individual Pre-music Flute Instruction - 1cr.
- MUSC1715 - Individual Pre-Music Oboe Instruction - 1cr.
- MUSC1725 - Individual Pre-Music Clarinet Instruction - 1cr.
- MUSC1735 - Individual Pre-Music Bassoon Instruction - 1cr.
- MUSC1745 - Individual Pre-Music Saxophone Instruction - 1cr.
- MUSC1815 - Individual Pre-Music Trumpet Instruction - 1cr.
- MUSC1825 - Individual Pre-Music Trombone Instruction -

1cr.
- MUSC1835 - Individual Pre-music French Horn Instruction - 1cr.
- MUSC1845 - Individual Pre-Music Tuba/Euphonium Instruction - 1cr.
- MUSC1855 - Individual Pre-Music Percussion Instruction - 1cr.

AND

Individual Pre-Barrier Instruction 2000-level (1 credit)

Register for 1 credit of individual pre-barrier instruction on major instrument the third semester of study.

Earn at least 1 credits from the following:
- MUSC2225 - Individual Pre-Barrier Harp Instruction - 1cr.
- MUSC2494 - Individual Pre-Barrier Piano Instruction for Music Therapy Majors - 1cr.
- MUSC2505 - Individual Pre-Barrier String Bass Instruction - 1cr.
- MUSC2525 - Individual Pre-Barrier Cello Instruction - 1cr.
- MUSC2535 - Individual Pre-barrier Viola Instruction - 1cr.
- MUSC2545 - Individual Pre-Barrier Violin Instruction - 1cr.
- MUSC2595 - Individual Pre-Barrier Guitar Instruction - 1cr.
- MUSC2645 - Individual Pre-Barrier Voice Instruction - 1cr.
- MUSC2755 - Individual Pre-barrier Flute Instruction - 1cr.
- MUSC2765 - Individual Pre-Barrier Oboe Instruction - 1cr.
- MUSC2775 - Individual Pre-Barrier Clarinet instruction - 1cr.
- MUSC2785 - Individual Pre-Barrier Bassoon Instruction - 1cr.
- MUSC2795 - Individual Pre-Barrier Saxophone Instruction - 1cr.
- MUSC2855 - Individual Pre-Barrier Trumpet Instruction - 1cr.
- MUSC2865 - Individual Pre-Barrier Trombone Instruction - 1cr.
- MUSC2875 - Individual Pre-barrier French Horn Instruction - 1cr.
- MUSC2885 - Individual Pre-Barrier Tuba/Euph Instruction - 1cr.
- MUSC2895 - Individual Pre-Barrier Percussion Instruction - 1cr.

AND

Individual Instruction on Major Instrument 3/4000-level (1 credit)

Register for 1 credit of individual instruction on major instrument for fourth semester of study

Earn at least 1 credits from the following:
- MUSC3210 - Individual Harp Instruction for Music Majors - 1cr.
- MUSC3445 - Individual Piano Instruction for Music Therapy Majors - 1cr.
- MUSC3480 - Individual Organ Instruction for Music Majors - 1cr.
- MUSC3550 - Individual Guitar Instruction for Music Majors - 1cr.
- MUSC3670 - Individual Vocal Instruction for Music Majors - 1cr.
- MUSC3710 - Individual Flute Instruction for Music Majors - 1cr.
- MUSC3720 - Individual Oboe Instruction for Music Majors - 1cr.
- MUSC3730 - Individual Clarinet Instruction for Music Majors - 1cr.
- MUSC3740 - Individual Bassoon Instruction for Music Majors - 1cr.
- MUSC3750 - Individual Saxophone Instruction for Music Majors - 1cr.
- MUSC3810 - Individual Trumpet Instruction for Music Majors - 1cr.
- MUSC3820 - Individual Trombone Instruction for Music Majors - 1cr.
- MUSC3830 - Individual French Horn Instruction for Music Majors - 1cr.
- MUSC3840 - Individual Tuba/Euphonium Instruction for Music Majors - 1cr.
- MUSC3860 - Individual Percussion Instruction for Music Majors - 1cr.
- MUSC4510 - Individual Violin Instruction for Music Majors - 1cr.
- MUSC4520 - Individual Viola Instruction for Music Majors - 1cr.
- MUSC4530 - Individual Cello Instruction for Music Majors - 1cr.
- MUSC4540 - Individual String Bass Instruction for Music Majors - 1cr.

NOTE:

Additional Individual Instruction in Piano, Voice, and Guitar (up to 4 credits). *Music Therapy majors will be individually advised whether additional instruction in Piano, Voice, and/or Guitar are required to achieve proficiency. Please work with your advisor for course options.*

BS Music Therapy - Additional Required Courses (17 credits)

In addition to the Music Therapy Core Curriculum, the Music Core Curriculum, and the General Education Requirements/University Studies Requirements curriculum, the following courses are required for degree fulfillment.

Complete ALL of the following Courses:
- BIOL2320 - Human Anatomy - 4cr.
- HDFS1500 - Human Development Across the Lifespan (BSS) - 3cr.
- MUSC1185 - Group Piano for Music Therapy Majors - 1cr.
- MUSC1800 - Percussion Techniques - 1cr.
- MUSC2350 - Conducting - 2cr.
- PSY1010 - General Psychology (BSS) - 3cr.
- STAT1040 - Introduction to Statistics (QL) - 3cr.

Music Therapy Behavioral Elective Courses (9 credits)

Music Therapy students must earn a minimum of 9 credits of Behavioral Health/Natural Sciences electives from the list of courses below, or courses approved by the Music Therapy Program Director. Students must ensure that one of the Behavioral Health/Natural Sciences Electives has a DSS designation in order to fulfill the DSS requirement. These courses may also be leveraged to satisfy many of the requirements for the Psychology minor. Please see the Psychology - Minor minor requirements in this catalog for details.

Earn at least 9 credits from the following:
- ASL1010 - American Sign Language I - 4cr.
- HDFS2400 - Couple and Family Relationships (BSS) - 3cr.

- HDFS3100 - Abuse and Neglect in Family Context - 3cr.
- HDFS3700 - Mental Health Advocacy and Awareness - 3cr.
- PSY1100 - Lifespan Development - 3cr.
- PSY1400 - Analysis of Behavior: Basic Principles - 3cr.
- PSY2300 - Psychological Disorders - 3cr.
- PSY3120 - Abuse, Neglect, and the Psychological Dimensions of Intimate Violence (DSS) - 3cr.
- PSY3460 - Neuroscience I - 3cr.
- PSY3510 - Social Psychology (DSS) - 3cr.
- PSY3700 - Mental Health Advocacy and Awareness - 3cr.
- PSY4210 - Personality Theory (DSS) - 3cr.
- PSY4230 - Psychology of Gender (DSS) - 3cr.
- SHS3200 - Child Language Development - 3cr.
- SOC1010 - Introductory Sociology (BSS) - 3cr.
- SOC2370 - Sociology of Gender (BSS) - 3cr.
- SOC3010 - Social Inequality (DSS) - 3cr.

Recital Attendance

Complete the following:
To graduate, students are required to attend a minimum of 80 (avg.10/ semester) concerts or recitals. Students will have access to an online Canvas course where they may report and monitor their attendance at concerts and recitals.

Open Electives

Complete the following as needed:
Total elective credit is determined by General Education courses taken, degree type selected, additional credits earned, and any additional math or other prerequisite courses needed. Please consult your Academic Advisor for details.

Additional Comments:

Licensure Notification

Given the varied and changing requirements across jurisdictions, Utah State University departments make reasonable efforts to determine the states where their programs currently do and do not meet educational requirements for licensure. The current information for each program that is expected to lead to licensure and each state is available at https://www.usu.edu/online/state-authorization/. Students are encouraged to become familiar with relevant state licensing laws and discuss their curricular plan with their program advisor. The Music Therapy BS Program at USU fully prepares students to qualify for the national certification examination to earn the credential of "Music Therapist-Board Certified (MT-BC)." As a board-certified music therapist, graduates would then be eligible to apply for licensure in any state where this may be required.

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Bachelor's Degree)

Suggested Degree Maps

Degree Map Name
Suggested Degree Map - Music Therapy - BS
Total Degree Map Credits
121 - 126
Degree Map Effective Catalog Year
2027 -

Degree Map Narrative

- Following is a sample four-year plan. Please note that student-specific plans may differ.
- Meet with an academic advisor to create a specific plan that best fits your academic needs.
- The student is ultimately responsible for knowing and completing all degree requirements.
- Make sure you meet the registration requirements for each class by clicking the course link and checking any prerequisites or corequisites.
- Consultation with an advisor may result in an altered plan customized for an individual student.
- Check your Degree Works for requirements and completion.

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	17	0

Requirement Select

- In order to ensure that music students are sufficiently prepared for the music theory sequence required in all music degrees (education, performance, and therapy), MUSC 1105 was established as a prerequisite for MUSC 1110. As this course is considered remedial work, the 3 credits earned in MUSC 1105 are not required for degree completion, but will apply to the 120-credit minimum for all bachelor's degrees. All incoming music students will have an opportunity to test out of MUSC 1105. Because this test is administered in part through Canvas, all incoming pre-program music majors should register for MUSC 1105 regardless of whether they expect to remain in the class. Those who do not pass the test must pass MUSC 1105 with a grade of C or better before taking MUSC 1110. Those students who pass the test will resume the music theory sequence with MUSC 1110 the following spring semester. MUSC 2180 - Computer Applications in Music Proficiency Exam consists of a series of three proficiency exams that all music majors must complete prior to the completion of four semesters of study. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- ENGL1010 - Writing as Inquiry (CL1)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- MUSC1105 - Fundamentals for Music Majors (BCA)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- MUSC1170 - Keyboard Harmony I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- MUSC1185 - Group Piano for Music Therapy Majors

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- MUSC1310 - Introduction to Music Therapy

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select

- MUSC2180 - Computer Applications in Music Proficiency Exam

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- MUSC1800 - Percussion Techniques

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- STAT1040 - Introduction to Statistics (QL)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- MUSC 2/3/4XXX: Large Ensemble Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- MUSC 1XXX: Individual Pre-Music Instruction (major instrument) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	18 - 19	0

Requirement Select

- MUSC1110 - Music Theory I (BCA)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- MUSC1130 - Aural Skills I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- MUSC1180 - Keyboard Harmony II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- MUSC1190 - World Music

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- MUSC1320 - Improvisation Facilitation in Music Therapy

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select

- PSY1010 - General Psychology (BSS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- MUSC 2/3/4XXX: Large Ensemble Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- MUSC 1XXX: Individual Pre-Music Instruction (major instrument (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- MUSC 1/2/3XXX Piano, Voice, or Guitar Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	0 - 1
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Breadth Life Sciences (BLS) Course

OR

- Breadth Life Sciences (BLS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	16 - 17	0

Requirement Select

- ENGL2010 - Research and Argument Across Perspectives (CL2)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- MUSC1120 - Music Theory II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- MUSC1140 - Aural Skills II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- MUSC2310 - Music Therapy Treatment I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select

- MUSC3110 - Music History I: Antiquity through the Renaissance

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- MUSC 2XXX: Individual Pre-Barrier Instruction (major instrument) (register for 1 credit) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- MUSC 1/2/3XXX Piano, Voice, or Guitar Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	0 - 1
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Breadth Life Sciences (BLS) Course

OR

- Breadth Physical Sciences (BPS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	16 - 17	0

Requirement Select

- HDFS1500 - Human Development Across the Lifespan (BSS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- MUSC2110 - Music Theory III

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- MUSC2130 - Aural Skills III

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- MUSC2320 - Music Therapy Treatment II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select

- MUSC3120 - Music History II: The Baroque and Classical Periods

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- 3/4XXX: Individual Instruction (major instrument) (register for 1 credit) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- MUSC 1/2/3XXX Piano, Voice, or Guitar Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	0 - 1
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Quantitative Intensive (QI) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- PSY 3010 recommended for QI requirment. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Fall	15 - 16	0

Requirement Select

- A music theory elective course is offered every fall and spring semester. The music theory elective course may be taken any semester after completing MUSC 2110 - Music Theory III with a grade C or higher. Music students should plan which option they wish to take and consult with the music department office regarding which semester that option will be offered. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- MUSC3170 - Special Topics in Music Theory

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- MUSC3190 - Music History III: Romanticism through the 21st Century (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- MUSC2350 - Conducting

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select

- MUSC3310 - Music Therapy With Diverse Clinical Populations

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- MUSC3331 - Music Therapy Practicum: Field Experience 1

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- Breadth American Institutions (BAI) Course

OR

- Breadth Humanities (BHU) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- MUSC 1/2/3XXX Piano, Voice, or Guitar Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	0 - 1
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Spring	13 - 14	0

Requirement Select

- All music therapy majors must take 9 credits of Behavioral Health Elective courses. One of these courses must be designated Depth Social Science (DSS) in order to fulfill the DSS requirement. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- MUSC3320 - Psychology of Music

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select

- MUSC3332 - Music Therapy Practicum: Field Experience 2

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select

- MUSC 1/2/3XXX Piano, Voice, or Guitar Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	0 - 1
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Music Therapy Behavior Elective (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Breadth American Institutions (BAI) Course

OR
- Breadth Humanities (BHU) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Depth Life and Physical Sciences (DSC) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Fall	13	0

Requirement Select
- All music therapy majors must take 9 credits of Behavioral Health Elective courses. One of these courses must be designated Depth Social Science (DSS) in order to fulfill the DSS requirement (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- BIOL2320 - Human Anatomy

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- MUSC3333 - Music Therapy Practicum: Field Experience 3

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- MUSC4310 - Music Therapy with Adult Populations

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Music Therapy Behavior Elective (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Spring	13	0

Requirement Select

- All music therapy majors must take 9 credits of Behavioral Health Elective courses. One of these courses must be designated Depth Social Science (DSS) in order to fulfill the DSS requirement. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- MUSC3334 - Music Therapy Practicum: Field Experience 4

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- MUSC4320 - Research in Music Therapy (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select

- MUSC4330 - Clinical and Professional Issues in Music Therapy

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- MUSC4340 - Internship in Music Therapy

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select

- Music Therapy Behavior Elective (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Program Learning Outcomes

Program Learning Outcomes

https://artsci.usu.edu/assessments/

Native American Studies - Minor

Program Overview

College
College of Arts & Sciences

Department
School of Social Sciences

Program Level
Undergraduate

About this Degree

The Native American Studies minor builds competency for students seeking cross-cultural experience in careers involving social justice, environmental policy, traditional knowledge, and cultural preservation among contemporary Native American communities. The minor is open to all majors.

Program Requirements

Total Credits Required In Program Coursework
15

Total Credits Required To Earn This Credential
15

Simple Requisites

Program Requirements

A grade of C or better is required for all courses taken to meet the requirements for the minor. A minimum GPA of 2.5 is required for courses taken to complete the minor. This minor requires 15 credit hours (3 credits Required Core, 3 credits Breadth, 9 credits Depth).

Section 1

Type
Completion Requirement

Required Courses (3 credits)

Complete ALL of the following Courses:

- NAS1010 - Introduction to Native American Studies (BHU) - 3cr.

Section 2

Type
Completion Requirement

Native American Studies Breadth (3 credits)

Complete at least 1 of the following courses:

- ANTH3110 - North American Indian Cultures (DSS) - 3cr.
- ANTH5110 - Southwest Indian Cultures, Past and Present (DSS) - 3cr.
- ARTH3270 - Native North American Art (CI) - 3cr.
- ARTH3320 - Pre-Columbian Art (CI) - 3cr.
- ENGL2340 - Navajo Literature and Philosophy - 3cr.
- ENGL3620 - Native American Studies - 3cr.
- HIST4710 - American Indian History - 3cr.

Section 3

Type
Completion Requirement

Native American Studies Depth (9 credits)

Complete at least 3 of the following courses:

- ANTH3300 - Archaeology in North America (DSS) - 3cr.
- ANTH5340 - Archaeology of the Desert West - 3cr.
- ENGL3610 - Multicultural American Literature - 3cr.
- ENGL4370 - Native American Literature - 3cr.
- ENGL4610 - Western American Literature (CI/DHA) - 3cr.
- HIST2730 - Writing about Indigenous Histories and Cultures (CL2) - 3cr.
- HIST3765 - Native Americans in Film (DHA) - 3cr.
- HIST3920 - History of Native American Business and Entrepreneurship (CI) - 3cr.
- HIST4650 - Women and Gender in the US West - 3cr.
- HIST4710 - American Indian History - 3cr.
- HIST4940 - Historical Internship - 1cr.
- PSY4240 - Multicultural Psychology (DSS) - 3cr.
- SCED3210 - Educational and Multicultural Foundations (DSS/CI) - 3cr.
- SOC2630 - Sociology of Race and Ethnicity (BSS) - 3cr.
- SOC3020 - Inclusive Leadership & Community Engagement (CI) - 3cr.
- SOC3340 - Activism, Protest, and Social Movements (DSS) - 3cr.
- SOC3610 - Rural People and Places (DSS) - 3cr.
- SOC3910 - Theories of Gender and Sexuality - 3cr.
- SOC4620 - Sociology of the Environment and Natural Resources (DSS) - 3cr.
- SW2400 - Social Work with Diverse Populations - 3cr.
- SW3350 - Child Welfare - 3cr.

Program Learning Outcomes

Program Learning Outcomes

https://chass.usu.edu/assessments/

Nutrition and Food Sciences - MS

Program Overview

College	Department	Program Level
College of Agriculture & Natural Resources	Nutrition, Dietetics & Food Sciences	Graduate

About this Degree

Candidates for graduate study in the Department of Nutrition, Dietetics, and Food Sciences need a background in chemistry, biochemistry, physics, mathematics, statistics, microbiology, and physiology. Prior coursework in food science or nutrition is desirable. Students may be accepted into the NDFS graduate program with deficiencies in these areas; however, their supervisory committee will require that competence equivalent to a BS degree in Nutrition, Dietetics, and Food Sciences be obtained as part of their program of study.

Graduate Program Coordinator: Tara Black, tara.black@usu.edu

Admission Requirements for this Program

Students must meet some departmental requirements, in addition to requirements of the School of Graduate Studies, as shown at: http://www.usu.edu/graduateschool/apply/

Departmental requirements include the following:

1. A student may enroll into a MS program with a BS degree pending meeting the other requirements of the department and graduate school.
2. Before acceptance into the Department of Nutrition, Dietetics, and Food Sciences, potential MS graduate students must be accepted by a faculty member who is willing to add them to his or her research team.
3. The department does not require students to take the Graduate Record Examination (GRE) but faculty may require it before accepting students. Scores should be at the 40th percentile minimum on the Verbal and Quantitative tests.

Program Requirements

Total Credits Required In Program Coursework	Total Credits Required To Earn This Credential
30	30

Simple Requisites

Program Requirements

School of Graduate Studies General Graduation Guidelines:

Degree Verification

A bachelor's degree from an accredit US college or university or similarly recognized international university is required for admission to and completion of a graduate program.

Overall Graduate GPA

At least 3.0 and no grades of C- or lower. Graduate students are required to maintain at least a 3.0 GPA for degree program courses. Grade of C- or lower will not be accepted for a graduate degree.

Course Number Acceptability

Program of Study for a MS may include 12 credits of 5000 level courses, all other courses must be 6000 level or higher.

Matriculation Start Semester

A master's degree must be completed within 6 years of entering the degree program.

Coursework Validity

Coursework over eight years old at the time of degree completion may not be used for a graduate degree unless it is revalidated.

Minimum Course Requirements for MS Students in Nutrition and Food Sciences

Total Credits Required

For the MS degree, 30 total credits are required.

Required Orientation Courses

https://www.usu.edu/equity/trainings/student-prevention

https://www.usu.edu/equity/trainings/employee-prevention

https://research.usu.edu/compliance/responsible-conduct-of-research/

https://research.usu.edu/ehs/lab-safety

CEUS 7901 and/or 7902

Nutrition and Food Sciences - MS Requirements

Type

Completion Requirement

Required Courses (13-20 credits)

Complete ALL of the following Courses:

- CHEM5700 - General Biochemistry I - 3cr.
  OR NDFS6410 - Nutrient Gene Interactions - 3cr.
- STAT5100 - Modern Regression Methods (CI/QI) - 3cr.
  OR STAT5120 - Statistical Methods for Rates and Proportions - 2cr.
  OR STAT5200 - Analysis of Designed Experiments - 3cr.
  OR PSY7610 - Regression Analysis - 3cr.
- NDFS6970 - Thesis Research - 1cr.
- NDFS7800 - Seminar - 1cr.

6 minimum, 12 maximum credits required in NDFS6970 THESIS RESEARCH

2 credits required in NDFS7800 SEMINAR; the first of the 2 credits should be taken in semester 1 (1 credit) and the second in semester 2 (1 credit)

Optional Courses (Approved by Student's Graduate Committee)

Complete ANY of the following Courses:

- NDFS6010 - Hunger Issues and Solutions - 3cr.
- NDFS6020 - Meat Science and Technology - 4cr.
- NDFS6030 - Dairy Technology and Processing - 3cr.
- NDFS6040 - Dairy Foods Processing Laboratory - 1cr.
- NDFS6100 - Sensory Evaluation of Food - 3cr.
- NDFS6110 - Food Microbiology - 3cr.
- NDFS6111 - Food Microbiology Laboratory - 1cr.
- NDFS6150 - Principles of Food Sanitation - 3cr.
- NDFS6160 - Principles of Food Toxicology - 3cr.
- NDFS6170 - Food Safety and Quality: Food Safety Management - 1cr.
- NDFS6171 - Food Safety and Quality: Current Good Manufacturing Practice - 1cr.
- NDFS6172 - Food Safety and Quality: Hazard Analysis and Critical Control Points - 1cr.
- NDFS6173 - Food Safety and Quality: Preventive Controls - 1cr.
- NDFS6174 - Food Safety and Quality: Standards for Produce Safety - 1cr.
- NDFS6175 - Food Safety and Quality: Acidified Foods - 1cr.

- NDFS6200 - Nutritional Epidemiology - 3cr.
- NDFS6210 - Advanced Public Health Nutrition - 3cr.
- NDFS6230 - Communicating Current Topics in Public Health - 3cr.
- NDFS6310 - Fundamentals of Nutrition Research - 3cr.
- NDFS6320 - Advanced Sports Nutrition - 3cr.
- NDFS6440 - Food Composition and Analysis - 3cr.
- NDFS6500 - Food Analysis - cr.
- NDFS6510 - Food Laws and Regulations - 3cr.
- NDFS6520 - Current Issues in the Regulation of Food and Dietary Supplements - 3cr.
- NDFS6530 - Food Packaging and Labeling - 3cr.
- NDFS6560 - Food Chemistry - 4cr.
- NDFS6580 - Application of Research Principles in Dietetics - 3cr.
- NDFS6600 - Current Topics in Obesity - 3cr.
- NDFS6610 - Food and Bioprocess Engineering - 3cr.
- NDFS6620 - Microbiology of Fermented Dairy Foods - 3cr.
- NDFS6640 - Food Proteins and Enzymes - 3cr.
- NDFS6660 - Cheese Science - 3cr.
- NDFS6700 - Dairy Chemistry - 2cr.
- NDFS6710 - Cereal Science and Technology - 3cr.
- NDFS6760 - Special Topics in Nutrition and Food Science - 1cr.
- NDFS6800 - Counseling and Motivational Interviewing for Health Professionals - 3cr.
- NDFS6900 - Special Problems - 1cr.
- NDFS6910 - Teaching Experiences in Nutrition and Food Sciences - 1cr.
- NDFS6990 - Continuing Graduate Advisement - 1cr.

Note: The student may register for courses not listed with approval of their major professor.

Program Learning Outcomes

Program Learning Outcomes

https://qanr.usu.edu/ndfs/assessment

Nutrition and Food Sciences - PhD

Program Overview

College	Department	Program Level
College of Agriculture & Natural Resources	Nutrition, Dietetics & Food Sciences	Graduate

About this Degree

Candidates for graduate study in the Department of Nutrition, Dietetics, and Food Sciences need a background in chemistry, biochemistry, physics, mathematics, statistics, microbiology, and physiology. Prior coursework in food science or nutrition is desirable. Students may be accepted into the NDFS graduate program with deficiencies in these areas; however, their supervisory committee will require that competence equivalent to a BS degree in Nutrition, Dietetics, and Food Sciences be obtained as part of their program of study.

Graduate Program Coordinator: Tara Black, tara.black@usu.edu

Admission Requirements for this Program

Departmental requirements include the following:

1. A student may enroll into a PhD70 program with a BS degree or into a PhD48 program with an MS or equivalent degree pending meeting the other requirements of the department and graduate school.
2. Before acceptance into the Department of Nutrition, Dietetics, and Food Sciences, potential PhD graduate students must be accepted by a faculty member who is willing to add them to his or her research team.
3. The department does not require students to take the Graduate Record Examination (GRE) but faculty may require it before accepting students. Scores should be at the 40th percentile minimum on the Verbal and Quantitative tests.

Program Requirements

Total Credits Required In Program Coursework	Total Credits Required To Earn This Credential
48-70	48-70

Simple Requisites

Program Requirements

School of Graduate Studies General Graduation Guidelines:

Degree Verification

A bachelor's degree from an accredit US college or university or similarly recognized international university is required for admission to and completion of a graduate program.

Overall Graduate GPA

At least 3.0 and no grades of C- or lower. Graduate students are required to maintain at least a 3.0 GPA for degree program courses. Grade of C- or lower will not be accepted for a graduate degree.

Course Number Acceptability

Program of Study for a PhD degree may include 12 credits of 5000 level courses, all other courses must be 6000 level or higher.

Matriculation Start Semester

A doctorate must be completed within 8 years of entering the degree program.

Coursework Validity

Coursework over eight years old at the time of degree completion may not be used for a graduate degree unless it is revalidated.

Minimum Course Requirements for MS/PhD Students in Nutrition and Food Sciences

Total Credits Required

For the PhD degree, 70 total credits are required from bachelor's degree (PhD70) and 48 total credits from master's degree (PhD48).

Required Orientation Courses:

https://www.usu.edu/equity/trainings/student-prevention

https://www.usu.edu/equity/trainings/employee-prevention

https://research.usu.edu/compliance/responsible-conduct-of-research/

https://research.usu.edu/ehs/lab-safety

CEUS 7901 and/or 7902

Nutrition and Food Science - PhD Requirements

Type

Completion Requirement

Required Courses

Complete ALL of the following Courses:

- CHEM5700 - General Biochemistry I - 3cr.
  OR NDFS6410 - Nutrient Gene Interactions - 3cr.
- STAT5100 - Modern Regression Methods (CI/QI) - 3cr.
  OR STAT5120 - Statistical Methods for Rates and Proportions - 2cr.
  OR STAT5200 - Analysis of Designed Experiments - 3cr.
  OR PSY7610 - Regression Analysis - 3cr.
- NDFS6910 - Teaching Experiences in Nutrition and Food Sciences - 1cr.
- NDFS7800 - Seminar - 1cr.
- NDFS7970 - Dissertation Research - 1cr.

2 credits required in NDFS6910 TEACHING EXPERIENCE

2 credits required in NDFS7800 SEMINAR; the first of the 2 credits should be taken in semester 1 (1 credit) and the second in semester 2 (1 credit)

PhD48: 12-17 required credits/PhD70: 18-27 required credits in NDFS7970 DISSERTATION RESEARCH

Optional Courses (Approved by Student's Graduate Committee)

Complete ANY of the following Courses:

- NDFS6010 - Hunger Issues and Solutions - 3cr.
- NDFS6020 - Meat Science and Technology - 4cr.
- NDFS6030 - Dairy Technology and Processing - 3cr.
- NDFS6040 - Dairy Foods Processing Laboratory - 1cr.
- NDFS6100 - Sensory Evaluation of Food - 3cr.
- NDFS6110 - Food Microbiology - 3cr.
- NDFS6111 - Food Microbiology Laboratory - 1cr.
- NDFS6150 - Principles of Food Sanitation - 3cr.
- NDFS6160 - Principles of Food Toxicology - 3cr.
- NDFS6170 - Food Safety and Quality: Food Safety Management - 1cr.
- NDFS6171 - Food Safety and Quality: Current Good Manufacturing Practice - 1cr.
- NDFS6172 - Food Safety and Quality: Hazard Analysis and Critical Control Points - 1cr.
- NDFS6173 - Food Safety and Quality: Preventive Controls - 1cr.
- NDFS6174 - Food Safety and Quality: Standards for Produce Safety - 1cr.
- NDFS6175 - Food Safety and Quality: Acidified Foods - 1cr.
- NDFS6180 - Food Safety Inspection and Auditing - 1cr.
- NDFS6200 - Nutritional Epidemiology - 3cr.
- NDFS6210 - Advanced Public Health Nutrition - 3cr.
- NDFS6230 - Communicating Current Topics in Public Health - 3cr.
- NDFS6310 - Fundamentals of Nutrition Research - 3cr.
- NDFS6320 - Advanced Sports Nutrition - 3cr.
- NDFS6440 - Food Composition and Analysis - 3cr.
- NDFS6500 - Food Analysis - cr.
- NDFS6510 - Food Laws and Regulations - 3cr.
- NDFS6520 - Current Issues in the Regulation of Food and Dietary Supplements - 3cr.
- NDFS6530 - Food Packaging and Labeling - 3cr.
- NDFS6560 - Food Chemistry - 4cr.
- NDFS6600 - Current Topics in Obesity - 3cr.
- NDFS6610 - Food and Bioprocess Engineering - 3cr.
- NDFS6620 - Microbiology of Fermented Dairy Foods - 3cr.
- NDFS6640 - Food Proteins and Enzymes - 3cr.
- NDFS6660 - Cheese Science - 3cr.
- NDFS6700 - Dairy Chemistry - 2cr.
- NDFS6710 - Cereal Science and Technology - 3cr.
- NDFS6760 - Special Topics in Nutrition and Food Science - 1cr.
- NDFS6800 - Counseling and Motivational Interviewing for Health Professionals - 3cr.
- NDFS6900 - Special Problems - 1cr.
- NDFS6910 - Teaching Experiences in Nutrition and Food Sciences - 1cr.
- NDFS7990 - Continuing Graduate Advisement - 1cr.

Note: The student may register for courses not listed with approval of their major professor.

Program Learning Outcomes

Program Learning Outcomes

https://qanr.usu.edu/ndfs/assessment

Master of Natural Resources - MNR

Program Overview

College
College of Agriculture & Natural Resources

Department
College of Agriculture & Natural Resources

Program Level
Graduate

About this Degree

Program Contacts:

MNR Director: Sunshine Brosi, sunshine.brosi@usu.edu

Program Coordinator: Leslie Gonzalez, leslie.gonzalez@usu.edu

Program Description:

The online Master of Natural Resources degree is designed to give natural resource professionals the skills to analyze complex natural resource issues and better communicate the results of their analysis. It will give them an interdisciplinary curriculum to broaden their knowledge and help them see the "big picture" view of managing both land and people. Students completing this degree acquire the skills to work as decision makers and advance their careers in natural resources management positions. The degree is designed to develop competencies in five core areas, several electives, and a capstone experience.

The MNR degree program consists of a minimum of 30 total semester credits. The core requirements from the program comprise of completing 3 credits from 4 of the 5 blocks (Human Dimensions, Ecological Foundations, Spatial Information Management, Natural Resources Policy, and Quantitative Methods) for a total of 12 credits. Students must take 3-6 credits of NR 6600 Capstone Requirements. Students may fill the remaining 12-15 elective credits with additional online coursework, certificates, and/or short courses. The MNR is tailored to the specific needs of each student. Each student works with the program coordinator and director to identify a program of study that best meets the students needs.

What makes this degree different from the traditional MS or MA is it does not require a research project or thesis, but rather emphasizes high quality course work and an integrative capstone experience. The MNR is offered through three different formats: online, on-campus and short-courses.

All required core courses are taught online and the program can be completed entirely online.

Admission Requirements for this Program

- A bachelor's degree, preferably in natural resources, biology, ecology or a closely related field
- A **minimum** of one year of work experience in a natural resources field
- 3.0 or higher grade point average on last 60 semester or 90 quarter credits
- Three letters of recommendation (one from an academic source, if possible)
- Statement of Purpose: Describe how your past experience and education have prepared you for the MNR program, and how the MNR program will help you meet your future professional goals (500 word limit).
- There is no GRE requirement.

Prior to applying to the program, applicants are encouraged to contact the program coordinator directly.

Admission requirements can also be found at the USU School of Graduate Studies (apply at https://gradschool.usu.edu/admissions/index). Students are expected to be admitted to the program as matriculated students before taking coursework leading to the degree.

Additional information about the Master of Natural Resources may be obtained by contacting the program coordinator or by visiting https://qanr.usu.edu/mnr/.

Program Requirements

Total Credits Required In Program Coursework
30

Total Credits Required To Earn This Credential
30

Simple Requisites

Program Requirements

School of Graduate Studies Requirements

- **Degree Verification:** A bachelor's degree from an accredited U.S. college or university or a similarly recognized international university is required for admission to and completion of a graduate program. An official transcript must be sent directly to the School of Graduate Studies.
- **Overall Graduate GPA at least 3.0 and no grades of C- or lower:** Graduate students are required to maintain at least a 3.0 GPA for degree-program courses. Grades of C- or lower will not be accepted for a graduate degree.
- **Course Number Acceptability:** The program of study for a master's degree cannot include more than 12 semester credits of courses below the 6000 level. Credits in the following areas are not acceptable in a degree program: foreign languages (unless included in an approved Program of Study), continuing graduate advisement, individual home study, military science, and courses numbered below 5000.
- **Matriculation Start Semester:** A master's degree must be completed within six years of entering the degree program. Additional time may be requested by the student's advisor and submitted to the Vice Provost of Graduate Studies for review.
- **Coursework Validity:** Coursework over eight years old at the time of degree completion may not be used for a graduate degree unless it is revalidated.
- **Master's forms:** Approval of the Program of Study is required by the School of Graduate Studies.

Master of Natural Resources Program

The MNR degree program consists of a minimum of 30 total semester credits. The degree is designed to develop competencies in five core areas, several electives, and a capstone experience. The MNR is tailored to the specific needs of each student. Each student works with the degree coordinator and director to identify a program of study that best meet student needs.

MNR Core Requirements

Type
Completion Requirement

Human Dimensions

Earn at least 3 credits from the following:

- ENVS6010 - Applying Human Dimensions Concepts to Natural Resource Management - 3cr.

Ecological Foundations

Earn at least 3 credits from the following:

- NR6570 - Ecological Foundations of Natural Resource Management - 3cr.

Spatial Information Management

Earn at least 3 credits from the following:

- NR6910 - Geographic Information Systems for Natural Resource Applications - 3cr.
- NR6950 - Geospatial Analysis for Natural Resource Management - 3cr.

Natural Resources Policy

Earn at least 3 credits from the following:

- ENVS6310 - Introduction to Environmental Laws and Policy - 3cr.

Quantitative Methods

Earn at least 3 credits from the following:

- NR6580 - Data Analysis and Programming for Natural Resource Managers - 3cr.

Capstone Requirement

Earn at least 3 credits from the following:

- NR6600 - Natural Resources Integrative Experience - 1cr.

Additional Elective Options

Type
Completion Requirement

Electives

Elective Credits
Please contact your Program Coordinator for details on the remaining 12-15 elective credits.

Program Learning Outcomes

Program Learning Outcomes
https://qcnr.usu.edu/college/assessment

Nail Technician - Technical Certificate

Program Overview

College
College of Agriculture & Natural Resources

Department
Technology, Design & Technical Ed

Program Level
Undergraduate

About this Degree
The Nail Technician program provides the skills needed to work in a beauty or nail salon performing services such as natural nail care, including manicures and pedicures, and nail enhancements. Instruction also includes sanitation, salon safety, nail and skin disorders, professional ethics and salon management, and licensing laws and rules. Upon completion of the program, students have the knowledge and skills needed to take the state written and practical examinations required for licensure.

Program Requirements

Total Credits Required In Program Coursework
18

Total Credits Required To Earn This Credential
18

Simple Requisites

Program Requirements

Courses for the certificate may *not* be taken on a pass/fail basis.

Nail Technician Course Requirements

Type
Completion Requirement

Required

Complete ALL of the following Courses:

- COST2800 - Nail Technician - 9cr.
- TEBP1000 - Basic Financial Principles - 3cr.
- TEBP1500 - Business English - 1cr.
- TEBP1550 - Business Communications - 3cr.
- TEBP1650 - Management Principles - 2cr.

Program Learning Outcomes

Program Learning Outcomes

- Demonstrate client protection safety and infection control procedures, including first aid.
- Recognize various diseases and disorders of skin and nails.
- Demonstrate various nail enhancement techniques.
- Evaluate various professional behaviors within the beauty industry.
- Demonstrate safe use of industry equipment.
- Demonstrate competency to pass nail technology state examinations.

Nonformal and Community-Based Education - Minor

Program Overview

College
College of Agriculture & Natural Resources

Department
Applied Sciences, Technology and Education

Program Level
Undergraduate

About this Degree

This minor prepares students to work within nonformal education and/or community-based career work, which frequently requires education techniques and skills for a wide variety of participants. Students develop active-learning instructional skills, the ability to manage volunteers, design teaching events, evaluate curriculum and program impacts, and create connection through teambuilding. The required courses for the minor support organizational and community needs for establishing a career in nonformal education.

Admission Requirements for this Program

New first-year students, transfer students, and students from other USU majors who have at least a 2.5 overall GPA qualify to enter the NCE minor.

Program Requirements

Total Credits Required To Earn This Credential

14

Simple Requisites

Program Requirements

The NCE minor requires a minimum of 14 credit hours. Students must complete all required courses, plus one elective course. The maximum number of credits that may be obtained for completion is 18. Students must obtain a grade of C or higher for all associated courses to be awarded the minor. Coursework for the minor may not be taken on a pass/fail basis unless the course is only taught pass/fail.

Section 1

Type
Completion Requirement

Required Courses (12 credits)

Complete ALL of the following Courses:

- ASTE2100 - Personal and Team Leadership - 3cr.
- ASTE4155 - Nonformal Teaching Methods - 3cr.
- ASTE4215 - Community Programming and Evaluation - 3cr.
- ASTE5220 - Volunteer Programs and Partnerships - 3cr.
  OR ASTE6220 - Volunteer Programs and Partnerships - 3cr.

Section 2

Type
Completion Requirement

Supportive Electives (3-6 credits)

Fulfill ANY of the following requirements:

People & Education

Complete ANY of the following Courses:

- ASTE2250 - Occupational Experience in Agriculture - 1cr.
- ASTE3625 - Youth Development Education - 2cr.
- ENVS4610 - Foundations of Environmental Education - 3cr. (Inactive)
- ENVS4700 - Communicating Sustainability (CI) - 3cr.
- ENVS5000 - Environmental Nonprofit and Volunteer Management - 3cr.
- HDFS1500 - Human Development Across the Lifespan (BSS) - 3cr.
- HDFS2450 - Consumer and Family Economic Issues (BSS) - 3cr.
- HEP5250 - Global Health & Service Learning - 3cr.
- ITLS5215 - Video and Audio Design and Production I - 3cr.
- ITLS4220 - Video and Audio Design and Production II - 3cr. (Inactive)
- ITLS4230 - Graphic Design and Production I - 3cr.
- ITLS5240 - Graphic Design and Production II - 3cr.
- ITLS5270 - Digital Making and Learning - 3cr.
- SCED3210 - Educational and Multicultural Foundations (DSS/CI) - 3cr.
- NDFS3110 - Food, Technology, Sustainability and Health (DSC) - 3cr.
- SOC3010 - Social Inequality (DSS) - 3cr.
- USU1340 - Social Systems and Issues (BSS) - 3cr.

OR

Organizations & Leadership

Complete ANY of the following Courses:

- ASTE3050 - Technical and Professional Communication Principles (CI) - 3cr.
- CMST1020 - Public Speaking (BHU) - 3cr.
- CMST3600 - Communication and Conflict - 3cr.
- TCR2100 - Introduction to Technical Communication - 3cr.
- MSLE3110 - Managing Organizations and People (DSS) - 3cr.
- MSLE3710 - Leading Teams - 2cr.
- MSLE3800 - Leadership - 2cr.
- MSLE3830 - Women's Leadership Development - 2cr. (Inactive)
- RAM3400 - Outdoor Education and Facilitation - 3cr.
- SOC4640 - Managing Community Conflict (CI) - 3cr.

OR

Advocacy

Complete ANY of the following Courses:

- CMST3280 - Organizations and Social Change - 3cr.
- HDFS3700 - Mental Health Advocacy and Awareness - 3cr.
- HDFS4220 - Family Crises and Interventions - 3cr.
- NDFS5010 - Hunger Issues and Solutions - 3cr.
- SCI1050 - Tutor Training Level I - 1cr.

Program Learning Outcomes

Program Learning Outcomes

https://caas.usu.edu/aste/assessment/

Networking and Cybersecurity - Technical Certificate

Program Overview

College
College of Agriculture & Natural Resources

Department
Technology, Design & Technical Ed

Program Level
Undergraduate

About this Degree

This program provides education and training in preparation for careers in Information Technology and Cybersecurity. Throughout the program, students apply classroom theory to computer hardware and software, mobile devices, operating systems, networking, security, cloud technology, and other technologies relevant to the industry. Students learn to develop, defend, and protect networks and information systems against cyber-attacks while implementing and managing hardware, operating systems, local and wide-area networks, computer forensics, vulnerability assessment, security compliance, and information assurance. Through a combination of simulations, hands-on labs and/or virtual labs, students apply techniques for technology deployment, support, maintenance, and troubleshooting. This training prepares students to gain valuable industry recognized certifications including CompTIA A+, Network+, and Security+. Additional certification opportunities may include Cisco Certified Network Associate (CCNA), Microsoft, Amazon Web Services (AWS), Linux, and more.

Program Requirements

Total Credits Required In Program Coursework
30

Total Credits Required To Earn This Credential
30

Simple Requisites

Program Requirements

Foundational Courses (21 Credits)

Type
Completion Requirement

Complete all courses

Complete ALL of the following Courses:

- TEIT1050 - Career and Workplace Relations - 1cr.
- TEIT1100 - Introduction to Networking - 1cr.
- TEIT1170 - Computer Networks I - 2cr.
- TEIT1200 - A+ Core 1 - 3cr.
- TEIT1210 - A+ Core 2 - 3cr.
- TEIT1300 - Linux Foundations - 2cr.
- TEIT1400 - Introduction to Cloud - 2cr.
- TEIT2170 - Computer Networks II - 3cr.
- TEIT2200 - Security + - 4cr.

Supplemental Courses (9 credits)

Type
Completion Requirement

Take 9 credits from the following courses:

Earn at least 9 credits from the following:

- TEIT1041 - Introduction to Programming - 3cr.
- TEIT1091 - Introduction to Mobile Application Development - 3cr.
- TEIT1310 - Website Design - 3cr.
- TEIT1340 - Digital Video Production - 3cr.
- TEIT2300 - Linux + - 3cr.
- TEIT2441 - Photoshop - 3cr.
- TEIT2500 - Web Business - 3cr.
- TEBP1200 - Professionalism - 3cr.
- TEBP1650 - Management Principles - 2cr.

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Undergraduate Academic or Technical Certificates)

Program Learning Outcomes

Program Learning Outcomes

- Develop and demonstrate skills required for positions in Information Technology & Cybersecurity.
- Demonstrate knowledge, skills, and abilities aligning with standards for industry certifications.
- Install, configure, maintain, and troubleshoot common hardware and software.
- Install, configure, maintain, and troubleshoot operating systems.
- Design, implement, and manage scalable networks.
- Identify advanced security threats and implement best practices to mitigate risks.
- Demonstrate effective verbal and written communication using industry specific terminology.

Neuroscience - PhD

Program Overview

College
College of Education & Human Services

Department
Psychology, Biology

Program Level
Graduate

About this Degree

The primary goal of the doctoral program in neuroscience is to provide students with a strong educational and research foundation in cellular, cognitive, and behavioral neuroscience. Students will apply critical concepts in neuroscience to understanding normal and disordered processes of sensation, movement, cognition, language, and communication across the lifespan. This goal will be accomplished through a core set of neuroscience courses, advanced electives, and laboratory experiences. For more specific information, see the department's website at neuroscience.usu.edu.

Department of Biology Contacts

Co-Directors: Dr. Erin Bobeck and Noelle Beckman
E-Mails: Erin.Bobeck@usu.edu and Noelle.Beckman@usu.edu

Graduate Programs Coordinator: Anthony Sterenchak (BIOL) Krista Terrell (EDUC)
E-Mails: Anthony.Sterenchak@usu.edu and krista.terrell@usu.edu
Neuroscience: https://www.usu.edu/neuroscience/

Admission Requirements for this Program

- Transcripts from all previous universities attended.
- Three letters of recommendation
- A statement of professional goals and intent
- A curriculum vitae/resume

Program Requirements

Total Credits Required In Program Coursework
44-64

Total Credits Required To Earn This Credential
44-64

Simple Requisites

Program Requirements

School of Graduate Studies Requirements

- A bachelor's degree from an accredited U.S. college or university or a similarly recognized international university is required for admission to and completion of a graduate program.
- Graduate students are required to maintain at least a 3.0 GPA for degree-program courses. Grades of C- or lower will not be accepted for a graduate degree.
- The Program of Study for a doctoral degree, if the student has a master's degree, must include at least 15 semester credits at the level of 6000 or above. If the student does not have a master's degree, the Program of Study must include at least 30 credits at the level of 6000 or above.
- A doctorate must be completed within eight years of entering the degree program. Additional time may be requested by the student's committee and submitted to the Vice Provost of Graduate Studies for review.
- Coursework over eight years old at the time of degree completion may not be used for a graduate degree unless it is revalidated and approved by the Vice Provost of the School of Graduate Studies.
- **Course Level Restrictions:**
  - Graduate-level coursework (6000 and above)
  - No more than 12 credits of 5000-5990 level courses

  Doctoral forms:
  - Supervisory Committee
  - Program of Study
  - Annual Professional Development Plan (for Biology students)
  - Individual Development Plan (for Biology students)
  - Completion of Comprehensive Exams (Written and Oral)
  - Application for Candidacy
  - Appointment for Examination
  - Record of Examination
  - Dissertation Format and Style
  - Authorship and Copyright
  - Dissertation Title Page
  - SGS and library review and approval of Dissertation
- **Defense**
  - Completion of Public presentation of research
  - Completion of Private Defense with Supervisory Committee
- **All Neuroscience Ph.D. candidates must meet the following general core requirements and professional milestones:**
- External Professional Presentation
  - All students must serve as the presenting author of a presentation (poster session or oral presentation) at an appropriate external professional conference;
- Peer-Reviewed Paper
  - Each student will make significant contributions to a data-based paper that is submitted for publication in a peer-reviewed journal. The preference is for students to graduate with at least one first-author publication. However, given the time constraints of some types of research, there may not be time to design a study, collect data, analyze it, submit a paper, revise it, and get a formal editorial decision during a doctoral program. In such cases, students would not be expected to have a first-author publication before graduation. Most students in the program serve as an author on multiple such articles and generally serve as lead author on at least one publication.
- Grant Writing
  - Students are expected to complete a grant-writing experience in which they write and submit a student research grant to an external agency or assist their mentor or another faculty member with preparing an external research grant. The preference is for students to write and submit an NSF or NIH doctoral

dissertation grant. However, the faculty realizes that not all disciplines conduct the type of research that would be funded by these agencies. In those cases, students should assist faculty in writing an external grant and/or should write a grant to an external agency such as a foundation.

- Completion of a second-year project
    - Students entering with a baccalaureate degree must complete a Second Year Project during the first 5 semesters of the program (fall semester of the 3rd year).
- Completion of a comprehensive exam

PhD Degree Course Requirements

Type
Completion Requirement

Dissertation Credits (12 credits)

Students can register for any of the following dissertation credits:

Earn at least 12 credits from the following:

- BIOL7970 - Dissertation Research - 1cr.
- HDFS7970 - Dissertation Research - 1cr.
- KIN7970 - Dissertation - 1cr.
- PSY7970 - Dissertation - 1cr.

Research Courses

Complete at least 3 of the following courses:

- BIOL5625 - Neurophysiology Laboratory - 2cr.
  OR EDUC6570 - Introduction to Educational and Psychological Research - 3cr.
  OR PSY6560 - Introduction to Educational and Psychological Research - 3cr.
- PSY6600 - Statistical Foundations - 3cr.
  OR STAT5200 - Analysis of Designed Experiments - 3cr.
- PSY7610 - Regression Analysis - 3cr.
  OR EDUC7700 - Grant Writing - 3cr.

Methods in Neuroscience (3 credits)

Complete ALL of the following Courses:

- BIOL7140 - Methods in Neuroscience - 3cr.
  OR PSY7140 - Methods in Neuroscience - 3cr.

Seminar (2 credits)

Students must take a total of 2 credits of PSY7090 EAPS SEMINAR. 1 per semester for 2 semesters.

Complete ALL of the following Courses:

- PSY7090 - Experimental and Applied Psychological Science Program Seminar - 1cr.

Mechanisms of Neuropsychiatric Disease (3 credits)

Complete ALL of the following Courses:

- BIOL7830 - Mechanisms of Neuropsychiatric Disease - 3cr.
  OR PSY7830 - Mechanisms of Neuropsychiatric Disease - 3cr.

Cognitive Neuroscience (3 credits)

Complete ALL of the following Courses:

- BIOL7110 - Cognitive Neuroscience - 3cr.
  OR PSY7110 - Cognitive Neuroscience - 3cr.

Behavioral Neuroscience (3 credits)

Complete ALL of the following Courses:

- BIOL6120 - Behavioral Neuroscience - 3cr.
  OR PSY6120 - Behavioral Neuroscience - 3cr.

Cellular and Molecular Neuroscience

Complete ALL of the following Courses:

- BIOL6020 - Cellular and Molecular Neuroscience - 3cr.
  OR PSY6020 - Cellular and Molecular Neuroscience - 3cr.

Electives

Earn at least 37 credits
• Completion of 37-38 elective credits
• List of potential elective courses (https://www.usu.edu/neuroscience/graduate-students/program-curriculum)

Program Learning Outcomes

Program Learning Outcomes
https://www.usu.edu/oda/assessment/

Nonprofit Organizations and Social Entrepreneurship - Certificate

Program Overview

College
College of Arts & Sciences

Department
Communication & Media

Program Level
Undergraduate

About this Degree

This certificate is an opportunity for students interested in nonprofit or philanthropic work to gain a fundamental understanding of this sector and develop the skills needed to successfully work and lead in nonprofit careers and social programs within businesses. The program is designed with an interdisciplinary approach to serve students from a variety of majors and colleges throughout the university

Program Requirements

Total Credits Required In Program Coursework
17-21

Total Credits Required To Earn This Credential
17-21

Simple Requisites

Program Requirements

Courses may not be taken on a pass/fail basis except for those courses which are only taught pass/fail.

Nonprofit Organizations and Social Entrepreneurship - Certificate

Type
Completion Requirement

Required Courses (8-12 credits)

Fulfill ALL of the following requirements:

Conceptual Foundational Courses

Complete at least 1 of the following courses:

- CMST3280 - Organizations and Social Change - 3cr.
- MSLE2500 - Business for Good: Making an Impact through Social Entrepreneurship - 2cr.
- SW5540 - Nonprofit Management for Social Workers - 3cr.

AND

Practice-Based Courses

Complete at least 2 of the following courses:

- ASTE5220 - Volunteer Programs and Partnerships - 3cr.
- CMST3510 - Development and Philanthropy - 3cr.
- CMST3730 - Culture and Global Intervention (DHA) - 3cr.
- ENVS5000 - Environmental Nonprofit and Volunteer Management - 3cr.
- JCOM2400 - Introduction to Social Media - 3cr.
- MSLE3510 - New Venture Creation - 3cr.
- TCR2100 - Introduction to Technical Communication - 3cr.
- TCR3230 - Community Grant Writing - 3cr.

AND

Internship

Complete the following;

An internship is required to complete this certificate. See advisor for options.

Elective Courses (9 credits)

Select 9 credits from the elective course options:

Fulfill ANY of the following requirements:

Business/Entrepreneurship

Complete ANY of the following Courses:

- MSLE3530 - New Venture Marketing - 3cr.
- MSLE3540 - New Venture Finance - 3cr.
- MSLE3580 - New Venture Execution - 3cr.
- MSLE3820 - International Business (DSS) - 3cr.
- MSLE3855 - Sustainability Marketing - 2cr.

OR

Global Communication

Complete ANY of the following Courses:

- CMST1330 - Introduction to Global Communication (BSS) - 3cr.
- CMST3250 - Organizational Communication (CI) - 3cr.
- CMST3270 - Culture and Public Discourse (DHA) - 3cr.
- CMST3330 - Intercultural Communication (DSS) - 3cr.
- CMST3400 - Persuasion - 3cr.
- CMST4330 - Advanced Perspectives in Global Communication (CI) - 3cr.
- CMST5500 - Communication and Leadership - 3cr.

OR

Social Media and Technical Communication

Complete ANY of the following Courses:

- TCR2110 - Digital Writing Technologies - 3cr.
- TCR4210 - Visual Communication Design - 3cr.
- TCR4220 - Technology and Activism - 3cr.
- TCR3110 - Accessibility and Disability Rhetorics - 3cr.
- TCR4230 - Project Management - 3cr.
- JCOM2030 - Multimedia Bootcamp - 4cr.
- JCOM2220 - Introduction to Video Media - 3cr.
- JCOM2400 - Introduction to Social Media - 3cr.
- JCOM3310 - Writing for Public Relations (CI) - 3cr.
- JCOM4530 - Special Topics in Communication - 3cr.

OR

Social Work

Complete ANY of the following Courses:

- SW1010 - Introduction to Social Welfare (BSS) - 3cr.
- SW2100 - Human Behavior in the Social Environment - 3cr.
- SW2400 - Social Work with Diverse Populations - 3cr.
- SW5902 - Social Work Practice Methods - 3cr.
- SW5903 - Social Welfare Policy - 3cr.

OR

Sociology

Complete ANY of the following Courses:

- SOC3010 - Social Inequality (DSS) - 3cr.
- SOC3320 - Work, Inequality and the American Dream (DSS) - 3cr.
- SOC3330 - Medical Sociology (DSS) - 3cr.
- SOC3340 - Activism, Protest, and Social Movements (DSS) - 3cr.
- SOC3520 - Sociology of Mental Illness - 3cr.

OR

Sustainability

Complete ANY of the following Courses:

- ENVS2340 - Environment, Natural Resources, and Society (BSS) - 3cr.
- ENVS3010 - Natural Resource and Environmental Policy - 3cr.
- ENVS4610 - Foundations of Environmental Education - 3cr. (Inactive)
- ENVS4700 - Communicating Sustainability (CI) - 3cr.
- ENVS5000 - Environmental Nonprofit and Volunteer Management - 3cr.
- ENVS5550 - Sustainability: Concepts and Measurement - 3cr.
- LAEP2039 - Foundations of Sustainable Systems - 3cr.

OR

Nonformal and Community-Based Education

Complete ANY of the following Courses:

- ASTE3625 - Youth Development Education - 2cr.
- ASTE4155 - Nonformal Teaching Methods - 3cr.
- ASTE4215 - Community Programming and Evaluation - 3cr.
- ASTE5220 - Volunteer Programs and Partnerships - 3cr.

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Undergraduate Academic or Technical Certificates)

Program Learning Outcomes

Program Learning Outcomes

https://chass.usu.edu/assessments/

Natural Resources and Environmental Communication and Engagement (NRECE) - Post-Bachelor's Certificate

Program Overview

College
College of Agriculture & Natural Resources

Department
Environment & Society

Program Level
Graduate

About this Degree

Director: Courtney Flint, Department of Environment and Society
Location: Natural Resources 316
Phone: (435) 797-8653
E-mail: courtney.flint@usu.edu

Graduate Program Description

The Natural Resources and Environmental Communication and Engagement Post-Bachelor's Certificate (NRECE) Program is administered by the Department of Environment and Society, S.J. and Jessie E. Quinney College of Agriculture and Natural Resources. The Department of Environment and Society is an interdisciplinary department focused on research, outreach/extension, and teaching on human-environment interactions; it espouses community engagement in research, outreach, and learning and is USU-designated as a community-engaged department. The NRECE Post-Bachelor's Certificate is open to existing or incoming graduate students in masters or doctorate programs or to students who have a bachelors degree and want to do the certificate program on its own.

The NRECE Program provides an opportunity for, and certification of, knowledge- and skill-building in environmental communication and community engagement. Program outcomes focus on a broad range of communication strategies within the knowledge and action domains of natural resource management and the socio-ecological and environmental sciences. The program emphasizes a modern, two-way approach to collaborating and partnering with communities and stakeholders, with a more critical perspective on improving how environmental science communication occurs. Curriculum draws on a suite of courses with communication and engagement content both within and beyond the Department of Environment and Society.

The certificate curriculum consists of three components, for a total of 10 credits: (1) minimum of 6 credits of coursework with communications and/or engagement content from an approved list of course options; (2) one departmental seminar course (1 credit) that introduces a range of environmental science topics; and (3) a three-credit capstone requirement met either through a communication, engagement, or outreach component of the student's master's thesis or doctoral dissertation or through an independent project, whichever works best for the student.

Certificate

Students who complete the program receive a certificate in Natural Resources and Environmental Communication and Engagement. Notification of this certificate appears on the student's transcript.

Admission Requirements for this Program

For admittance into the NRECE Post-Bachelor's Certificate Program, a graduate student must: (1) be accepted by the School of Graduate Studies at Utah State University for graduate study (current or provisional); and (2) meet with the NRECE Program Director to discuss personal interest in completing the NRECE Certificate with respect to professional goals.

Graduate students seeking to complete the NRECE Certificate will work with their major faculty advisor, as well as with the NRECE Program Director, for support in understanding and meeting the requirements of the certificate.

Program Requirements

Total Credits Required In Program Coursework
10

Total Credits Required To Earn This Credential
10

Simple Requisites

Program Requirements

Graduate students are required to maintain at least a 3.0 GPA for degree-program courses. Grades of C- or lower will not be accepted for a graduate degree.

Course Requirements

Type
Completion Requirement

Communications and/or Engagement Courses (6 credits)

Take a minimum of 6 credits, from the following course list. Additional courses options may be approved by the NRECE Program Director.

Earn at least 6 credits from the following:

- ADVS6650 - Science Communication - 3cr.
- ASTE6200 - Principles and Practices of Extension Education - 3cr.
- ASTE6220 - Volunteer Programs and Partnerships - 3cr.
- ASTE6370 - Grant Writing and Management - 3cr.
  OR ASTE7370 - Grant Writing and Management - 3cr.
- ASTE6920 - Communication Tools for Extension - 3cr.
- ENVS6889 - Environmental Risks and Decision Making - 1cr.
- ENVS6300 - Conservation Psychology - 3cr.
- ENVS6410 - Translational Ecology - 3cr.
- ENVS6600 - Natural Resource Interpretation - 3cr.
- SOC7100 - Advanced Survey Techniques - 3cr.
- WATS6400 - Communicating Science: A Short Course for Graduate Students - 1cr.
- WILD6100 - Scientific Communication for Natural Resource Professionals - 3cr.

Departmental Seminar or Colloquium Course (1 credit)

Take at least one credit of a departmental seminar or colloquium series that introduces a range of environmental science topics.

Earn at least 1 credits from the following:

- ENVS6800 - Environment and Society Departmental Colloquium - 1cr.
- ENVS6870 - Ecology Seminar - 1cr.
- ENVS7800 - Environment and Society Departmental Colloquium - 1cr.
- WATS6800 - Watershed Sciences Departmental Seminar - 1cr.
- WATS6870 - Ecology Seminar - 1cr.
- WATS7800 - Watershed Sciences Departmental Seminar - 1cr.
- WILD6800 - Wildland Resources Departmental Seminar - 1cr.
- WILD6870 - Ecology Seminar - 1cr.
- WILD7800 - Wildland Resources Departmental Seminar - 1cr.

Or as approved by the NRECE Program Director

Capstone Project (3 credits)

Register for 3 credits of appropriate level of Directed Study; thesis credits can substitute for Directed Study for MS and MA students.

Earn at least 3 credits from the following:

- ENVS6910 - Directed Study - 1cr.
- ENVS7910 - Directed Study - 1cr.

Program Learning Outcomes

Program Learning Outcomes
https://qanr.usu.edu/mnr/nrece/

Natural Resource Economics - BS

Program Overview

College
College of Agriculture & Natural Resources

Department
Applied Economics

Program Level
Undergraduate

Program Requirements

Total Credits Required In Program Coursework
60

Total Credits Required To Earn This Credential
120

Simple Requisites

Program Requirements

Natural Resource Economics Core

Type
Completion Requirement

Core Requirements (48 credits)

Complete ALL of the following Courses:

- APEC1600 - Natural Resources and American Economic Institutions (BAI) - 3cr.
- LAEP1040 - Introduction to Environmental Planning and Sustainable Development (BLS) - 3cr.
- DATA1100 - Excel for Business Analysis - 1cr.
- MATH1050 - College Algebra (QL) - 4cr.
- ACCT2010 - Financial Accounting Principles - 3cr.
- APEC2900 - Agricultural and Natural Resource Law - 3cr.
- APEC3012 - Introduction to Natural Resource Economics (DSS) - 3cr.
- APEC3310 - Analytical Methods in Applied Economics (QI) - 3cr.
- APEC4010 - Intermediate Microeconomics - 3cr.
- APEC4310 - Agribusiness Finance - 3cr.
- APEC5015 - Applied Economics for Decision Making (QI) - 3cr.
- APEC5330 - Applied Econometrics (QI) - 3cr.
- APEC5560 - Natural Resource and Environmental Economics - 3cr.
- APEC5700 - Regional and Community Economic Development - 3cr.
- APEC5950 - Applied Economics Policy Analysis - 3cr.
- LAEP3300 - GIS for Environmental Planning - 4cr.
  OR GEOG2800 - Introduction to Geographic Information Sciences - 4cr.

Additional Core Requirements (12 credits)

Choose 4 of the following courses:

Complete ANY of the following Courses:

- APEC5500 - Climate Change Economics and Policy - 3cr.
- APEC5940 - U.S. Agricultural Policy Analysis - 3cr.
- ENVS4130 - Natural Resource Recreation Policy and Planning - 3cr.
- ENVS3010 - Natural Resource and Environmental Policy - 3cr.
- ENVS3300 - Fundamentals of Natural Resource Recreation Management - 3cr.
- ENVS4030 - Building Community Environmental Resilience - 3cr.
- ENVS5350 - Ecological Economics - 3cr.
- ENVS5550 - Sustainability: Concepts and Measurement - 3cr.
- ENVS4000 - Human Dimensions of Natural Resource Management (DSS) - 3cr.
- ENVS4500 - Advanced Natural Resource Recreation Management (CI) - 3cr.
- LAEP4600 - City and Regional Planning (CI) - 3cr.
- WILD4000 - Principles of Rangeland Management - 3cr.

Elective Courses

Total elective credit is determined by General Education courses

Complete ANY of the following Courses:

- USU1010 - University Connections - 2cr.
- APEC4250 - Applied Economics Internship - 1cr.

Note: APEC 4250 may be taken for 3-5 credits

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Bachelor's Degree)

Suggested Degree Maps

Degree Map Name
Suggested Degree Map: Natural Resource Economics - BS
Total Degree Map Credits
121
Degree Map Effective Catalog Year
2026 -

Degree Map Narrative

Following is a sample plan. Please note that student-specific plans may differ.

- Meet with an academic advisor to create a specific plan that best fits your academic needs.
- The student is ultimately responsible for knowing and completing all degree requirements.
- Make sure you meet the registration requirements for each class by clicking the course link and checking any prerequisites or corequisites.
- Consultation with an advisor may result in an altered plan customized for an individual student.
- Check your Degree Works for requirements and completion.

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	15	0

Requirement Select
- ENGL1010 - Writing as Inquiry (CL1)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- MATH1050 - College Algebra (QL)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- APEC1600 - Natural Resources and American Economic Institutions (BAI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- USU1010 - University Connections

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select
- Breadth Creative Arts (BCA) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	15	0

Requirement Select
- APEC2010 - Introduction to Microeconomics (BSS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- DATA1100 - Excel for Business Analysis

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- ENGL2010 - Research and Argument Across Perspectives (CL2)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- MATH1100 - Calculus Techniques (QL)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- LAEP1040 - Introduction to Environmental Planning and Sustainable Development (BLS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Elective course (2 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	16	0

Requirement Select

- ACCT2010 - Financial Accounting Principles

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- APEC2500 - Commodity Futures and Options Trading and Analysis

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- LAEP3300 - GIS for Environmental Planning
  OR
- GEOG2800 - Introduction to Geographic Information Sciences
  OR
- WILD2800 - Introduction to Geographic Information Sciences

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- APEC3310 - Analytical Methods in Applied Economics (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Breadth Humanities (BHU) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	15	0

Requirement Select

- APEC2900 - Agricultural and Natural Resource Law
  OR
- BUSN2050 - Business Law

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- ASTE3050 - Technical and Professional Communication Principles (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- APEC3012 - Introduction to Natural Resource Economics (DSS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Breadth Humanities (BHU) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Breadth Physical Sciences (BPS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Fall	15	0

Requirement Select

- APEC4010 - Intermediate Microeconomics

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- APEC5015 - Applied Economics for Decision Making (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Elective courses (9 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	9
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Spring	15	0

Requirement Select

- APEC5940 - U.S. Agricultural Policy Analysis

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- APEC5560 - Natural Resource and Environmental Economics

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Elective course (6 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Elective Course (DHA/CI) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Fall	15	0

Requirement Select

- APEC5330 - Applied Econometrics (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- APEC5700 - Regional and Community Economic Development

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Elective courses (9 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	9
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Spring	15	12

Requirement Select

- APEC5950 - Applied Economics Policy Analysis

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Elective courses (12 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	12
Progress Credits	12
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Program Learning Outcomes

Program Learning Outcomes

Program Goals:

1. Train Students with Expertise in Natural Resource Economics: This involves understanding economic principles and applying them to real-world scenarios to balance economic development with environmental stewardship.

2. Foster Economic Analytical Skills: Teach students to use economic tools and methodologies to analyze and evaluate the allocation and utilization of natural resources. This includes proficiency in benefit-cost analysis, data analysis, and economic modeling to inform decision-making.

3. Enhance Understanding of Policy Impacts: Prepare students to assess the effects of governmental policies and regulations on natural resource use. Graduates will be able to predict and evaluate the implications of policy changes, helping to shape effective and efficient resource policy strategies.

4. Prepare for Leadership Roles: Equip students with the skills needed for leadership positions in various sectors, including government, private industry, and non-profits. Graduates will be prepared to take on roles that require strategic planning and allocation of natural resources.

6. Strengthen Community and Industry Connections: Build strong connections with local communities and industries. The program aims to engage students in outreach and practical projects that benefit Utah's land and water resources, fostering a sense of responsibility and service.

7. Support Career Readiness: Ensure that graduates are career-ready by providing practical experience through internships, co-op programs, and hands-on projects. This real-world experience is critical for successful entry into the workforce and long-term career development.

Natural Resource Economics - MS

Program Overview

College	Department	Program Level
College of Agriculture & Natural Resources	Applied Economics	Graduate

About this Degree

The Master's of Science in Natural Resource Economics at Utah State University prepares students to become experts in managing Utah's land and water resources with a focus on economic efficiency and wise stewardship of Utah's natural resources. This program provides students with advanced economic tools and analytical skills to evaluate the allocation, utilization, and stewardship of natural resources, ensuring they can make informed decisions that address both immediate and long-term societal needs.

Program Requirements

Total Credits Required In Program Coursework	Total Credits Required To Earn This Credential
30	30

Simple Requisites

Program Requirements

Degree Verification

A bachelor's degree from an accredited U.S. college or university or a similarly recognized international university is required for admission to and completion of a graduate program.

Overall Graduate GPA at least 3.0 and no grades of C- or lower; Graduate students are required to maintain at least a 3.0 GPA for degree-program courses. Grades of C- or lower will not be accepted for a graduate degree.

Course Number Acceptability

The Program of Study for a master's degree must include at least 15 semester credits at the level of 6000 or above.

Credits in the following areas are not acceptable in a degree program: foreign languages (unless included in an approved Program of Study), continuing graduate advisement, individual home study, military science, and courses numbered below 3000.

A maximum of 12 credits of 5000-level coursework may be applied to programs of study.

Matriculation Start Semester

A master's degree must be completed within six years of entering the degree program. Additional time may be requested by the student's committee and submitted to the Vice Provost of Graduate Studies for review.

Coursework Validity

Coursework over eight years old at the time of degree completion may not be used for a graduate degree unless it is revalidated.

USU Residency Requirement

At least 24-semester credits for a master's degree must be from a committee-approved and a School of Graduate Studies-approved Program of Study from Utah State University

Thesis Research Credits 6970

Master's Plan A students: Students are required to complete a minimum of 6 credits of thesis research (APEC6970 THESIS RESEARCH) for a Program of Study.

Master's Plan B students: Students are required to complete a minimum of 3 credits of thesis research (APEC6970 THESIS RESEARCH) and an additional class.

Master's forms: Approval of the following academic forms is required for master's students by the School of Graduate Studies (SGS):

- Supervisory Committee
- Program of Study
- Thesis/Project Approval
- Appointment for Examination
- Record of Examination
- SGS and library review and approval (Plan A)
- Library review and approval (Plan B)

Natural Resource Economics MS

Type
Completion Requirement

Core Requirements

Complete ALL of the following Courses:

- APEC6100 - Microeconomic Theory I - 3cr.
- APEC6300 - Quantitative Analysis for Business and Policy Decisions - 3cr.
- APEC6330 - Applied Econometrics - 3cr.
- APEC6500 - Introduction to Natural Resource Economics - 3cr.
- APEC6700 - Regional and Community Economic Development - 3cr.

Thesis Credits (3-6)

Plan A students will take 6 credits of APEC6970 THESIS RESEARCH (Thesis Research). Plan B students will take 3 credits of APEC6970 THESIS RESEARCH (Thesis Research).

Earn at least 3 credits from the following:

- APEC6970 - Thesis Research - 1cr.

Elective Courses (12 credits)

Complete the following:
Complete 12 additional credits of APEC, SOC, CEE, ENVS, NR, ECN, WILD, or WATS 5000 to 7000 level courses as approved by Committee. 5000 level or higher courses from other departments as approved by Committee. Plan B students will need to take one additional course to fulfill credit requirement.

Practical Nursing - Certificate

Program Overview

College
College of Education & Human Services

Department
Nursing

Program Level
Undergraduate

About this Degree

The Practical Nursing Certificate is designed for students who wish to begin their nursing education and obtain licensure as a licensed practical nurse (LPN). A Certificate of Completion includes a minimum of one course in composition, math and human relations, in addition to the major courses.

Admission Requirements for this Program

1. Fulfill requirements for admission to USU.
2. Submit a completed application to the nursing department between January 1-February 15. A link to the application portal can be found on the Nursing website.
3. Submit transcript(s) showing completion of prerequisite courses. Prerequisite course requirements must be completed with a grade of C or better. Three course attempts for any one prerequisite course will be accepted, including transfer or equivalent courses.
4. Successful completion (75% or better) on the HESI A2 exam. Applicants are allowed two attempts per application cycle. Two weeks in between attempts is required.
5. A grade of C or better is required in all prerequisite courses. Courses may *not* be taken on a pass/fail basis.

Program Requirements

Total Credits Required In Program Coursework
33

Total Credits Required To Earn This Credential
33

Simple Requisites

Program Requirements

1. A grade of C or better is required in all prerequisite courses. Courses may *not* be taken on a pass/fail basis.
2. After acceptance to the USU PN program, students will be given instructions on how to submit results of a background check, a negative drug screen, Basic Life Support (BLS) certification and proof of required immunizations per program policy.

   A grade of B- or better is required in all NURS major courses. Courses may *not* be taken on a pass/fail basis. Students must maintain at least a 79.5% exam average in all nursing courses. Students will receive the lesser of the exam average or overall course average as the course grade.

   - For more information about the Practical Nursing program, see the department website.
   - Current and admitted students must meet with an advisor to co-create and update their Degree Works plan. Student-specific Degree Works plan may differ.
   - Program completion packets must be submitted to your advisor by February 28th.

Practical Nursing - Certificate

Type
Completion Requirement

Prerequisite Courses (11 credits)

Complete ALL of the following Courses:

- BIOL2320 - Human Anatomy - 4cr.
- BIOL2420 - Human Physiology - 4cr.
- HDFS1500 - Human Development Across the Lifespan (BSS) - 3cr.
  OR PSY1010 - General Psychology (BSS) - 3cr.
  OR PSY1100 - Lifespan Development - 3cr.

• Certified Nursing Assistant (CNA) or Medical Assistant (MA) certificate.

NOTE:

1. BIOL2320 HUMAN ANATOMY - Lab recommended but not required.
2. BIOL2420 HUMAN PHYSIOLOGY - Must be completed within 5 years of admission date to the Practical Nursing program; lab recommended not required.
3. Students who are interested in taking a pathway toward completion of the BSN at Utah State University should complete HDFS1500 HUMAN DEV LIFESPAN (BSS) for their Human Growth and Development prerequisite.

Practical Nursing Courses (22 credits)

Complete ALL of the following Courses:

- NURS1010 - Introduction to Nursing - 2cr.
- NURS1020 - Fundamental Concepts of Nursing - 4cr.
- NURS1030 - Fundamental Concepts of Nursing Clinical - 4cr.
- NURS1042 - Maternal-Newborn Nursing - 1cr.
- NURS1110 - Pharmacology - 1cr.
- NURS1122 - Pediatric Nursing - 1cr.
- NURS1220 - Nursing Process I - 4cr.
- NURS1230 - Nursing Process I Clinical - 4cr.
- NURS1240 - Pharmacology 2 - 1cr.

Additional Comments:

Licensure Notification

This program typically leads to licensure and was designed to meet licensing qualifications in Utah and other Nurse License Compact (NLC) states. If students license in any of these states, they are considered licensed and can work in any of the other NLC states.

The Department of Nursing has not determined if this program meets licensure requirements in the non-NCL states, although it is possible as the National Council of State Boards of Nursing (NCSBN) requirements across the United States are the same.

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Undergraduate Academic or Technical Certificates)

Suggested Degree Maps

Degree Map Name
Suggested Degree Map - Practical Nursing Certificate
Total Degree Map Credits
33
Degree Map Effective Catalog Year
2027 -

Degree Map Narrative

- Following is a sample two-year plan. Please note that student-specific plans may differ.
- Meet with an academic advisor to create a specific plan that best fits your academic needs.
- The student is ultimately responsible for knowing and completing all degree requirements.
- Make sure you meet the registration requirements for each class by clicking the course link and checking any prerequisites or corequisites.
- Consultation with an advisor may result in an altered plan customized for an individual student.
- Check your Degree Works for requirements and completion.

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	7	0

Requirement Select

- HDFS1500 - Human Development Across the Lifespan (BSS)
  OR
- PSY1010 - General Psychology (BSS)
  OR
- PSY1100 - Lifespan Development

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- BIOL2320 - Human Anatomy

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	4	0

Requirement Select
- BIOL2420 - Human Physiology

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
-

Course Requirement Group	
Course Requirement Group (Free Text)	Certified Nursing Assistant (CNA) or Medical Assistant (MA) certificate.
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	12	0

Requirement Select
- NURS1010 - Introduction to Nursing

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select
- NURS1020 - Fundamental Concepts of Nursing

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- NURS1030 - Fundamental Concepts of Nursing Clinical

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- NURS1110 - Pharmacology

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- NURS1122 - Pediatric Nursing

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	10	0

Requirement Select
- NURS1220 - Nursing Process I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- NURS1230 - Nursing Process I Clinical

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- NURS1042 - Maternal-Newborn Nursing

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- NURS1240 - Pharmacology 2

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Program Learning Outcomes

Program Learning Outcomes
https://cehs.usu.edu/about/assessment

Nutrition Science - BS

Program Overview

College	Department	Program Level
College of Agriculture & Natural Resources	Nutrition, Dietetics & Food Sciences	Undergraduate

About this Degree
Nutrition scientists study the molecular and cellular basis of human health and disease. They integrate principles of nutrition with related sciences, such as anatomy, physiology, biochemistry, and medicine. This degree provides students with a solid background in health and life sciences. Students learn how food and nutrients interact with the human body to support health and physical performance.

- For more information about Nutrition, Dietetics, and Food Sciences, see the website.
- Admitted and current students must meet with an advisor, dawnetta.mahnken@usu.edu, 435-797-2282.
- Log on to Degree Works to check student-specific program progress.
- The highest math requirement for this degree is MATH1050 COLLEGE ALGEBRA (QL)

Admission Requirements for this Program
- First Year Student: Admitted to USU in Good Standing
- Transfer students from other institutions or other programs at USU: 2.75 GPA

Program Requirements

Total Credits Required In Program Coursework	Total Credits Required To Earn This Credential
52	120

Simple Requisites

Program Requirements

A minimum GPA of 2.5 is required in all coursework for the major. All NDFS courses require a grade of C- or better.

Nutrition Science - BS Course Requirements

Type
Completion Requirement

Required Courses (47-51 credits)

Complete ALL of the following Courses:
- NDFS1020 - Science and Application of Human Nutrition (BLS) - 3cr.
- NDFS1030 - Introduction to Dietetics and Nutrition Science - 1cr.
- NDFS1600 - Medical Terminology for Health Care Professionals - 2cr.
  OR HEAL1008 - Medical Terminology - 2cr.
- NDFS2020 - Nutrition Throughout the Life Cycle - 3cr.
  OR NDFS2030 - Nutrition and Physical Performance - 2cr.
  OR NDFS3080 - Community Nutrition - 3cr.
  OR NDFS5432 - Community Nutrition - 3cr.
- NDFS4020 - Advanced Nutrition - 3cr.
  OR NDFS5433 - Advanced Nutrition - 3cr.

- NDFS5300 - Advanced Micronutrient Nutrition - 3cr.
- NDFS5410 - Nutrient Gene Interactions (CI) - 3cr.
- BIOL2420 - Human Physiology - 4cr.
  OR BIOL2320 - Human Anatomy - 4cr.
- CHEM1210 - Principles of Chemistry I - 4cr.
- CHEM2300 - Principles of Organic Chemistry - 3cr.
  OR CHEM2310 - Organic Chemistry I - 4cr.
- CHEM3700 - Introductory Biochemistry - 3cr.
- MATH1050 - College Algebra (QL) - 4cr.
- PSY1010 - General Psychology (BSS) - 3cr.
  OR SOC1010 - Introductory Sociology (BSS) - 3cr.
- STAT1040 - Introduction to Statistics (QL) - 3cr.
  OR STAT1045 - Introduction to Statistics with Elements with Algebra (QL) - 5cr.
  OR STAT2000 - Statistical Methods (QI) - 4cr.
  OR STAT3000 - Statistics for Scientists (QI) - 3cr.

Nutrition Science Upper Division Elective (5 - 6 credits)

Complete at least 2 of the following courses:

- NDFS3040 - Nutrition Assessment - 3cr.
- NDFS3110 - Food, Technology, Sustainability and Health (DSC) - 3cr.
- NDFS5210 - Advanced Public Health Nutrition (CI) - 3cr.
- NDFS5230 - Communication of Current Topics in Nutrition (CI) - 3cr.
- NDFS5310 - Fundamentals of Nutrition Research - 3cr.
- NDFS5450 - Study Abroad Experience - 1cr.
- NDFS5510 - Food Laws and Regulations - 3cr.

1. ***NDFS 5250 - minimum of 2 credits***
2. ***NDFS 5450 - minimum of 2 credits***

Suggested Electives

Students must complete 120 credits to earn a bachelor's degree, including 40 credits in upper-division. Consultation with an advisor is important to choose elective courses that will be most effective in helping students reach their academic goals. Contact Dawnetta Mahnken, at dawnetta.mahnken@usu.edu, 435-797-2282 for advising or to schedule an appointment through this link.

Complete ANY of the following Courses:

- NDFS1240 - Food Literacy - 3cr.
- NDFS2020 - Nutrition Throughout the Life Cycle - 3cr.
- NDFS2030 - Nutrition and Physical Performance - 2cr.
- NDFS3040 - Nutrition Assessment - 3cr.
- NDFS3080 - Community Nutrition - 3cr.
- NDFS3110 - Food, Technology, Sustainability and Health (DSC) - 3cr.
- NDFS5210 - Advanced Public Health Nutrition (CI) - 3cr.
- NDFS5230 - Communication of Current Topics in Nutrition (CI) - 3cr.
- NDFS5250 - Occupational Experiences in Nutrition and Food Sciences - 1cr.
- NDFS5310 - Fundamentals of Nutrition Research - 3cr.
- NDFS5450 - Study Abroad Experience - 1cr.
- NDFS5510 - Food Laws and Regulations - 3cr.
- BIOL1060 - Prehealth Professions - 1cr.
- ANTH4130 - Introduction to Medical Anthropology (DSS) - 3cr.
- ASTE2900 - Food Matters: Ethics, Economics, and the Environment (BSS) - 3cr.
- BIOL2320 - Human Anatomy - 4cr.
- BIOL2420 - Human Physiology - 4cr.
- BIOL3060 - Principles of Genetics (QI) - 3cr.
- BIOL3100 - Bioethics (CI) - 3cr.
- BIOL3300 - General Microbiology - 3cr.
- BIOL5150 - Immunology - 3cr.
- BIOL5210 - Cell Biology - 3cr.
- BIOL5630 - Endocrinology (CI) - 3cr.
- ENGL3060 - Mind And Body: The Rhetoric Of Health And Healing (DHA) - 3cr.
- HDFS3700 - Mental Health Advocacy and Awareness - 3cr.
- HEP3600 - Functions of Community & Public Health (CI) - 3cr.
- HIST3910 - Health, Disease, and Medicine in North America (DHA) - 3cr.
- PHIL3500 - Healthcare Ethics (DHA) - 3cr.
- PHYS2110 - General Physics—Life Sciences I - 4cr.
- PHYS2120 - General Physics - Life Sciences II (BPS) - 4cr.
- PSY3110 - Health Psychology - 3cr.
- PUBH3310 - Occupational Health and Safety - 3cr.
- PUBH4030 - Communicable Disease Control - 3cr.
- PUBH4040 - Fundamentals of Epidemiology - 3cr.
- SOC3330 - Medical Sociology (DSS) - 3cr.
- USU1010 - University Connections - 2cr.

Open Electives

Complete the following as needed:
Total elective credit is determined by General Education courses taken, degree type selected, additional credits earned, and any additional math or other prerequisite courses needed. Please consult your Academic Advisor for details.

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Bachelor's Degree)

Suggested Degree Maps

Degree Map Name
Suggested Degree Map - Nutrition Science BS
Total Degree Map Credits
108 - 124
Degree Map Effective Catalog Year
2027 -

Degree Map Narrative

- Following is a sample four-year plan. Please note that student-specific plans may differ.
- Meet with an academic advisor to create a specific plan that best fits your academic needs.
- The student is ultimately responsible for knowing and completing all degree requirements.
- Make sure you meet the registration requirements for each class by clicking the course link and checking any prerequisites or corequisites.
- Consultation with an advisor may result in an altered plan customized for an individual student.
- Check your Degree Works for requirements and completion.

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	15	0

Requirement Select
- ENGL1010 - Writing as Inquiry (CL1)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- NDFS1020 - Science and Application of Human Nutrition (BLS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- NDFS1030 - Introduction to Dietetics and Nutrition Science

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- USU1010 - University Connections

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select
- Breadth Creative Arts (BCA) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective course (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- USU1010 is recommended as an elective course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	12 - 13	0

Requirement Select
- MATH1050 - College Algebra (QL)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- ENGL2010 - Research and Argument Across Perspectives (CL2)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- PSY1010 - General Psychology (BSS)
  OR
- SOC1010 - Introductory Sociology (BSS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- NDFS2020 - Nutrition Throughout the Life Cycle
  OR
- NDFS2030 - Nutrition and Physical Performance
  OR
- NDFS3080 - Community Nutrition
  OR
- Elective course (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2 - 3
Progress Credits	-
Contact Hours	2 - 3
Clinical	-
Criticality	No

Requirement Select

- Elective course (2 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	11 - 18	0

Requirement Select

- BIOL2320 - Human Anatomy
  OR
- BIOL2420 - Human Physiology

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- STAT1040 - Introduction to Statistics (QL)
  OR
- STAT1045 - Introduction to Statistics with Elements with Algebra (QL)
  OR
- STAT2000 - Statistical Methods (QI)
  OR
- STAT3000 - Statistics for Scientists (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 5
Progress Credits	-
Contact Hours	3 - 5
Clinical	-
Criticality	No

Requirement Select

- NDFS2020 - Nutrition Throughout the Life Cycle
  OR
- NDFS2030 - Nutrition and Physical Performance
  OR
- NDFS3080 - Community Nutrition
  OR
- Elective course (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2 - 3
Progress Credits	-
Contact Hours	2 - 3
Clinical	-
Criticality	No

Requirement Select
- Breadth Physical Sciences (BPS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	0 - 4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective Course (2 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- NDFS1010 or CHEM1220 are recommended to fulfill the BPS requirement (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	15	0

Requirement Select
- CHEM1210 - Principles of Chemistry I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- NDFS1600 - Medical Terminology for Health Care Professionals

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select
- Breadth Humanities (BHU) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Breadth American Institutions (BAI) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective course (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- BHU and BAI courses can be taken pass/fail (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Fall	13 - 17	0

Requirement Select

- CHEM2300 - Principles of Organic Chemistry
  OR
- CHEM2310 - Organic Chemistry I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 4
Progress Credits	-
Contact Hours	3 - 4
Clinical	-
Criticality	No

Requirement Select

- NDFS2020 - Nutrition Throughout the Life Cycle
  OR
- NDFS2030 - Nutrition and Physical Performance
  OR
- NDFS3080 - Community Nutrition
  OR
- Elective course (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2 - 3
Progress Credits	-
Contact Hours	2 - 3
Clinical	-
Criticality	No

Requirement Select

- Depth Humanities and Creative Arts (DHA) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1 - 3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Upper-Division Elective Course (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Elective Course (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Elective Course (1 credit) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Spring	15	0

Requirement Select
- CHEM3700 - Introductory Biochemistry

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Upper Division Elective Course (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Upper Division Elective Course (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Upper Division Elective Course (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective course (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Fall	12 - 16	0

Requirement Select
- NDFS4020 - Advanced Nutrition

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Depth Social Sciences (DSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	0 - 4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Nutrition Science Upper Division Elective Course (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Upper Division Elective Course (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective Course (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- The DSS course can be taken pass/fail (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Spring	15	0

Requirement Select
- NDFS5300 - Advanced Micronutrient Nutrition

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- NDFS5410 - Nutrient Gene Interactions (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Nutrition Science Upper Division Elective Course (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective Course (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective Course (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	Total Major Credits
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Program Learning Outcomes

Program Learning Outcomes
https://qanr.usu.edu/ndfs/assessment

Nutrition Science - Pre-Health Emphasis - BS

Program Overview

College	Department	Program Level
College of Agriculture & Natural Resources	Nutrition, Dietetics & Food Sciences	Undergraduate

About this Degree
Nutrition scientists study the molecular and cellular basis of human health and disease. This degree provides students with a solid background in health and life sciences. Students learn how food and nutrients interact with the human body to support health and physical performance.

Pre-health Emphasis: Prepares students to enter medical school by providing experiences and opportunities in laboratory research, epidemiology, and clinical nutrition

- For more information about Nutrition, Dietetics and Food Sciences, see website.
- Admitted and current students must meet with an advisor.
- Log on to Degree Works to check student-specific program progress.
- The highest math requirement for this degree is MATH1060 TRIGONOMETRY or MATH1100 CALCULUS TECHNIQUES (QL) or MATH1210 CALCULUS I (QL)

Admission Requirements for this Program
- First Year Student: Admitted to USU in Good Standing
- Transfer students from other institutions or other programs at USU: 2.75 GPA

Program Requirements

Total Credits Required In Program Coursework	Total Credits Required To Earn This Credential
63	120

Simple Requisites

Program Requirements

Students must complete 120 credits to earn a bachelor's degree, including 40 credits upper division. Consultation with their advisor is important to choose elective courses that will be most effective in helping them reach their academic goals. Contact Dawnetta Mahnken, dawnetta.mahnken@usu.edu, 435-797-2282 for advising or schedule an appointment through this link.

It is the student's responsibility to check with health profession graduate programs concerning courses required for admission. Completion of Utah State University's Department of Nutrition Science: Pre-Health emphasis will not guarantee admission into health profession graduate schools.

The Pre-Health Advising Office has a team of advisors to assist and support USU students planning to attend health profession graduate programs. Please see their website for more information.

A minimum GPA of 2.5 is required in all coursework for the major. All NDFS courses require a grade of C- or better.

Nutrition Science: Pre-Health - BS Course Requirements

Type
Completion Requirement

Major Requirements (58-64 credits)

Complete ALL of the following Courses:

- NDFS1020 - Science and Application of Human Nutrition (BLS) - 3cr.
- NDFS1600 - Medical Terminology for Health Care Professionals - 2cr.
  OR HEAL1008 - Medical Terminology - 2cr.
- NDFS2020 - Nutrition Throughout the Life Cycle - 3cr.
  OR NDFS2030 - Nutrition and Physical Performance - 2cr.
  OR NDFS3080 - Community Nutrition - 3cr.
  OR NDFS5432 - Community Nutrition - 3cr.
- NDFS4020 - Advanced Nutrition - 3cr.
  OR NDFS5433 - Advanced Nutrition - 3cr.
- NDFS5300 - Advanced Micronutrient Nutrition - 3cr.
- NDFS5410 - Nutrient Gene Interactions (CI) - 3cr.
- BIOL1610 - Biology I - 3cr.
- BIOL1620 - Biology II (BLS) - 3cr.
- BIOL2320 - Human Anatomy - 4cr.
  OR BIOL2420 - Human Physiology - 4cr.
- CHEM1210 - Principles of Chemistry I - 4cr.
- CHEM1220 - Principles of Chemistry II (BPS) - 4cr.
- CHEM2300 - Principles of Organic Chemistry - 3cr.
  OR CHEM2310 - Organic Chemistry I - 4cr.
- CHEM3700 - Introductory Biochemistry - 3cr.
- MATH1050 - College Algebra (QL) - 4cr.
- MATH1060 - Trigonometry - 2cr.
  OR MATH1100 - Calculus Techniques (QL) - 3cr.
  OR MATH1210 - Calculus I (QL) - 4cr.
- PSY1010 - General Psychology (BSS) - 3cr.
  OR SOC1010 - Introductory Sociology (BSS) - 3cr.
- STAT1040 - Introduction to Statistics (QL) - 3cr.
  OR STAT1045 - Introduction to Statistics with Elements with Algebra (QL) - 5cr.
  OR STAT2000 - Statistical Methods (QI) - 4cr.
  OR STAT3000 - Statistics for Scientists (QI) - 3cr.

Nutrition Science Upper Division Elective (5 - 6 credits)

1. NDFS 5250 - requires approval from Korry Hintz; minimum 2 credits
2. NDFS 5450 - minimum 2 credits

Complete at least 2 of the following courses:

- NDFS3040 - Nutrition Assessment - 3cr.
- NDFS3110 - Food, Technology, Sustainability and Health (DSC) - 3cr.
- NDFS5210 - Advanced Public Health Nutrition (CI) - 3cr.
- NDFS5230 - Communication of Current Topics in Nutrition (CI) - 3cr.
- NDFS5250 - Occupational Experiences in Nutrition and Food Sciences - 1cr.
- NDFS5310 - Fundamentals of Nutrition Research - 3cr.
- NDFS5450 - Study Abroad Experience - 1cr.
- NDFS5510 - Food Laws and Regulations - 3cr.

Pre-Health Emphasis Professional Courses (24 credits)

The term "pre-health" covers a broad spectrum of health profession graduate programs: medical, dental, physician assistant, physical therapy, occupational therapy, podiatry, optometry, etc., with each type of program requiring a different subset, or level of, prerequisite coursework. The Nutrition Science: pre-health emphasis strives to allow students course flexibility within their science coursework so students may align their coursework to the professional school they are working towards. It is the student's responsibility to determine the coursework required for the particular graduate schools they are interested in attending.

Choose at least 24 credits from any of the Pre-Health emphasis areas to meet the prerequisite coursework for the professional school of interest. Only 9 credits are allowed in the Social Sciences and Supportive Courses area.

Fulfill ANY of the following requirements:

Biological Science (0-24 credits)

Complete ANY of the following Courses:

- NDFS1030 - Introduction to Dietetics and Nutrition Science - 1cr.
- NDFS1240 - Food Literacy - 3cr.
- NDFS2020 - Nutrition Throughout the Life Cycle - 3cr.
- NDFS2030 - Nutrition and Physical Performance - 2cr.
- NDFS3040 - Nutrition Assessment - 3cr.
- NDFS3080 - Community Nutrition - 3cr.
- NDFS3110 - Food, Technology, Sustainability and Health (DSC) - 3cr.
- NDFS5210 - Advanced Public Health Nutrition (CI) - 3cr.
- NDFS5230 - Communication of Current Topics in Nutrition (CI) - 3cr.
- NDFS5250 - Occupational Experiences in Nutrition and Food Sciences - 1cr.
- NDFS5310 - Fundamentals of Nutrition Research - 3cr.
- NDFS5510 - Food Laws and Regulations - 3cr.
- BIOL1030 - Medical College Admissions Test (MCAT) Preparation - 1cr.
- BIOL1060 - Prehealth Professions - 1cr.
- BIOL1615 - Biology I Laboratory - 1cr.
- BIOL1625 - Biology II Laboratory - 1cr.
- BIOL2060 - Elementary Microbiology - 4cr.
- BIOL2320 - Human Anatomy - 4cr.
- BIOL2420 - Human Physiology - 4cr.
- BIOL2520 - Pathophysiology - 3cr.
- BIOL3010 - Evolution (DSC) - 3cr.
- BIOL3060 - Principles of Genetics (QI) - 3cr.
- BIOL3100 - Bioethics (CI) - 3cr.
- BIOL3300 - General Microbiology - 3cr.
- BIOL3500 - Plagues, Pests, and People - 3cr.
- BIOL4000 - Human Dissection - 1cr.
- BIOL5150 - Immunology - 3cr.
- BIOL5210 - Cell Biology - 3cr.
- KIN3250 - Anatomical Kinesiology - 3cr.
- KIN4200 - Biomechanics (QI) - 4cr.
- PUBH3310 - Occupational Health and Safety - 3cr.
- PUBH4030 - Communicable Disease Control - 3cr.
- PUBH4040 - Fundamentals of Epidemiology - 3cr.

OR

Physical Science and Mathematics (0-24 credits)

(Physics is required for most health profession graduate programs. As such the math requirement in the NS Pre-Health program prepares students for physics courses. Thus, any of the following math courses will suffice: MATH1060 TRIGONOMETRY, MATH1100 CALCULUS TECHNIQUES (QL), or MATH1210 CALCULUS I (QL))

Complete ANY of the following Courses:

- ADVS5630 - Endocrinology (CI) - 3cr.
- CHEM1215 - Chemical Principles Laboratory I - 1cr.
- CHEM1225 - Chemical Principles Laboratory II - 1cr.
- CHEM2315 - Organic Chemistry Laboratory I - 1cr.
- CHEM2320 - Organic Chemistry II - 4cr.
- CHEM2325 - Organic Chemistry Laboratory II - 1cr.
- CHEM3710 - Introductory Biochemistry Laboratory - 1cr.

- CHEM5700 - General Biochemistry I - 3cr.
- MATH1100 - Calculus Techniques (QL) - 3cr.
- MATH1210 - Calculus I (QL) - 4cr.
- PHYS2110 - General Physics—Life Sciences I - 4cr.
- PHYS2120 - General Physics - Life Sciences II (BPS) - 4cr.
- PSY3010 - Psychological Statistics (QI) - 3cr.

OR

Social Science and Supportive Courses (0-9 credits)

Only up to 9 credits are allowed in the Social Sciences and Supportive Courses area.

Complete ANY of the following Courses:

- ANTH4130 - Introduction to Medical Anthropology (DSS) - 3cr.
- ASTE2900 - Food Matters: Ethics, Economics, and the Environment (BSS) - 3cr.
- CMST4700 - Health Communication (CI) - 3cr.
- ENGL3060 - Mind And Body: The Rhetoric Of Health And Healing (DHA) - 3cr.
- HDFS1500 - Human Development Across the Lifespan (BSS) - 3cr.
- HDFS3100 - Abuse and Neglect in Family Context - 3cr.
- HDFS3110 - Human Sexuality - 3cr.
- HDFS3570 - Youth and Adolescence - 3cr.
- HDFS3700 - Mental Health Advocacy and Awareness - 3cr.
- HEP2500 - Health and Wellness - 2cr.
- HEP3200 - Consumer Health - 3cr.
- HEP3400 - Stress Management - 3cr.
- HEP3600 - Functions of Community & Public Health (CI) - 3cr.
- HIST3910 - Health, Disease, and Medicine in North America (DHA) - 3cr.
- KIN4100 - Exercise Physiology - 4cr.
- PHIL3500 - Healthcare Ethics (DHA) - 3cr.
- PSY1010 - General Psychology (BSS) - 3cr.
- PSY1100 - Lifespan Development - 3cr.
- PSY2100 - Developmental Psychology: Adolescence - 3cr.
- PSY2300 - Psychological Disorders - 3cr.
- PSY3110 - Health Psychology - 3cr.
- PSY3460 - Neuroscience I - 3cr.
- PSY3510 - Social Psychology (DSS) - 3cr.
- PSY4240 - Multicultural Psychology (DSS) - 3cr.
- SOC1010 - Introductory Sociology (BSS) - 3cr.
- SOC3330 - Medical Sociology (DSS) - 3cr.
- SOC3750 - Sociology of Aging (DSS) - 3cr.
- SPAN3061 - Fundamentals of Translation and Interpretation - 3cr.
- SPAN3081 - Healthcare Translation - 3cr.
- SPAN3100 - Spanish Healthcare - 3cr.
- SPAN4071 - Simultaneous and Consecutive Healthcare Interpretation - 3cr.
- SPAN4081 - Medical Interpretation Training (BTG) - 3cr.
- USU3410 - PreMed Ready: Application Prep - 1cr.

Open Electives

Complete the following as needed:
Total elective credit is determined by General Education courses taken, degree type selected, additional credits earned, and any additional math or other prerequisite courses needed. Please consult your Academic Advisor for details.

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Bachelor's Degree)

Suggested Degree Maps

Degree Map Name
Suggested Degree Map - Nutrition Science: Pre-Health BS
Total Degree Map Credits
112 - 125
Degree Map Effective Catalog Year
2027 -

Degree Map Narrative

- Following is a sample four-year plan. Please note that student-specific plans may differ.
- Meet with an academic advisor to create a specific plan that best fits your academic needs.
- The student is ultimately responsible for knowing and completing all degree requirements.
- Make sure you meet the registration requirements for each class by clicking the course link and checking any prerequisites or corequisites.
- Consultation with an advisor may result in an altered plan customized for an individual student.
- Check your Degree Works for requirements and completion.

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	16	0

Requirement Select

- BIOL1610 - Biology I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- BIOL1615 - Biology I Laboratory

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- ENGL1010 - Writing as Inquiry (CL1)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- NDFS1020 - Science and Application of Human Nutrition (BLS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- NDFS1030 - Introduction to Dietetics and Nutrition Science
  OR
- BIOL1060 - Prehealth Professions

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- USU1010 - University Connections

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select
- Breadth Creative Arts (BCA) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Take BIOL1615 if needed for Pre-Health program, or an elective course; USU1010 is recommended as an elective course; BCA can be taken pass/fail (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	14	0

Requirement Select
- BIOL1620 - Biology II (BLS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- BIOL1625 - Biology II Laboratory

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- MATH1050 - College Algebra (QL)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- ENGL2010 - Research and Argument Across Perspectives (CL2)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- PSY1010 - General Psychology (BSS)
  OR
- SOC1010 - Introductory Sociology (BSS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Take BIOL1625 if needed for Pre-Health program or an elective course; Choose PSY1010 or SOC1010 according to what is required for your intended health profession graduate program: (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	15 - 17	0

Requirement Select

- CHEM1210 - Principles of Chemistry I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- CHEM1215 - Chemical Principles Laboratory I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- MATH1060 - Trigonometry
  OR
- MATH1100 - Calculus Techniques (QL)
  OR
- MATH1210 - Calculus I (QL)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2 - 4
Progress Credits	-
Contact Hours	2 - 4
Clinical	-
Criticality	No

Requirement Select

- BIOL2320 - Human Anatomy
  OR
- BIOL2420 - Human Physiology

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- Breadth Humanities (BHU) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective course (1 credit) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Take CHEM 1215 if needed for Pre-Health program, or Elective Course; BHU can be taken pass/fail (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	14 - 16	0

Requirement Select
- CHEM1220 - Principles of Chemistry II (BPS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- CHEM1225 - Chemical Principles Laboratory II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- STAT1040 - Introduction to Statistics (QL)
  OR
- STAT1045 - Introduction to Statistics with Elements with Algebra (QL)
  OR
- STAT2000 - Statistical Methods (QI)
  OR
- STAT3000 - Statistics for Scientists (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 5
Progress Credits	-
Contact Hours	3 - 5
Clinical	-
Criticality	No

Requirement Select
- NDFS1600 - Medical Terminology for Health Care Professionals

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select
- Breadth American Institutions (BAI) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective course (1 credit) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Take CHEM1225 if needed for Pre-Health program, or Elective Course; Choose STAT course required for intended health profession graduate program; BAI can be taken pass/fail (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Fall	11 - 15	0

Requirement Select
- CHEM2300 - Principles of Organic Chemistry
  OR
- CHEM2310 - Organic Chemistry I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 4
Progress Credits	-
Contact Hours	3 - 4
Clinical	-
Criticality	No

Requirement Select
- CHEM2315 - Organic Chemistry Laboratory I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- PHYS2110 - General Physics—Life Sciences I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- NDFS3080 - Community Nutrition
  OR
- NDFS2020 - Nutrition Throughout the Life Cycle
  OR
- NDFS2030 - Nutrition and Physical Performance
  OR
- Upper Division Elective Course (2 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2 - 3
Progress Credits	-
Contact Hours	2 - 3
Clinical	-
Criticality	No

Requirement Select
- Depth Humanities and Creative Arts (DHA) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1 - 3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Take CHEM2315, PHYS2110 if needed for Pre-Health program, or Elective Course; DHA can be taken pass/fail (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits

Year	Semester	Actual Credits	Progress Credits
Year 3	Spring	15 - 16	0

Requirement Select
- CHEM2320 - Organic Chemistry II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- CHEM2325 - Organic Chemistry Laboratory II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- CHEM3700 - Introductory Biochemistry

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- CHEM3710 - Introductory Biochemistry Laboratory

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- PHYS2120 - General Physics - Life Sciences II (BPS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- NDFS2020 - Nutrition Throughout the Life Cycle
  OR
- NDFS2030 - Nutrition and Physical Performance
  OR
- NDFS3080 - Community Nutrition
  OR
- Elective course (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2 - 3
Progress Credits	-
Contact Hours	2 - 3
Clinical	-
Criticality	No

Requirement Select
- Take CHEM2320, CHEM2325, CHEM3710, PHYS2120 if needed for Pre-Health program, or Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Fall	13 - 17	0

Requirement Select
- NDFS4020 - Advanced Nutrition

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Depth Social Sciences (DSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	0 - 4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Nutrition Science Upper Division Elective Course (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Pre-Health Upper Division Emphasis Course (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Pre-Health Upper Division Emphasis Course (4 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- DSS can be taken pass/fail (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Spring	14	0

Requirement Select
- NDFS5300 - Advanced Micronutrient Nutrition

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- NDFS5410 - Nutrient Gene Interactions (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Pre-Health Upper Division Emphasis Course (4 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Nutrition Science Upper Division Elective Course (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Elective course (1 credit) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Program Learning Outcomes

Program Learning Outcomes

https://qanr.usu.edu/ndfs/assessment

Nutrition Science - Sports Nutrition Emphasis - BS

Program Overview

College	Department	Program Level
College of Agriculture & Natural Resources	Nutrition, Dietetics & Food Sciences	Undergraduate

About this Degree

Nutrition scientists study the molecular and cellular basis of human health and disease. This degree provides students with a solid background in health and life sciences. Students learn how food and nutrients interact with the human body to support health and physical performance.

Sports Nutrition Emphasis: Applies the principles of nutrition to exercise and physical performance. Students develop the skills needed to work as professionals within the fitness, health and dietary supplement industries as health coaches, personal trainers, product developers, and marketers.

- For more information about Nutrition, Dietetics, and Food Sciences, see the website.
- Admitted and current students must meet with an advisor, Dawnetta Mahnken at dawnetta.mahnken@usu.edu or 435-797-2282.
- Log on to Degree Works to check student-specific program progress.
- The highest math requirement for this degree is MATH1050 COLLEGE ALGEBRA (QL)

Program Requirements

Total Credits Required In Program Coursework	Total Credits Required To Earn This Credential
72	120

Simple Requisites

Program Requirements

A minimum GPA of 2.5 is required in all coursework for the major. All NDFS courses require a grade of C- or better.

Students must complete 120 credits to earn a bachelor's degree, including 40 credits of upper-division courses. Consultation with their advisor is important to choose elective courses that will be most effective in helping them reach their academic goals. Contact Dawnetta Mahnken, at dawnetta.mahnken@usu.edu, 435-797-2282 for advising or to schedule an appointment through this link.

Nutrition Science: Sports Nutrition - BS Course Requirements

Type
Completion Requirement

Required Core Courses (45-48 credits)

Complete ALL of the following Courses:

- NDFS1020 - Science and Application of Human Nutrition (BLS) - 3cr.
- NDFS1030 - Introduction to Dietetics and Nutrition Science - 1cr.
- NDFS1600 - Medical Terminology for Health Care Professionals - 2cr.
  OR HEAL1008 - Medical Terminology - 2cr.
- NDFS2020 - Nutrition Throughout the Life Cycle - 3cr.
  OR NDFS3080 - Community Nutrition - 3cr.

OR NDFS5432 - Community Nutrition - 3cr.
- NDFS4020 - Advanced Nutrition - 3cr.
  OR NDFS5433 - Advanced Nutrition - 3cr.
- NDFS5300 - Advanced Micronutrient Nutrition - 3cr.
- NDFS5410 - Nutrient Gene Interactions (CI) - 3cr.
- BIOL1610 - Biology I - 3cr.
- BIOL2420 - Human Physiology - 4cr.
- CHEM1210 - Principles of Chemistry I - 4cr.
- CHEM2300 - Principles of Organic Chemistry - 3cr.
  OR CHEM2310 - Organic Chemistry I - 4cr.
- CHEM3700 - Introductory Biochemistry - 3cr.
- MATH1050 - College Algebra (QL) - 4cr.
- PSY1010 - General Psychology (BSS) - 3cr.
  OR SOC1010 - Introductory Sociology (BSS) - 3cr.
- STAT1040 - Introduction to Statistics (QL) - 3cr.
  OR STAT1045 - Introduction to Statistics with Elements with Algebra (QL) - 5cr.
  OR STAT2000 - Statistical Methods (QI) - 4cr.
  OR STAT3000 - Statistics for Scientists (QI) - 3cr.

Emphasis Required Courses (22 credits)

A minimum GPA of 2.5 is required in all coursework for the major. All NDFS courses require a grade of C- or better.

Complete ALL of the following Courses:
- NDFS2030 - Nutrition and Physical Performance - 2cr.
- NDFS5320 - Advanced Sports Nutrition - 3cr.
- BIOL2320 - Human Anatomy - 4cr.
- KIN2000 - Introduction to Kinesiology - 2cr.
- KIN3250 - Anatomical Kinesiology - 3cr.
- KIN4100 - Exercise Physiology - 4cr.
- KIN5100 - Fitness Assessment and Exercise Programs - 4cr.

Nutrition Science Upper Division Electives (5 - 6 credits)

Complete at least 2 of the following courses:
- NDFS3040 - Nutrition Assessment - 3cr.
- NDFS3110 - Food, Technology, Sustainability and Health (DSC) - 3cr.
- NDFS5210 - Advanced Public Health Nutrition (CI) - 3cr.
- NDFS5230 - Communication of Current Topics in Nutrition (CI) - 3cr.
- NDFS5250 - Occupational Experiences in Nutrition and Food Sciences - 1cr.
- NDFS5310 - Fundamentals of Nutrition Research - 3cr.
- NDFS5450 - Study Abroad Experience - 1cr.
- NDFS5510 - Food Laws and Regulations - 3cr.

1. NDFS 5250 - requires approval from Korry Hintz; minimum 2 credits
2. NDFS 5450 - minimum 2 credits

Open Electives

Complete the following as needed:
Total elective credit is determined by General Education courses taken, degree type selected, additional credits earned, and any additional math or other prerequisite courses needed. Please consult your Academic Advisor for details.

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Bachelor's Degree)

Suggested Degree Maps

Degree Map Name
Suggested Degree Map - Nutrition Science: Sports Nutrition BS
Total Degree Map Credits
110 - 123
Degree Map Effective Catalog Year
2027 -

Degree Map Narrative

- Following is a sample four-year plan. Please note that student-specific plans may differ.
- Meet with an academic advisor to create a specific plan that best fits your academic needs.
- The student is ultimately responsible for knowing and completing all degree requirements.
- Make sure you meet the registration requirements for each class by clicking the course link and checking any prerequisites or corequisites.
- Consultation with an advisor may result in an altered plan customized for an individual student.
- Check your Degree Works for requirements and completion.

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	15	0

Requirement Select
- ENGL1010 - Writing as Inquiry (CL1)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- BIOL1610 - Biology I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- NDFS1020 - Science and Application of Human Nutrition (BLS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- NDFS1030 - Introduction to Dietetics and Nutrition Science

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- USU1010 - University Connections

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select

- Breadth Creative Arts (BCA) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- USU1010 is recommended as an elective course; BCA can be taken pass/fail (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	15	0

Requirement Select

- ENGL2010 - Research and Argument Across Perspectives (CL2)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- MATH1050 - College Algebra (QL)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- PSY1010 - General Psychology (BSS)
  OR
- SOC1010 - Introductory Sociology (BSS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Breadth American Institutions (BAI) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective Course (2 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- PSY1010, SOC1010, BAI can be taken pass/fail (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	11 - 17	0

Requirement Select
- BIOL2420 - Human Physiology

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- NDFS2030 - Nutrition and Physical Performance

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select
- NDFS1600 - Medical Terminology for Health Care Professionals

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select
- STAT1040 - Introduction to Statistics (QL)
  OR
- STAT1045 - Introduction to Statistics with Elements with Algebra (QL)
  OR
- STAT2000 - Statistical Methods (QI)
  OR
- STAT3000 - Statistics for Scientists (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 5
Progress Credits	-
Contact Hours	3 - 5
Clinical	-
Criticality	No

Requirement Select
- Breadth Physical Sciences (BPS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	0 - 4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- NDFS1010 or CHEM1220 recommended to fulfill BPS requirement (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	16	0

Requirement Select

- CHEM1210 - Principles of Chemistry I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- BIOL2320 - Human Anatomy

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- KIN2000 - Introduction to Kinesiology

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select

- NDFS2020 - Nutrition Throughout the Life Cycle
  OR
- NDFS3080 - Community Nutrition
  OR
- Elective course (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Breadth Humanities (BHU) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- BHU course can be taken pass/fail (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Fall	12 - 17	0

Requirement Select

- CHEM2300 - Principles of Organic Chemistry
  OR
- CHEM2310 - Organic Chemistry I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 4
Progress Credits	-
Contact Hours	3 - 4
Clinical	-
Criticality	No

Requirement Select

- KIN3250 - Anatomical Kinesiology

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- NDFS3080 - Community Nutrition

OR

- NDFS2020 - Nutrition Throughout the Life Cycle

OR

- Upper Division Elective Course (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Depth Social Sciences (DSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	0 - 4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Elective course (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- DSS course can be taken pass/fail (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Spring	14 - 16	0

Requirement Select

- CHEM3700 - Introductory Biochemistry

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Depth Humanities and Creative Arts (DHA) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1 - 3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Upper Division Elective Course (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Upper Division Elective Course (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective Course (1 credit) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective Course (3 credit) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- DHA course can be taken pass/fail (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Fall	13	0

Requirement Select
- KIN4100 - Exercise Physiology

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- NDFS4020 - Advanced Nutrition

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- NDFS5320 - Advanced Sports Nutrition

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Nutrition Science upper division elective course (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Spring	14	0

Requirement Select

- KIN5100 - Fitness Assessment and Exercise Programs

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- NDFS5300 - Advanced Micronutrient Nutrition

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- NDFS5410 - Nutrient Gene Interactions (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Nutrition Science Upper Division Elective Course (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Elective Course (1 credit) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Program Learning Outcomes

Program Learning Outcomes

https://qanr.usu.edu/ndfs/assessment

Nursing Assistant - Technical Certificate

Program Overview

College
College of Agriculture & Natural Resources

Department
Technology, Design & Technical Ed

Program Level
Undergraduate

About this Degree

Federal Gainful Employment Information

The Nursing Assistant program is designed for students to receive their certification by completing coursework in classroom and clinical settings.

Admission Requirements for this Program

Additional Application Process Required - See below, ask an advisor for details

Students must be at 16 years old by the first day of class.

Pre-Admission Assessment taken at the Testing Center: Must score an 80% or higher. Students have 3 tries within a year to reach required score.

Personal Documentation Requirements:

- Immunization Records
- Annual Influenza Vaccine
- 2-Step TB Test
- Background Check for anyone 18 years and older
- Drug Screen

Physical Demands:

- Communicate effectively with patients and coworkers using speech and hearing.
- Stand and walk for extended periods.
- Bend, kneel, stoop, crouch, crawl, and climb without restriction.
- Frequently lift or move objects and patients over 50 pounds.
- Use close, distance, color, peripheral vision, depth perception, and quickly adjust focus.

Program Requirements

Total Credits Required In Program Coursework
3

Total Credits Required To Earn This Credential
3

Simple Requisites

Program Requirements

A B- or better is required in all certificate coursework.

Nursing Assistant Course Requirements

Type
Completion Requirement

Required Course (3 Credits)

Complete ALL of the following Courses:

- TENA1100 - Nursing Assistant - 3cr.

Program Learning Outcomes

Program Learning Outcomes

- Explain activities of daily living and nursing assistant scope of practice.
- Demonstrate correct recognizing and reporting, communication, infection control, safety, and residents' rights in the care setting.
- Demonstrate proficiency in all skills required for state certification.
- Perform nursing assistant skills in a healthcare setting.

Nursing - AAS

Program Overview

College
College of Education & Human Services

Department
Nursing

Program Level
Undergraduate

About this Degree

The Associate of Applied Science degree builds upon the practical nursing certificate and is designed for students who wish to continue their nursing education and obtain licensure as a registered nurse (RN). A minimum of 15 hours of general education, which shall include courses in composition, math, human relations, and six hours outside the major, are required in addition to the major courses for the Associate of Applied Science degree.

In addition to the Practical Nursing Certificate admissions requirements, AAS students must also:

1. Submit a completed application to the nursing department between January 1st and February 15th.
2. Obtain a grade of C or better in all prerequisite courses. Applicants who have completed a prerequisite course with more than three attempts without achieving a grade of C or better will not be considered for admission. Courses may *not* be taken on a pass/fail basis.
3. Pass the NCLEX-PN and submit a copy of current practical nursing license in good standing in the state of Utah, no later than one week prior to the first day of fall semester. This requirement does not apply to USU PN students immediately (without a break in their nursing program) transitioning to the USU AAS program in Blanding, Moab and Price.

After acceptance to the USU AAS program, students will be given instructions on how to submit results of a clean criminal background check, a negative drug screen, Basic Life Support (BLS) certification, and proof of required immunizations per program policy.

AAS students must maintain at least a 79.5% exam average and a grade of B- or better in all nursing courses. Courses may *not* be taken on a pass/fail basis. Students will receive the lesser of the exam average or overall course average as the course grade.

- For more information about the Nursing AAS program, see the department website.
- Current and admitted students must meet with an advisor to co-create their Degree Works plan. Student-specific Degree Works plans may differ.
- Graduation applications are due February 28th.

Program Requirements

Total Credits Required In Program Coursework
65-68

Total Credits Required To Earn This Credential
65-68

Simple Requisites

Program Requirements

AAS students must obtain a grade of C or better in all prerequisite courses and maintain at least a 79.5% exam average and a grade of B- or better in all nursing courses. Courses may *not* be taken on a pass/fail basis. Students will receive the lesser of the exam average or overall course average as the course grade.

Nursing - AAS

Type
Completion Requirement

Prerequisite Courses (23-26 credits)

Students must receive a minimum grade of C or better in all prerequisite courses ***except*** NURS2500 PATHOPHYS NURSING or BIOL2520 PATHOPHYSIOLOGY.

Fulfill ALL of the following requirements:

Prerequisite Courses (17 credits)

Complete ALL of the following Courses:

- BIOL2320 - Human Anatomy - 4cr.
- BIOL2420 - Human Physiology - 4cr.
- ENGL1010 - Writing as Inquiry (CL1) - 3cr.
- HDFS1500 - Human Development Across the Lifespan (BSS) - 3cr.
  OR PSY1010 - General Psychology (BSS) - 3cr.
  OR PSY1100 - Lifespan Development - 3cr.
- NURS2500 - Pathophysiology for Nursing - 3cr.
  OR BIOL2520 - Pathophysiology - 3cr.

NOTE:

1. BIOL2420 HUMAN PHYSIOLOGY - Must be completed within 5 years of program entry.
2. ENGL1010 WRITING AS INQUIRY (CL1) - Or any other CL1 course.
3. NURS2500 PATHOPHYS NURSING or BIOL2520 PATHOPHYSIOLOGY - Must have a minimum grade of B- or better.

AND

Math Prerequisite (3-5 credits)

Complete ALL of the following Course Sets:

- Quantitative Literacy (QL) Course

AND

Chemistry Options (3- 4 credits)

Choose one of the following Chemistry options:

Fulfill ANY of the following requirements:

Chemistry Option 1

Complete ALL of the following Courses:

- CHEM1010 - Introduction to Chemistry (BPS) - 3cr.

OR

Chemistry Option 2

Complete ALL of the following Courses:

- CHEM1110 - General Chemistry I (BPS) - 4cr.

Practical Nursing Courses (22 credits)

Complete ALL of the following Courses:

- NURS1010 - Introduction to Nursing - 2cr.

- NURS1020 - Fundamental Concepts of Nursing - 4cr.
- NURS1030 - Fundamental Concepts of Nursing Clinical - 4cr.
- NURS1042 - Maternal-Newborn Nursing - 1cr.
- NURS1110 - Pharmacology - 1cr.
- NURS1122 - Pediatric Nursing - 1cr.
- NURS1220 - Nursing Process I - 4cr.
- NURS1230 - Nursing Process I Clinical - 4cr.
- NURS1240 - Pharmacology 2 - 1cr.

Associate Nursing Courses (20 credits)

Complete ALL of the following Courses:

- NURS2020 - Nursing Process II - 5cr.
- NURS2030 - Nursing Process II Clinical - 4cr.
- NURS2140 - Advanced Maternal-Newborn Nursing - 1cr.
- NURS2220 - Manager of Care - 5cr.
- NURS2230 - Manager of Care Clinical - 4cr.
- NURS2240 - Advanced Pediatric Nursing - 1cr.

Additional Comments:

Licensure Notification

This program typically leads to licensure and was designed to meet licensing qualifications in Utah and other Nurse License Compact (NLC) states. If students license in any of these states, they are considered licensed and can work in any of the other NLC states.

The Department of Nursing has not determined if this program meets licensure requirements in the non-NCL states, although it is possible as the National Council of State Boards of Nursing (NCSBN) requirements across the United States are the same.

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Associate Degrees)

Suggested Degree Maps

Degree Map Name
Suggested Degree Map - Nursing AAS
Total Degree Map Credits
65 - 68
Degree Map Effective Catalog Year
2027 -

Degree Map Narrative

- Following is a sample three-year plan. Please note that student-specific plans may differ.
- Meet with an academic advisor to create a specific plan that best fits your academic needs.
- The student is ultimately responsible for knowing and completing all degree requirements.
- Make sure you meet the registration requirements for each class by clicking the course link and checking any prerequisites or corequisites.
- Consultation with an advisor may result in an altered plan customized for an individual student.
- Check your Degree Works for requirements and completion.

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	10 - 11	0

Requirement Select

- Communications Literacy (CL1) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- HDFS1500 - Human Development Across the Lifespan (BSS)
  OR
- PSY1010 - General Psychology (BSS)
  OR
- PSY1100 - Lifespan Development

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- BIOL2320 - Human Anatomy

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	10 - 12	0

Requirement Select

- BIOL2420 - Human Physiology

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- Quantitative Literacy (QL) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- CHEM1010 - Introduction to Chemistry (BPS)
  OR
- CHEM1110 - General Chemistry I (BPS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 4
Progress Credits	-
Contact Hours	3 - 4
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	3	0

Requirement Select
- NURS2500 - Pathophysiology for Nursing
  OR
- BIOL2520 - Pathophysiology

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	22	0

Requirement Select
- Practical Nursing (PN) Coursework (22 credits). (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	Practical Nursing Courses
Minimum Grade	-
Area	-
Actual Credits	22
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Fall	10	0

Requirement Select
- NURS2020 - Nursing Process II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	5
Progress Credits	-
Contact Hours	5
Clinical	-
Criticality	No

Requirement Select
- NURS2030 - Nursing Process II Clinical

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- NURS2140 - Advanced Maternal-Newborn Nursing

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Spring	10	0

Requirement Select
- NURS2220 - Manager of Care

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	5
Progress Credits	-
Contact Hours	5
Clinical	-
Criticality	No

Requirement Select

- NURS2230 - Manager of Care Clinical

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- NURS2240 - Advanced Pediatric Nursing

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Program Learning Outcomes

Program Learning Outcomes

https://cehs.usu.edu/about/assessment

Nursing - BSN

Program Overview

College
College of Education & Human Services

Department
Nursing

Program Level
Undergraduate

About this Degree

This four-year program leads to a Baccalaureate of Science in Nursing (BSN) degree, qualifying graduates to apply for RN licensure and preparing them for graduate degrees in nursing.

The USU Nursing Program integrates nursing theory with biological, physical, and behavioral sciences through classroom, lab, and clinical experiences in multiple healthcare settings. It is accredited by the Accreditation Commission for Education in Nursing (ACEN).

- Visit the Nursing Department website for BSN program details.
- Pre-nursing and admitted Nursing students must meet with a Nursing advisor to create and update their Degree Works plan.
- The highest math requirement for this degree is STAT1040 INTRO TO STATISTICS (QL), STAT1045 INTRO STAT WITH ALGEBRA (QL), or STAT 1080.

Admission Requirements for this Program

Nursing admits up to 30 students **twice** per year into the Nursing BSN program. Applications are available on the Department of Nursing website and will be submitted online. Applications deadlines are as follows:

- **Application for Fall Entry: accepted annually January 1 – February 15**
- **Application for Spring Entry: accepted annually July 1 – August 15.**

**** If taking prerequisites at another university, inform your Nursing Advisor and provide updates on your progress and final grade to maintain eligibility for admission.***

- Proof of Certified Nursing Assistant (CNA) or Medical Assistant (MA) certification is required at the time of application. CNA/MA work experience is preferred.
- Score 75% or higher on the HESI A2 exam (maximum two attempts, with at least two weeks between attempts).
- Submit all application materials, including a resume (template provided), HESI A2 results, CNA or MA Certificate, and application fee receipt.
- After submission, applicants will receive details on the writing assignment.

Prerequisite courses require a C or better and cannot be taken pass/fail. Applicants with more than three attempts per course without a C grade will not be considered. AP credit is pass/fail; consult your advisor for approved AP course credit and score conversions.

Program Requirements

Total Credits Required In Program Coursework
52

Total Credits Required To Earn This Credential
120

Simple Requisites

Program Requirements

- Earn a grade of C or better in all prerequisites and a B- or better for all NURS courses. Courses may *not* be taken on a pass/fail basis.
- Maintain a minimum GPA of 2. 67 in major courses.
- Maintain a 2.0 overall GPA.
- Maintain a minimum exam average of 79. 5%, and a B- or better in all NURS courses. Students will receive the lesser of the exam average or the overall course average as the course grade.

After acceptance to the USU BSN program, students will be given instructions on how to submit the results of a background check, a negative drug screen, Basic Life Support (BLS) certification, CNA or MA certificate/degree, and proof of required immunizations per program policy.

Prerequisites Required for Admission to Program

Type
Completion Requirement

Application for Entry

Fulfill ALL of the following requirements:

Required Prerequisites

These prerequisite courses require a minimum grade of C and 2. 0 overall GPA for program application.

Earn a minimum grade of C in the following:

- BIOL2060 - Elementary Microbiology - 4cr.
- BIOL2320 - Human Anatomy - 4cr.
- BIOL2420 - Human Physiology - 4cr.
- CHEM1130 - General, Organic, & Biological Chemistry - 4cr.
- CHEM1135 - General, Organic, and Biological Chemistry Lab - 1cr.

NOTE:

1. BIOL2420 HUMAN PHYSIOLOGY - Must be completed within 5 years of BSN program entry.

AND

Required Prerequisites with Time Limitations

These prerequisites require a minimum C and 2. 0 overall GPA and **must be completed prior to starting the program.**

Earn a minimum grade of C in the following:

- HDFS1500 - Human Development Across the Lifespan (BSS) - 3cr.
- NDFS1020 - Science and Application of Human Nutrition (BLS) - 3cr.
- STAT1040 - Introduction to Statistics (QL) - 3cr.
  OR STAT1045 - Introduction to Statistics with Elements with Algebra (QL) - 5cr.
  OR STAT1080 - Foundations of Data Science (QL) - 3cr.
- NURS2500 - Pathophysiology for Nursing - 3cr.
  OR BIOL2520 - Pathophysiology - 3cr.

NOTE:

1. NURS2500 PATHOPHYS NURSING - Must pass the class with a B- or better and an overall test average of 79.5% or better.
2. BIOL2520 PATHOPHYSIOLOGY - Must pass the class with a B- or better and an overall test average of 79.5% or better.

Nursing - BSN Major Requirements

Type
Completion Requirement

Prerequisite Courses (29-31 credits)

Complete ALL of the following Courses:

- BIOL2060 - Elementary Microbiology - 4cr.
- BIOL2320 - Human Anatomy - 4cr.
- BIOL2420 - Human Physiology - 4cr.
- CHEM1130 - General, Organic, & Biological Chemistry - 4cr.
- CHEM1135 - General, Organic, and Biological Chemistry Lab - 1cr.
- HDFS1500 - Human Development Across the Lifespan (BSS) - 3cr.
- NDFS1020 - Science and Application of Human Nutrition (BLS) - 3cr.
- STAT1040 - Introduction to Statistics (QL) - 3cr.
  OR STAT1045 - Introduction to Statistics with Elements with Algebra (QL) - 5cr.
  OR STAT1080 - Foundations of Data Science (QL) - 3cr.
- NURS2500 - Pathophysiology for Nursing - 3cr.
  OR BIOL2520 - Pathophysiology - 3cr.

NOTE:

1. NURS2500 PATHOPHYS NURSING - Must pass the class with a B- or better and an overall test average of 79.5% or better.
2. BIOL2520 PATHOPHYSIOLOGY - Must pass the class with a B- or better and an overall test average of 79.5% or better.

Nursing Core Courses (53 credits)

Earn a minimum grade of B- in the following:

- NURS3010 - Nursing Health Assessment, Teaching, & Skills - 2cr.
- NURS3020 - Fundamentals of Nursing - 2cr.
- NURS3025 - Fundamentals of Nursing Practicum - 2cr.
- NURS3030 - Nursing Management of Care I - 4cr.
- NURS3035 - Nursing Management of Care I Practicum - 3cr.
- NURS3040 - Pharmacology in Health Care - 3cr.
- NURS3200 - Psychiatric Mental Health Nursing - 3cr.
- NURS3210 - Population Health and Prevention (CI) - 3cr.
- NURS3215 - Population Health and Prevention Practicum - 2cr.
- NURS3220 - Family Nursing through the Lifespan - 4cr.
- NURS3225 - Family Nursing through the Lifespan Practicum - 2cr.
- NURS3230 - Evidence-Based Health Care (QI) - 3cr.
- NURS3240 - Health Information Management and Technology - 2cr.
- NURS4010 - Leadership, Management, and Policy in Health Care (CI) - 3cr.
- NURS4020 - Nursing Management of Care II - 4cr.
- NURS4025 - Nursing Management of Care II Practicum - 4cr.
- NURS4210 - Nursing Capstone - 2cr.
- NURS4215 - Nursing Capstone Practicum - 4cr.

Open Electives

Complete the following as needed:

Total elective credits are determined by completed General Education and University Study credits, prerequisites, and Nursing major credits. Please consult your Academic Advisor for details.

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Bachelor's Degree)

Suggested Degree Maps

Degree Map Name
Suggested Degree Map - Nursing BSN
Total Degree Map Credits
120 - 123
Degree Map Effective Catalog Year
2027 -

Degree Map Narrative

- Following is a sample four-year plan. Please note that student-specific plans may differ.
- Meet with an academic advisor to create a specific plan that best fits your academic needs.
- The student is ultimately responsible for knowing and completing all degree requirements.
- Make sure you meet the registration requirements for each class by clicking the course link and checking any prerequisites or corequisites.
- Consultation with an advisor may result in an altered plan customized for an individual student.
- Check your Degree Works for requirements and completion.

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	15 - 17	0

Requirement Select
- BIOL 1010 is recommended, but not required if AP Biology or college-level anatomy & physiology has been completed. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- BIOL1010 - Biology and the Citizen (BLS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- ENGL1010 - Writing as Inquiry (CL1)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- HDFS1500 - Human Development Across the Lifespan (BSS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- STAT1040 - Introduction to Statistics (QL)
  OR
- STAT1045 - Introduction to Statistics with Elements with Algebra (QL)
  OR
- STAT1080 - Foundations of Data Science (QL)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 5
Progress Credits	-
Contact Hours	3 - 5
Clinical	-
Criticality	No

Requirement Select
- USU1010 - University Connections

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select
- Elective (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	15	0

Requirement Select
- BIOL2320 - Human Anatomy

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- ENGL2010 - Research and Argument Across Perspectives (CL2)

  OR
- ENGL2020 - Professional Communication (CL2)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Breadth Creative Arts (BCA) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- CHEM1130 - General, Organic, & Biological Chemistry

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- CHEM1135 - General, Organic, and Biological Chemistry Lab

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	15	0

Requirement Select
- BIOL2060 - Elementary Microbiology

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- BIOL2420 - Human Physiology

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- Breadth American Institutions (BAI) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Breadth Humanities (BHU) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	15	0

Requirement Select
- Apply to the USU BSN program. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- NURS2500 - Pathophysiology for Nursing
  OR
- BIOL2520 - Pathophysiology

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- NDFS1020 - Science and Application of Human Nutrition (BLS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Breadth Physical Sciences (BPS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Fall	15	0

Requirement Select
- NURS3020 - Fundamentals of Nursing

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select
- NURS3025 - Fundamentals of Nursing Practicum

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select
- NURS3030 - Nursing Management of Care I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- NURS3035 - Nursing Management of Care I Practicum

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- NURS3040 - Pharmacology in Health Care

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Elective (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Spring	16	0

Requirement Select
- NURS3010 - Nursing Health Assessment, Teaching, & Skills

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select
- NURS3200 - Psychiatric Mental Health Nursing

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- NURS3210 - Population Health and Prevention (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- NURS3215 - Population Health and Prevention Practicum

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select
- NURS3220 - Family Nursing through the Lifespan

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- NURS3225 - Family Nursing through the Lifespan Practicum

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Fall	15	0

Requirement Select
- See advisor for graduation applications. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- NURS3230 - Evidence-Based Health Care (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- NURS4020 - Nursing Management of Care II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- NURS4025 - Nursing Management of Care II Practicum

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- Depth Social Sciences (DSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Spring	14 - 15	0

Requirement Select
- NURS3240 - Health Information Management and Technology

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select
- NURS4010 - Leadership, Management, and Policy in Health Care (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- NURS4210 - Nursing Capstone

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select
- NURS4215 - Nursing Capstone Practicum

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- Depth Humanities and Creative Arts (DHA) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2 - 3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Elective (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Program Learning Outcomes

Program Learning Outcomes

https://cehs.usu.edu/about/assessment

Nursing: RN to BSN - BS (Online Program)

Program Overview

College	Department	Program Level
College of Education & Human Services	Nursing	Undergraduate

About this Degree

Students build on their Associate Degree in Nursing to become outstanding nurses through relevant coursework with the advantage of a flexible schedule. In the RN to BSN program, students continue to practice critical thinking, and apply clinical reasoning to make decisions, manage healthcare resources, apply leadership and management skills, and gain additional experience in community and public health settings.

The RN to BSN Completion curriculum of study includes professional nursing practice, population health, evidence-based health care, health informatics, care of the aging adult, advanced health assessment, leadership, management and policy, health care trends and issues, and a final capstone experience.

- For more information about the Nursing - RN to BSN (online program), visit the Nursing website.
- *Associate degree graduates may need to take additional courses to satisfy all general education and depth requirements.*
- All admitted and current students are required to meet with theRNtoBSN advisor.
- Log on to Degree Works to check student-specific program progress.
- The highest math requirement for this degree is the Quantitative Literacy (QL).

Admission Requirements for this Program

USU's RN to BSN program is an entirely online program that admits up to 45 students twice each year.

Applications are available on the Department of Nursing website and will be submitted online. Application dates are as follows:

- Fall semester admission: January 1 - March 31
- Spring semester admission: June 1 - August 31

Required qualifications for admission include:

- Current, unencumbered RN licensure. If currently enrolled in an RN program, submit your RN license by the first day of your first semester in the RN to BSN program.
- Minimum GPA of 2.67
- Graduation from an accredited associate degree RN program (ACEN or other U.S. Department of Education approved nursing program)
    - Minimum of 63 earned credits.
- Submission of all required application materials by the due date listed for the preferred semester.
- Submission of all official transcripts of previous education to the USU Logan campus Registrar's office.

Program Requirements

Total Credits Required In Program Coursework	Total Credits Required To Earn This Credential
27	120

Simple Requisites

Program Requirements

Students must achieve a grade of B- or higher in all RN to BSN required courses. All bachelor's degree requirements must be completed for the BSN degree. Students should contact the RN to BSN advisor for information and assistance in mapping their plan.

Nursing: RN to BSN - BS (Online Program)

Type

Completion Requirement

Required Courses (27 credits)

Complete ALL of the following Courses:

- NURS3000 - Professional Nursing Practice - 2cr.
- NURS3210 - Population Health and Prevention (CI) - 3cr.
- NURS3215 - Population Health and Prevention Practicum - 2cr.
- NURS3230 - Evidence-Based Health Care (QI) - 3cr.
- NURS3240 - Health Information Management and Technology - 2cr.
- NURS3300 - Advanced Health Assessment and Promotion - 2cr.
- NURS4010 - Leadership, Management, and Policy in Health Care (CI) - 3cr.
- NURS4100 - Nursing Care of Aging Adults - 2cr.
- NURS4210 - Nursing Capstone - 2cr.
- NURS4215 - Nursing Capstone Practicum - 4cr.
- NURS4300 - Issues and Trends in Health Care - 2cr.

Total elective credit is determined by General Education courses taken, degree type selected, additional credits earned, and any additional math or other prerequisite courses needed. Please consult your Academic Advisor for details.

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Bachelor's Degree)

Suggested Degree Maps

Degree Map Name
Suggested Degree Map - Nursing RN to BSN (online program)
Total Degree Map Credits
27
Degree Map Effective Catalog Year
2027 -

Degree Map Narrative

- Following is a sample of a recommended three-semester plan. Please note that student-specific plans may differ.
- Meet with an academic advisor to create, alter, or customize a specific plan that best fits your individual academic needs, which could be a 2-6 semester plan. This could mean completion of any general education requirements, depth education requirements, or unmet bachelor's degree requirements.
- The student is ultimately responsible for knowing and completing all degree requirements.
- Make sure you meet the registration requirements for each class by clicking the course link and checking any prerequisites or corequisites.
- Check your Degree Works for requirements and completion.

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	8	0

Requirement Select

- NURS3000 - Professional Nursing Practice

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select

- Taken the 1st 7 weeks (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- NURS3240 - Health Information Management and Technology

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select

- Taken the 2nd 7 weeks (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- NURS3300 - Advanced Health Assessment and Promotion

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select
- Taken the 1st 7 weeks (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- NURS4100 - Nursing Care of Aging Adults

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select
- Taken the 2nd 7 weeks (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Register for any unmet general education requirements or depth education requirements. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	11	0

Requirement Select
- NURS3210 - Population Health and Prevention (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- NURS3215 - Population Health and Prevention Practicum

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select
- NURS3230 - Evidence-Based Health Care (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- NURS4010 - Leadership, Management, and Policy in Health Care (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Register for any unmet general education requirements or depth education requirements (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	8	0

Requirement Select

- NURS4210 - Nursing Capstone

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select

- NURS4215 - Nursing Capstone Practicum

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- NURS4300 - Issues and Trends in Health Care

Course Requirement Group	
Course Requirement Group (Free Text)	Taken the 2nd 7 weeks
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select

- Any unmet General Education or University Studies Requirement (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Program Learning Outcomes

Program Learning Outcomes

https://cehs.usu.edu/about/assessment

Outdoor Adventure Leadership - Minor

Program Overview

College
College of Education & Human Services

Department
Kinesiology and Health Science

Program Level
Undergraduate

About this Degree

The outdoor adventure leadership minor equips students with the skills and knowledge to pursue entry-level positions in outdoor recreation settings, such as river guiding in Moab, managing a climbing expedition company in Jackson Hole, or teaching skiing in Park City. Through hands-on experience leading and guiding individuals and groups in a range of outdoor environments, including mountains, rivers, lakes, and deserts, students gain practical knowledge and expertise in outdoor recreation.

Admission Requirements for this Program

- New freshmen, transfer students, and students from other USU majors who have at least a 2.0 overall GPA qualify to declare the Outdoor Adventure Leadership minor.

Program Requirements

Total Credits Required In Program Coursework
16

Total Credits Required To Earn This Credential
16

Simple Requisites

Program Requirements

- A 2.0 overall GPA is required to receive the minor upon graduation with a bachelor's degree.
- A grade of **C** or better is required for all courses taken for the minor, and a **minimum GPA of 2.5** is required for all **minor coursework**. Coursework cannot be taken for a pass/fail grade, except for P. E. courses and other courses graded pass/fail.

Section 1

Type
Completion Requirement

Required Courses (14 credits)

Complete ALL of the following Courses:

- PE1543 - Wilderness First Aid - 1cr.
- RAM1700 - Backcountry Basics: Designing a Backcountry Experience - 3cr.
- RAM2250 - RAM Cooperative Work Experience - 4cr.
- RAM2500 - Outdoor Recreation Management - 3cr.
- RAM3400 - Outdoor Education and Facilitation - 3cr.

Section 2

Type
Completion Requirement

Outdoor Adventure Lifetime Activity Electives (2 credits required)

- Must complete 2 credits of Outdoor Adventure Lifetime Activity Courses.
- Choose 2 credits from RAM5900 INDEPENDENT STUDY - **Independent Study** or **PE-prefix courses ranging from 1505 to 1615 (course numbers).** PE courses teach outdoor adventure activities.

Complete at least 2 of the following courses:

- RAM5900 - Independent Study - 1cr.
- PE1505 - Kayaking - 1cr.
- PE1507 - Swiftwater Safety - 2cr.
- PE1508 - River Guide Preparation - 3cr.
- PE1509 - River Running I - 1cr.
- PE1510 - Fly Fishing - 1cr.
- PE1511 - Fly Tying Beginning - 1cr.
- PE1512 - Fly Tying Intermediate - 1cr.
- PE1513 - Fly Casting - 1cr.
- PE1514 - Fly Rod Building - 1cr.
- PE1520 - Hiking - 1cr.
- PE1527 - Rock Climbing: Basic - 1cr.
- PE1528 - Advanced Rock Climbing - 1cr.
- PE1530 - Bouldering - 1cr.
- PE1544 - Wilderness First Responder - 3cr.
- PE1547 - Avalanche AIARE 1 (Avy 1) - 2cr.
- PE1548 - Avalanche AIARE 2 (AVY 2) Course - 2cr.
- PE1549 - AIARE Avalanche Rescue - 1cr.
- PE1550 - Cycling - 1cr.
- PE1565 - SKATING - 1cr.
- PE1580 - Canyoneering I - 1cr.
- PE1605 - Skiing - 1cr.
- PE1615 - Snowboarding - 1cr.

Program Learning Outcomes

Program Learning Outcomes

https://cehs.usu.edu/khs/assessment

Outdoor Adventure Leadership - Certificate

Program Overview

College
College of Education & Human Services

Department
Kinesiology and Health Science

Program Level
Undergraduate

About this Degree

This certificate aims to create a community of highly skilled, knowledgeable, and safety-conscious leaders. Graduates will be poised to enter the outdoor adventure industry with a robust skill set that includes not only effective leadership but also a deep commitment to safety and ethical considerations. The program is designed to be both academically rigorous and experientially enriching, preparing students for socially and environmentally responsible roles in the field of outdoor adventure.

Program Requirements

Total Credits Required In Program Coursework
16

Total Credits Required To Earn This Credential
16

Simple Requisites

Program Requirements

The Certificate is available to all majors.

- Cumulative Number of Required Credits: 16
- Cumulative Minimum GPA in **Certificate Coursework** for Graduation: **2.5 GPA**
- Courses may not be taken on a pass/fail basis except for those courses that are only taught pass/fail

Outdoor Adventure Leadership - Certificate

Type
Completion Requirement

Required Core Courses (14 credits)

Complete ALL of the following Courses:

- PE1543 - Wilderness First Aid - 1cr.
- RAM1700 - Backcountry Basics: Designing a Backcountry Experience - 3cr.
- RAM2250 - RAM Cooperative Work Experience - 4cr.
- RAM2500 - Outdoor Recreation Management - 3cr.
- RAM3400 - Outdoor Education and Facilitation - 3cr.

Required Elective Courses (2 credits)

Students must choose **two credits from either** RAM5900 INDEPENDENT STUDY **- Independent Study or Physical Education (PE) Activity courses** from a range of options focusing on outdoor recreation skills **(PE 1505-1615)**.

Complete at least 2 of the following courses:

- RAM5900 - Independent Study - 1cr.
- PE1505 - Kayaking - 1cr.
- PE1507 - Swiftwater Safety - 2cr.
- PE1508 - River Guide Preparation - 3cr.
- PE1509 - River Running I - 1cr.
- PE1510 - Fly Fishing - 1cr.
- PE1511 - Fly Tying Beginning - 1cr.
- PE1512 - Fly Tying Intermediate - 1cr.
- PE1513 - Fly Casting - 1cr.
- PE1514 - Fly Rod Building - 1cr.
- PE1520 - Hiking - 1cr.
- PE1527 - Rock Climbing: Basic - 1cr.
- PE1528 - Advanced Rock Climbing - 1cr.
- PE1530 - Bouldering - 1cr.
- PE1544 - Wilderness First Responder - 3cr.
- PE1547 - Avalanche AIARE 1 (Avy 1) - 2cr.
- PE1548 - Avalanche AIARE 2 (AVY 2) Course - 2cr.
- PE1549 - AIARE Avalanche Rescue - 1cr.
- PE1550 - Cycling - 1cr.
- PE1580 - Canyoneering I - 1cr.
- PE1605 - Skiing - 1cr.
- PE1615 - Snowboarding - 1cr.

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Undergraduate Academic or Technical Certificates)

Program Learning Outcomes

Program Learning Outcomes

https://cehs.usu.edu/about/assessment

Outdoor Product Design and Development - BS

Program Overview

College
College of Agriculture & Natural Resources

Department
Technology, Design & Technical Ed

Program Level
Undergraduate

About this Degree

The **Outdoor Product Design and Development** program prepares students for exciting careers in the sports, outdoor, and active industries by creating innovative, sustainable, and impactful products.

As the first bachelor's degree of its kind, this hands-on program integrates industrial design, engineering, digital design, fashion, sustainability, marketing, business, and supply chain management—key elements in consumer product development.

Bringing products to market requires collaboration between designers, developers, product line managers, engineers, and others. After a series of foundational courses, students can specialize in one of three emphasis areas:

Design Emphasis: Master the design process, user research, idea visualization, and CAD modeling techniques to develop products conceptually and as producible prototypes.

Development Emphasis: Focus on project management, production, supply chain, and operations to turn concepts into market-ready products.

Product Line Management Emphasis: Learn leadership, market research, and product planning to manage costs, schedules, and successful product launches.

- For more information about Outdoor Product Design and Development, see the website
- Admitted and current students must meet with an advisor.
- Log on to Degree Works to check student-specific program progress.
- The highest math requirement for this degree is emphasis specific: Any Quantitative Literacy (QL)

Admission Requirements for this Program

- **New Freshmen:** Must be admitted to USU in Good Standing.
- **Transfer Students from other institutions or programs:** Minimum 2.67 GPA.
- **Matriculation:** All Outdoor Product Design and Development (OPDD) students must apply for acceptance into the Design, Development, or Product Line Management program after completing core courses and submitting an advancement package in their sophomore year.

Program Requirements

Total Credits Required In Program Coursework
68

Total Credits Required To Earn This Credential
120

Simple Requisites

Program Requirements

***Advancement Package or Portfolio Requirements for Matriculation* To matriculate into the Professional Program (final two years), all Outdoor Product Design, Development, and Product Line Management students must meet the following criteria:**

- **Overall GPA:** 2.67
- **GPA in OPDD Core Courses:** 3.0
- **Minimum Grade:** C or better in core OPDD courses
- **Electives**
- Students receive advancement guidelines in OPDD2710
- Students must apply to submit their portfolio by **5 PM MST** on the last day of Fall classes.
- The Advancement Package or Portfolio submission is due by **5 PM MST** the Friday before Spring Break.
- A minimum grade of **C** is required for all Pre-Professional courses.
- No more than **2 retakes** are allowed in the Pre-Professional program.
    - Retakes include multiple repeats of the same course and audits.
- The **pass/fail grading option** cannot be used for required or elective Pre-Professional courses (though it is allowed for University Studies courses).

For more information, please consult the OPDD academic advisor and visit opdd.usu.edu

Professional Program Requirements:

Students are admitted to the OPDD Professional Program only in the fall semester and must follow the designated course sequence as outlined in the 4-year program of study.

- Due to class capacities, OPDD courses cannot be repeated or taken out of sequence.
- Students who do not follow the prescribed sequence of OPDD courses in the 4-year program of study must reapply to complete the major.
- Design emphasis students who do not take studio courses in order must reapply to complete the studio sequence. No more than **3 credit hours** of D, D+, or C- grades can count toward graduation requirements.
- **No repeats** allowed in Professional Program courses.
- Studio courses cannot be repeated; students receiving an F must reapply to complete the program.
- The **pass/fail grading option** is not permitted for required or elective courses in the Professional Program (it is allowed for University Studies courses).
- Leave of absence requests for military service, medical conditions, or extenuating circumstances will be reviewed by OPDD faculty.

For more information about Outdoor Product Design and Development, see the website

Admitted and current students must meet with an advisor.

Log on to Degree Works to check student-specific program progress.

Software Requirements

Students will need access to the following software programs by either purchasing their own or using a campus computer lab. It is strongly suggested that they meet with faculty before purchases are made as changes could occur.

- Adobe Illustrator
- Adobe Photoshop
- Keyshot
- Rhinoceros 3-D

- Solidworks (optional)

Outdoor Product Design and Development - BS

Type
Completion Requirement

OPDD Required Core Courses (31 credits)

Students will need the following courses with a C or better to submit a portfolio:

Fulfill ALL of the following requirements:

Lower-level OPDD Technical Electives

Complete at least 2 of the following courses:

- TESY1030 - Material Processing Systems - 3cr.
- FCSE1040 - Introductory Sewing - 3cr.
- TESY1200 - Computer-Aided Drafting and Design - 3cr.
- TEE2030 - Wood-Based Manufacturing Systems - 3cr.
- FCSE2040 - Intermediate Clothing Construction Skills, Principles, and Alterations - 3cr.
- OPDD2050 - Intermediate Soft Goods Gear Construction & Development - 3cr.

AND

Outdoor Product Design and Development Core Courses

Complete ALL of the following Courses:

- OPDD1000 - Product Concept Sketching - 3cr.
- OPDD1010 - Introduction to Digital Visualization - 3cr.
- OPDD1050 - Fundamentals of Design - 3cr.
- OPDD1100 - Introduction to Product Creation - 3cr.
- OPDD1750 - History of Outdoor Products (BHU) - 3cr.
- OPDD2000 - From Insight to Innovation: Design Research Foundations - 3cr.
- OPDD2010 - Form Development - 3cr.
- OPDD2710 - Outdoor Product Design& Development Professional Seminar - 1cr.
- OPDD2420 - Digital Technologies for 2-D Design - 3cr.
- OPDD2430 - Digital Technologies for 3-D Design - 3cr.

Undergraduate students must matriculate (be accepted) to the program. Matriculation is based on required core courses along with an advancement package or portfolio of work. Matriculation advancement packages or portfolios will be submitted spring of the student's sophomore year.

Additional Required Courses (17-18 credits)

These courses will be taken after admission into the OPDD program. Courses require a grade of C or better.

Complete ALL of the following Courses:

- FCSE3030 - Textile Science (DSC/QI) - 4cr.
  OR CCA3070 - Unveiling the Anthropocene (DSC/QI) - 3cr.
- OPDD3030 - Design Thinking, Methods, and Materials (CI) - 3cr.
- OPDD3500 - Applied Material Science - 3cr.
- OPDD3600 - Sustainable Design and Operations - 3cr.
- OPDD3700 - Outdoor Product Design & Development Professional Seminar II - 1cr.
- OPDD4040 - Outdoor Product Testing & Research - 3cr.
- OPDD4770 - Senior Exhibit - 1cr.

Design Emphasis (24 credits)

Fulfill ALL of the following requirements:

QL Requirement

Requires a C- or better

Complete at least 1 course in the following course sets:

- Quantitative Literacy (QL) Course

AND

BPS Requirement

Complete at least 1 of the following courses:

- CHEM1010 - Introduction to Chemistry (BPS) - 3cr.
  OR PHYS1010 - Elementary Physics (BPS) - 3cr.
  OR PHYS1200 - Introduction to Physics by Hands-on Exploration (BPS) - 4cr.
  OR PHYS1800 - Physics of Technology (BPS) - 4cr.

AND

Design Emphasis Required Courses

Requires a grade of C or better

Complete ALL of the following Courses:

- OPDD3400 - Color Theory & Design - 3cr.
- OPDD3760 - Outdoor Product Design and Development Studio I - 3cr.
- OPDD3800 - Advanced Digital Visualization - 3cr.
- OPDD4440 - Aesthetics and Brand Identity - 3cr.
- OPDD4750 - Senior Design Studio I - 3cr.
- OPDD4760 - Senior Design Studio II - 3cr.
- OPDD4770 - Senior Exhibit - 1cr.
- OPDD Technical Electives (6 - 9credits required)
- An OPDD Technical Elective course can be taken as an alternative to OPDD 3400, see advisor for more information

Development Emphasis (27 credits)

Courses require a grade of C or better.

Fulfill ALL of the following requirements:

QL Requirement

Complete at least 1 course in the following course sets:

- Quantitative Literacy (QL) Course

AND

BPS Requirement

Complete ALL of the following Courses:

- CHEM1010 - Introduction to Chemistry (BPS) - 3cr.
  OR PHYS1010 - Elementary Physics (BPS) - 3cr.
  OR PHYS1200 - Introduction to Physics by Hands-on Exploration (BPS) - 4cr.
  OR PHYS1800 - Physics of Technology (BPS) - 4cr.

AND

Development Emphasis Required Courses:

Complete ALL of the following Courses:

- DATA1100 - Excel for Business Analysis - 1cr.
- MGT3700 - Operations Management - 3cr.
- MGT4790 - Managing Global Value Chains - 2cr.
- MGT4720 - Sales and Operations Planning - 2cr.
  OR ITLS4110 - Project and Product Management - 3cr.
- OPDD4250 - Outdoor Product Design and Development Industry Experience - 1cr.
  OR OPDD4900 - Senior Project Research and Creative Opportunity - 3cr.
- TESY4330 - Product Innovation Processes, Tools, and Strategies - 3cr.

- OPDD Technical Electives (15 credits required)

grade of B- or better is required in MGT3700 OPERATIONS MGMT
3 credits required in OPDD4250 OUTDOOR INDUSTRY EXPERIENCE

Product Line Management Emphasis (27 credits)

Fulfill ALL of the following requirements:

QL Requirement

Requires a C- or better

Complete at least 1 course in the following course sets:

- Quantitative Literacy (QL) Course

AND

BPS Requirement

Complete at least 1 of the following courses:

- CHEM1010 - Introduction to Chemistry (BPS) - 3cr.
  OR PHYS1010 - Elementary Physics (BPS) - 3cr.
  OR PHYS1200 - Introduction to Physics by Hands-on Exploration (BPS) - 4cr.
  OR PHYS1800 - Physics of Technology (BPS) - 4cr.

AND

Product Line Management Emphasis Required Courses

Requires a C or better

Complete ALL of the following Courses:

- DATA1100 - Excel for Business Analysis - 1cr.
- FIN3200 - Corporate Finance (QI) - 3cr.
- MSLE3500 - Fundamentals of Marketing - 3cr.
- MSLE3855 - Sustainability Marketing - 2cr.
- MSLE3620 - Marketing Research and Analytics - 2cr.
- MSLE4510 - Consumer Behavior - 2cr.
- MSLE4590 - Marketing Strategy - 3cr.
- OPDD3400 - Color Theory & Design - 3cr.
- OPDD4440 - Aesthetics and Brand Identity - 3cr.
- OPDD4250 - Outdoor Product Design and Development Industry Experience - 1cr.
  OR OPDD4900 - Senior Project Research and Creative Opportunity - 3cr.

- OPDD Technical Electives (6-9 credits required)

- An OPDD Technical Elective course can be taken as an alternative to OPDD 3400, see advisor for more information

grade of B or better required in MSLE3500 FUND OF MARKETING
3 credits are required in OPDD4250 OUTDOOR INDUSTRY EXPERIENCE

Technical Elective Courses

OPDD Technical Elective requirements determined by emphasis: design emphasis (6 credits), development emphasis (15 credits), product line management (6 credits).

Earn at least 6 credits from the following:

- ASTE3030 - Metal Fabrication for Agriculture and Natural Resource Industries - 3cr.
- FCSE3040 - Advanced Clothing Studies: Patternmaking - 3cr.
- FCSE3080 - Fashion Studies and Society (DHA) - 3cr.
- FCSE3140 - Digital Patternmaking for Apparel - 3cr.
- FCSE4030 - Textiles and Technology - 3cr.
- FCSE4040 - Advanced Apparel Studies - 3cr.
- FCSE4140 - Advanced Apparel Design - 3cr.
- OPDD2050 - Intermediate Soft Goods Gear Construction & Development - 3cr.
- OPDD3800 - Advanced Digital Visualization - 3cr.
- OPDD3810 - Performance Wear - 3cr.
- OPDD3820 - Equipment Design - 3cr.
- OPDD3900 - Special Problems in Outdoor Product Design and Development - 1cr.
- OPDD4240 - Advanced Gear Design - 3cr.
- OPDD4510 - Footwear Concepts - 3cr.
- TEE4320 - Advanced Applications in Woods and Composites - 3cr.
- TESY3030 - Computer-Integrated Manufacturing Systems - 3cr.
- TESY3200 - Additive Manufacturing I - 3cr.
- TESY3270 - Advanced Computer-Aided Drafting - 3cr.
- TESY4230 - Advanced Materials and Processing Systems - 3cr.
- TESY4300 - Intellectual Property for Product Developers - 3cr.
- TESY4330 - Product Innovation Processes, Tools, and Strategies - 3cr.
- OPDD4250 - Outdoor Product Design and Development Industry Experience - 1cr.
  OR OPDD4900 - Senior Project Research and Creative Opportunity - 3cr.

In the OPDD Development and Product Line Management tracks, 3 credits are required in OPDD4250 OUTDOOR INDUSTRY EXPERIENCE or OPDD4900 SENIOR PROJECT RESEARCH

Open Electives

Complete the following as needed:
Total elective credit is determined by General Education courses taken, degree type selected, additional credits earned, and any additional math or other prerequisite courses needed. Please consult your Academic Advisor for details.

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Bachelor's Degree)

Suggested Degree Maps

Degree Map Name
Suggested Degree Maps - Outdoor Product Design and Development: Design Track, BS
Total Degree Map Credits

113 - 137

Degree Map Effective Catalog Year

2027 -

Degree Map Narrative

- Following is a sample four-year plan. Please note that student-specific plans may differ.
- Meet with an academic advisor to create a specific plan that best fits your academic needs.
- The student is ultimately responsible for knowing and completing all degree requirements.
- Make sure you meet the registration requirements for each class by clicking the course link and checking any prerequisites or corequisites.
- Consultation with an advisor may result in an altered plan customized for an individual student.
- Check your Degree Works for requirements and completion.

Students need a minimum C grade in required core courses

Advancement Package or Portfolio is due spring semester of second year.

PORTFOLIO REQUIREMENTS: ***All design, development, and product line management students MUST apply to matriculate into the Professional Program (final two years). To apply to matriculate a student must have a 2.67 overall GPA, a 3.0 minimum OPDD GPA, with a C or better in the OPDD core courses, and two of the following lower-level OPDD technical elective courses. Students must apply to submit an advancement package or portfolio 5 PM MST the last day of Fall classes. Students submission of advancement package or portfolio is due by 5 pm MST the Friday before Spring Break.***

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	15 - 16	0

Requirement Select

- Breadth Creative Arts (BCA) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- OPDD1000 - Product Concept Sketching

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- OPDD1100 - Introduction to Product Creation

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Quantitative Literacy (QL) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- OPDD1010 - Introduction to Digital Visualization

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Any QL course will be accepted, but STAT preferred; minimum C- grade required (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	15	0

Requirement Select

- ENGL1010 - Writing as Inquiry (CL1)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- OPDD1050 - Fundamentals of Design

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- OPDD2420 - Digital Technologies for 2-D Design

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- OPDD2010 - Form Development

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Breadth American Institutions (BAI) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	13 - 15	0

Requirement Select

- CHEM1010 - Introduction to Chemistry (BPS)
  OR
- PHYS1010 - Elementary Physics (BPS)
  OR
- PHYS1200 - Introduction to Physics by Hands-on Exploration (BPS)
  OR
- PHYS1800 - Physics of Technology (BPS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 4
Progress Credits	-
Contact Hours	3 - 4
Clinical	-
Criticality	No

Requirement Select

- OPDD2430 - Digital Technologies for 3-D Design

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- OPDD2710 - Outdoor Product Design& Development Professional Seminar

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- Breadth Social Sciences (BSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Lower-level OPDD Technical Elective (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- OPDD2000 - From Insight to Innovation: Design Research Foundations

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- A minimum grade of C is required in OPDD2430 (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	15 - 16	0

Requirement Select

- ENGL2010 - Research and Argument Across Perspectives (CL2)

  OR
- ENGL2020 - Professional Communication (CL2)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- OPDD1750 - History of Outdoor Products (BHU)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Breadth Life Sciences (BLS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Lower-level OPDD Technical Elective (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Elective (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- **Portfolio Due** (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Fall	14	0

Requirement Select

- OPDD3030 - Design Thinking, Methods, and Materials (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- OPDD3400 - Color Theory & Design

  OR
- OPDDTECH - OPDD Technical Elective

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- OPDD3700 - Outdoor Product Design & Development Professional Seminar II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- OPDD Technical Elective (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Elective (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- OPDD3800 - Advanced Digital Visualization

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Spring	17 - 18	0

Requirement Select

- OPDD3500 - Applied Material Science

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- OPDD3600 - Sustainable Design and Operations

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- OPDD3760 - Outdoor Product Design and Development Studio I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- OPDD Technical Elective (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Elective (2 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- FCSE3030 - Textile Science (DSC/QI)

  OR
- CCA3070 - Unveiling the Anthropocene (DSC/QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 4
Progress Credits	-
Contact Hours	3 - 4
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Fall	9 - 28	0

Requirement Select

- OPDD4750 - Senior Design Studio I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- OPDD Technical Elective (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Communications Intensive (CI) Courses

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	0 - 15
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Depth Social Sciences (DSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	0 - 4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Spring	15	0

Requirement Select
- OPDD4760 - Senior Design Studio II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- OPDD4770 - Senior Exhibit

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- Elective (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective (1 credit) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- OPDD4040 - Outdoor Product Testing & Research

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- OPDD4440 - Aesthetics and Brand Identity

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Degree Map Name
Suggested Degree Maps - Outdoor Product Design and Development: Development Track, BS
Total Degree Map Credits
110 - 137
Degree Map Effective Catalog Year
2027 -

Degree Map Narrative

- Following is a sample four-year plan. Please note that student-specific plans may differ.
- Meet with an academic advisor to create a specific plan that best fits your academic needs.
- The student is ultimately responsible for knowing and completing all degree requirements.
- Make sure you meet the registration requirements for each class by clicking the course link and checking any prerequisites or corequisites.
- Consultation with an advisor may result in an altered plan customized for an individual student.
- Check your Degree Works for requirements and completion.

Students need a minimum C grade in required core courses

Portfolio is due spring semester of second year.

PORTFOLIO REQUIREMENTS: ***All design, development, and product line management students MUST apply to matriculate into the Professional Program (final two years). To apply to matriculate a student must have a 2.67 overall GPA, a 3.0 minimum OPDD GPA, with a C or better in the OPDD core courses, and two of the following lower-level OPDD technical elective courses. Students must apply to submit portfolio 5 PM MST the last day of Fall classes. Students submission of portfolio is due by 5 pm MST the Friday before Spring Break.***

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	15 - 17	0

Requirement Select
- Breadth Creative Arts (BCA) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- OPDD1000 - Product Concept Sketching

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- OPDD1100 - Introduction to Product Creation

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- STAT1040 - Introduction to Statistics (QL)
  OR
- STAT1045 - Introduction to Statistics with Elements with Algebra (QL)
  OR
- STAT1080 - Foundations of Data Science (QL)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 5
Progress Credits	-
Contact Hours	3 - 5
Clinical	-
Criticality	No

Requirement Select

- OPDD1010 - Introduction to Digital Visualization

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	15	0

Requirement Select

- ENGL1010 - Writing as Inquiry (CL1)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- OPDD1050 - Fundamentals of Design

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- OPDD2420 - Digital Technologies for 2-D Design

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- OPDD2010 - Form Development

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Breadth American Institutions (BAI) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	13 - 15	0

Requirement Select

- CHEM1010 - Introduction to Chemistry (BPS)
  OR
- PHYS1010 - Elementary Physics (BPS)
  OR
- PHYS1200 - Introduction to Physics by Hands-on Exploration (BPS)
  OR
- PHYS1800 - Physics of Technology (BPS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 4
Progress Credits	-
Contact Hours	3 - 4
Clinical	-
Criticality	No

Requirement Select

- OPDD2430 - Digital Technologies for 3-D Design

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- OPDD2710 - Outdoor Product Design& Development Professional Seminar

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- Breadth Social Sciences (BSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Lower-level OPDD Technical Elective (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- OPDD2000 - From Insight to Innovation: Design Research Foundations

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- A minimum grade of C is required in OPDD2430 (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	15 - 16	0

Requirement Select

- ENGL2010 - Research and Argument Across Perspectives (CL2)

  OR

- ENGL2020 - Professional Communication (CL2)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- OPDD1750 - History of Outdoor Products (BHU)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Breadth Life Sciences (BLS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Lower-level OPDD Technical Elective (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- **Advancement Package Due** (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Fall	14	0

Requirement Select
- DATA1100 - Excel for Business Analysis

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- MGT3700 - Operations Management

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- OPDD3030 - Design Thinking, Methods, and Materials (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- OPDD3700 - Outdoor Product Design & Development Professional Seminar II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- OPDD Technical Elective (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- OPDD Technical Elective (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Spring	13 - 15	0

Requirement Select
- MGT4720 - Sales and Operations Planning

OR
- ITLS4110 - Project and Product Management

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2 - 3
Progress Credits	-
Contact Hours	2 - 3
Clinical	-
Criticality	No

Requirement Select
- OPDD3500 - Applied Material Science

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- OPDD3600 - Sustainable Design and Operations

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- FCSE3030 - Textile Science (DSC/QI)

OR
- CCA3070 - Unveiling the Anthropocene (DSC/QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 4
Progress Credits	-
Contact Hours	3 - 4
Clinical	-
Criticality	No

Requirement Select
- OPDD Technical Elective (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Fall	12 - 27	0

Requirement Select
- Communications Intensive (CI) Courses

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	0 - 15
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Depth Social Sciences (DSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- TESY4330 - Product Innovation Processes, Tools, and Strategies

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- MGT4790 - Managing Global Value Chains

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select

- OPDD Technical Elective (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Elective (1 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Spring	13 - 18	0

Requirement Select

- OPDD4250 - Outdoor Product Design and Development Industry Experience

  OR

- OPDD4900 - Senior Project Research and Creative Opportunity

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1 - 6
Progress Credits	-
Contact Hours	1 - 6
Clinical	-
Criticality	No

Requirement Select

- OPDD4770 - Senior Exhibit

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- OPDD4040 - Outdoor Product Testing & Research

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- OPDD Technical Elective (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective (1 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Degree Map Name
Suggested Degree Maps - Outdoor Product Design and Development: Product Line Management Track, BS
Total Degree Map Credits
110 - 125
Degree Map Effective Catalog Year
2027 -

Degree Map Narrative

- Following is a sample four-year plan. Please note that student-specific plans may differ.
- Meet with an academic advisor to create a specific plan that best fits your academic needs.
- The student is ultimately responsible for knowing and completing all degree requirements.
- Make sure you meet the registration requirements for each class by clicking the course link and checking any prerequisites or corequisites.
- Consultation with an advisor may result in an altered plan customized for an individual student.
- Check your Degree Works for requirements and completion.

Students need a minimum C grade in required core courses

Portfolio is due spring semester of second year.

PORTFOLIO REQUIREMENTS: ***All design, development, and product line management students MUST apply to matriculate into the Professional Program (final two years). To apply to matriculate a student must have a 2.67 overall GPA, a 3.0 minimum OPDD GPA, with a C or better in the OPDD core courses, and two of the following lower-level OPDD technical elective courses. Students must apply to submit portfolio 5 PM MST the last day of Fall classes. Students submission of portfolio is due by 5 pm MST the Friday before Spring Break.***

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	15 - 17	0

Requirement Select
- Breadth Creative Arts (BCA) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- OPDD1000 - Product Concept Sketching

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- OPDD1100 - Introduction to Product Creation

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- STAT1040 - Introduction to Statistics (QL)
  OR
- STAT1045 - Introduction to Statistics with Elements with Algebra (QL)
  OR
- STAT1080 - Foundations of Data Science (QL)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 5
Progress Credits	-
Contact Hours	3 - 5
Clinical	-
Criticality	No

Requirement Select

- OPDD1010 - Introduction to Digital Visualization

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	15	0

Requirement Select

- ENGL1010 - Writing as Inquiry (CL1)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- OPDD1050 - Fundamentals of Design

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- OPDD2420 - Digital Technologies for 2-D Design

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- OPDD2010 - Form Development

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Breadth American Institutions (BAI) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	13 - 15	0

Requirement Select

- CHEM1010 - Introduction to Chemistry (BPS)
  OR
- PHYS1010 - Elementary Physics (BPS)
  OR
- PHYS1200 - Introduction to Physics by Hands-on Exploration (BPS)
  OR
- PHYS1800 - Physics of Technology (BPS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 4
Progress Credits	-
Contact Hours	3 - 4
Clinical	-
Criticality	No

Requirement Select

- OPDD2430 - Digital Technologies for 3-D Design

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- OPDD2710 - Outdoor Product Design& Development Professional Seminar

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- Breadth Social Sciences (BSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Lower-level OPDD Technical Elective (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- OPDD2000 - From Insight to Innovation: Design Research Foundations

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- A minimum grade of C is required in OPDD2430 (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	15 - 16	0

Requirement Select

- ENGL2010 - Research and Argument Across Perspectives (CL2)

  OR

- ENGL2020 - Professional Communication (CL2)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- OPDD1750 - History of Outdoor Products (BHU)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Breadth Life Sciences (BLS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Lower-level OPDD Technical Elective (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Elective (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- **Advancement Package Due** (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Fall	14	0

Requirement Select

- DATA1100 - Excel for Business Analysis

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- MSLE3500 - Fundamentals of Marketing

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- OPDD3030 - Design Thinking, Methods, and Materials (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- OPDD3400 - Color Theory & Design

  OR
- OPDDTECH - OPDD Technical Elective

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- OPDD3700 - Outdoor Product Design & Development Professional Seminar II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- OPDD Technical Elective (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Spring	14 - 15	0

Requirement Select

- FIN3200 - Corporate Finance (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- OPDD3500 - Applied Material Science

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- OPDD3600 - Sustainable Design and Operations

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- FCSE3030 - Textile Science (DSC/QI)

  OR
- CCA3070 - Unveiling the Anthropocene (DSC/QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 4
Progress Credits	-
Contact Hours	3 - 4
Clinical	-
Criticality	No

Requirement Select

- MSLE3620 - Marketing Research and Analytics

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Fall	11 - 15	0

Requirement Select

- MSLE3855 - Sustainability Marketing

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select
- Communications Intensive (CI) Courses

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- OPDD Technical Elective (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Depth Social Sciences (DSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	0 - 4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- MSLE4510 - Consumer Behavior

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select
- Elective (1 credit) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Spring	13 - 18	0

Requirement Select
- MSLE4590 - Marketing Strategy

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- OPDD4250 - Outdoor Product Design and Development Industry Experience

  OR
- OPDD4900 - Senior Project Research and Creative Opportunity

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1 - 6
Progress Credits	-
Contact Hours	1 - 6
Clinical	-
Criticality	No

Requirement Select
- OPDD4770 - Senior Exhibit

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- OPDD4040 - Outdoor Product Testing & Research

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- OPDD4440 - Aesthetics and Brand Identity

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Elective (1 credit) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Program Learning Outcomes

Program Learning Outcomes

https://www.usu.edu/oda/assessment/

Organizational Communication - Minor

Program Overview

College	Department	Program Level
College of Arts & Sciences	Communication & Media	Undergraduate

About this Degree

About this Minor

The Organizational Communication minor at USU is designed to help students develop a specific set of communication skills to effectively engage in all kinds of organizations, including collaboration, decision-making, conflict, leadership, etc.

This minor is designed to:

- Increase your communication competence in workplace settings.
- Help you understand and explain how communication can positively shape and improve organizations.
- Improve your ability think through communication challenges and come up with effective solutions.

To declare an Organizational Communication minor, students need to contact the department academic advisor.

Students receive a minor by completing twelve Communication Studies (CMST) credits in the required categories. Please make sure to consult regularly with your departmental advisor to confirm what courses will be available and to work out your plan of study.

- Admitted and current students are encouraged to meet with the academic advisor for the program.
- Once declared, log on to Degree Works to check student-specific program progress.

Admission Requirements for this Program

Admission Requirements for this Program

- Students must contact the academic advisor for admission to the major.
- New freshmen must be admitted to USU in Good Standing.
- Transfer students from other institutions or other programs at USU must have a 2.5 GPA.

Program Requirements

Total Credits Required In Program Coursework	Total Credits Required To Earn This Credential
12	12

Simple Requisites

Program Requirements

- **Total Credits:** 12
- **Requirements to Declare Organizational Communication Minor:** 2.5 Overall GPA and completion of one CMST course.
- **Grade Point Average to Graduate with Organizational Communication Minor:** 2.5 GPA within minor coursework
- **Credits in Residence:** At least half (50 percent) of the credits earned for this minor must be completed through USU and be approved by the department head.

- **Minimum Grade Requirement:** All courses taken for the minor require a minimum grade of **C-** or better. Courses for the minor *may not* be taken on a pass/fail basis.
- **Note:** As many as 6 credits completed at other colleges or universities may be used to partially satisfy these requirements. At least 6 of the 12 total credits must be completed in courses offered at the 3000 level or above. For more information, please contact the program's academic advisor.

Section 1

Type
Completion Requirement

Required Course (3 credits)

Complete ALL of the following Courses:

- CMST3250 - Organizational Communication (CI) - 3cr.

Section 2

Type
Completion Requirement

Elective Communication Courses (9 credits)

Earn at least 9 credits from the following:

- CMST2120 - Group Collaboration and Decision Making - 3cr.
- CMST3280 - Organizations and Social Change - 3cr.
- CMST3330 - Intercultural Communication (DSS) - 3cr.
- CMST3400 - Persuasion - 3cr.
- CMST3600 - Communication and Conflict - 3cr.
- CMST3730 - Culture and Global Intervention (DHA) - 3cr.
- CMST4200 - Language, Thought, and Action (CI/DSS) - 3cr.
- CMST5500 - Communication and Leadership - 3cr.

Additional Comments:

Related Programs

- Communication Studies - BA, BS: 38 credits
- Communication Studies - Minor: 12 credits

Program Learning Outcomes

Program Learning Outcomes
https://artsci.usu.edu/communication-media/assessments

Ornamental Horticulture - Minor

Program Overview

College
College of Agriculture & Natural Resources

Department
Plants, Soils and Climate

Program Level
Undergraduate

Program Requirements

Total Credits Required To Earn This Credential
16

Simple Requisites

Program Requirements

To graduate with the Ornamental Horticulture minor, a minimum GPA of 2.5 is r equired in minor coursework.

Section 1

Type
Completion Requirement

The following courses are required:

Complete ALL of the following Courses:

- PSC2010 - Soils, Waters, and the Environment (BPS) - 3cr. **OR** PSC3000 - Fundamentals of Soil Science - 4cr.
- PSC2200 - Pesticide Certification - 2cr.
- PSC2620 - Woody Plant Materials: Trees and Shrubs for the Landscape - 3cr.

Section 2

Type
Completion Requirement

Select the balance of credits from the following courses:

Complete ANY of the following Courses:

- PSC1800 - Introduction to Horticulture (BLS) - 3cr.
- PSC2600 - Herbaceous Plant Materials - 3cr.
- PSC3300 - Residential Landscapes - 3cr.
- PSC3400 - Arboriculture - 3cr.
- PSC3430 - Construction Methods for Residential Landscape Installation - 2cr.
- PSC3700 - Plant Propagation - 4cr.
- PSC3810 - Turfgrass Management - 3cr.
- PSC4050 - Greenhouse Management and Crop Production - 4cr.
- PSC4500 - Urban Soil Management and Reclamation - 3cr.
- PSC5420 - Landscape Irrigation Design (QI) - 2cr.

Program Learning Outcomes

Program Learning Outcomes
https://caas.usu.edu/psc/assessment

Ornamental Horticulture - AAS

Program Overview

College
College of Agriculture & Natural Resources

Department
Plants, Soils and Climate

Program Level
Undergraduate

About this Degree

This program provides practical training in greenhouse and nursery management, turf production, and landscape management. Coursework encompasses pest control, plant identification, construction of landscapes, small business management, and the operation and maintenance of equipment, including small engines. As an integral part of their training, students are required to complete an internship in the industry. Students may work toward a **one-year certificate** or an **Associate of Applied Science Degree.**

- For more information about Ornamental Horticulture, see the department website.
- Admitted and current students must meet with an advisor.
- Log on to Degree Works to check student-specific program progress.

Admission Requirements for this Program

- New freshmen must be admitted to USU in Good Standing.
- Transfer students from other institutions or other programs at USU must have a 2.50 GPA.

Program Requirements

Total Credits Required In Program Coursework
63

Total Credits Required To Earn This Credential
63

Simple Requisites

Program Requirements

The 63 credits are distributed as follows. Some courses require biology prerequisite courses.

Ornamental Horticulture Program Associate of Applied Science Degree (63 credits)

Type
Completion Requirement

General Education Requirements (15-16 credits)

Complete ALL of the following Course Sets:

- Communications Literacy (CL1) Course
  AND Communications Literacy (CL2) Course

Breadth General Education Requirements

Fulfill ALL of the following requirements:

General Education (continued)

Complete at least 2 of the following courses:

- LAEP1030 - Introduction to Landscape Architecture (BCA) - 3cr.
- USU1300 - U.S. Institutions (BAI) - 3cr.
- PHIL1320 - The Good Life (BHU) - 3cr.
- USU1340 - Social Systems and Issues (BSS) - 3cr.

AND

General Education (continued)

Complete at least 1 of the following courses:

- CHEM1110 - General Chemistry I (BPS) - 4cr.
  OR PSC1800 - Introduction to Horticulture (BLS) - 3cr.

Choose remaining credits from the following courses: (30-33 credits)

Complete ANY of the following Courses:

- LAEP1200 - Introduction to Graphics and Illustration - 4cr.
- PSC2030 - Basic Flower Arranging - 2cr.
- PSC2700 - Climate Change Impacts (BPS) - 3cr.
- PSC3000 - Fundamentals of Soil Science - 4cr.
- PSC3300 - Residential Landscapes - 3cr.
- PSC3400 - Arboriculture - 3cr.
- PSC3430 - Construction Methods for Residential Landscape Installation - 2cr.
- PSC3500 - Structure and Function of Plants - 3cr.
- PSC3700 - Plant Propagation - 4cr.
- PSC3810 - Turfgrass Management - 3cr.
- PSC4050 - Greenhouse Management and Crop Production - 4cr.
- PSC4301 - Computer Aided Residential Landscape Design - 3cr.
- PSC4302 - Advanced Residential Landscape Design - 3cr.
- PSC4400 - Modern Vegetable Production - 3cr.
- PSC4500 - Urban Soil Management and Reclamation - 3cr.
- PSC4550 - Integrated Weed Management - 3cr.
- PSC4900 - Special Problems - 1cr.
- PSC5090 - Sustainable Low Water Landscaping - 3cr.
- PSC5100 - Professional Turf and Urban Landscape Water Management - 3cr.
- PSC5222 - Temperate Zone Fruit Production - 3cr.
- PSC5420 - Landscape Irrigation Design (QI) - 2cr.

Elective Credits

A maximum of 11 credits can be taken

Complete ANY of the following Courses:

- BIOL1010 - Biology and the Citizen (BLS) - 3cr.
  OR BIOL1610 - Biology I - 3cr.
- CHEM1110 - General Chemistry I (BPS) - 4cr.
- LAEP1030 - Introduction to Landscape Architecture (BCA) - 3cr.
- MATH1050 - College Algebra (QL) - 4cr.
- WILD2200 - Ecology of Our Changing World (BLS) - 3cr.

Internship Requirements (1 credit)

Complete ALL of the following Courses:

- PSC4250 - Internship in Plants, Soils, and/or Climate - 1cr.

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Associate Degrees)

Suggested Degree Maps

Degree Map Name

Suggested Degree Map - Ornamental Horticulture AAS

Total Degree Map Credits

64

Degree Map Effective Catalog Year

2027 -

Degree Map Narrative

- Following is a sample two-year plan. Please note that student-specific plans may differ.
- Meet with an academic advisor to create a specific plan that best fits your academic needs.
- The student is ultimately responsible for knowing and completing all degree requirements.
- Consultation with an advisor may result in an altered plan customized for an individual student.
- Check your Degree Works for requirements and completion.

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	16	0

Requirement Select

- BIOL1010 - Biology and the Citizen (BLS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Communications Literacy (CL1) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- PSC1050 - Plants, Soils, and Climate Orientation

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- PSC1800 - Introduction to Horticulture (BLS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- PSC2600 - Herbaceous Plant Materials

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Production Elective (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	17	0

Requirement Select

- Communications Literacy (CL2) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- LAEP1030 - Introduction to Landscape Architecture (BCA)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- PSC2200 - Pesticide Certification

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select

- Production Electives (6 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Elective (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	16	0

Requirement Select

- PSC2620 - Woody Plant Materials: Trees and Shrubs for the Landscape

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- PSC4250 - Internship in Plants, Soils, and/or Climate

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1 - 4
Clinical	-
Criticality	No

Requirement Select

- Production Electives (12 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	12
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	15	0

Requirement Select

- Production Electives (13 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Breadth American Institutions (BAI) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Breadth Social Sciences (BSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Breadth Humanities (BHU) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Program Learning Outcomes

Program Learning Outcomes

https://www.usu.edu/oda/assessment/

Ornamental Horticulture - Certificate

Program Overview

College
College of Agriculture & Natural Resources

Department
Plants, Soils and Climate

Program Level
Undergraduate

About this Degree

This program provides practical training in greenhouse and nursery management, turf production, and landscape management. Coursework encompasses pest control, plant identification, construction of landscapes, small business management, and the operation and maintenance of equipment, including small engines. As an integral part of their training, students are required to complete occupational experience or an internship in the industry. Students may build on this certificate towards an Associate of Applied Science degree and/or Bachelor of Science degree.

Program Requirements

Total Credits Required In Program Coursework
30

Total Credits Required To Earn This Credential
30

Simple Requisites

Program Requirements

Ornamental Horticulture Course Requirements

Type
Completion Requirement

Required Courses (18 credits)

Complete ALL of the following Courses:

- APEC2120 - Small Firm Accounting Basics - 3cr.
- PSC1050 - Plants, Soils, and Climate Orientation - 1cr.
- PSC1800 - Introduction to Horticulture (BLS) - 3cr.
- PSC2200 - Pesticide Certification - 2cr.
- PSC2600 - Herbaceous Plant Materials - 3cr.
- PSC2620 - Woody Plant Materials: Trees and Shrubs for the Landscape - 3cr.
- PSC4250 - Internship in Plants, Soils, and/or Climate - 1cr.

Directed Electives (12 credits)

Students must select 12 credits from the list of courses below.

Earn at least 12 credits from the following:

- APEC2310 - Small Firm Management - 3cr.
- BIOL1610 - Biology I - 3cr.
- BIOL1615 - Biology I Laboratory - 1cr.
- CHEM1110 - General Chemistry I (BPS) - 4cr.
- ENGL1010 - Writing as Inquiry (CL1) - 3cr.
- LAEP1200 - Introduction to Graphics and Illustration - 4cr.
- MATH1050 - College Algebra (QL) - 4cr.
- PSC2000 - The Atmosphere and Weather (BPS) - 3cr.
- PSC2030 - Basic Flower Arranging - 2cr.

Program Learning Outcomes

Program Learning Outcomes

https://caas.usu.edu/tdte/assessment/

Operations and Supply Chain Management - Minor

Program Overview

College
Jon M. Huntsman School of Business

Department
Management

Program Level
Undergraduate

Program Requirements

Total Credits Required In Program Coursework
13

Total Credits Required To Earn This Credential
13

Simple Requisites

Program Requirements

Students are responsible for completing prerequisite courses where applicable. A minimum GPA of 2.50 is required in minor courses. An overall GPA of 2.50 is required for the minor to be awarded at graduation.

Section 1

Type
Completion Requirement

Required Courses

Complete ALL of the following Courses:

- MGT3700 - Operations Management - 3cr.
- MGT4720 - Sales and Operations Planning - 2cr.
- MGT4790 - Managing Global Value Chains - 2cr.
- MGT5730 - Lean Continuous Improvement - 3cr.

Section 2

Type
Completion Requirement

Elective Courses

Complete at least 2 of the following courses:

- MGT3600 - Project Management - 2cr.
- MGT4740 - Quality Management - 2cr.
- MGT4760 - Services Management - 2cr.

Program Learning Outcomes

Program Learning Outcomes

https://huntsman.usu.edu/assessment/assessment-plan

Planning & Design Technologies – BS

Program Overview

College
College of Agriculture & Natural Resources

Department
Landscape Architecture & Environmental Planning

Program Level
Undergraduate

About this Degree

The B.S. in Planning & Design Technologies undergraduate program prepares future professionals to work in the environmental planning and design fields by equipping them with practical skills in design, drafting, representation, construction, and technology. The program prepares students to bridge the gap between planning and design and the technical aspects of practice. Graduates will support planners, designers (landscape architects and architects), and engineers in developing detailed construction documents, 3D models, geographic information analyses, and digital representations/renderings using software like AutoCAD, ArcMap, and Revit (Building Information Modeling).

- For more information about Planning & Design Technologies, see the department website.
- Current and admitted students must meet with an advisor.
- Log on to Degree Works to check student-specific program progress.

Admission Requirements for this Program

- New freshmen: Admitted to USU in Good Standing
- Transfer students from other institutions or other programs at USU: 2.0 GPA

Program Requirements

Total Credits Required In Program Coursework
69

Total Credits Required To Earn This Credential
120

Simple Requisites

Program Requirements

A minimum overall GPA of 3.0 is required in LAEP-prefix courses, with no individual LAEP-prefix course grade less than a C-. No pass/fail grades are accepted to fulfill LAEP-prefix courses. A minimum USU GPA of 2.5 is required for all other courses used to fulfill major requirements.

Some of the core Applied Design Technology coursework fulfills general education requirements, such as BHU and CI requirements. Students should consult with their Academic Advisor and make a plan to complete all general education requirements.

Digital Modeling and Visualization Core (29 credits)

Type
Completion Requirement

Required Courses

Complete ALL of the following Courses:

- LAEP1200 - Introduction to Graphics and Illustration - 4cr.
- LAEP1300 - Digital Drafting, Illustration, and Modeling - 3cr.
- LAEP1360 - Fundamentals of Design - 4cr.
- LAEP2300 - History of Landscape Architecture (BHU) - 3cr.
- LAEP2400 - 3D Representation - 3cr.
- LAEP2900 - VR Design and Thematics Studio - 3cr.
- LAEP2450 - Artificial Intelligence Generative Design - 3cr.

- DMV1050 - Application and Ethics of Visualization - 2cr.
- DMV3100 - Unreal Engine 1 - 4cr.

Geospatial Technologies Core (14 credits)

Type
Completion Requirement

Required Courses

Complete ALL of the following Courses:

- LAEP5300 - GIS for Environmental Planning - 4cr.
- LAEP5400 - Advanced Geospatial Analysis and Visualization for Environmental Planning - 4cr.
- GEOG3700 - Python Programming for GIS - 3cr.
- GEOG5300 - Geospatial Analysis with R - 3cr.
  OR ENVS3500 - Environmental Data Science (QI) - 3cr.

Computer Assisted Drafting Core (17 credits)

Type
Completion Requirement

Required Courses

Complete ALL of the following Courses:

- LAEP2500 - Construction Materials and Detailing - 4cr.
- LAEP4110 - Landscape Construction II - 4cr.
- PSC4301 - Computer Aided Residential Landscape Design - 3cr.
- TEDR1110 - Introduction to Building Information Modeling - 3cr.
  OR IAD4790 - Building Information Modeling in Interior Architecture and Design - 3cr.
  OR EDDT2750 - Architectural Revit - 3cr.

Representation Core (9 credits)

Type
Completion Requirement

Required Courses

Complete ALL of the following Courses:

- LAEP3200 - Graphic Design for Landscape Architects and Environmental Planners - 3cr.
  OR MSLE3200 - Adobe Graphic Design - 3cr.
- OPDD2420 - Digital Technologies for 2-D Design - 3cr.
  OR TEE1010 - Graphic Communication Technologies - 3cr.
- LAEP4910 - Foundations of Business in Design and Planning (CI) - 3cr.

Electives (18 credits)

Type
Completion Requirement

Required Credit

Earn at least 18 credits

Additional Comments:

In addition to the core coursework required to develop the practical skills in Planning and Design Technologies students completing the degree program may receive an Associates of Digital Modeling and Visualization and a certificate in Advanced Design, Geospatial, and Visualization Technologies. In addition, the degree program is structured to provide students with opportunities to further differentiate themselves in the professional marketplace according to their interests and aptitudes. Students seeking a Bachelor of Science in Planning and Design Technologies degree are encourage to use available elective credit to complete a Certificate of Proficiency or Minor. The following are suggested certificates and minors which may be completed within the 120 credit requirement for the degree:

- Geographic Information Science - Minor or Applied Geographic Information Science - Certificate
- Residential Landscape Design - Minor
- Landscape Architecture - Minor
- Environmental Planning - Minor

Other certificates and minors may potentially be completed within the 120 credit requirement for the degree. Students seeking an alternate Certificate or Minor from the USU Catalog should consult with their Academic Advisor to declare a certificate or minor and make a plan to complete all degree requirements without extending beyond the 120 credits required to earn the Bachelor of Science in Planning and Design Technologies.

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Bachelor's Degree)

Suggested Degree Maps

Degree Map Name
Suggested Degree Map - Planning & Design Technologies – BS
Total Degree Map Credits
111
Degree Map Effective Catalog Year
2027 -

Degree Map Narrative

- Following is a sample four-year plan. Please note that student-specific plans may differ.
- Meet with an academic advisor to create a specific plan that best fits your academic needs.
- The student is ultimately responsible for knowing and completing all degree requirements.
- Make sure you meet the registration requirements for each class by clicking the course link and checking any prerequisites or corequisites.
- Consultation with an advisor may result in an altered plan customized for an individual student.
- Check your Degree Works for requirements and completion.

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	12	0

Requirement Select
- LAEP1200 - Introduction to Graphics and Illustration

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- DMV1050 - Application and Ethics of Visualization

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select
- Breadth Creative Arts (BCA) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Quantitative Literacy (QL) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	16	0

Requirement Select
- LAEP1300 - Digital Drafting, Illustration, and Modeling

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- LAEP1360 - Fundamentals of Design

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- Breadth Physical Sciences (BPS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Breadth American Institutions (BAI) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Communications Literacy (CL1) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	16	0

Requirement Select
- LAEP2400 - 3D Representation

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- DMV3100 - Unreal Engine 1

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- Breadth Life Sciences (BLS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Communications Literacy (CL2) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Breadth Social Sciences (BSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	16	0

Requirement Select
- LAEP2900 - VR Design and Thematics Studio

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- LAEP2450 - Artificial Intelligence Generative Design

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Depth Humanities and Creative Arts (DHA) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective Credit (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	Elective Credit
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- LAEP2300 - History of Landscape Architecture (BHU)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Fall	13	0

Requirement Select
- LAEP5300 - GIS for Environmental Planning

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- PSC4301 - Computer Aided Residential Landscape Design

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Depth Social Sciences (DSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective Credit (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Spring	11	0

Requirement Select
- LAEP2500 - Construction Materials and Detailing

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- LAEP4110 - Landscape Construction II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- Elective Credit (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Course Not Found

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Fall	12	0

Requirement Select
- GEOG3700 - Python Programming for GIS

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- LAEP3200 - Graphic Design for Landscape Architects and Environmental Planners

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- ENVS3500 - Environmental Data Science (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Elective Credit (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Spring	15	0

Requirement Select
- LAEP4910 - Foundations of Business in Design and Planning (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- EDDT2100 - Commercial Architectural Drafting

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Elective Credit (5 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	5
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- LAEP5400 - Advanced Geospatial Analysis and Visualization for Environmental Planning

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Program Learning Outcomes

Program Learning Outcomes

The mission of the B.S. in Planning & Design Technologies undergraduate program is to prepare future professionals to work in the environmental planning and design fields by equipping them with practical skills in design, drafting, representation, construction, and technology. The curriculum will prepare students to bridge the gap between planning and design and the technical aspects of practice.

Paleontology - Institutional Certificate of Proficiency

Program Overview

College	Department	Program Level
College of Arts & Sciences	Geosciences	Undergraduate

About this Degree

To be proficient in paleontology, students need a core understanding of Earth history, as well as sedimentation and stratigraphy. In addition, there are multiple added skills and knowledge sets that usefully build upon this core. The series of elective courses provides the possibility of studying a broad range of specific topics relevant to paleontology, while also providing a focus in fossil identification. A special feature of the certificate is the availability of hands-on research and internship experiences with our faculty and through the Prehistoric Museum at USU Eastern.

Program Requirements

Total Credits Required In Program Coursework	Total Credits Required To Earn This Credential
20	20

Simple Requisites

Program Requirements

The certificate requires the completion of 20 credits with a grade of C- or better.

Paleontology - ICP

Type

Completion Requirement

Required Courses (11 credits)

Earn at least 11 credits from the following:

- GEO2200 - The Earth Through Time - 3cr.
- GEO2205 - Earth Through Time Laboratory - 1cr.
- GEO3550 - Sedimentation and Stratigraphy - 4cr.
- GEO5430 - Invertebrate Paleontology and Paleobotany - 3cr.
  OR GEO5440 - Vertebrate Paleontology (CI) - 3cr.

Elective Credit (9 credits)

Earn at least 9 credits from the following:

- ANTH3310 - Introduction to Museum Studies (CI) - 3cr.
- ANTH5320 - Zooarchaeology - 3cr.
- BIOL2220 - General Ecology - 3cr.
- BIOL2320 - Human Anatomy - 4cr.
- BIOL3010 - Evolution (DSC) - 3cr.
- ENVS5600 - Natural Resource Interpretation - 3cr.
- GEO1650 - Fossil Preparation - 2cr.
- GEO2200 - The Earth Through Time - 3cr.
- GEO3250 - Natural History of Dinosaurs (DSC) - 3cr.
- GEO3300 - Geology of the World's Oceans (DSC) - 3cr.
- GEO3800 - Applied Geoscience Techniques - 3cr.
- GEO4850 - Internship/Co-op - 1cr.
- GEO4900 - Special Problems - 1cr.
- GEO5430 - Invertebrate Paleontology and Paleobotany - 3cr.
- GEO5440 - Vertebrate Paleontology (CI) - 3cr.
- STAT2000 - Statistical Methods (QI) - 4cr.

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Undergraduate Academic or Technical Certificates)

Program Learning Outcomes

Program Learning Outcomes

https://www.usu.edu/science/assessment/

Precision Agriculture Technology - Institutional Certificate of Proficiency

Program Overview

College
College of Agriculture & Natural Resources

Department
Applied Sciences, Technology and Education

Program Level
Undergraduate

About this Degree

The Precision Agriculture Technology Post-Bachelor's Certificate is designed to prepare undergraduate students wishing to enhance their portfolios to understand and implement precision agriculture technology. Precision agriculture is a multi-faceted science that involves several different disciplines – including plant, soil, and climate sciences, several facets of engineering (electrical, agriculture, biological, irrigation, etc.), agricultural technologies and systems, applied economics, statistics, mathematics, and geographic information systems. This certificate incorporates these disciplines with courses from four departments (PSC, CEE, APEC, and ASTE). This certificate may be earned as a stand-alone certification or as part of a participating department's undergraduate program.

Students who complete the program will receive a post-bachelor's certificate in Precision Agriculture Technology. They will learn and become proficient in the latest techniques, tools, and technologies for precision agriculture, including site-specific management of crop inputs. Their USU transcript will list the courses and grades received to complete the certificate.

Admission Requirements for this Program

There are no specific admission requirements. Any enrolled student who completes the requirements will be awarded the certificate. Please reach out to the program coordinators if you have questions about eligibility or requirements.

Program Requirements

Total Credits Required In Program Coursework
14-16

Total Credits Required To Earn This Credential
14-16

Simple Requisites

Program Requirements

The Precision Agriculture Technology Certificate consists of a minimum of 12 credit hours. The certificate is designed to provide students with broad experience in key components of precision agriculture technology, science, engineering, and data analysis. Students may tailor their 12 credit hours depending on their goals, prior experience, and course work in precision agriculture topics. Students must maintain a minimum 3.0 GPA for program courses. Course grades less than a B (B- and below) do not count toward the certificate.

Section 1

Type
Completion Requirement

Remote Sensing/Geographic Information Systems (3-4 credits)

Select one course in Remote Sensing or Geographic Information Systems (GIS)

Complete at least 1 of the following courses:

- CEE5003 - Remote Sensing of Land Surfaces - 3cr.
- GEOG2800 - Introduction to Geographic Information Sciences - 4cr.

Additional Required Courses (8-10 credits)

Additional three courses will be required in plant/soil/water/applied economics/unoccupied aerial systems.

Complete at least 3 of the following courses:

- APEC3310 - Analytical Methods in Applied Economics (QI) - 3cr.
- APEC4310 - Agribusiness Finance - 3cr.
- APEC5015 - Applied Economics for Decision Making (QI) - 3cr.
- ASTE4250 - Occupational Experiences in Agriculture - 1cr.
- ASTE5260 - Environmental Impacts of Agricultural Systems (CI) - 3cr.
- AV3520 - UAS Guidance and Control - 3cr.
- CEE5001 - Design and Evaluation of Pressurized Irrigation Systems - 3cr.
- CEE5006 - Agricultural Water Management - 3cr.
- CEE5007 - Field Evaluation of Agricultural Irrigation Systems - 2cr.
- PSC3000 - Fundamentals of Soil Science - 4cr.
- PSC4320 - Forage Production and Pasture Management - 3cr.
- PSC4400 - Modern Vegetable Production - 3cr.
- PSC4550 - Integrated Weed Management - 3cr.
- PSC5710 - Irrigated Soils - 3cr.

Practicum (3 credits)

3 credits in Practicum coursework is required

Complete at least 1 of the following courses:

- ASTE5999 - Precision Agriculture Practicum - 3cr.
- CEE5999 - Precision Agriculture Practicum - 3cr.
- PSC5999 - Precision Agriculture Practicum - 3cr.

Additional Comments:

Advisor(s):

ASTE – Allie East (Undergraduate advisor), https://caas.usu.edu/directory/east-allie, Becki Lawver (Department Head)

APEC – Abby Macbeth (Undergraduate advisor), Ryan Bosworth (Department Head)

PSC - Abby Macbeth (Undergraduate advisor), Paul Johnson (Department Head)

CEE – Amber Crook (Undergraduate advisor), https://engineering.usu.edu/advising/meet-the-advisors, Marv Halling (Department Head)

Faculty:

Dr. Aaron Etienne – https://caas.usu.edu/directory/etienne-aaron

Dr. Matt Yost – https://caas.usu.edu/directory/yost-matt

Dr. Michael Pate - https://caas.usu.edu/directory/pate-michael

Dr. Sierra Young – https://uwrl.usu.edu/people/faculty/young-sierra

Dr. Alfonso Torres – https://engineering.usu.edu/cee/people/faculty/torres-alfonso

Dr. Burdette Barker – https://extension.usu.edu/directory/barker-burdette

Dr. Brent Black – https://caas.usu.edu/directory/black-brent

Dr. Ryan Larsen – https://caas.usu.edu/directory/larsen-ryan

Program Learning Outcomes

Program Learning Outcomes

https://caas.usu.edu/aste/assessment/

https://caas.usu.edu/apec/assessment

https://caas.usu.edu/psc/assessment

https://engineering.usu.edu/

Parks and Recreation - Minor

Program Overview

College
College of Education & Human Services

Department
Kinesiology and Health Science

Program Level
Undergraduate

About this Degree

Pursuing a minor in parks and recreation can provide a range of employment opportunities in the field of recreation and leisure services. These opportunities are diverse, as the ability to participate in recreational activities is influenced by individual attitudes, resources, financial capabilities, and educational awareness. Formal settings for recreation and leisure activities can include government agencies at the local, state, and federal levels, as well as quasi-public agencies, industrial and employee recreation programs, military recreation programs, and private or commercial recreation enterprises. A minor in parks and recreation can open the door to a variety of career paths in this dynamic and rewarding field.

Program Requirements

Total Credits Required In Program Coursework
15

Total Credits Required To Earn This Credential
15

Simple Requisites

Program Requirements

New freshmen, transfer students, and students from other USU majors who have at least a **2.0 overall GPA** qualify to enter the Parks and Recreation minor. A **2.0 overall GPA** is required to receive the minor upon graduation with a bachelor's degree. A minimum **grade of C or better must be earned in RAM (prefix) courses**. A pass/fail grading is not permitted for the minor courses, excluding P.E. activity courses and other courses graded as pass/fail. Students who are majoring in Recreation Administration may not add this minor.

Section 1

Type
Completion Requirement

Required Courses (9 credits)

Complete ALL of the following Courses:

- RAM1000 - Introduction to Recreation Services - 2cr.
- RAM4000 - Experience and Event Design - 3cr.

Section 2

Type
Completion Requirement

Elective Courses (9 credits)

At least 6 of the 9 credits must be RAM (prefix) courses.

Earn at least 9 credits from the following:

- RAM1500 - Leisure and Human Behavior (BSS) - 3cr.
- RAM2000 - Recreational Sport Management - 3cr.
- RAM2250 - RAM Cooperative Work Experience - 4cr.
- RAM2500 - Outdoor Recreation Management - 3cr.
- RAM3100 - Experience and Sport Promotion and Marketing - 3cr.
- RAM3400 - Outdoor Education and Facilitation - 3cr.
- RAM3900 - Civic Engagement in Recreation and Sports - 3cr.
- RAM4500 - Management of Recreation Services - 3cr.
- RAM4600 - Legal Issues and Risk Management of Recreation - 3cr.
- RAM5900 - Independent Study - 1cr.
- RAM5910 - Independent Research - 1cr.
- ENVS3300 - Fundamentals of Natural Resource Recreation Management - 3cr.
- ENVS4130 - Natural Resource Recreation Policy and Planning - 3cr.
- ENVS4500 - Advanced Natural Resource Recreation Management (CI) - 3cr.
- ENVS5600 - Natural Resource Interpretation - 3cr.
- HDFS1500 - Human Development Across the Lifespan (BSS) - 3cr.
- HEP2000 - First Aid and Emergency Care - 2cr.
- HEP3400 - Stress Management - 3cr.
- LAEP1030 - Introduction to Landscape Architecture (BCA) - 3cr.
- SOC3010 - Social Inequality (DSS) - 3cr.

• PE 1XXX Activity Course: Activity courses in Physical Education (PE 1000-2000) (1-3 maximum credits allowed)

Program Learning Outcomes

Program Learning Outcomes

https://cehs.usu.edu/khs/assessment

Phlebotomy Technician - Technical Certificate

Program Overview

College
College of Agriculture & Natural Resources

Department
Technology, Design & Technical Ed

Program Level
Undergraduate

About this Degree

Federal Gainful Employment Information

This program will provide students with the skills and knowledge needed to become competent phlebotomists. The program provides hands-on, competency-based technical education through classroom and laboratory instruction as well as hands-on practice. Lectures are given on basic and advanced phlebotomy, including the healthcare setting, overview of the human body, blood collection procedures, and special collection procedures. Laboratory skills being taught include

- Multi-sample Needle Newborn Screen
- Urinalysis Test Requisitions
- Butterfly Needle Hemoglobin
- Proper Patient Identification Order of Draw
- Needle to Syringe and Transfer Hematocrit
- Glucose Testing Specimen Transport
- Special Procedures Syncope
- Blood Cultures Centrifugation

Students have the opportunity to draw blood from classmates and volunteers. Upon completion students are eligible to take the National Certified Phlebotomy Technician (CPT) exam. Graduates are able to work as a phlebotomist and use their phlebotomy skills in a variety of hospitals, care centers, clinics, and other healthcare settings.

Admission Requirements for this Program

Students must turn 18 years old prior to hands-on lab hours.

Program Requirements

Total Credits Required In Program Coursework
3

Total Credits Required To Earn This Credential
3

Simple Requisites

Program Requirements

Phlebotomy Course Requirements (3 Credits)

Type
Completion Requirement

Required Courses

Complete ALL of the following Courses:

- TEPH1010 - Phlebotomy I - 2cr.
- TEPH1020 - Phlebotomy II - 1cr.

Program Learning Outcomes

Program Learning Outcomes

- Identify laboratory, OSHA, hazardous material, blood borne pathogen exposures, warning symbols, infection control, and patient safety rules.
- Gain a basic understanding of the laboratory equipment and computer systems.
- Demonstrate basic terminology for the healthcare setting, understand and utilize correct order of draw, and have basic knowledge of human anatomy and physiology related to venipuncture.
- • Draw blood correctly and safely from a patient by properly using equipment and supplies necessary while identifying and adjusting for any challenges associated with the venipuncture.
- Pass all final examinations, gain a certificate from the college and be eligible to take the National certification exam.

Product Development - Certificate

Program Overview

College
College of Agriculture & Natural Resources

Department
Technology, Design & Technical Ed

Program Level
Undergraduate

About this Degree

The Product Development Certificate provides students with a focused and practical education in the design, development, and manufacturing of innovative products. This interdisciplinary program blends technical skills with creative problem-solving, preparing students to contribute meaningfully to product innovation across a variety of industries.

Students will gain hands-on experience in areas such as computer-aided design (CAD), materials processing, innovation strategies, and intellectual property. The curriculum emphasizes both the technical and strategic aspects of product development, offering a flexible and accessible credential for students seeking to enhance their design and manufacturing expertise.

This certificate is ideal for students pursuing careers in product design, manufacturing, prototyping, and innovation management. It also complements a variety of majors, offering valuable skills for those interested in entrepreneurship, engineering, or industrial design.

Program Requirements

Total Credits Required In Program Coursework
18

Total Credits Required To Earn This Credential
18

Simple Requisites

Program Requirements

Required Courses

Type
Completion Requirement

Complete all of the following courses:

Complete ALL of the following Courses:

- TESY2200 - Intermediate CAD - 3cr.
- TESY3270 - Advanced Computer-Aided Drafting - 3cr.
- TESY4300 - Intellectual Property for Product Developers - 3cr.
- TESY4330 - Product Innovation Processes, Tools, and Strategies - 3cr.

Complete two of the following courses:

Complete at least 2 of the following courses:

- ASTE3030 - Metal Fabrication for Agriculture and Natural Resource Industries - 3cr.
- TEE4320 - Advanced Applications in Woods and Composites - 3cr.
- TESY3030 - Computer-Integrated Manufacturing Systems - 3cr.
- TESY3040 - Design for Additive Manufacturing - 3cr.
- TESY3200 - Additive Manufacturing I - 3cr.
- TESY3210 - Additive Manufacturing II - 3cr.
- TESY4230 - Advanced Materials and Processing Systems - 3cr.

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Undergraduate Academic or Technical Certificates)

Program Learning Outcomes

Program Learning Outcomes

https://agnr.usu.edu/tdte/assessment/

People and Organizations - Minor

Program Overview

College
Jon M. Huntsman School of Business

Department
Management

Program Level
Undergraduate

Admission Requirements for this Program

A minor in People and Organizations is available to all students except those majoring in Management. Students are responsible for completing prerequisite courses where applicable.

Program Requirements

Total Credits Required In Program Coursework
11

Total Credits Required To Earn This Credential
11

Simple Requisites

Program Requirements

A minimum GPA of 2.50 is required in minor courses. An overall GPA of 2.50 is required for the minor to be awarded at graduation. Courses for the minor *may not* be taken on a pass/fail basis.

Section 1

Type
Completion Requirement

Required Courses (10 credits)

Complete ALL of the following Courses:

- MGT3100 - Organizational Behavior - 2cr.
- MGT3250 - Managing Human Capital - 3cr.
- MGT3600 - Project Management - 2cr.
- MGT3710 - Team Management - 2cr.

Section 2

Type
Completion Requirement

Elective Courses (2-3 credits)

Earn at least 2 credits from the following:

- MGT3400 - Managerial Ethics - 2cr.
- MGT3810 - Employment Law (DSS) - 3cr.
- MGT4600 - Negotiations - 2cr.

Program Learning Outcomes

Program Learning Outcomes

https://huntsman.usu.edu/assessment/assessment-plan

Physical Education Teaching - Minor

Program Overview

College
College of Education & Human Services

Department
Kinesiology and Health Science

Program Level
Undergraduate

About this Degree

The Health Education Teaching Minor at Utah State University prepares students to teach health education in K–12 school settings. This program includes the essential coursework and practicum experiences required to apply for the Health Education endorsement through the Utah State Board of Education (USBE).

Students must either hold or be working toward a valid Utah teaching license to be eligible for the USBE endorsement. The minor is an excellent option for students in teacher preparation programs who want to enhance their credentials and expand their teaching opportunities.

Program Requirements

Total Credits Required In Program Coursework
21

Total Credits Required To Earn This Credential
21

Simple Requisites

Program Requirements

Important Note: Completion of the program's academic requirements does not guarantee a recommendation for the USBE endorsement. A formal recommendation will be made only when the following criteria are met:

- Successful completion of all required coursework (C or better) and Student Teaching Education Program (STEP) requirements
- Possession of a current and valid Utah teaching license
- Submission of all required forms and applicable fees

This minor cannot be used alone for teaching licensure unless the student has a teaching major. For more information, please contact the Academic Advisors in the Department of Kinesiology and Health Science.

Physical Education Teaching - Minor

Type
Completion Requirement

Required Courses (21 credits)

Complete ALL of the following Courses:

- HDFS3110 - Human Sexuality - 3cr.
- HEP2000 - First Aid and Emergency Care - 2cr.
- HEP3000 - Drugs and Human Behavior - 3cr.
- HEP4800 - Human Diseases - 3cr.
- KIN3300 - Clinical Experience I - 1cr.
- KIN4910 - Methods of Teaching Health - 3cr.
- NDFS1020 - Science and Application of Human Nutrition (BLS) - 3cr.
- PSY3700 - Mental Health Advocacy and Awareness - 3cr.

Secondary Teacher Education Program (STEP)(required for students seeking teacher licensure)

See the following information:

Please visit https://cehs.usu.edu/teal/undergraduate/STEP-admissions for STEP admission requirements, and check with minor and STEP advisors for additional information.

Required STEP coursework is included in the Required Courses section.

Program Learning Outcomes

Program Learning Outcomes

https://cehs.usu.edu/khs/assessment

Physical Education Teaching - Post-Bachelor's Certificate (NOT CURRENTLY OFFERED)

Program Overview

College
College of Education & Human Services

Department
Kinesiology and Health Science

Program Level
Graduate

About this Degree

The Post-Baccalaureate Certificate in Physical Education Teaching is a 24-credit, fully online program designed to equip licensed K–12 educators with the knowledge and skills required for the Utah State Board of Education (USBE) physical education teaching endorsement. The program is intended for individuals who already hold a bachelor's degree and a valid teaching license and seek advanced preparation for teaching physical education in elementary and secondary schools.

Completion of this certificate provides all required coursework and practicum experiences necessary to apply for the USBE K–12 physical education teaching endorsement. Completing the Post-Baccalaureate Certificate in Physical Education Teaching could allow a student to apply some courses toward the Applied Sport Coaching MEd degree.

This program is offered by the Department of Kinesiology and Health Science (KHS) in the Emma Eccles Jones College of Education and Human Services (CEHS) at Utah State University.

Admission Requirements for this Program

This certificate is designed for individuals who already hold a teaching license and are currently employed as K-12 educators. Completion of a bachelor's degree from an accredited university.

Program Requirements

Total Credits Required In Program Coursework
24

Total Credits Required To Earn This Credential
24

Simple Requisites

Program Requirements

- Degree Verification: A bachelor's degree from an accredited U.S. college or university or a similarly recognized international university is required for admission to and completion of program.
- Overall Graduate GPA at least 3.0 and no grades of C- or lower.

Required Courses (24 credits)

Type
Completion Requirement

Required

Complete ALL of the following Courses:

- KIN6000 - Administration of Athletics - 3cr.
- KIN6830 - Motor Learning - 3cr.
- KIN6210 - Biophysical Aspects of Sport and Exercise - 3cr.
- NDFS6320 - Advanced Sports Nutrition - 3cr.
- KIN6700 - Special Topics - 1cr.
- KIN6020 - Curriculum and Methods of Physical Education - 3cr.
- KIN6510 - Adapted Physical Education - 3cr.
- KIN6270 - Injury Prevention and Risk Management - 3cr.

Program Learning Outcomes

Program Learning Outcomes

- Demonstrate ethical decision-making, professional conduct, and inclusive practices in physical education and sport settings, accommodating diverse learners, including students with disabilities.
- Design, implement, and assess developmentally appropriate, standards-aligned physical education curricula for K–12 students, integrating principles of skill development, fitness, and lifelong physical activity.
- Analyze and teach fundamental motor skills and movement concepts using evidence-based instructional strategies, providing individualized feedback to optimize student learning.
- Apply knowledge of exercise physiology, biomechanics, growth and development, and nutrition to promote student health, performance, and injury prevention in physical activity settings.
- Assess, plan, and implement inclusive adaptations and accommodations for students with disabilities, collaborating with educators, parents, and IEP/BIP teams to ensure equitable participation.
- Demonstrate effective leadership, communication, and classroom management skills to engage, motivate, and inspire students and promote a positive learning environment.
- Recognize sociocultural factors that influence student participation and learning in physical education and integrate culturally responsive teaching practices.
- Apply professional knowledge and skills in supervised practicum experiences, demonstrating proficiency in lesson planning, instruction, assessment, and reflective teaching practice.

Personal Financial Planning - Minor

Program Overview

College	Department	Program Level
Jon M. Huntsman School of Business	Economics and Finance	Undergraduate

About this Degree

There is high demand for financial planning advice and the minor in Personal Financial Planning satisfies the education criteria needed to sit for the Certified Financial Planner (CFP)© examination. Set yourself apart as a financial advisor with the industry-leading certification or better prepare yourself to handle your own finances with this minor.

Admission Requirements for this Program

There is no GPA requirement but all courses require a B- or better to fulfill the minor requirements. Courses required for this minor may not be taken pass/fail.

Program Requirements

Simple Requisites

Program Requirements

Section 1

Type
Completion Requirement

Minor Requirements (18 credits)

Complete ALL of the following Courses:

- ACCT5030 - Individual Taxation - 3cr.
  OR FIN5050 - Financial Tax Planning - 3cr.
- FIN3300 - Investments - 3cr.
- FIN5060 - Introduction to Personal Financial Planning - 3cr.
- FIN5070 - Retirement Planning - 3cr.
- FIN5080 - Estate Planning - 3cr.
- FIN5090 - Personal Financial Plans - 3cr.

The courses above are registered with the Certified Financial Planner (CFP)© Board of Standards. Students completing these courses will qualify to sit for the comprehensive CFP© Examination.

Additional Comments:

Licensure Notification

This program was designed to meet licensing qualifications in the state of Utah. If students wish to work in another state within the United States, they should review the qualifications for that state.

According to the most recent information from the sponsoring department, this program meets licensure requirements in all states within the United States.

For more information, please contact Todd Griffith at todd.griffith@usu.edu.

Program Learning Outcomes

Program Learning Outcomes

https://huntsman.usu.edu/assessment/assessment-plan

Public Health - Health Promotion: Health Science Emphasis - BS

Program Overview

College
College of Education & Human Services

Department
Kinesiology and Health Science

Program Level
Undergraduate

About this Degree

A major in Health Science prepares students to become professionals who aid individuals, groups, and communities to maintain or improve their health status. Students gain a strong foundation in biological science and health promotion content.

This major is for students who plan to pursue advanced medical training; work in a public health, clinical, private, worksite, non-profit, or other health/medical-related setting; or are still exploring career options in those settings. In addition to a core of courses focused on providing the acquisition of skills and competencies in health promotion, this program gives students maximum flexibility to tailor coursework to meet their specific postgraduate and career goals. Completion of the program qualifies students to take the Certified Health Education Specialist (CHES) exam and Certified Wellness Practitioner exam.

- For more information about Public Health-Health Promotion, see the department webpage.
- Admitted and current students must meet with an advisor.
- Log on to Degree Works to check student-specific program progress.
- The highest Quantitative Literacy (MATH, QL) for this degree is STAT1040 INTRO TO STATISTICS (QL) or STAT1045 INTRO STAT WITH ALGEBRA (QL) or STAT1080 FOUNDATIONS OF DATA SCI (QL) or AP Statistics with a passing grade. *(Please note: students who are planning to go on to graduate school or need certain Chemistry and/or Physics courses may also need MATH1050 COLLEGE ALGEBRA (QL) or higher. Consult with your advisor.)*

Admission Requirements for this Program

- New freshmen must be admitted to USU in Good Standing.
- Transfer students from other institutions or other programs at USU must have an overall 2.0 GPA.

Program Requirements

Total Credits Required In Program Coursework
74

Total Credits Required To Earn This Credential
120

Simple Requisites

Program Requirements

- Students must earn a C- or better in all required HEP-prefix courses.
- Pass/Fail grading is not allowed for required major courses, including electives.
- A 2.0 overall GPA and a 2.75 major coursework GPA are required for graduation.

Any of the following statistics courses is a prerequisite for select courses in the major: STAT1040 INTRO TO STATISTICS (QL), STAT1045 INTRO STAT WITH ALGEBRA (QL), STAT1080 FOUNDATIONS OF DATA SCI (QL), or AP STAT with a passing grade.

Please note: MATH1050 COLLEGE ALGEBRA (QL) or higher may be necessary for students planning to take certain chemistry and/or physics courses or intending to go on to graduate school.

Public Health - Health Promotion: Health Science Emphasis - BS

Type
Completion Requirement

Health Science Core Requirements (45 credits)

Complete ALL of the following Courses:

- HEP2000 - First Aid and Emergency Care - 2cr.
- HEP2500 - Health and Wellness - 2cr.
- HEP3000 - Drugs and Human Behavior - 3cr.
- HEP3400 - Stress Management - 3cr.
- HEP3600 - Functions of Community & Public Health (CI) - 3cr.
- HEP3700 - Introduction to Epidemiology for Health Educators - 3cr.
- HEP4100 - Professional Development in Health Promotion - 3cr.
- HEP4400 - Community and Organizational Leadership, Policy, and Advocacy - 3cr.
- HEP4600 - Health Science Internship - 1cr.
- HEP4800 - Human Diseases - 3cr.
- HEP5000 - Health Trends Across Communities (CI) - 3cr.
- HEP5400 - Prevention Strategies for Obesity and Disordered Eating - 3cr.
- BIOL2320 - Human Anatomy - 4cr.
- BIOL2420 - Human Physiology - 4cr.
- NDFS1020 - Science and Application of Human Nutrition (BLS) - 3cr.

NOTE:

1. HEP2000 FIRST AID - Or certification. Certification must be First Aid and CPR with AED for adult, child and infant.
2. All HEP-prefix courses require a C- or better grade to fulfill the major requirement.

Health Science Professional Core Requirements (5 credits)

Must complete **one** of the following tracks.

Fulfill ANY of the following requirements:

Track 1: Healthcare (5 credits)

Complete ALL of the following Courses:

- HEP3800 - Health Care Systems and Administration - 3cr.
- NDFS1600 - Medical Terminology for Health Care Professionals - 2cr.

OR

Track 2: Public Health-Health Promotion (5 credits)

Complete ALL of the following Courses:

- HEP4200 - Community-Based Program Planning, Implementation, and Evaluation - 3cr.
- NDFS1600 - Medical Terminology for Health Care Professionals - 2cr.

Health Science Professional Development Requirements (24 credits)

Must complete at least **24 credits** in total from the following three groups. **Important:** Only **9 credits** are **allowed** in the **Social Sciences** group.

Fulfill ANY of the following requirements:

Biological Science (0-24 credits)

Complete ANY of the following Courses:

- BIOL1010 - Biology and the Citizen (BLS) - 3cr.
- BIOL1610 - Biology I - 3cr.
- BIOL1615 - Biology I Laboratory - 1cr.
- BIOL1620 - Biology II (BLS) - 3cr.
- BIOL1625 - Biology II Laboratory - 1cr.
- BIOL1625 - Biology II Laboratory - 1cr.
- BIOL2060 - Elementary Microbiology - 4cr.
- BIOL2520 - Pathophysiology - 3cr.
- BIOL3060 - Principles of Genetics (QI) - 3cr.
- BIOL3100 - Bioethics (CI) - 3cr.
- BIOL3300 - General Microbiology - 3cr.
- BIOL3500 - Plagues, Pests, and People - 3cr.
- BIOL4000 - Human Dissection - 1cr.
- BIOL5210 - Cell Biology - 3cr.
- CHEM1010 - Introduction to Chemistry (BPS) - 3cr.
- CHEM1110 - General Chemistry I (BPS) - 4cr.
- CHEM1115 - General Chemistry I Laboratory - 1cr.
- CHEM1120 - General Chemistry II (BPS) - 4cr.
- CHEM1125 - General Chemistry II Laboratory - 1cr.
- CHEM1210 - Principles of Chemistry I - 4cr.
- CHEM1215 - Chemical Principles Laboratory I - 1cr.
- CHEM1220 - Principles of Chemistry II (BPS) - 4cr.
- CHEM1225 - Chemical Principles Laboratory II - 1cr.
- CHEM2300 - Principles of Organic Chemistry - 3cr.
- CHEM2310 - Organic Chemistry I - 4cr.
- CHEM2315 - Organic Chemistry Laboratory I - 1cr.
- CHEM2320 - Organic Chemistry II - 4cr.
- CHEM2325 - Organic Chemistry Laboratory II - 1cr.
- CHEM3700 - Introductory Biochemistry - 3cr.
- CHEM3710 - Introductory Biochemistry Laboratory - 1cr.
- CHEM5700 - General Biochemistry I - 3cr.
- HEAL1500 - Anatomy and Physiology (BLS) - 4cr.
- KIN3250 - Anatomical Kinesiology - 3cr.
- KIN4100 - Exercise Physiology - 4cr.
- KIN4200 - Biomechanics (QI) - 4cr.
- MATH1100 - Calculus Techniques (QL) - 3cr.
- MATH1210 - Calculus I (QL) - 4cr.
- PHYS1100 - Great Ideas in Physics (BPS) - 3cr.
- PHYS1200 - Introduction to Physics by Hands-on Exploration (BPS) - 4cr.
- PHYS2110 - General Physics—Life Sciences I - 4cr.
- PHYS2120 - General Physics - Life Sciences II (BPS) - 4cr.
- PSY3010 - Psychological Statistics (QI) - 3cr.
- STAT1040 - Introduction to Statistics (QL) - 3cr.
- STAT1045 - Introduction to Statistics with Elements with Algebra (QL) - 5cr.
- STAT1080 - Foundations of Data Science (QL) - 3cr.
- STAT2000 - Statistical Methods (QI) - 4cr.
- STAT2300 - Business Statistics (QL) - 4cr.
- STAT3000 - Statistics for Scientists (QI) - 3cr.

OR

Supporting (Choose 0-24 credits)

Complete ANY of the following Courses:

- CMST4700 - Health Communication (CI) - 3cr.
- HEP1500 - Introduction to Global Health (BSS) - 3cr.
- HEP3200 - Consumer Health - 3cr.
- HEP4250 - Advanced Cooperative Work Experience - 1cr.
- HEP5250 - Global Health & Service Learning - 3cr.
- HEP5700 - Special Topics in Health - 1cr.
- MGT4500 - Principles of Healthcare Management - 3cr.
- MGT4510 - Innovation and Improvement in Healthcare Management - 3cr.
- MGT4520 - Healthcare Policy and Strategy - 3cr.
- NDFS2020 - Nutrition Throughout the Life Cycle - 3cr.
- NDFS3040 - Nutrition Assessment - 3cr.
- NDFS3080 - Community Nutrition - 3cr.
- PUBH3120 - Family and Community Health - 3cr.
- PUBH3310 - Occupational Health and Safety - 3cr.
- PUBH4030 - Communicable Disease Control - 3cr.
- PUBH4040 - Fundamentals of Epidemiology - 3cr.
- SPAN3100 - Spanish Healthcare - 3cr.
- SW5010 - Spanish for Social Services - 3cr.

OR

Social Science (Choose 0-9 credits - 9 credits maximum allowed)

Only **9 of the 24 Professional Development credits** can be selected from the **Social Science group**.

Complete ANY of the following Courses:

- ANTH4130 - Introduction to Medical Anthropology (DSS) - 3cr.
- ASTE2900 - Food Matters: Ethics, Economics, and the Environment (BSS) - 3cr.
- HDFS1500 - Human Development Across the Lifespan (BSS) - 3cr.
- HDFS3100 - Abuse and Neglect in Family Context - 3cr.
- HDFS3110 - Human Sexuality - 3cr.
- HDFS3700 - Mental Health Advocacy and Awareness - 3cr.
- HDFS3570 - Youth and Adolescence - 3cr.
- HIST3910 - Health, Disease, and Medicine in North America (DHA) - 3cr.
- PSY1010 - General Psychology (BSS) - 3cr.
- PSY1100 - Lifespan Development - 3cr.
- PSY2100 - Developmental Psychology: Adolescence - 3cr.
- PSY2300 - Psychological Disorders - 3cr.
- PSY3110 - Health Psychology - 3cr.
- PSY3510 - Social Psychology (DSS) - 3cr.
- PSY3700 - Mental Health Advocacy and Awareness - 3cr.
- PSY4240 - Multicultural Psychology (DSS) - 3cr.
- SOC3330 - Medical Sociology (DSS) - 3cr.
- SOC3750 - Sociology of Aging (DSS) - 3cr.

Open Electives (0-5 estimated credits)

Complete the following as needed:
Total elective credit is determined by General Education courses taken, degree type selected, additional credits earned, and any additional math or other prerequisite courses needed. Please consult your Academic Advisor for details.

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Bachelor's Degree)

Suggested Degree Maps

Degree Map Name

Suggested Degree Map - Public Health - Health Promotion: Health Science Emphasis - BS

Total Degree Map Credits
120 - 126

Degree Map Effective Catalog Year
2027 -

Degree Map Narrative

- Following is a sample four-year plan. Please note that student-specific plans may differ.
- Meet with an academic advisor to create a specific plan that best fits your academic needs.
- The student is ultimately responsible for knowing and completing all degree requirements.
- Make sure you meet the registration requirements for each class by clicking the course link and checking any prerequisites or corequisites.
- Consultation with an advisor may result in an altered plan customized for an individual student.
- Check your Degree Works for requirements and completion.

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	16 - 20	0

Requirement Select
- Communications Literacy (CL1) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- HEP2500 - Health and Wellness

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select
- Breadth Social Sciences (BSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Breadth Life Sciences (BLS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- USU1010 - University Connections

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select
- Quantitative Literacy (QL) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	14	3

Requirement Select

- HEP2000 - First Aid and Emergency Care

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select

- Breadth American Institutions (BAI) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- NDFS1020 - Science and Application of Human Nutrition (BLS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Breadth Humanities (BHU) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Breadth Physical Sciences (BPS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	3
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	15 - 17	3

Requirement Select

- HEP3000 - Drugs and Human Behavior

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- HEP3600 - Functions of Community & Public Health (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Professional Development Course (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	3
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Communications Literacy (CL2) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- STAT1040 - Introduction to Statistics (QL)

  OR
- STAT1045 - Introduction to Statistics with Elements with Algebra (QL)

  OR
- STAT1080 - Foundations of Data Science (QL)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 5
Progress Credits	-
Contact Hours	3 - 5
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	15	0

Requirement Select
- HEP 4100: Fall-Online; Spring-Main campus only. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- BIOL2320 - Human Anatomy

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- HEP3400 - Stress Management

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- HEP4100 - Professional Development in Health Promotion

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Breadth Creative Arts (BCA) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- NDFS1600 - Medical Terminology for Health Care Professionals

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Fall	16	0

Requirement Select

- BIOL2420 - Human Physiology

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- HEP3800 - Health Care Systems and Administration

OR

- HEP4200 - Community-Based Program Planning, Implementation, and Evaluation

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Professional Development Course(s) (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Professional Development Course(s) (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Depth Social Sciences (DSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Spring	15	0

Requirement Select

- HEP3700 - Introduction to Epidemiology for Health Educators

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- HEP4800 - Human Diseases

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Professional Development Course(s) (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- HEP4400 - Community and Organizational Leadership, Policy, and Advocacy

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Quantitative Intensive (QI) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Fall	15	0

Requirement Select

- HEP5000 - Health Trends Across Communities (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Professional Development Course(s) (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Professional Development Coruse(s) (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Depth Humanities and Creative Arts (DHA) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- HEP4600 - Health Science Internship

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	1 - 3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Spring	14	0

Requirement Select

- HEP5400 - Prevention Strategies for Obesity and Disordered Eating

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Upper-Elective (3000-level or higher) course (3 cr) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Professional Development Course (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Professional Development Course (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Elective Course (2 cr) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Program Learning Outcomes

Program Learning Outcomes

https://www.usu.edu/oda/assessment/

Philosophy - Minor

Program Overview

College
College of Arts & Sciences

Department
History, Cultures & Ideas

Program Level
Undergraduate

Program Requirements

Total Credits Required In Program Coursework
18

Total Credits Required To Earn This Credential
18

Simple Requisites

Program Requirements

- **Total Minor Credits:** 18
- **Grade Point Average to Declare Minor:** 2.5 Overall GPA
- **Grade Point Average to Graduate with Minor:** 2.5 GPA within minor coursework
- **Credits in Residence:** At least half (50 percent) of the credits earned for this minor must be completed in upper-division USU courses offered by the Communication Studies and Philosophy Department. All other credits (including transfer and study abroad credits) must be approved by the Philosophy faculty in order to be counted toward this minor.
- **Minimum Grade Requirement:** All courses for the minor require a minimum grade of **C-** or better. Up to 3 pass/fail credits in Philosophy (PHIL) courses may be applied toward the Philosophy minor.

Section 1

Type
Completion Requirement

Required courses (6 credits)

Complete ALL of the following Courses:

- PHIL3010 - Survey of Ancient and Medieval Philosophy (CI) - 3cr.
- PHIL3020 - Survey of Modern Philosophy (CI) - 3cr.

Section 2

Type
Completion Requirement

Elective Courses (12 credits)

Earn at least 12 credits from the following:

- PHIL1000 - Introduction to Philosophy (BHU) - 3cr.
- PHIL1120 - Social Ethics (BHU) - 3cr.
- PHIL1130 - Living in a Brave New World: Philosophy and Technology (BHU) - 3cr.
- PHIL1320 - The Good Life (BHU) - 3cr.
- PHIL1500 - The Examined College Life: Education and Its Ends (BHU) - 3cr.
- PHIL2200 - Deductive Logic (QI) - 3cr.
- PHIL2400 - Ethics (BHU) - 3cr.
- PHIL2600 - Introduction to Philosophy of Religions (BHU) - 3cr.
- PHIL2988 - Special Problems - 1cr.
- PHIL3500 - Healthcare Ethics (DHA) - 3cr.
- PHIL3520 - Business Ethics (DHA) - 3cr.
- PHIL3530 - Environmental Ethics (DHA) - 3cr.
- PHIL3540 - Ethics Bowl - 3cr.
- PHIL3550 - Philosophy in the Public Square - 3cr.
- PHIL3580 - Ethics and Economic Life (DHA) - 3cr.
- PHIL3600 - Philosophy of Religion (DHA) - 3cr.
- PHIL3700 - Political Philosophy (DHA) - 3cr.
- PHIL3710 - Philosophies of East Asia - 3cr.
- PHIL3720 - Philosophical Theology - 3cr.
- PHIL3800 - Philosophy in Literature (DHA) - 3cr.
- PHIL3810 - Philosophy of Art (DHA) - 3cr.
- PHIL3820 - Theories of Sex and Gender (DHA) - 3cr.
- PHIL3990 - Philosophy and Pop Culture (DHA) - 3cr.
- PHIL4250 - Tolkien and Lewis on Myth and Truth - 3cr.
- PHIL4300 - Epistemology (DHA) - 3cr.
- PHIL4310 - Philosophy of Science (DHA) - 3cr.
- PHIL4400 - Metaphysics - 3cr.
- PHIL4410 - Philosophy of Mind (DHA) - 3cr.
- PHIL4500 - Virtue Ethics (DHA) - 3cr.
- PHIL4600 - Philosophy of Law - 3cr.
- PHIL4900 - Philosophy Seminar - 3cr.
- PHIL4910 - Readings and Research - 1cr.
- PHIL4930 - Senior Honors Thesis - 1cr.
- PHIL4990 - Philosophy Capstone Portfolio - 1cr.
- PHIL5400 - Ethics and Emerging Technology (DHA) - 3cr.
- PHIL5430 - History and Philosophy of Physical Activity and Sport (CI) - 3cr.

Additional Comments:

Related Programs

- Philosophy - BA, BS: 31 credits

Program Learning Outcomes

Program Learning Outcomes

https://chass.usu.edu/philosophy/assessments

Philosophy - BA, BS

Program Overview

College
College of Arts & Sciences

Department
History, Cultures & Ideas

Program Level
Undergraduate

About this Degree

Philosophy is the study of general and fundamental human problems and questions, including existence, religion, reality, knowledge, values, reason, mind, and language. The philosophy program at Utah State is designed to provide students with an understanding of the origin and nature of philosophical issues, the development of these issues, the debates surrounding them, and their implications for various fields of study.

Students in the Philosophy program have the opportunity to pursue undergraduate research and receive individual mentoring from faculty. Through the program, students develop skills that allow them to generate ideas, solve problems, and communicate effectively.

The curriculum is designed to meet a wide variety of student interests and provide a rigorous foundation for students planning to further their education in law, medicine, or other graduate work. On average, philosophy majors outperform students in business, the sciences, and humanities on the MCAT, LSAT, and GMAT exams, which makes them excellent candidates for graduate and professional programs.

The preferred degree is the BA, in which students gain proficiency in one or more foreign languages in addition to regular coursework. If students wish to pursue a BS, they need to complete four extra science courses in addition to the regular course requirements for the major.

- For more information about Philosophy, please see the Philosophy website.
- Please make sure to consult regularly with your departmental advisor to confirm what courses will be available and to work out your plan of study.
- Admitted and current students must meet with an academic advisor.
- Log on to Degree Works to check student-specific program progress.
- The highest math requirement for this degree is Quantitative Literacy (QL) course of the student's choice.

Admission Requirements for this Program

- New freshmen must be admitted to USU in Good Standing.
- Transfer students from other institutions or other programs at USU must have a 2.50 GPA.

Program Requirements

Total Credits Required In Program Coursework
31

Total Credits Required To Earn This Credential
120

Simple Requisites

Program Requirements

Philosophy Major Requirements

- **Total Credits:** 31
- **Grade Point Average to graduate with Philosophy Major:** 2.5 GPA within major coursework
- **Credits in Residence:** At least half (50 percent) of the credits earned for these degrees must be completed in upper-division USU courses offered by the Department of History. All other credits (including transfer and study abroad credits) must be approved by the Philosophy faculty in order to be counted towards these degrees.
- **Minimum Grade Requirement:** All courses taken for the major require a minimum grade of **C-** or better. Up to 6 pass/fail credits in philosophy courses may be applied toward the Philosophy major.
- **A Minor, Double Major, or Certificate completion is required in addition to major requirements.**
- To receive a Bachelor of Arts (BA) degree, students must complete the foreign language requirement.

Bachelor of Arts Degree Language Requirement

For requirements for a Bachelor of Arts Degree in Philosophy, please see Minimum University Requirements (Bachelor's Degree) for required language credit.

Additional Information

Several philosophy courses meet USU's General Education Requirements and University Studies Requirements:

• PHIL1000 INTRO TO PHILOSOPHY (BHU), PHIL1120 SOCIAL ETHICS (BHU), PHIL1320 THE GOOD LIFE (BHU), PHIL 1130, or PHIL2400 ETHICS (BHU) will fulfill the Breadth Humanities (BHU) requirement under the General Education Requirements.
• PHIL3010 ANCIENT & MEDIEVAL PHIL (CI) or PHIL3020 SURVEY MODERN PHILOSOPHY (CI) will fulfill the Communications Intensive (CI) requirement (two CIs must be taken).
• PHIL2200 DEDUCTIVE LOGIC (QI) will fulfill the Quantitative Intensive (QI) requirement.

Students should meet with an advisor for further details.

Philosophy Major Requirements (31 credits)

Type
Completion Requirement

A. Required Courses (15 credits)

Earn at least 15 credits from the following:

- PHIL1120 - Social Ethics (BHU) - 3cr.
  OR PHIL2400 - Ethics (BHU) - 3cr.
  OR PHIL3500 - Healthcare Ethics (DHA) - 3cr.
  OR PHIL3520 - Business Ethics (DHA) - 3cr.
  OR PHIL3530 - Environmental Ethics (DHA) - 3cr.
  OR PHIL3580 - Ethics and Economic Life (DHA) - 3cr.
  OR PHIL4500 - Virtue Ethics (DHA) - 3cr.
  OR PHIL1130 - Living in a Brave New World: Philosophy and Technology (BHU) - 3cr.
- PHIL1250 - Practical Logic (BHU) - 3cr.
  OR PHIL2200 - Deductive Logic (QI) - 3cr.
- PHIL3010 - Survey of Ancient and Medieval Philosophy (CI) - 3cr.
- PHIL3020 - Survey of Modern Philosophy (CI) - 3cr.
- PHIL4300 - Epistemology (DHA) - 3cr.
  OR PHIL4310 - Philosophy of Science (DHA) - 3cr.
  OR PHIL4400 - Metaphysics - 3cr.
  OR PHIL4410 - Philosophy of Mind (DHA) - 3cr.

B. Elective Courses (15 credits)

Choose five additional philosophy courses not already taken above. Four of the courses must be at the upper-division level (3000 or higher). PHIL4910 READINGS AND RESEARCH cannot count more than twice toward major or minor.

Complete at least 5 of the following courses:

- PHIL1000 - Introduction to Philosophy (BHU) - 3cr.
- PHIL1120 - Social Ethics (BHU) - 3cr.
- PHIL1130 - Living in a Brave New World: Philosophy and Technology (BHU) - 3cr.
- PHIL1250 - Practical Logic (BHU) - 3cr.
- PHIL1320 - The Good Life (BHU) - 3cr.
- PHIL1500 - The Examined College Life: Education and Its Ends (BHU) - 3cr.
- PHIL2200 - Deductive Logic (QI) - 3cr.
- PHIL2400 - Ethics (BHU) - 3cr.
- PHIL2600 - Introduction to Philosophy of Religions (BHU) - 3cr.
- PHIL2988 - Special Problems - 1cr.
- PHIL3010 - Survey of Ancient and Medieval Philosophy (CI) - 3cr.
- PHIL3020 - Survey of Modern Philosophy (CI) - 3cr.
- PHIL3500 - Healthcare Ethics (DHA) - 3cr.
- PHIL3520 - Business Ethics (DHA) - 3cr.
- PHIL3530 - Environmental Ethics (DHA) - 3cr.
- PHIL3540 - Ethics Bowl - 3cr.
- PHIL3550 - Philosophy in the Public Square - 3cr.
- PHIL3580 - Ethics and Economic Life (DHA) - 3cr.
- PHIL3600 - Philosophy of Religion (DHA) - 3cr.
- PHIL3700 - Political Philosophy (DHA) - 3cr.
- PHIL3710 - Philosophies of East Asia - 3cr.
- PHIL3720 - Philosophical Theology - 3cr.
- PHIL3800 - Philosophy in Literature (DHA) - 3cr.
- PHIL3810 - Philosophy of Art (DHA) - 3cr.
- PHIL3820 - Theories of Sex and Gender (DHA) - 3cr.
- PHIL3990 - Philosophy and Pop Culture (DHA) - 3cr.
- PHIL4250 - Tolkien and Lewis on Myth and Truth - 3cr.
- PHIL4300 - Epistemology (DHA) - 3cr.
- PHIL4310 - Philosophy of Science (DHA) - 3cr.
- PHIL4400 - Metaphysics - 3cr.
- PHIL4410 - Philosophy of Mind (DHA) - 3cr.
- PHIL4500 - Virtue Ethics (DHA) - 3cr.
- PHIL4530 - Ethics and Biotechnology (DSC) - 3cr.
- PHIL4600 - Philosophy of Law - 3cr.
- PHIL4900 - Philosophy Seminar - 3cr.
- PHIL4910 - Readings and Research - 1cr.
- PHIL4950 - Senior Thesis in Philosophy - 3cr.
- PHIL4990 - Philosophy Capstone Portfolio - 1cr.
- PHIL5400 - Ethics and Emerging Technology (DHA) - 3cr.
- PHIL5430 - History and Philosophy of Physical Activity and Sport (CI) - 3cr.

NOTE:

1. PHIL4910 READINGS AND RESEARCH - This course cannot count more than twice toward major or minor.

Philosophy Capstone (1 credit)

The following 1 credit Capstone Portfolio course is required and should be taken in a student's senior year.

Complete ALL of the following Courses:

- PHIL4990 - Philosophy Capstone Portfolio - 1cr.

Open Electives

Complete the following as needed:

Total elective credit is determined by General Education courses taken, degree type selected, additional credits earned, and any additional math or other prerequisite courses needed. Please consult your Academic Advisor for details.

Additional Comments:

Related Programs

Philosophy - Minor

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Bachelor's Degree)

Suggested Degree Maps

Degree Map Name
Suggested Degree Map - Philosophy BA, BS
Total Degree Map Credits
120 - 127
Degree Map Effective Catalog Year
2027 -

Degree Map Narrative

- Following is a sample four-year plan. Please note that student-specific plans may differ.
- Meet with an academic advisor to create a specific plan that best fits your academic needs.
- The student is ultimately responsible for knowing and completing all degree requirements.
- Make sure you meet the registration requirements for each class by clicking the course link and checking any prerequisites or corequisites.
- Consultation with an advisor may result in an altered plan customized for an individual student.
- Check your Degree Works for requirements and completion.

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	16 - 17	0

Requirement Select

- Communications Literacy (CL1) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- PHIL1000 - Introduction to Philosophy (BHU)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Communications Literacy (CL2) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Breadth Requirement (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Breadth Requirement (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Breadth Requirement (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Breadth Requirement (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Foreign Language Course or elective course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Breadth Requirement (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	16	0

Requirement Select

- Foreign Language Course or elective course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	16	0

Requirement Select

- PHIL1120 - Social Ethics (BHU)

  OR
- PHIL2400 - Ethics (BHU)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- PHIL3010 - Survey of Ancient and Medieval Philosophy (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Quantitative Literacy (QL) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Depth Social Sciences (DSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Foreign Language Course or elective course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	16	0

Requirement Select

- PHIL3020 - Survey of Modern Philosophy (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Depth Life and Physical Sciences (DSC) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Foreign Language Course or elective course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Fall	15	0

Requirement Select
- PHIL2200 - Deductive Logic (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- PHIL Upper Division Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Minor Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Spring	15	0

Requirement Select

- PHIL4300 - Epistemology (DHA)
  OR
- PHIL4400 - Metaphysics
  OR
- PHIL4310 - Philosophy of Science (DHA)
  OR
- PHIL4410 - Philosophy of Mind (DHA)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Upper Division Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Upper Division Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Minor Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Fall	13 - 16	0

Requirement Select

- PHIL4910 - Readings and Research

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1 - 4
Progress Credits	-
Contact Hours	1 - 4
Clinical	-
Criticality	No

Requirement Select

- PHIL4910 course cannot count more than twice toward major or minor. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Upper Division Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Upper Division Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Minor Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Spring	13 - 16	0

Requirement Select
- PHIL4990 - Philosophy Capstone Portfolio

OR
- PHIL4910 - Readings and Research

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1 - 4
Progress Credits	-
Contact Hours	1 - 4
Clinical	-
Criticality	No

Requirement Select
- Upper Division Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Upper Division Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Minor Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	Total Major Credits
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Program Learning Outcomes

Program Learning Outcomes
https://artsci.usu.edu/history-cultures-ideas/philosophy/assessments

Pharmacy Technician - Technical Certificate

Program Overview

College
College of Agriculture & Natural Resources

Department
Technology, Design & Technical Ed

Program Level
Undergraduate

About this Degree
Federal Gainful Employment Information

The Pharmacy Technician program prepares students to support pharmacists by performing a wide range of practice-related duties for community, institutional, compounding, long-term care, mail-order, and other pharmaceutical settings. Students learn the most common medications, calculate dosages, process prescriptions, bill third-party insurance, learn aseptic techniques, and prepare sterile and non-sterile compounded medications. Students receive extensive hands-on training in the lab area using advanced pharmacy technology.

Licensure Notification
This program meets licensure requirements in the following states:

- UT
- After the successful completion of the required coursework and practicum, PhT students may sit for the **national certification**. Upon passing, students will be certified as a Certified Pharmacy Technician through Pharmacy Technician Certification Board (PTCB). PhT is a national certification; however, students do need to be licensed in the state of Utah first. After 1,000 working hours (approximately 6-8 months), they may then exercise reciprocity and get licensed in any state should they relocate.

Admission Requirements for this Program
Additional Application Process Required - See below, ask an advisor for details

1. Meet programmatic admission requirements
2. Maintain a 2.67 GPA throughout program

Personal Documentation Requirements:

- Pass background check and drug screen
- Provide documentation of Immunizations
- Annual Influenza Vaccine
- 2-Step TB Test

Physical Demands:

- Stand or sit for 10 hours per day
- Push and pull 50 pounds
- Lift and support 25 pounds
- Move within confined spaces
- Effective verbal communication in English without visual clues
- Hear normal speaking level sounds
- Hear in situations when not able to see lips (when masks are used)
- Communicate verbally with others

Program Requirements

Total Credits Required In Program Coursework
17

Total Credits Required To Earn This Credential
17

Simple Requisites

Program Requirements

Pharmacy Technician Course Requirements

Type
Completion Requirement

The following courses are required for the Pharmacy Technician Certificate of Completion:

Complete ALL of the following Courses:

- TEPT1010 - Introduction to Pharmacy - 3cr.
- TEPT1100 - Community Pharmacy Practice - 3cr.
- TEPT1110 - Institutional Pharmacy Practice - 3cr.
- TEPT1320 - Pharmacology - 3cr.
- TEPT1900 - Pharmacy Technician Externship - 4cr.
- TEPT1620 - Pharmacy Technician National Exam and State Licensure Readiness - 1cr.

Program Learning Outcomes

Program Learning Outcomes

- Practice personal and interpersonal skills needed in various pharmacy settings.
- Demonstrate the pharmacy technician's role in the medication-use process and wellness promotion.
- Recall the most utilized drugs by brand and generic name, indications, and interactions.
- Solve pharmacy mathematical calculations.
- Prepare sterile and non-sterile compounds.

Photonics - Post-Bachelor's Certificate

Program Overview

College
College of Arts & Sciences

Department
Physics, Electrical & Computer Engineering

Program Level
Graduate

About this Degree

The Photonics Post-Baccalaureate Certificate provides essential skills for careers in optics and photonics. The three required courses provide essential background and training. The eight elective courses cover a broad range of career directions. Quantum mechanics and solid-state physics are essential to the design of photonic devices. Microwave circuits, antennas, and electromagnetics are key to wireless communication. Microfabrication is used to create photonic devices for all applications. In addition to the courses we provide, students are encouraged to take summer internships with our industrial partners.

Program Requirements

Total Credits Required In Program Coursework
12

Total Credits Required To Earn This Credential
12

Simple Requisites

Program Requirements

12 credits.

Photonics - Post-Bachelor's Certificate

Type
Completion Requirement

Required Courses (9 credits)

Complete ALL of the following Courses:

- PHYS5210 - Introduction to Photonics and Devices - 3cr.
  OR ECE5210 - Introduction to Photonics and Devices - 3cr.
- PHYS5250 - Photonics Laboratory - 3cr.
  OR ECE5250 - Photonics Laboratory - 3cr.
- PHYS6650 - Optics I - 3cr.
  OR ECE6650 - Optics I - 3cr.

Elective Courses (3 credits)

Complete at least 1 of the following courses:

- ECE5700 - Introduction to Microfabrication - 3cr.
- ECE5800 - Electromagnetics II - 3cr.
- ECE5810 - Microwave Circuits I - 3cr.
- ECE5850 - Antennas I - 3cr.
- ECE6830 - Microwave Circuits II - 3cr.
- ECE7860 - Computational Electromagnetics A - 3cr.
- PHYS5700 - Introduction to Microfabrication - 3cr.
- PHYS6210 - Quantum Mechanics I - 3cr.
- PHYS6530 - Solid State Physics I - 3cr.

Program Learning Outcomes

Program Learning Outcomes

https://www.usu.edu/oda/assessment/

Photonics - Certificate

Program Overview

College
College of Arts & Sciences

Department
Physics

Program Level
Undergraduate

About this Degree

The Photonics Certificate introduces students to electromagnetism, quantum mechanics, optics, microfabrication, photonics, and integrated photonic devices, providing a broad background to pursue careers in photonics. The certificate program will build up students' employable skills in the photonics industry and provide a strong foundation for those who want to pursue graduate degrees in photonics.

Program Requirements

Total Credits Required In Program Coursework
21

Total Credits Required To Earn This Credential
21

Simple Requisites

Program Requirements

Photonics - Certificate

Type
Completion Requirement

Required Courses (21 credits)

Complete ALL of the following Courses:

- PHYS2710 - Introductory Modern Physics - 3cr.
- PHYS4600 - Electromagnetism II - 3cr.
  OR ECE5800 - Electromagnetics II - 3cr.
- PHYS5650 - Optics I - 3cr.
  OR ECE5650 - Optics I - 3cr.
- PHYS5210 - Introduction to Photonics and Devices - 3cr.
  OR ECE5210 - Introduction to Photonics and Devices - 3cr.
- PHYS5250 - Photonics Laboratory - 3cr.
  OR ECE5250 - Photonics Laboratory - 3cr.
- PHYS5700 - Introduction to Microfabrication - 3cr.
  OR ECE5700 - Introduction to Microfabrication - 3cr.
- PHYS4700 - Quantum Mechanics I - 3cr.
  OR ECE5850 - Antennas I - 3cr.

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Undergraduate Academic or Technical Certificates)

Program Learning Outcomes

Program Learning Outcomes

https://www.usu.edu/physics/assessments/index

Physics Teaching - Minor

Program Overview

College
College of Arts & Sciences

Department
Physics

Program Level
Undergraduate

Program Requirements

Total Credits Required In Program Coursework
22-27

Total Credits Required To Earn This Credential
22-27

Simple Requisites

Program Requirements

Students in any teaching major may obtain the Physics Teaching - Minor by successfully completing the requirements listed below. A minimum of 22 credits is required for the Physics Teaching - Minor. Admission to STEP requires an overall GPA of 3.0. All PHYS courses require a grade of C or better.

Required credits: 22-23 (depending on electives chosen), plus STEP requirements.

Section 1

Type
Completion Requirement

Required Courses (23 credits)

Complete ALL of the following Courses:

- PHYS1040 - Introductory Astronomy (BPS) - 3cr.
- PHYS2210 - Physics for Scientists and Engineers I (QI/BPS) - 4cr.
- PHYS2215 - Physics for Scientists and Engineers Lab I - 1cr.
- PHYS2220 - Physics for Scientists and Engineers II (BPS/QI) - 4cr.
- PHYS2225 - Physics for Scientists and Engineers Lab II - 1cr.
- CS1400 - Introduction to Computer Science--CS 1 - 4cr.
- PHYS2710 - Introductory Modern Physics - 3cr.

• Any PHYS course 3000 level and above.

Physics Teaching Minor (STEP) Courses (4 credits)

Complete ALL of the following Courses:

- SCED3300 - Clinical Experience I - 1cr.
- SCED5820 - Science Education Teaching and Dispositions Knowledge - 3cr.

Additional Comments:

Licensure Notification

This program typically leads to licensure and was designed to meet licensing qualifications in the state of Utah. If students wish to work in another state within the United States, they should review the qualifications for that state and the Education Licensure Compliance Table provided by School of Teacher Education and Leadership.

For more information, please contact the School of Teacher Education and Leadership at https://cehs.usu.edu/teal/

Program Learning Outcomes

Program Learning Outcomes
https://www.usu.edu/physics/assessments/index

Physics Teaching - BS

Program Overview

College
College of Arts & Sciences

Department
Physics

Program Level
Undergraduate

About this Degree
Physics is the study of matter and energy and their interactions.

Students study both the theory of physics and experiment using those theories as a guide. Physics teaching majors take classes in thermal physics, intermediate modern physics, wave phenomena, electromagnetism, and quantum mechanics, as well as teaching courses.

- For more information about Physics, see the Department of Physics website.
- Admitted and current students must meet with the advisor, Vanessa Chambers.
- Log on to Degree Works to check student-specific program progress.
- The highest math requirement for this degree is MATH1220 CALCULUS II (QL). Suggested schedule assumes student has passed MATH1210 CALCULUS I (QL).

Additional Information

Courses used to fulfill major requirements may *not* be taken on a pass/fail basis, except those courses that are only taught pass/fail.

Admission Requirements for this Program
- New freshmen must be admitted to USU in Good Standing and an overall GPA of 2.0.
- Transfer students from other institutions or other programs at USU must have a 2.20 GPA.
- A combined GPA of 3.0 is required to be admitted to SCED program.

Program Requirements

Total Credits Required In Program Coursework
98-100

Total Credits Required To Earn This Credential
120

Simple Requisites

Program Requirements

Physics Teaching - BS

Type
Completion Requirement

Major Requirements (37 credits)

All courses must be passed with a grade of C or better.

Complete ALL of the following Courses:

- BIOL1010 - Biology and the Citizen (BLS) - 3cr.
  OR BIOL1610 - Biology I - 3cr.
- CHEM1210 - Principles of Chemistry I - 4cr.
- CS1400 - Introduction to Computer Science--CS 1 - 4cr.
- GEO1110 - Physical Geology (BPS) - 3cr.
- GEO1115 - Physical Geology Laboratory - 1cr.
- PHYS1040 - Introductory Astronomy (BPS) - 3cr.
- PHYS2210 - Physics for Scientists and Engineers I (QI/BPS) -

4cr.
OR PHYS2310 - Physics for Scientists I (BPS) - 4cr.
- PHYS2215 - Physics for Scientists and Engineers Lab I - 1cr.
- PHYS2220 - Physics for Scientists and Engineers II (BPS/QI) - 4cr.
  OR PHYS2320 - Physics for Scientists II (BPS) - 4cr.
- PHYS2225 - Physics for Scientists and Engineers Lab II - 1cr.
- PHYS2710 - Introductory Modern Physics - 3cr.
- PHYS3710 - Intermediate Modern Physics - 3cr.
- PHYS3870 - Intermediate Physics Laboratory (CI) - 3cr.

Physics Teaching Math Requirements (11 credits)

All courses must be passed with a grade of C or better.

Complete ALL of the following Courses:
- MATH1210 - Calculus I (QL) - 4cr.
- MATH1220 - Calculus II (QL) - 4cr.
- STAT3000 - Statistics for Scientists (QI) - 3cr.

Physics Electives (6 credits)

All courses must be passed with a grade of C or better.

Complete ALL of the following Courses:
- PHYS3010 - Space Exploration from Earth to the Solar System (DSC/QI) - 3cr.
  OR PHYS3030 - The Universe (DSC/QI) - 3cr.
  OR PHYS3150 - Energy in the Twenty-first Century (DSC/QI) - 3cr.
- PHYS3700 - Thermal Physics - 3cr.
  OR PHYS3880 - Advanced Physics Laboratory (CI) - 3cr.

General Science Requirements (6-8 credits)

A minimum grade of C is required for all courses. In addition, students must select one full Science Series (2 semesters) from the following:

Fulfill ANY of the following requirements:

Biology Series

Complete ALL of the following Courses:
- BIOL1610 - Biology I - 3cr.
- BIOL1620 - Biology II (BLS) - 3cr.

OR

Chemistry Series

Complete ALL of the following Courses:
- CHEM1210 - Principles of Chemistry I - 4cr.
- CHEM1220 - Principles of Chemistry II (BPS) - 4cr.

OR

Geology Series

Complete ALL of the following Courses:
- GEO1110 - Physical Geology (BPS) - 3cr.
  AND GEO1115 - Physical Geology Laboratory - 1cr.
- GEO2200 - The Earth Through Time - 3cr.

OR

Computer Science Series

Complete ALL of the following Courses:
- CS1400 - Introduction to Computer Science--CS 1 - 4cr.
- CS1410 - Introduction to Computer Science--CS 2 (QI) - 3cr.
  OR CS1440 - Software Engineering Fundamentals - 3cr.

Required Courses for the Secondary Teacher Education Program (38 credits)

All courses must be passed with a grade of C or better.

Fulfill ALL of the following requirements:

STEP Admission Courses

This course may be taken prior to admission.

Complete ALL of the following Courses:
- ITLS2500 - Technology Enabled Instruction - 3cr.

AND

Secondary Education courses, continued

Complete ALL of the following Courses:
- SCED3210 - Educational and Multicultural Foundations (DSS/CI) - 3cr.
- SCED3300 - Clinical Experience I - 1cr.
- SCED4300 - Clinical Experience II - 1cr.
- SCED5100 - Motivation and Classroom Management - 3cr.
- SCED5200 - Language, Literacy, and Learning in the Content Areas (CI) - 3cr.
- SCED5210 - Learning Theory, Curriculum, and Assessment - 3cr.
- SCED5500 - Student Teaching Seminar - 2cr.
- SCED5630 - Student Teaching in Secondary Schools - 10cr.
- SCED5820 - Science Education Teaching and Dispositions Knowledge - 3cr.
- SCED5821 - Three-Dimensional Science and Engineering Pedagogical Knowledge - 3cr.
- SPED4000 - Education of Students with Disabilities - 3cr.

Open Electives

Complete the following as needed:
Total elective credit is determined by General Education courses taken, degree type selected, additional credits earned, and any additional math or other prerequisite courses needed. Please consult your Academic Advisor for details.

Additional Comments:

Licensure Notification

This program typically leads to licensure and was designed to meet licensing qualifications in the state of Utah. If students wish to work in another state within the United States, they should review the qualifications for that state and the Education Licensure Compliance Table provided by School of Teacher Education and Leadership.

For more information, please contact the School of Teacher Education and Leadership at https://cehs.usu.edu/teal/.

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Bachelor's Degree)

Suggested Degree Maps

Degree Map Name
Suggested Degree Map - Physics Teaching BS
Total Degree Map Credits
122 - 123
Degree Map Effective Catalog Year
2027 -

Degree Map Narrative

- Following is a sample four-year plan. Please note that student-specific plans may differ.
- Meet with an academic advisor to create a specific plan that best fits your academic needs.
- The student is ultimately responsible for knowing and completing all degree requirements.
- Make sure you meet the registration requirements for each class by clicking the course link and checking any prerequisites or corequisites.
- Consultation with an advisor may result in an altered plan customized for an individual student.
- Check your Degree Works for requirements and completion.

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	15 - 16	0

Requirement Select
- MATH1220 - Calculus II (QL)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- PHYS2210 - Physics for Scientists and Engineers I (QI/BPS)
  OR
- PHYS2310 - Physics for Scientists I (BPS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- PHYS2215 - Physics for Scientists and Engineers Lab I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- PHYS - General Science Requirement (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Breadth American Institutions (BAI) Course
  OR
- Breadth Creative Arts (BCA) Course
  OR
- Breadth Humanities (BHU) Course
  OR
- Breadth Life Sciences (BLS) Course
  OR
- Breadth Physical Sciences (BPS) Course
  OR
- Breadth Social Sciences (BSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- BIOL 1010 Recommended for General Education Breadth Course. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	16	0

Requirement Select

- PHYS2220 - Physics for Scientists and Engineers II (BPS/QI)
  OR
- PHYS2320 - Physics for Scientists II (BPS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- PHYS2225 - Physics for Scientists and Engineers Lab II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- PHYS - General Science Requirement fulfilled by GEO1110/ GEO1115 (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- GEO1110 - Physical Geology (BPS)
- **AND** GEO1115 - Physical Geology Laboratory

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- Breadth American Institutions (BAI) Course
  OR
- Breadth Creative Arts (BCA) Course
  OR
- Breadth Humanities (BHU) Course
  OR
- Breadth Life Sciences (BLS) Course
  OR
- Breadth Physical Sciences (BPS) Course
  OR
- Breadth Social Sciences (BSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	17	0

Requirement Select

- ENGL1010 - Writing as Inquiry (CL1)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- CHEM1210 - Principles of Chemistry I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- CS1400 - Introduction to Computer Science--CS 1

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- PHYS1040 - Introductory Astronomy (BPS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- PHYS2710 - Introductory Modern Physics

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	16	0

Requirement Select

- Apply for STEP (Secondary Teacher Education Program). (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- PHYS3710 - Intermediate Modern Physics

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Elective Physics Course 3000+ (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- PHYS 3030 - The Universe (DSC/QI) (recommended) for Elective Physics Course 3000+ (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Breadth American Institutions (BAI) Course
  OR
- Breadth Creative Arts (BCA) Course
  OR
- Breadth Humanities (BHU) Course
  OR
- Breadth Life Sciences (BLS) Course
  OR
- Breadth Physical Sciences (BPS) Course
  OR
- Breadth Social Sciences (BSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- PHYS - General Science Requirement (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- STAT3000 - Statistics for Scientists (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Fall	14	0

Requirement Select

- A grade of C or better is required in all graded STEP courses. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- ENGL2010 - Research and Argument Across Perspectives (CL2)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- PHYS3870 - Intermediate Physics Laboratory (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- SCED3300 - Clinical Experience I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- SCED5820 - Science Education Teaching and Dispositions Knowledge

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- PHYS - College of Science Sequence Requirement (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Spring	16	0

Requirement Select

- A grade of C or better is required in all graded STEP courses. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- ITLS2500 - Technology Enabled Instruction

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- ITLS2500 Can be taken before admittance into program. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- SCED5100 - Motivation and Classroom Management

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- SCED3210 - Educational and Multicultural Foundations (DSS/CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- SCED4300 - Clinical Experience II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- SCED5821 - Three-Dimensional Science and Engineering Pedagogical Knowledge

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- University Breadth Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Fall	16	0

Requirement Select

- A grade of C or better is required in all graded STEP courses. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- SPED4000 - Education of Students with Disabilities

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- SCED5200 - Language, Literacy, and Learning in the Content Areas (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- SCED5210 - Learning Theory, Curriculum, and Assessment

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Depth Humanities and Creative Arts (DHA) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Please see advisor for DHA course selection. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- PHYS - General Science Requirement (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Spring	12	0

Requirement Select

- A grade of C or better is required in all graded STEP courses. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- SCED5500 - Student Teaching Seminar

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select

- SCED5630 - Student Teaching in Secondary Schools

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	10
Progress Credits	-
Contact Hours	10
Clinical	-
Criticality	No

Total General Education Credits
0

Total Major Credits
0

Total Minor Credits
0

Total Elective Credits
0

Program Learning Outcomes

Program Learning Outcomes

https://www.usu.edu/oda/assessment/

Physics - Minor

Program Overview

College
College of Arts & Sciences

Department
Physics

Program Level
Undergraduate

Program Requirements

Total Credits Required In Program Coursework
20

Total Credits Required To Earn This Credential
20

Simple Requisites

Program Requirements

Majors in other departments may obtain a minor in physics by successfully completing the following courses. All courses for this minor must be passed with a C- or better.

Section 1

Type
Completion Requirement

Required Courses (14 credits)

Complete ALL of the following Courses:

- PHYS2210 - Physics for Scientists and Engineers I (QI/BPS) - 4cr.
  OR PHYS2310 - Physics for Scientists I (BPS) - 4cr.
- PHYS2215 - Physics for Scientists and Engineers Lab I - 1cr.
- PHYS2220 - Physics for Scientists and Engineers II (BPS/QI) - 4cr.
  OR PHYS2320 - Physics for Scientists II (BPS) - 4cr.
- PHYS2225 - Physics for Scientists and Engineers Lab II - 1cr.
- PHYS2710 - Introductory Modern Physics - 3cr.
- PHYS5800 - Physics Colloquium - 1cr.

Section 2

Type
Completion Requirement

Elective Credits (6 credits)

Earn at least 6 credits

- 1 PHYS course at 3000 level or above
- 1 PHYS course at 3500 level or above

Program Learning Outcomes

Program Learning Outcomes

https://www.usu.edu/physics/assessments/index

Physics: Applied Emphasis - BS

Program Overview

College
College of Arts & Sciences

Department
Physics

Program Level
Undergraduate

About this Degree

Physics is the study of matter and energy and their interactions.

Students study both the theory of physics and experiment using those theories as a guide. At USU, all students participate in faculty-mentored research, gaining valuable experience in campus research centers and laboratories. This makes USU students better prepared for entrance into either the workforce or graduate school.

Applied Emphasis: This emphasis is recommended for students preparing for graduate work in applied physics, engineering physics, materials science, or an interdisciplinary area, such as biophysics, medical physics, geophysics, or chemical physics.

- For more information about Physics, see the Department of Physics website.
- Admitted and current students must meet with the advisor, Vanessa Chambers
- Log on to Degree Works to check student-specific program progress.
- The highest math requirement for this degree is MATH2280 ORD DIFFRNTIAL EQUATIONS (QI). Suggested schedule assumes student has passed MATH1210 CALCULUS I (QL).

Admission Requirements for this Program

- New freshmen must be admitted to USU in Good Standing.
- Transfer students from other institutions or other programs at USU must have a 2.20 GPA.

Program Requirements

Total Credits Required In Program Coursework
65

Total Credits Required To Earn This Credential
120

Simple Requisites

Program Requirements

Courses used to fulfill major requirements may *not* be taken on a pass/fail basis

Physics: Applied Emphasis - BS

Type
Completion Requirement

Major Requirements (37 credits)

All major courses must be passed with a grade of C- or better.

Complete ALL of the following Courses:

- CS1400 - Introduction to Computer Science--CS 1 - 4cr.
- PHYS2210 - Physics for Scientists and Engineers I (QI/BPS) - 4cr.
  OR PHYS2310 - Physics for Scientists I (BPS) - 4cr.
- PHYS2215 - Physics for Scientists and Engineers Lab I - 1cr.
- PHYS2220 - Physics for Scientists and Engineers II (BPS/QI) - 4cr.
  OR PHYS2320 - Physics for Scientists II (BPS) - 4cr.
- PHYS2225 - Physics for Scientists and Engineers Lab II - 1cr.
- PHYS2710 - Introductory Modern Physics - 3cr.
- PHYS3550 - Intermediate Classical Mechanics - 3cr.
- PHYS3600 - Electromagnetism I - 3cr.
- PHYS3700 - Thermal Physics - 3cr.
- PHYS3870 - Intermediate Physics Laboratory (CI) - 3cr.
- PHYS3880 - Advanced Physics Laboratory (CI) - 3cr.
- PHYS5650 - Optics I - 3cr.
- PHYS4900 - Research in Physics (CI) - 1cr.

Applied Major Math Requirements (13 credits)

All courses require a grade of C- or better.

Complete ALL of the following Courses:

- MATH1220 - Calculus II (QL) - 4cr.
- MATH2210 - Multivariable Calculus (QI) - 3cr.
- MATH2270 - Linear Algebra (QI) - 3cr.
- MATH2280 - Ordinary Differential Equations (QI) - 3cr.

College of Science Sequence Requirement (3-8 credits)

Select one full science series. (***Teaching majors must also complete the first course of two of the other three series.***)

Only 3 credits if Computer Science sequence is selected (as CS1400 INTRO COMPUTER SCIENCE 1 is required for the major). Else, 6-8 credits to satisfy the College of Science Requirement.

Fulfill ANY of the following requirements:

Biology Series

Complete ALL of the following Courses:

- BIOL1610 - Biology I - 3cr.
- BIOL1620 - Biology II (BLS) - 3cr.

OR

Chemistry Series

Complete ALL of the following Courses:

- CHEM1210 - Principles of Chemistry I - 4cr.
- CHEM1220 - Principles of Chemistry II (BPS) - 4cr.

OR

Geology Series

Complete ALL of the following Courses:

- GEO1110 - Physical Geology (BPS) - 3cr.
  AND GEO1115 - Physical Geology Laboratory - 1cr.
- GEO2200 - The Earth Through Time - 3cr.

OR

Computer Science Series

Complete ALL of the following Courses:

- CS1400 - Introduction to Computer Science--CS 1 - 4cr.
- CS1410 - Introduction to Computer Science--CS 2 (QI) - 3cr.
  OR CS1440 - Software Engineering Fundamentals - 3cr.

Elective Technical Courses (12 credits)

Complete the following:
Select 12 credits from courses in other technical departments at the 3000-level or above with a coherent theme. Selected courses require approval of the Physics advisor. Elective courses must be passed with a grade of C- or better.

Open Electives

Complete the following as needed:
Total elective credit is determined by General Education courses taken, degree type selected, additional credits earned, and any additional math or other prerequisite courses needed. Please consult your Academic Advisor for details.

Minimum University Requirements

Minimum University Requirements
Minimum University Requirements (Bachelor's Degree)

Suggested Degree Maps

Degree Map Name
Suggested Degree Map - Physics: Applied Emphasis BS
Total Degree Map Credits
121
Degree Map Effective Catalog Year
2027 -

Degree Map Narrative

- Following is a sample four-year plan. Please note that student-specific plans may differ.
- Meet with an academic advisor to create a specific plan that best fits your academic needs.
- The student is ultimately responsible for knowing and completing all degree requirements.
- Make sure you meet the registration requirements for each class by clicking the course link and checking any prerequisites or corequisites.
- Consultation with an advisor may result in an altered plan customized for an individual student.
- Check your Degree Works for requirements and completion.

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	15	0

Requirement Select
- MATH1220 - Calculus II (QL)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- PHYS2210 - Physics for Scientists and Engineers I (QI/BPS) **OR**
- PHYS2310 - Physics for Scientists I (BPS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- PHYS2215 - Physics for Scientists and Engineers Lab I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- University Studies Breadth Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	15	0

Requirement Select
- ENGL1010 - Writing as Inquiry (CL1)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- MATH2210 - Multivariable Calculus (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- PHYS2220 - Physics for Scientists and Engineers II (BPS/QI)

OR

- PHYS2320 - Physics for Scientists II (BPS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- PHYS2225 - Physics for Scientists and Engineers Lab II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- MATH2270 - Linear Algebra (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Advisor-Directed Elective credits (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	14	0

Requirement Select

- MATH2280 - Ordinary Differential Equations (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- PHYS2710 - Introductory Modern Physics

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- PHYS - College of Science Sequence Requirement (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- CS1400 - Introduction to Computer Science--CS 1

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	16	0

Requirement Select
- ENGL2010 - Research and Argument Across Perspectives (CL2)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- PHYS3550 - Intermediate Classical Mechanics

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- PHYS - College of Science Sequence Requirement (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- University Studies Breadth Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	General Education
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Advisor-Directed Elective credits (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Fall	15	0

Requirement Select
- Elective Technical Course must be 3000+ level with coherent theme. Consult program advisor. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- PHYS3600 - Electromagnetism I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- PHYS3870 - Intermediate Physics Laboratory (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- University Studies Breadth Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	General Education
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Elective Technical Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Advisor-Directed Elective Credits (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Spring	16	0

Requirement Select

- Elective Technical Course must be 3000+ level with coherent theme. Consult program advisor. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- PHYS3880 - Advanced Physics Laboratory (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Elective Technical Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- University Studies Depth Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Advisor-Directed Elective Credits (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- University Studies Breadth Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Fall	15	0

Requirement Select
- Elective Technical Course must be 3000+ level with coherent theme. Consult program advisor. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- PHYS5650 - Optics I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Elective Technical Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- University Studies Depth Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Advisor-Directed Elective Credits (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Spring	15	0

Requirement Select
- Elective Technical Course must be 3000+ level with coherent theme. Consult program advisor. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- PHYS3700 - Thermal Physics

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- PHYS4900 - Research in Physics (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	1 - 3
Clinical	-
Criticality	No

Requirement Select

- PHTS4900 2 credits required. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Elective Technical Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Advisor-Directed Elective Credits (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	7
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
6	0
Total Minor Credits	**Total Elective Credits**
0	0

Program Learning Outcomes

Program Learning Outcomes

https://www.usu.edu/oda/assessment/

Physics - BA

Program Overview

College
College of Arts & Sciences

Department
Physics

Program Level
Undergraduate

About this Degree

Physics is the study of matter and energy and their interactions.

Students study both the theory of physics and experiment using those theories as a guide. At USU, all students participate in faculty-mentored research, gaining valuable experience in campus research centers and laboratories. This makes USU students better prepared for entrance into either the workforce or graduate school.

Students receive a BS by completing all required courses in the major. To receive a BA, students must also gain proficiency in one or more foreign languages.

- For more information about Physics, see the Department of Physics website.
- Admitted and current students must meet with the advisor, Vanessa Chambers.
- Log on to Degree Works to check student-specific program progress.
- The highest math requirement for this degree is MATH2280 ORD DIFFRNTIAL EQUATIONS (QI). Suggested schedule assumes student has passed MATH1210 CALCULUS I (QL).

Admission Requirements for this Program

- New freshmen must be admitted to USU in Good Standing.
- Transfer students from other institutions or other programs at USU must have a 2.20 GPA.

Program Requirements

Total Credits Required In Program Coursework
57-59

Total Credits Required To Earn This Credential
120

Simple Requisites

Program Requirements

Courses used to fulfill major requirements may *not* be taken on a pass/fail basis.

- College of Science Sequence Requirement consists of 7-8 credits, i.e., a year-long introduction course in biology, chemistry, geology, or computer science to be selected by the student and completed in their freshman year.
- University Studies Breadth courses consist of 18 credits. These are distributed through freshman, sophomore, and into the junior year. Experience has shown that taking the majority of these credits in the first year has a negative impact on our majors.
- Elective credits. This particular degree offering enables the student to complement their physics interest with up to 15 credits from other disciplines. These could consist of computer science, mathematics, geology, English, etc. Working with the physics advisor in the sophomore/junior year would enable a timely plan to be created based upon the student's developing career goals.

Physics - BA

Type
Completion Requirement

Major Requirements (39 credits)

All major courses must be passed with a grade of C- or better.

Fulfill ALL of the following requirements:

Required Courses

Complete ALL of the following Courses:

- MATH1220 - Calculus II (QL) - 4cr.
- MATH2210 - Multivariable Calculus (QI) - 3cr.
- MATH2270 - Linear Algebra (QI) - 3cr.
- MATH2280 - Ordinary Differential Equations (QI) - 3cr.
- PHYS2215 - Physics for Scientists and Engineers Lab I - 1cr.
- PHYS2225 - Physics for Scientists and Engineers Lab II - 1cr.
- PHYS2500 - Introduction to Computer Methods in Physics - 2cr.
- PHYS2710 - Introductory Modern Physics - 3cr.
- PHYS3550 - Intermediate Classical Mechanics - 3cr.
- PHYS3600 - Electromagnetism I - 3cr.
- PHYS3870 - Intermediate Physics Laboratory (CI) - 3cr.
- PHYS4900 - Research in Physics (CI) - 1cr.

AND

Required Course Options

Complete one of the following course sets.

Fulfill ANY of the following requirements:

Option 1

Complete ALL of the following Courses:

- PHYS2210 - Physics for Scientists and Engineers I (QI/BPS) - 4cr.
- PHYS2220 - Physics for Scientists and Engineers II (BPS/QI) - 4cr.

OR

Option 2

Complete ALL of the following Courses:

- PHYS2310 - Physics for Scientists I (BPS) - 4cr.
- PHYS2320 - Physics for Scientists II (BPS) - 4cr.

Physics Electives (6 credits)

Complete the following:

• Choose 2 Physics courses at the 3500+ level (6 credits total). Must pass with a C- or better.

Philosophy Requirements (6 credits)

Choose 2 courses (6 credits) from the following list. Must pass with a C- or better.

Complete at least 2 of the following courses:

- PHIL4300 - Epistemology (DHA) - 3cr.
- PHIL4310 - Philosophy of Science (DHA) - 3cr.
- PHIL4400 - Metaphysics - 3cr.
- PHIL4410 - Philosophy of Mind (DHA) - 3cr.

College of Science Sequence Requirement (6-8 credits)

Complete one of the following Series. ***(Teaching majors must also complete the first course of two of the other three series.)***

Fulfill ANY of the following requirements:

Biology Series

Complete ALL of the following Courses:

- BIOL1610 - Biology I - 3cr.
- BIOL1620 - Biology II (BLS) - 3cr.

OR

Chemistry Series

Complete ALL of the following Courses:

- CHEM1210 - Principles of Chemistry I - 4cr.
- CHEM1220 - Principles of Chemistry II (BPS) - 4cr.

OR

Geology Series

Complete ALL of the following Courses:

- GEO1110 - Physical Geology (BPS) - 3cr.
  AND GEO1115 - Physical Geology Laboratory - 1cr.
- GEO2200 - The Earth Through Time - 3cr.

OR

Computer Science Series

Complete ALL of the following Courses:

- CS1400 - Introduction to Computer Science--CS 1 - 4cr.
- CS1410 - Introduction to Computer Science--CS 2 (QI) - 3cr.
  OR CS1440 - Software Engineering Fundamentals - 3cr.

Required Language Courses (16 credits)

Complete the following:
Two years' training or equivalent (16 credits) in a foreign language approved by the Department of World Languages and Cultures. For further information, see the Bachelor of Arts Degree Requirements on the Undergraduate Academic Credential Requirements page of this catalog.

Open Electives

Complete the following as needed:
Total elective credit is determined by General Education courses taken, degree type selected, additional credits earned, and any additional math or other prerequisite courses needed. Please consult your Academic Advisor for details.

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Bachelor's Degree)

Suggested Degree Maps

Degree Map Name
Suggested Degree Map - Physics BA

Total Degree Map Credits
125
Degree Map Effective Catalog Year
2026 -

Degree Map Narrative

- Following is a sample four-year plan. Please note that student-specific plans may differ.
- Meet with an academic advisor to create a specific plan that best fits your academic needs.
- The student is ultimately responsible for knowing and completing all degree requirements.
- Make sure you meet the registration requirements for each class by clicking the course link and checking any prerequisites or corequisites.
- Consultation with an advisor may result in an altered plan customized for an individual student.
- Check your Degree Works for requirements and completion.

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	16	0

Requirement Select

- *College of Science Sequence Requirement consists of 7-8 credits, i.e., a year-long introduction course in biology, chemistry, geology or computer science to be selected by the student and completed in their freshman year. **University Studies Breadth courses consist of 18 credits. These are distributed through freshman, sophomore, and into the junior year. Experience has shown that taking the majority of these credits in the first year has a negative impact on our majors. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- MATH1220 - Calculus II (QL)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- PHYS2210 - Physics for Scientists and Engineers I (QI/BPS)
  OR
- PHYS2310 - Physics for Scientists I (BPS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- PHYS2215 - Physics for Scientists and Engineers Lab I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- PHYS - College of Science Sequence Requirement (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- University Studies Breadth Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	15	0

Requirement Select

- *College of Science Sequence Requirement consists of 7-8 credits, i.e., a year-long introduction course in biology, chemistry, geology or computer science to be selected by the student and completed in their freshman year. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- MATH2210 - Multivariable Calculus (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- PHYS2220 - Physics for Scientists and Engineers II (BPS/QI)
  OR
- PHYS2320 - Physics for Scientists II (BPS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- PHYS2225 - Physics for Scientists and Engineers Lab II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- PHYS - College of Science sequence requirement (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- MATH2270 - Linear Algebra (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	15	0

Requirement Select
- ENGL1010 - Writing as Inquiry (CL1)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- MATH2280 - Ordinary Differential Equations (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- PHYS2500 - Introduction to Computer Methods in Physics

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select
- PHYS2710 - Introductory Modern Physics

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Required Language Courses 1010 (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	16	0

Requirement Select
- *University Studies Breadth courses consist of 18 credits. These are distributed through freshman, sophomore, and into the junior year. Experience has shown that taking the majority of these credits in the first year has a negative impact on our majors. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Choose two of the following Philosophy courses (6 credits total): (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- PHIL4300 - Epistemology (DHA)
  OR
- PHIL4310 - Philosophy of Science (DHA)
  OR
- PHIL4400 - Metaphysics
  OR
- PHIL4410 - Philosophy of Mind (DHA)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- University Studies Breadth Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- ENGL2010 - Research and Argument Across Perspectives (CL2)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Required Language Courses 1020 (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Fall	16	0

Requirement Select

- *University Studies Breadth courses consist of 18 credits. These are distributed through freshman, sophomore and into the junior year. Experience has shown that taking the majority of these credits in the first year has a negative impact on our majors. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- PHYS3600 - Electromagnetism I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- PHYS3870 - Intermediate Physics Laboratory (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- University Studies Breadth Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- University Studies Breadth Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Required Language Courses 2010 (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Spring	16	0

Requirement Select
- *University Studies Breadth courses consist of 18 credits. These are distributed through freshman, sophomore and into the junior year. Experience has shown that taking the majority of these credits in the first year has a negative impact on our majors. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- PHYS3550 - Intermediate Classical Mechanics

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- PHYS3710 - Intermediate Modern Physics
  OR
- Elective course 3500+ level (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- University Studies Depth Course (DSS) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Required Language Courses 2020 (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- University Studies Breadth Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Fall	16	0

Requirement Select

- *University Studies Breadth courses consist of 18 credits. These are distributed through freshman, sophomore, and into the junior year. Experience has shown that taking the majority of these credits in the first year has a negative impact on our majors. Elective credits: This particular degree offering enables the student to complement their physics interest with up to 15 credits from other disciplines. These could consist of computer science, mathematics, geology, English, etc. Working with the physics advisor in the sophomore/junior year would enable a timely plan to be created based upon the student's developing career goals. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Physics Elective Course at 3500+ level (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- University Studies Breadth Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Advisor-Directed Elective Credits (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	9
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- PHYS4900 register for 1 credit. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- PHYS4900 - Research in Physics (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1 - 3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Spring	15	0

Requirement Select

- Elective credits: This particular degree offering enables the student to complement their physics interest with up to 15 credits from other disciplines. These could consist of computer science, mathematics, geology, English, etc. Working with the physics advisor in the sophomore/junior year would enable a timely plan to be created based upon the student's developing career goals. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- PHYS4900 register for 1 credit. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- PHYS4900 - Research in Physics (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1 - 3
Clinical	-
Criticality	No

Requirement Select

- Advisor-Directed Elective Credits (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	14
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Program Learning Outcomes

Program Learning Outcomes

https://www.usu.edu/oda/assessment/

Physics - BS

Program Overview

College
College of Arts & Sciences

Department
Physics

Program Level
Undergraduate

About this Degree

Physics is the study of matter and energy and their interactions.

Students study both the theory of physics and experiment using those theories as a guide. At USU, all students participate in faculty-mentored research, gaining valuable experience in campus research centers and laboratories. This makes USU students better prepared for entrance into either the workforce or graduate school.

Beyond the experimental facilities at USU, many students are involved in theoretical work, data analysis, and computer simulations in general relativity and field theory, space weather forecasting, surface science, and complex system applications. There is also a Physics Learning Center available for undergraduate physics students where physics graduate students provide individualized help with homework concerns.

Students receive a BS by completing all required courses in the major. To receive a BA, students must also gain proficiency in one or more foreign languages.

- For more information about Physics, see the Department of Physics website.
- Admitted and current students must meet with the advisor, Vanessa Chambers
- Log on to Degree Works to check student-specific program progress.
- The highest math requirement for this degree is MATH2280 ORD DIFFRNTIAL EQUATIONS (QI). Suggested schedule assumes student has passed MATH1210 CALCULUS I (QL).

Admission Requirements for this Program

- New freshmen must be admitted to USU in Good Standing.
- Transfer students from other institutions or other programs at USU must have a 2.20 GPA.

Program Requirements

Total Credits Required In Program Coursework
56-61

Total Credits Required To Earn This Credential
120

Simple Requisites

Program Requirements

Courses used to fulfill major requirements may *not* be taken on a pass/fail basis.

Physics - BS

Type
Completion Requirement

Major Requirements (28 credits)

All courses must be passed with a C- or better.

Complete ALL of the following Courses:

- CS1400 - Introduction to Computer Science--CS 1 - 4cr.
- PHYS2210 - Physics for Scientists and Engineers I (QI/BPS) - 4cr.
  OR PHYS2310 - Physics for Scientists I (BPS) - 4cr.
- PHYS2215 - Physics for Scientists and Engineers Lab I - 1cr.
- PHYS2220 - Physics for Scientists and Engineers II (BPS/QI) - 4cr.
  OR PHYS2320 - Physics for Scientists II (BPS) - 4cr.
- PHYS2225 - Physics for Scientists and Engineers Lab II - 1cr.
- PHYS2710 - Introductory Modern Physics - 3cr.
- PHYS3550 - Intermediate Classical Mechanics - 3cr.
- PHYS3600 - Electromagnetism I - 3cr.
- PHYS3870 - Intermediate Physics Laboratory (CI) - 3cr.
- PHYS4900 - Research in Physics (CI) - 1cr.

Required Math Courses (13 credits)

All courses must be passed with a C- or better.

Complete ALL of the following Courses:

- MATH1220 - Calculus II (QL) - 4cr.
- MATH2210 - Multivariable Calculus (QI) - 3cr.
- MATH2270 - Linear Algebra (QI) - 3cr.
- MATH2280 - Ordinary Differential Equations (QI) - 3cr.

BS Degree Requirements (6 credits)

All courses must be passed with a C- or better.

Complete ALL of the following Courses:

- PHYS3700 - Thermal Physics - 3cr.
  OR PHYS5650 - Optics I - 3cr.
- PHYS3710 - Intermediate Modern Physics - 3cr.

Elective Physics Courses (6 credits)

All courses must be passed with a grade of C- or better.

Earn at least 6 credits

- Select 6 additional Physics credits at the 3500 level and above (not including PHYS5800 PHYSICS COLLOQUIUM).

College of Science Sequence Requirement (3-8 credits)

Select one full science series. (***Teaching majors must also complete the first course of two of the other three series.***)

Fulfill ANY of the following requirements:

Biology Series

Complete ALL of the following Courses:

- BIOL1610 - Biology I - 3cr.
- BIOL1620 - Biology II (BLS) - 3cr.

OR

Chemistry Series

Complete ALL of the following Courses:

- CHEM1210 - Principles of Chemistry I - 4cr.
- CHEM1220 - Principles of Chemistry II (BPS) - 4cr.

OR

Geology Series

Complete ALL of the following Courses:

- GEO1110 - Physical Geology (BPS) - 3cr.
  AND GEO1115 - Physical Geology Laboratory - 1cr.
- GEO2200 - The Earth Through Time - 3cr.

OR

Computer Science Series

Complete ALL of the following Courses:

- CS1400 - Introduction to Computer Science--CS 1 - 4cr.
- CS1410 - Introduction to Computer Science--CS 2 (QI) - 3cr.
  OR CS1440 - Software Engineering Fundamentals - 3cr.

Only 3 credits if Computer Science sequence is selected (as CS1400 INTRO COMPUTER SCIENCE 1 is required for the major). Else, 6-8 credits to satisfy the College of Science Requirement.

Open Electives

Complete the following as needed:
Total elective credit is determined by General Education courses taken, degree type selected, additional credits earned, and any additional math or other prerequisite courses needed. Please consult your Academic Advisor for details.

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Bachelor's Degree)

Suggested Degree Maps

Degree Map Name
Suggested Degree Map - Physics BS
Total Degree Map Credits
118
Degree Map Effective Catalog Year
2027 -

Degree Map Narrative

- Following is a sample four-year plan. Please note that student-specific plans may differ.
- Meet with an academic advisor to create a specific plan that best fits your academic needs.
- The student is ultimately responsible for knowing and completing all degree requirements.
- Make sure you meet the registration requirements for each class by clicking the course link and checking any prerequisites or corequisites.
- Consultation with an advisor may result in an altered plan customized for an individual student.
- Check your Degree Works for requirements and completion.

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	16	0

Requirement Select

- MATH1220 - Calculus II (QL)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- PHYS2210 - Physics for Scientists and Engineers I (QI/BPS)
  OR
- PHYS2310 - Physics for Scientists I (BPS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- PHYS2215 - Physics for Scientists and Engineers Lab I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- PHYS - College of Science sequence requirement (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- University Studies Breadth Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	15	0

Requirement Select
- MATH2210 - Multivariable Calculus (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- PHYS2220 - Physics for Scientists and Engineers II (BPS/QI)

  OR
- PHYS2320 - Physics for Scientists II (BPS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- PHYS2225 - Physics for Scientists and Engineers Lab II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- PHYS - College of Science sequence requirement (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- MATH2270 - Linear Algebra (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	13	0

Requirement Select
- ENGL1010 - Writing as Inquiry (CL1)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- MATH2280 - Ordinary Differential Equations (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- PHYS2710 - Introductory Modern Physics

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- CS1400 - Introduction to Computer Science--CS 1

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	15	0

Requirement Select

- PHYS3550 - Intermediate Classical Mechanics

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- PHYS3710 - Intermediate Modern Physics

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- University Studies Breadth Courses (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Advisor-Directed Elective credits (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- ENGL2010 - Research and Argument Across Perspectives (CL2)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Fall	15	0

Requirement Select

- PHYS3600 - Electromagnetism I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- PHYS3870 - Intermediate Physics Laboratory (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- University Studies Breadth Courses (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- University Depth Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Spring	14	0

Requirement Select
- PHYS3880 - Advanced Physics Laboratory (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- PHYS3880 May be used as elective credit (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Physics Elective (if not taken sophomore year) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- University Studies Depth Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Advisor-Directed Elective Credits (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	5
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Fall	16	0

Requirement Select

- PHYS 5650 is required if PHYS 3700 is not taken, or it may be used as a physics elective (Generic) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- PHYS5650 - Optics I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Advisor-Directed Elective Credits (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	12
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Register for 1 credit of PHYS4900 (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- PHYS4900 - Research in Physics (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1 - 3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Spring	14	0

Requirement Select

- PHYS3700 - Thermal Physics
  OR
- Physics Elective at 3500+ level (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Register for 1 credit of PHYS4900 (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- PHYS4900 - Research in Physics (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1 - 3
Clinical	-
Criticality	No

Requirement Select

- Advisor-Directed Elective Credits (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	10
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Program Learning Outcomes

Program Learning Outcomes

https://www.usu.edu/oda/assessment/

Physics - MS

Program Overview

College	Department	Program Level
College of Arts & Sciences	Physics	Graduate

Program Requirements

Total Credits Required In Program Coursework	Total Credits Required To Earn This Credential
30	30

Simple Requisites

Program Requirements

Admissions Requirement: A bachelor's degree from an accredited U. S. college or university or a similarly recognized international university is required for admission to and completion of a graduate program.

Time Limit: A master's degree must be completed within six years of entering the degree program. Additional time may be requested by the student's committee and submitted to the Vice Provost of Graduate Studies for review.

Course and Credit Requirements: All Master's degrees require the student complete a minimum of 30 semester credit hours. Graduate students are required to maintain at least a 3.0 GPA for degree-program courses. Grades of C- or lower will not be accepted for a graduate degree.

Course Number Acceptability: The program of study for a master's degree cannot include more than 12 semester credits of courses at the 5000 level. Credits in the following areas are not acceptable in a degree program: foreign languages (unless included in an approved Program of Study), continuing graduate advisement, individual home study, military science, and courses numbered below 5000.

Coursework Validity: Class credits must be revalidated if more than 8 years have elapsed before completion of degree. The student's supervisory committee (SC) is responsible for developing and submitting the revalidation plan to the Vice Provost of Graduate Studies for approval. The plan and determination must be verified in writing and include the Vice Provost of Graduate Studies and the student's major professor.

Matriculation Start Semester: A master's degree must be completed within six years of entering the degree program. Additional time may be requested by the student's advisor and submitted to the Vice Provost of Graduate Studies for review.

Thesis / Project Requirements

Plan A: The Plan A a master's degree requires the preparation and defense of a thesis. The thesis is to be a contribution to the field of knowledge based on the student's own research or a treatment and presentation of known subject matter from a new point of view.

Plan B: A Plan B master's degree requires the preparation and defense of a paper. The Plan B paper is usually a review of literature, with conclusions drawn after conceptualizing an area of inquiry, planning a systematic search, and analyzing and critiquing the acquired information. The summary and conclusions developed should enhance the student's knowledge in the discipline.

Required Training: All graduate students are required to complete the online CITI-Responsible Conduct in Research (RCR) training.

Required Forms

Approval of academic forms required for master's students by the School of Graduate Studies:

- Supervisory Committee Approval Form
- Program of Study
- Master's Thesis/Project Approval
- Appointment for Examination
- Authorship and Copyright (Plan A)
- Format and Style and Electronic Publication Approval (Plan A)
- Title Page (Plan A)
- Report/Creative Project Submission (Plan B)
- Record of Examination
- Graduation Application

Further Information

Further details regarding Physics MS degrees can be found in the Physics Department MS Handbook.

Course Requirements

Type
Completion Requirement

PhD Core Courses

Coursework must be approved by the Student's Supervisory Committee and documented with the Program of Study Form, which is approved by the Supervisory Committee and the School of Graduate Studies.

Plan A: A total of 30 credits are required, with 6 – 15 as thesis research and the remaining credits coming from course work. A minimum of 4 (out of 9) core PhD courses must be taken.

Plan B: A total of 30 credits are required, with 2 – 3 (as thesis research) for writing the Plan B report and the remaining credits coming from course work. A minimum of 5 (out of 9) core PhD courses must be taken.

Each student is required to attend Physics Colloquium for four consecutive semesters, beginning with the first semester after matriculation.

Complete ANY of the following Courses:

- PHYS5340 - Methods of Theoretical Physics I - 3cr.
- PHYS5350 - Methods of Theoretical Physics II - 3cr.
- PHYS6010 - Classical Mechanics I - 3cr.
- PHYS6110 - Electrodynamics I - 3cr.
- PHYS6120 - Electrodynamics II - 3cr.
- PHYS6410 - Statistical Mechanics I - 3cr.
- PHYS6530 - Solid State Physics I - 3cr.
- PHYS6910 - Relativity I - 3cr.

Program Learning Outcomes

Program Learning Outcomes
https://www.usu.edu/physics/assessments/index

Physics - PhD

Program Overview

College
College of Arts & Sciences

Department
Physics

Program Level
Graduate

Program Requirements

Total Credits Required In Program Coursework
60

Total Credits Required To Earn This Credential
60

Simple Requisites

Program Requirements

Admissions Requirement

A bachelor's degree from an accredited U. S. college or university or a similarly recognized international university is required for admission to and completion of a graduate program.

Time Limit

A master's degree must be completed within eight years of entering the degree program. Additional time may be requested by the student's committee and submitted to the Vice Provost of Graduate Studies for review.

Course and Credit Requirements

60 credit hours (minimum) [including minimum 18 hours dissertation research (PHYS7970 DISSERTATION RESEARCH)] are required beyond a bachelor's degree, or

30 credit hour (minimum) [including minimum 12 hours dissertation research (PHYS7970 DISSERTATION RESEARCH)] are required beyond a master's degree.

Graduate students are required to maintain at least a 3.0 GPA for degree-program courses. Grades of C– or lower will not be accepted for a graduate degree.

Courses at the 6000 level and above are acceptable. Up to 12 credits at the 5000 - 5990 level may be used for the degree.

Credits in the following areas are not acceptable in a degree program: foreign languages (unless included in an approved Program of Study), continuing graduate advisement, individual home study, military science, and courses numbered below 3000.

Coursework Validity

Class credits must be revalidated if more than 8 years have elapsed before completion of degree. The student's supervisory committee (SC) is responsible for developing and submitting the revalidation plan to the Vice Provost of Graduate Studies for approval. The plan and determination must be verified in writing and include the Vice Provost of Graduate Studies and the student's major professor.

Required Exams

Qualification: Each student enrolled in the PhD program is evaluated for qualification for PhD work. In order that the totality of the student's first year in the program can be evaluated, consideration of qualification occurs at the **beginning of the fall semester of the second year**. Qualification of the student is primarily based on coursework, although the qualification process may also include an evaluation of the student's work as a teaching assistant or research assistant.

Candidacy Exam: The Candidacy Exam consists of a written report an oral presentation, followed by deliberation and voting by the faculty. The examination topic is typically set (by the student's Supervisory Committee) during the fourth semester of the student's program; **the examination takes place during the student's fifth semester**. Details of the examination can be found in the Department's Guide to the Candidacy Exam.

Dissertation Requirements

A PhD degree requires the preparation and defense of a dissertation. The dissertation is to be a contribution to the field of knowledge based on the student's own research.

Seminar Requirement

The Physics Department requires each PhD student to present at least two research seminars associated with his/her research (neither of which can be the Candidacy Examination oral presentation). One of these is associated with the dissertation defense, the other seminar can be a local seminar given to members of a local research group, a presentation at a regional, national, or international conference, or an invited talk at another institution.

Required Training

All graduate students are required to complete the online CITI-Responsible Conduct in Research (RCR) training.

Required Forms

Physics Department Forms

- Application for Qualification
- Intent for Candidacy

School of Graduate Studies Forms

- Supervisory Committee Approval Form
- Program of Study
- Full Time at Three Credits
- Application for Candidacy for a Doctoral Degree
- Appointment for Examination
- Authorship and Copyright
- Format and Style and Electronic Publication Approval
- Title Page
- Record of Examination
- Graduation Application

Further Information

Further details regarding Physics PhD degrees can be found in the Physics Department PhD Handbook

Physics - PhD

Type
Completion Requirement

Core Courses

Complete ALL of the following Courses:

- PHYS5340 - Methods of Theoretical Physics I - 3cr.
- PHYS5350 - Methods of Theoretical Physics II - 3cr.
- PHYS6010 - Classical Mechanics I - 3cr.
- PHYS6110 - Electrodynamics I - 3cr.
- PHYS6120 - Electrodynamics II - 3cr.
- PHYS6210 - Quantum Mechanics I - 3cr.
- PHYS6410 - Statistical Mechanics I - 3cr.
- PHYS6530 - Solid State Physics I - 3cr.
- PHYS6910 - Relativity I - 3cr.

Elective Credit (3 credits)

In addition to the cores courses, the student must take an additional 3-credit graduate-level course to round out their Program of Study. With approval by the student's Supervisory Committee, a core course can be substituted with another course, if it is germane to the student's area of research.

Complete the following:
• Graduate-level course (3 credits)

Dissertation Research (12-18 credits)

- A minimum 18 credit hours dissertation research are required beyond a bachelor's degree
- A minimum 12 credit hours dissertation research are required beyond a master's degree.

Complete ALL of the following Courses:

- PHYS7970 - Dissertation Research - 1cr.

Program Learning Outcomes

Program Learning Outcomes
https://www.usu.edu/physics/assessments/index

Physics: Professional Emphasis - BS

Program Overview

College
College of Arts & Sciences

Department
Physics

Program Level
Undergraduate

About this Degree

Physics is the study of matter and energy and their interactions.

Students study both the theory of physics and experiment using those theories as a guide. At USU, all students participate in faculty-mentored research, gaining valuable experience in campus research centers and laboratories. This makes USU students better prepared for entrance into either the workforce or graduate school.

Professional Emphasis: The professional emphasis prepares students who wish to establish careers in research to enter graduate-level education studying physics, astronomy, materials science, applied mathematics, and other related areas of physical science and engineering.

- For more information about Physics, see the Department of Physics website.
- Admitted and current students must meet with the advisor, Vanessa Chambers.
- Log on to Degree Works to check student-specific program progress.
- The highest math requirement for this degree is MATH2280 ORD DIFFRNTIAL EQUATIONS (QI).

Admission Requirements for this Program

- New freshmen must be admitted to USU in Good Standing.
- Transfer students from other institutions or other programs at USU must have a 2.2 GPA.
- Received credit for or completed MATH1210 CALCULUS I (QL).

Program Requirements

Total Credits Required In Program Coursework
74-76

Total Credits Required To Earn This Credential
120

Simple Requisites

Program Requirements

Courses used to fulfill major requirements may not be taken on a pass/fail basis.

Physics: Professional Emphasis - BS

Type
Completion Requirement

Major Requirements (27 credits)

All courses must be passed with a grade of C- or better.

Earn at least 28 credits from the following:

- PHYS2210 - Physics for Scientists and Engineers I (QI/BPS) - 4cr.
  OR PHYS2310 - Physics for Scientists I (BPS) - 4cr.
- PHYS2215 - Physics for Scientists and Engineers Lab I - 1cr.
- PHYS2220 - Physics for Scientists and Engineers II (BPS/QI) - 4cr.
  OR PHYS2320 - Physics for Scientists II (BPS) - 4cr.
- PHYS2225 - Physics for Scientists and Engineers Lab II - 1cr.
- PHYS2710 - Introductory Modern Physics - 3cr.
- CS1400 - Introduction to Computer Science--CS 1 - 4cr.
- PHYS3550 - Intermediate Classical Mechanics - 3cr.
- PHYS3600 - Electromagnetism I - 3cr.
- PHYS3870 - Intermediate Physics Laboratory (CI) - 3cr.
- PHYS4900 - Research in Physics (CI) - 1cr.

Professional Emphasis Math Requirements (13 credits)

All courses must be passed with a C- or better.

Earn at least 13 credits from the following:

- MATH1220 - Calculus II (QL) - 4cr.
- MATH2210 - Multivariable Calculus (QI) - 3cr.
- MATH2270 - Linear Algebra (QI) - 3cr.
- MATH2280 - Ordinary Differential Equations (QI) - 3cr.

Professional Emphasis Additional Required Courses (28 credits)

All courses must be passed with a grade of C- or better.

Earn at least 28 credits from the following:

- PHYS3700 - Thermal Physics - 3cr.
- PHYS3710 - Intermediate Modern Physics - 3cr.
- PHYS3750 - Foundations of Wave Phenomena - 3cr.
- PHYS3880 - Advanced Physics Laboratory (CI) - 3cr.
- PHYS4600 - Electromagnetism II - 3cr.
- PHYS5650 - Optics I - 3cr.
- PHYS4700 - Quantum Mechanics I - 3cr.
- PHYS4710 - Quantum Mechanics II - 3cr.
- PHYS4900 - Research in Physics (CI) - 1cr.

NOTE:

1. A total of 4 credits of PHYS4900 RESEARCH IN PHYSICS (CI) is required for the Professional Emphasis.

College of Science Sequence Requirement (6-8 credits)

Select one full science sequence. (***Teaching majors must also complete the first course of two of the other three series.***)

Only 3 credits are required if Computer Science sequence is selected (as CS1400 INTRO COMPUTER SCIENCE 1 is required for the major). Else, 6-8 credits to satisfy the College of Science Requirement.

Fulfill ANY of the following requirements:

Biology Sequence

Complete ALL of the following Courses:

- BIOL1610 - Biology I - 3cr.
- BIOL1620 - Biology II (BLS) - 3cr.

OR

Chemistry Sequence

Complete ALL of the following Courses:

- CHEM1210 - Principles of Chemistry I - 4cr.
- CHEM1220 - Principles of Chemistry II (BPS) - 4cr.

OR

Geology Sequence

Complete ALL of the following Courses:

- GEO1110 - Physical Geology (BPS) - 3cr.

AND GEO1115 - Physical Geology Laboratory - 1cr.
- GEO2200 - The Earth Through Time - 3cr.

OR

Computer Science Sequence

Complete ALL of the following Courses:
- CS1400 - Introduction to Computer Science--CS 1 - 4cr.
- CS1410 - Introduction to Computer Science--CS 2 (QI) - 3cr.
  OR CS1440 - Software Engineering Fundamentals - 3cr.

Open Electives

Complete the following as needed:
Total elective credit is determined by General Education courses taken, degree type selected, additional credits earned, and any additional math or other prerequisite courses needed. Please consult your Academic Advisor for details.

Minimum University Requirements

Minimum University Requirements
Minimum University Requirements (Bachelor's Degree)

Suggested Degree Maps

Degree Map Name
Suggested Degree Map - Physics: Professional Emphasis BS
Total Degree Map Credits
123
Degree Map Effective Catalog Year
2027 -

Degree Map Narrative
- Following is a sample four-year plan. Please note that student-specific plans may differ.
- Meet with an academic advisor to create a specific plan that best fits your academic needs.
- The student is ultimately responsible for knowing and completing all degree requirements.
- Make sure you meet the registration requirements for each class by clicking the course link and checking any prerequisites or corequisites.
- Consultation with an advisor may result in an altered plan customized for an individual student.
- Check your Degree Works for requirements and completion.

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	16	0

Requirement Select
- MATH1220 - Calculus II (QL)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- PHYS2210 - Physics for Scientists and Engineers I (QI/BPS)
  OR
- PHYS2310 - Physics for Scientists I (BPS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- PHYS2215 - Physics for Scientists and Engineers Lab I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- PHYS - College of Science Sequence Requirement (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- University Studies Breadth Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	General Education
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	15	0

Requirement Select
- MATH2210 - Multivariable Calculus (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- PHYS2220 - Physics for Scientists and Engineers II (BPS/QI)

OR
- PHYS2320 - Physics for Scientists II (BPS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- PHYS2225 - Physics for Scientists and Engineers Lab II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- PHYS - College of Science Sequence Requirement (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- MATH2270 - Linear Algebra (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	16	0

Requirement Select
- CS1400 - Introduction to Computer Science--CS 1

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- ENGL1010 - Writing as Inquiry (CL1)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- MATH2280 - Ordinary Differential Equations (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- PHYS2710 - Introductory Modern Physics

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- University Studies Breadth Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	General Education
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	15	0

Requirement Select

- MATH 2250 or MATH 2270/MATH 2280 must be taken before PHYS 3750, fall of junior year. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- ENGL2010 - Research and Argument Across Perspectives (CL2)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- PHYS3710 - Intermediate Modern Physics

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- University Studies Breadth Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	General Education
Actual Credits	6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- PHYS3550 - Intermediate Classical Mechanics

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Fall	15	0

Requirement Select
- PHYS3600 - Electromagnetism I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- PHYS3750 - Foundations of Wave Phenomena

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- PHYS3870 - Intermediate Physics Laboratory (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- University Studies Breadth Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	General Education
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Advisor-Directed Elective Credits (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Spring	16	0

Requirement Select
- PHYS3700 - Thermal Physics

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- PHYS3880 - Advanced Physics Laboratory (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- PHYS4600 - Electromagnetism II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- University Studies Breadth Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Advisor-Directed Elective Credits (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Fall	15	0

Requirement Select
- PHYS5650 - Optics I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- PHYS4700 - Quantum Mechanics I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- PHYS4900 - Research in Physics (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	1 - 3
Clinical	-
Criticality	No

Requirement Select
- Enroll in 2 credits of PHYS4900. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- University Studies Depth Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Advisor-Directed Elective Credits (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Spring	15	0

Requirement Select

- PHYS4710 - Quantum Mechanics II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- PHYS4900 - Research in Physics (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	1 - 3
Clinical	-
Criticality	No

Requirement Select

- PHYS4900 2 credits required. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Advisor-Directed Elective Credits (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	10
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
15	0
Total Minor Credits	**Total Elective Credits**
0	0

Program Learning Outcomes

Program Learning Outcomes

https://www.usu.edu/oda/assessment/

Plumbing Apprenticeship - Technical Certificate

Program Overview

College
College of Agriculture & Natural Resources

Department
Technology, Design & Technical Ed

Program Level
Undergraduate

About this Degree

The Plumbing Apprenticeship program satisfies the educational requirements to take the State Journeyman Plumber Exam. To complete the entire Apprentice Plumbing Program, an individual must be licensed through the State and work under the supervision of a licensed Journeyman Plumber. A basic assessment is required prior to enrolling. This program provides a solid understanding of the International Plumbing Code (IPC), its layout, and the requirements for different plumbing systems and parts of those systems. This program discusses the processes, parts, and risks involved with the various plumbing systems as well as the safety equipment and measures that are in place to protect plumbers and the public alike.

Program Requirements

Total Credits Required In Program Coursework
24

Total Credits Required To Earn This Credential
24

Simple Requisites

Program Requirements

Plumbing Apprenticeship Course Requirements

Type
Completion Requirement

Required Courses

Complete ALL of the following Courses:

- TEPL1110 - Plumbing I A - 3cr.
- TEPL1120 - Plumbing I B - 3cr.
- TEPL1210 - Plumbing II A - 3cr.
- TEPL1220 - Plumbing II B - 3cr.
- TEPL1310 - Plumbing IIIA - 3cr.
- TEPL1320 - Plumbing IIIB - 3cr.
- TEPL1410 - Plumbing IVA - 3cr.
- TEPL1420 - Plumbing IVB - 3cr.

Program Learning Outcomes

Program Learning Outcomes

- Determine the application of the International Plumbing Code (IPC).
- Demonstrate how to navigate the International Plumbing Code (IPC).
- Calculate sizing of various piping, including natural gas, supply, and waste lines.
- Demonstrate the application of the International Fuel Gas Code.
- Demonstrate the application of the International Mechanical Code.
- Demonstrate practical application of plumbing mathematics.
- Apply critical and practical thinking skills necessary to pass the State Journeyman's Test.

Plant Science - Horticulture and Cropping Systems Emphasis - BS

Program Overview

College
College of Agriculture & Natural Resources

Department
Plants, Soils and Climate

Program Level
Undergraduate

About this Degree

In this program, students focus on the research, production, and management of economically important plants. Students have access to faculty mentors and the opportunity to receive hands-on experience working side-by-side with research scientists in laboratories, greenhouses, and fields.

Horticulture and Cropping Systems Emphasis: This emphasis is focused more on applied, hands-on work with plants. It is designed for students interested in applied aspects of plant production and management in the field, nursery, orchard, or greenhouse. Students can also study plant management, preparing them for careers with golf courses, botanical gardens, school campuses, and other landscapes.

- For more information about Plant Science, see the website.
- Admitted and current students must meet with an advisor, Abby Macbeth, abby.macbeth@usu.edu, 435-797-0454.
- Log on to Degree Works to check student-specific program progress.
- Can also have an emphasis in Research.
- The highest math requirement for this degree is MATH1050 COLLEGE ALGEBRA (QL)

Admission Requirements for this Program

- New freshmen: Admitted to USU in Good Standing
- Transfer students from other institutions or other programs at USU: 2.5 GPA

Program Requirements

Total Credits Required In Program Coursework
76-88

Total Credits Required To Earn This Credential
120

Simple Requisites

Program Requirements

This major requires a minimum GPA of 2.5 in all program coursework.

Contact Abby Macbeth, abby.macbeth@usu.edu, 435-797-0454 for advising.

Plant Science: Horticulture and Cropping Systems Emphasis - BS Course Requirements

Type
Completion Requirement

Plant Science Core Requirements (24 credits)

Complete ALL of the following Courses:

- BIOL1610 - Biology I - 3cr.
- BIOL1615 - Biology I Laboratory - 1cr.
- BIOL1620 - Biology II (BLS) - 3cr.
- BIOL1625 - Biology II Laboratory - 1cr.
- BIOL4430 - Introduction to Plant Pathology - 4cr.

- BIOL4500 - Applied Entomology - 3cr.
- PSC1050 - Plants, Soils, and Climate Orientation - 1cr.
- PSC3000 - Fundamentals of Soil Science - 4cr.
- PSC5550 - Fundamentals of Integrated Weed Management - 4cr.

In addition to the courses listed above, students must complete the course requirements for the emphasis

Horticulture and Cropping Systems (21-22 credits)

Complete ALL of the following Courses:

- CHEM1110 - General Chemistry I (BPS) - 4cr.
- MATH1050 - College Algebra (QL) - 4cr.
  OR MATH1100 - Calculus Techniques (QL) - 3cr.
- PHYS1200 - Introduction to Physics by Hands-on Exploration (BPS) - 4cr.
- PSC3600 - An Introduction to Plant Breeding and Heredity - 3cr.
  OR BIOL3060 - Principles of Genetics (QI) - 3cr.
  OR PSC5720 - Advanced Plant Breeding - 3cr.
- PSC4250 - Internship in Plants, Soils, and/or Climate - 1cr.
- PSC5530 - Soil Health and Fertility (QI) - 3cr.
- WILD2200 - Ecology of Our Changing World (BLS) - 3cr.

Plant Biology Electives (5-7 credits)

Complete at least 2 of the following courses:

- PSC3500 - Structure and Function of Plants - 3cr.
- BIOL4420 - Plant Systematics and Diversity - 3cr.
- PSC5270 - Environmental Plant Physiology - 2cr.

Production Electives (21-23 credits)

Students must complete seven courses

Fulfill ALL of the following requirements:

Required Electives

Complete at least 2 of the following courses:

- PSC4050 - Greenhouse Management and Crop Production - 4cr.
- PSC4280 - Field and Food Cropping Systems - 3cr.
- PSC4320 - Forage Production and Pasture Management - 3cr.
- PSC4400 - Modern Vegetable Production - 3cr.
- PSC5222 - Temperate Zone Fruit Production - 3cr.

AND

Additional Electives

Complete ANY of the following Courses:

- PSC2200 - Pesticide Certification - 2cr.
- PSC2600 - Herbaceous Plant Materials - 3cr.
- PSC2620 - Woody Plant Materials: Trees and Shrubs for the Landscape - 3cr.
- PSC3400 - Arboriculture - 3cr.
- PSC3700 - Plant Propagation - 4cr.
- PSC3800 - Fundamentals of Organic Agriculture - 3cr.
- PSC3810 - Turfgrass Management - 3cr.
- PSC6100 - Professional Turf and Urban Landscape Water Management - 3cr.

Other Electives (5-12 credits)

Complete at least 3 of the following courses:

- CHEM1115 - General Chemistry I Laboratory - 1cr.
- CHEM1120 - General Chemistry II (BPS) - 4cr.
- PSC1800 - Introduction to Horticulture (BLS) - 3cr.
- PSC2000 - The Atmosphere and Weather (BPS) - 3cr.
- PSC2030 - Basic Flower Arranging - 2cr.
- PSC2700 - Climate Change Impacts (BPS) - 3cr.
- PSC3200 - Microbes in Environmental Action (DSC) - 3cr. (Inactive)
- PSC3300 - Residential Landscapes - 3cr.
- PSC4500 - Urban Soil Management and Reclamation - 3cr.
- PSC5000 - Environmental Instrumentation - 2cr.
- PSC5050 - Principles of Environmental Soil Chemistry - 3cr.
- PSC5130 - Soil Genesis, Morphology, and Classification - 4cr.
- PSC5270 - Environmental Plant Physiology - 2cr.
- PSC5280 - Plant Stress Physiology - 3cr.
- PSC5310 - Soil Microbiology - 3cr.
- PSC5350 - Wildland Soils - 3cr.
- PSC5560 - Analytical Techniques for the Soil Environment - 3cr.
- PSC5670 - Environmental Soil Physics - 4cr.
- PSC5710 - Irrigated Soils - 3cr.
- PSC6100 - Professional Turf and Urban Landscape Water Management - 3cr.
- STAT2000 - Statistical Methods (QI) - 4cr.

Open Electives

Complete the following as needed:
Total elective credit is determined by General Education courses taken, degree type selected, additional credits earned, and any additional math or other prerequisite courses needed. Please consult your Academic Advisor for details.

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Bachelor's Degree)

Suggested Degree Maps

Degree Map Name
Suggested Degree Map - Plant Science: Horticulture and Cropping Systems Emphasis BS
Total Degree Map Credits
112 - 154
Degree Map Effective Catalog Year
2027 -

Degree Map Narrative

- Following is a sample four-year plan. Please note that student-specific plans may differ.
- Meet with an academic advisor to create a specific plan that best fits your academic needs.
- The student is ultimately responsible for knowing and completing all degree requirements.
- Make sure you meet the registration requirements for each class by clicking the course link and checking any prerequisites or corequisites.
- Consultation with an advisor may result in an altered plan customized for an individual student.

- Check your Degree Works for requirements and completion.

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	15 - 16	0

Requirement Select
- BIOL1610 - Biology I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- BIOL1615 - Biology I Laboratory

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- PSC1050 - Plants, Soils, and Climate Orientation

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- PSC1800 - Introduction to Horticulture (BLS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Communications Literacy (CL1) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- PSC Production Elective (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective course (1 credit) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Enroll in 1 credit of PSC1050 (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	14 - 15	0

Requirement Select
- BIOL1620 - Biology II (BLS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- BIOL1625 - Biology II Laboratory

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- MATH1050 - College Algebra (QL)

  OR
- MATH1100 - Calculus Techniques (QL)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 4
Progress Credits	-
Contact Hours	3 - 4
Clinical	-
Criticality	No

Requirement Select
- Communications Literacy (CL2) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Breadth Humanities (BHU) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective (1 credit) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	15 - 16	0

Requirement Select
- CHEM1110 - General Chemistry I (BPS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- PHYS1200 - Introduction to Physics by Hands-on Exploration (BPS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- Breadth Social Sciences (BSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- PSC Production Elective (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective course (1 credit) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	15	0

Requirement Select
- WILD2200 - Ecology of Our Changing World (BLS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Breadth American Institutions (BAI) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Breadth Creative Arts (BCA) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- PSC Production Elective course (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective course (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Fall	16	0

Requirement Select

- BIOL4420 - Plant Systematics and Diversity

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- BIOL4500 - Applied Entomology

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- PSC3000 - Fundamentals of Soil Science

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- PSC Production Elective course (6 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Spring	12 - 27	0

Requirement Select

- PSC3500 - Structure and Function of Plants

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- PSC3600 - An Introduction to Plant Breeding and Heredity

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Communications Intensive (CI) Courses

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	0 - 15
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- PSC Other Elective course (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- PSC Production Elective course (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Fall	15 - 18	0

Requirement Select
- PSC5550 - Fundamentals of Integrated Weed Management

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- PSC4250 - Internship in Plants, Soils, and/or Climate

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1 - 4
Progress Credits	-
Contact Hours	1 - 4
Clinical	-
Criticality	No

Requirement Select
- BIOL4430 - Introduction to Plant Pathology

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- PSC Production Elective (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- PSC Other Elective (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Spring	10 - 31	0

Requirement Select
- PSC5530 - Soil Health and Fertility (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Depth Humanities and Creative Arts (DHA) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1 - 3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Communications Intensive (CI) Courses

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	0 - 15
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Depth Social Sciences (DSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	0 - 4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- PSC Production Elective course (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Plant Biology Elective course (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Program Learning Outcomes

Program Learning Outcomes

https://www.usu.edu/oda/assessment/

Plant Science - MS

Program Overview

College
College of Agriculture & Natural Resources

Department
Plants, Soils and Climate

Program Level
Graduate

About this Degree

Plant Science graduate degrees are centered on the biology, genetics, and management of plants and other issues related to agricultural and horticultural production.

Research areas are offered in crop physiology; crop production and management; molecular biology; plant breeding and cytology; plant biotechnology and tissue culture; plant nutrition; space biology; weed science; and bioinformatics and computational biology.

The Climate Adaptation Science Specialization is also offered as an interdepartmental program.

Graduate Program Director: Dr. Jeanette Norton

E-mail: jeanette.norton@usu.edu

Admission Requirements for this Program

Prior to applying, the potential applicant must have a qualified PSC faculty member agree to accept them into their laboratory and be their major (supervisory) professor. Contact Dr. Jeanette Norton with questions.

General Requirements

All prospective graduate students must apply through the School of Graduate Studies. Refer to the School of Graduate Studies website for admission requirements. Please note that all applicants must meet the following general admission requirements:

- A bachelor's degree from an accredited college
- A 3.0 GPA as calculated by the School of Graduate Studies. An official transcript must be sent directly to the School of Graduate Studies from each college or university previously attended (except USU).
- Student recommendation request forms (included in application materials) should be used to request three people to submit letters of recommendation directly to the graduate school. Two letters of recommendation should be from faculty from whom you have taken course work.
- International Students: Please visit the School of Graduate Studies website for requirements.

Program Requirements

Total Credits Required In Program Coursework
30

Total Credits Required To Earn This Credential
30

Simple Requisites

Program Requirements

Degree Verification

A bachelor's degree from an accredited U.S. college or university or a similarly recognized international university is required for admission to and completion of a graduate program.

Overall Graduate GPA at least 3.0 and no grades of C- or lower; Graduate students are required to maintain at least a 3.0 GPA for degree-program courses. Grades of C- or lower will not be accepted for a graduate degree.

Course Number Acceptability

The Program of Study for a master's degree must include at least 15 semester credits of 6000 level or above.

Courses numbered 5000-5990 are advanced, upper-division courses and a maximum of 12 credits may be used on an approved program of study.

Credits in the following areas are not acceptable in a degree program: foreign languages, continuing graduate advisement, individual home study, military science, and courses numbered below 5000.

Matriculation Start Semester
A master's degree must be completed within six years of entering the degree program. Additional time may be requested by the student's committee and submitted to the Vice Provost of Graduate Studies for review.

Coursework Validity
Coursework over eight years old at the time of degree completion may not be used for a graduate degree unless it is revalidated by the Vice Provost of Graduate Studies.

Minimum Total Credits
The minimum requirement for a master's degree is 30 semester credits.

Course requirements leading to MS degrees are developed jointly by the student and the student's supervisory committee. Each student must have a Program of Study approved by their supervisory committee.

The following are required:

- 15 credits minimum of committee-approved 6000-7000 level courses related to selected research area
    - including 2 credits of Plants, Soils and Climate Graduate seminar (PSC6890 PSC GRADUATE SEMINAR)
    - 2-15 credits of Thesis Research credits (PSC6970 RESEARCH AND THESIS) depending on plan type
        - Plan A - minimum of 6 credits, maximum of 15 credits
        - Plan B - minimum of 2 credits, maximum of 3 credits

(5000 level courses are considered upper-division and maximum of 12 credits may be used in a graduate program if approved by the supervisory committee)

Program of study course selections reflect research areas in crop physiology; crop production and management; molecular biology; plant breeding and cytology; plant biotechnology and tissue culture; plant nutrition; space biology; weed science; and bioinformatics and computational biology. There are additional specific departmental requirements regarding physical sciences, biological sciences, and mathematics courses, which differ depending on the program and area of research.

Information for the Bioinformatics and Computational Biology Specialization is listed at the bottom of this page.

All MS students write a Plan A thesis or create a Plan B project under the guidance of their advisor and supervisory committee. The master's thesis must be successfully defended before the supervisory committee and submitted to the library.

Master's Plan A students:

The Plan A option requires the preparation and defense of a thesis. Students are required to complete a minimum of 6 semester credits of thesis research (PSC6970 RESEARCH AND THESIS) that will be applied toward a Program of Study.

Master's Plan B students:

A Plan B option requires the production and defense of a paper or project. Students are required to complete a minimum of 2 credits of thesis research (PSC6970 RESEARCH AND THESIS) with a maximum of 3 thesis research credits applied toward a Program of Study.

Professional/Plan C students cannot use any thesis/dissertation credits.

Approval of academic forms required by the School of Graduate Studies:

- Supervisory Committee approval form
- Program of Study form
- Thesis/Project Approval
- Appointment for Examination
- Record of Examination
- SGS and library review and approval (Plan A)
- Library review and approval (Plan B)

Bioinformatics and Computational Biology Specialization

Type
Completion Requirement

Requirements

Total course credits needed for the specialization: 16 credits

Required course credit hours: 12 credits

Elective courses, take any four credits from the list: 4 credits

Students need to take all five required courses (12 credits), and can select another four credits from the list of elective courses.

Fulfill ALL of the following requirements:

Required Courses (12 credits)

Complete ALL of the following Courses:

- DATA5500 - Python Programming for Analytics - 3cr.
- PSC6150 - Bioinformatics and Big Data Mining - 3cr.
- STAT5050 - Introduction to R - 1cr.
- STAT6570 - Statistical Bioinformatics - 2cr.
- STAT6685 - Deep Learning Theory and Applications - 3cr.

AND

Elective Courses (4 credits)

Students must take four credits from the list of electives.

Earn at least 4 credits from the following:

- BENG6630 - Synthetic Biological Engineering - 3cr.
- BIOL6300 - Programming for Biologists - 3cr.
- CS6030 - High Performance Computing - 4cr.
- CS5800 - Introduction to Database Systems - 3cr.
- CS6040 - Scientific Visualization for Data Science - 3cr.
- STAT5550 - Statistical Visualization I - 2cr.

Program Learning Outcomes

Program Learning Outcomes
https://caas.usu.edu/psc/assessment

Plant Science - PhD

Program Overview

College
College of Agriculture & Natural Resources

Department
Plants, Soils and Climate

Program Level
Graduate

About this Degree

Plant Science graduate degrees are centered on the biology, genetics, and management of plants and other issues related to agricultural and horticultural production.

Research areas are offered in crop physiology; crop production and management; molecular biology; plant breeding and cytology; plant biotechnology and tissue culture; plant nutrition; space biology; weed science; and bioinformatics and computational biology.

Specialization is offered in Bioinformatics and Computational Biology.

The Climate Adaptation Science Specialization is also offered as an interdepartmental program.

Graduate Program Director: Dr. Jeanette Norton

Email: jeanette.norton@usu.edu

Admission Requirements for this Program

Prior to applying, the potential applicant must have a qualified PSC faculty member agree to accept them into their laboratory and be their major (supervisory) professor. Contact Dr. Jeanette Norton with questions.

General Requirements

All prospective graduate students must apply through the School of Graduate Studies. Refer to the School of Graduate Studies website for admission requirements. Please note that all applicants must meet the following general admission requirements:

- A bachelor's degree from an accredited college
- A 3.0 GPA as calculated by the School of Graduate Studies. An official transcript must be sent directly to the School of Graduate Studies from each college or university previously attended (except USU).
- Student recommendation request forms (included in application materials) should be used to request three people to submit letters of recommendation directly to the graduate school. Two letters of recommendation should be from faculty from whom you have taken course work.
- International Students: Please visit the School of Graduate Studies website for requirements.

Program Requirements

Total Credits Required In Program Coursework
30-60

Total Credits Required To Earn This Credential
30-60

Simple Requisites

Program Requirements

Doctoral degrees generally require 30 academic credits beyond a master's degree or 60 academic credits beyond a bachelor's degree. The credit amounts are determined by the approved Program of Study.

Course requirements leading to Ph.D. degrees are developed jointly by the student and the student's supervisory committee. Each student must have a Program of Study approved by their supervisory committee.

The following are required:

- Ph.D. (post-master's):
  - 15 credits minimum of committee-approved 6000-7000 level courses
    - including 2 credits of Plants, Soils and Climate Graduate seminar (PSC7890 PSC GRADUATE SEMINAR)
- Ph.D. (post-baccalaureate):
  - 30 credits minimum of committee-approved 6000-7000 level courses
    - including 2 credits of Plants, Soils and Climate Graduate seminar (PSC7890 PSC GRADUATE SEMINAR)

Courses numbered 5000-5990 are advanced, upper-division courses and a maximum of 12 credits may be used on an approved program of study.

- Thesis Research credits (PSC7970 RESEARCH AND THESIS)
  - If student has master's degree - minimum of 12 credits
  - If student has a bachelor's degree - minimum of 18 credits

Course selections reflect desired research areas. Designation of a specialization is optional. Official specializations will appear on transcript. There are additional specific departmental requirements regarding physical sciences, biological sciences, and mathematics courses, which differ depending on the program and area of research.

All Ph.D. students write a dissertation under the guidance of their advisor and supervisory committee. The doctoral dissertation must be successfully defended before the supervisory committee and submitted to the library.

Information for the Bioinformatics and Computational Biology Specialization is listed at the bottom of this page.

Qualifying Exams

- Each Ph.D. student must undergo some sort of qualifying experience. Depending on the student's particular research and their faculty committee, the exam can either be a traditional oral and written exam, a scholarly proposal, or another option best suited to the student's individual situation.

Required of all programs and degree types:

Degree Verification

A bachelor's degree from an accredited U.S. college or university or a similarly recognized international university is required for admission to and completion of a graduate program.

Overall Graduate GPA at least 3.0 and no grades of C- or lower; Graduate students are required to maintain at least a 3.0 GPA for degree-program courses. Grades of C- or lower will not be accepted for a graduate degree.

Course Number Acceptability

The Program of Study for a doctoral degree, if the student has a master's degree, must include at least 15 semester credits at the level of 6000 or above. If the student does not have a master's degree, the Program of Study must include at least 30 credits at the level of 6000 or above.

Credits in the following areas are not acceptable in a degree program: foreign languages, continuing graduate advisement, individual home study, military science, and courses numbered below 5000.

Matriculation Start Semester

A doctorate must be completed within eight years of entering the degree program. Additional time may be requested by the student's committee and submitted to the Vice Provost of Graduate Studies for review.

Coursework Validity

Coursework over eight years old at the time of degree completion may not be used for a graduate degree unless it is re-validated.

Thesis Research Credits 7970

A minimum of 12 dissertation credits (7970) is required if the student has a master's degree, and a minimum of 18 is required if the student has a bachelor's degree.

Doctoral Forms

Doctoral forms: Approval of the following academic forms required for doctoral students by the School of Graduate Studies (SGS):

- Supervisory Committee
- Program of Study
- Application for Candidacy (includes proposal)
- Appointment for Examination
- Record of Examination
- Authorship and Copyright
- Style and Format
- SGS and library review and approval

Bioinformatics and Computational Biology Specialization

Type

Completion Requirement

Required Specialization Courses

Total course credits needed for the specialization: 16 credits

Required course credit hours: 12 credits

Elective courses, take any four credits from the list

Students must take all five required courses (12 credits), and may select another four credits from the list of elective courses.

Fulfill ALL of the following requirements:

Required Courses (12 credits)

Complete ALL of the following Courses:

- DATA5500 - Python Programming for Analytics - 3cr.
- PSC6150 - Bioinformatics and Big Data Mining - 3cr.
- STAT5050 - Introduction to R - 1cr.
- STAT6570 - Statistical Bioinformatics - 2cr.
- STAT6685 - Deep Learning Theory and Applications - 3cr.

AND

Elective Courses (4 credits)

Students must take four (4) credits from the list of electives.

Earn at least 4 credits from the following:

- BENG6630 - Synthetic Biological Engineering - 3cr.
- BIOL6300 - Programming for Biologists - 3cr.
- CS5800 - Introduction to Database Systems - 3cr.
- CS6030 - High Performance Computing - 4cr.
- CS6040 - Scientific Visualization for Data Science - 3cr.
- STAT5550 - Statistical Visualization I - 2cr.

Program Learning Outcomes

Program Learning Outcomes

https://caas.usu.edu/psc/assessment

Plant Science - Research Emphasis - BS

Program Overview

College
College of Agriculture & Natural Resources

Department
Plants, Soils and Climate

Program Level
Undergraduate

About this Degree

In this program, students focus on the research, production, and management of economically important plants. Students have access to faculty mentors and the opportunity to receive hands-on experience working side-by-side with research scientists in laboratories, greenhouses, and fields.

Research Emphasis: This emphasis is designed for students intending to attend graduate school. It is focused on the science of crop production, including plant breeding and genetic engineering. Because of the rapidly changing technologies in the field of plant and food production, plant research scientists are in high demand.

- For more information about Plant Science, see website.
- Admitted and current students must meet with an advisor, Abby Macbeth, abby.macbeth@usu.edu, 435-797-0454.
- Log on to Degree Works to check student-specific program progress.
- Can also have an emphasis in Horticulture and Cropping Systems
- The highest math requirement for this degree is MATH1210 CALCULUS I (QL)

Admission Requirements for this Program

- New freshmen: Admitted to USU in Good Standing
- Transfer students from other institutions or other programs at USU: 2.5 GPA

Program Requirements

Total Credits Required In Program Coursework
76-81

Total Credits Required To Earn This Credential
120

Simple Requisites

Program Requirements

This major requires a minimum GPA of 2.5 in all program coursework.

Contact Abby Macbeth, abby.macbeth@usu.edu, 435-797-0454 for advising.

Plant Science: Research Emphasis - BS Course Requirements

Type
Completion Requirement

Plant Science Core Requirements (23 credits)

Complete ALL of the following Courses:

- BIOL1610 - Biology I - 3cr.
- BIOL1615 - Biology I Laboratory - 1cr.
- BIOL1620 - Biology II (BLS) - 3cr.
- BIOL1625 - Biology II Laboratory - 1cr.
- BIOL4430 - Introduction to Plant Pathology - 4cr.
- BIOL4500 - Applied Entomology - 3cr.
- PSC1050 - Plants, Soils, and Climate Orientation - 1cr.
- PSC3000 - Fundamentals of Soil Science - 4cr.
- PSC5550 - Fundamentals of Integrated Weed Management - 4cr.

In addition to the courses listed above, students must complete the course requirements for the emphasis.

Research Core (39 credits)

Complete ALL of the following Courses:

- BIOL2220 - General Ecology - 3cr.
- BIOL3060 - Principles of Genetics (QI) - 3cr.
- BIOL4400 - Plant Physiology (QI) - 4cr.
- CHEM1210 - Principles of Chemistry I - 4cr.
- CHEM1215 - Chemical Principles Laboratory I - 1cr.
- CHEM1220 - Principles of Chemistry II (BPS) - 4cr.
- CHEM1225 - Chemical Principles Laboratory II - 1cr.
- CHEM2300 - Principles of Organic Chemistry - 3cr.
- CHEM2315 - Organic Chemistry Laboratory I - 1cr.
- MATH1210 - Calculus I (QL) - 4cr.
- PHYS2110 - General Physics—Life Sciences I - 4cr.
- PHYS2120 - General Physics - Life Sciences II (BPS) - 4cr.
- PSC5270 - Environmental Plant Physiology - 2cr.

Other Electives (8-11 credits)

Complete at least 3 of the following courses:

- PSC2030 - Basic Flower Arranging - 2cr.
- PSC2600 - Herbaceous Plant Materials - 3cr.
- PSC2620 - Woody Plant Materials: Trees and Shrubs for the Landscape - 3cr.
- PSC2700 - Climate Change Impacts (BPS) - 3cr.
- PSC3400 - Arboriculture - 3cr.
- PSC3700 - Plant Propagation - 4cr.
- PSC3800 - Fundamentals of Organic Agriculture - 3cr.
- PSC3810 - Turfgrass Management - 3cr.
- PSC4050 - Greenhouse Management and Crop Production - 4cr.
- PSC4280 - Field and Food Cropping Systems - 3cr.
- PSC4320 - Forage Production and Pasture Management - 3cr.
- PSC4400 - Modern Vegetable Production - 3cr.
- PSC5280 - Plant Stress Physiology - 3cr.
- PSC6100 - Professional Turf and Urban Landscape Water Management - 3cr.
- PSC5222 - Temperate Zone Fruit Production - 3cr.
- PSC5720 - Advanced Plant Breeding - 3cr.
- PSC3500 - Structure and Function of Plants - 3cr.

Soil Science Electives (6-8 credits)

Complete at least 2 of the following courses:

- PSC4500 - Urban Soil Management and Reclamation - 3cr.
- PSC5710 - Irrigated Soils - 3cr.
- PSC5050 - Principles of Environmental Soil Chemistry - 3cr.
- PSC5130 - Soil Genesis, Morphology, and Classification - 4cr.
- PSC5310 - Soil Microbiology - 3cr.
- PSC5350 - Wildland Soils - 3cr.
- PSC5530 - Soil Health and Fertility (QI) - 3cr.
- PSC5560 - Analytical Techniques for the Soil Environment - 3cr.
- PSC5670 - Environmental Soil Physics - 4cr.

Recommended Electives

Complete ANY of the following Courses:

- CHEM3700 - Introductory Biochemistry - 3cr.
- CHEM3710 - Introductory Biochemistry Laboratory - 1cr.
- PSC1800 - Introduction to Horticulture (BLS) - 3cr.

- PSC2000 - The Atmosphere and Weather (BPS) - 3cr.
- PSC2200 - Pesticide Certification - 2cr.
- PSC4250 - Internship in Plants, Soils, and/or Climate - 1cr.
- PSC5000 - Environmental Instrumentation - 2cr.
- STAT3000 - Statistics for Scientists (QI) - 3cr.
- PSC4970 - Undergraduate Research - 1cr.
- PSC5760 - Climate and Climate Change (DSC)(QI) - 3cr.

Open Electives

Complete the following as needed:
Total elective credit is determined by General Education courses taken, degree type selected, additional credits earned, and any additional math or other prerequisite courses needed. Please consult your Academic Advisor for details.

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Bachelor's Degree)

Suggested Degree Maps

Degree Map Name
Suggested Degree Map - Plant Science: Research Emphasis BS
Total Degree Map Credits
112 - 150
Degree Map Effective Catalog Year
2027 -

Degree Map Narrative

- Following is a sample four-year plan. Please note that student-specific plans may differ.
- Meet with an academic advisor to create a specific plan that best fits your academic needs.
- The student is ultimately responsible for knowing and completing all degree requirements.
- Make sure you meet the registration requirements for each class by clicking the course link and checking any prerequisites or corequisites.
- Consultation with an advisor may result in an altered plan customized for an individual student.
- Check your Degree Works for requirements and completion.

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	15 - 16	0

Requirement Select
- BIOL1610 - Biology I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- BIOL1615 - Biology I Laboratory

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- MATH1050 - College Algebra (QL)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- PSC1050 - Plants, Soils, and Climate Orientation

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- Breadth American Institutions (BAI) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Communications Literacy (CL1) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Enroll in 1 credit of PSC1050 (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	15	0

Requirement Select
- BIOL1620 - Biology II (BLS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- BIOL1625 - Biology II Laboratory

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- MATH1060 - Trigonometry

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select
- Breadth Humanities (BHU) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Breadth Creative Arts (BCA) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Communications Literacy (CL2) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	15	0

Requirement Select
- CHEM1210 - Principles of Chemistry I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- CHEM1215 - Chemical Principles Laboratory I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- BIOL2220 - General Ecology

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- MATH1210 - Calculus I (QL)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- PSC Elective course (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	15 - 16	0

Requirement Select
- CHEM1220 - Principles of Chemistry II (BPS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- CHEM1225 - Chemical Principles Laboratory II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- Breadth Social Sciences (BSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Electives (7 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	7
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Fall	10 - 29	0

Requirement Select
- BIOL4500 - Applied Entomology

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- CHEM2300 - Principles of Organic Chemistry

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- CHEM2315 - Organic Chemistry Laboratory I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- Depth Social Sciences (DSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	0 - 4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Communications Intensive (CI) Courses

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	0 - 15
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- PSC Elective course (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Spring	16	0

Requirement Select
- BIOL3060 - Principles of Genetics (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- PSC3000 - Fundamentals of Soil Science

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- PSC3500 - Structure and Function of Plants

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- PSC Elective course (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- PSC Soil Elective course (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Fall	15	0

Requirement Select

- PSC5550 - Fundamentals of Integrated Weed Management

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- BIOL4430 - Introduction to Plant Pathology

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- PHYS2110 - General Physics—Life Sciences I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- Elective course (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Spring	11 - 28	0

Requirement Select

- BIOL4400 - Plant Physiology (QI)
  OR
- PSC5270 - Environmental Plant Physiology

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2 - 4
Progress Credits	-
Contact Hours	2 - 4
Clinical	-
Criticality	No

Requirement Select

- PHYS2120 - General Physics - Life Sciences II (BPS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- Depth Humanities and Creative Arts (DHA) Course
  OR
- Communications Intensive (CI) Courses

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	0 - 15
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- PSC Soil Elective course (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Electives (2 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Also may take combined DHA/CI courses (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Program Learning Outcomes

Program Learning Outcomes

https://www.usu.edu/oda/assessment/

Police Officers and Policing - Certificate

Program Overview

College
College of Arts & Sciences

Department
School of Social Sciences

Program Level
Undergraduate

About this Degree
While only three courses are required for certificate completion, students will be welcome and invited to take additional courses of electives.

Program Requirements

Total Credits Required In Program Coursework
9

Total Credits Required To Earn This Credential
9

Simple Requisites

Program Requirements

Certificate completion will require three courses totaling 9-credit hours.

Police Officers and Policing - Certificate

Type
Completion Requirement

Required Course (3 credits)

Complete ALL of the following Courses:

- CJ1390 - Introduction to Policing - 3cr.

Electives (6 credits)

Complete at least 2 of the following courses:

- CJ1330 - Criminal Law - 3cr.
- CJ1340 - Criminal Investigations - 3cr.
- SW4925 - Resilience and Human Flourishing - 3cr.

Minimum University Requirements

Minimum University Requirements
Minimum University Requirements (Undergraduate Academic or Technical Certificates)

Program Learning Outcomes

Program Learning Outcomes
Demonstrate knowledge about crime prevention, law enforcement, peacekeeping; depth in understanding tools and strategies used in criminal prevention and law enforcement.

Objectives:

1- Students will examine the role of police in society, exploring their functions, organizational structure, subculture, community interactions, and contemporary challenges such as technology, corruption, violence, and use of force.

2- Students will analyze the foundations of criminal liability, investigative processes, and legal defenses while developing critical problem-solving skills for navigating obstacles in criminal investigations.

3- Students will integrate principles of criminal law, investigative techniques, and resilience science to enhance their ability to manage stress, improve decision-making, and maintain well-being in high-pressure criminal justice settings.

Political Communication - Certificate

Program Overview

College
College of Arts & Sciences

Department
School of Social Sciences

Program Level
Undergraduate

About this Degree

The field of Political Communication has employment merit in its own right. Political communication jobs vary in specifics, from government affairs at Coca-Cola to a communication specialist at the Environmental Defense Fund to a position at CNN in criminal justice reporting. For students interested in pursuing careers in politics, adding communication/public relations skills improves their marketability because they receive extra training in forming compelling messages and the dissemination of those messages through traditional communication methods (like print and broadcast media) and newer methods (like social media, podcasts, and other electronic media). For students interested in pursuing communication careers (like journalism and public relations) it improves their marketability by providing a strong knowledge base in politics and public policy—key subjects journalists and other communication professionals are often asked to address.

Program Requirements

Total Credits Required In Program Coursework
18

Total Credits Required To Earn This Credential
18

Simple Requisites

Program Requirements

The certificate will incorporate classes from the Journalism & Communication Department, the Political Science Department, and the Communications Studies & Philosophy Department.

From these three areas, students will be required to complete 18 credits, including 9 credits from a list of core classes, with one core class from each area: Journalism & Communication (JCOM), Political Science (POLS), and Communication Studies (CMST). The core is meant to ensure that students are participating in all three areas brought together in the certificate. The core classes will begin to give students some common terminology as well as shared experiences that they can then take into the second half of their certificate.

Political Communication - Certificate

Type
Completion Requirement

Core Courses (9 credits)

Select one core course from each area: Journalism & Communication (JCOM), Political Science (POLS), and Communication Studies (CMST).

Fulfill ALL of the following requirements:

Political Science (POLS) Core Courses:

Complete at least 1 of the following courses:

- POLS1100 - United States Government and Politics (BAI) - 3cr.
- POLS2100 - Introduction to International Relations (BSS) - 3cr.
- POLS2200 - Comparative Politics (BSS) - 3cr.

AND

Journalism Core (JCOM) Core Courses

Complete at least 1 of the following courses:

- JCOM1500 - Introduction to Mass Communication (BSS) - 3cr.
- JCOM2300 - Introduction to Public Relations - 3cr.

AND

Communication Studies (CMST) Core Courses:

Complete at least 1 of the following courses:

- CMST1020 - Public Speaking (BHU) - 3cr.
- CMST1330 - Introduction to Global Communication (BSS) - 3cr.
- CMST2110 - Interpersonal Communication (BHU) - 3cr.
- CMST2270 - Argumentation and Debate - 3cr.

Electives (9 credits)

Take an additional nine (9) credits in elective courses from each area–credits must come from at least two of the three areas.

Students are strongly encouraged to complete a three-credit internship as part of those nine elective credits (a maximum of three credits of internship may be counted toward the certificate). Whether the additional nine credits include an internship or not, the credits must come from at least two of the three areas.

Fulfill ANY of the following requirements:

Communication Studies (CMST) Elective Courses:

Complete ANY of the following Courses:

- CMST2250 - Introductory Internship/Co-op - 1cr.
- CMST3270 - Culture and Public Discourse (DHA) - 3cr.
- CMST3280 - Organizations and Social Change - 3cr.
- CMST3330 - Intercultural Communication (DSS) - 3cr.
- CMST3400 - Persuasion - 3cr.
- CMST3730 - Culture and Global Intervention (DHA) - 3cr.
- CMST4200 - Language, Thought, and Action (CI/DSS) - 3cr.
- CMST4250 - Advanced Internship/Co-op - 1cr.
- CMST4270 - Communication, Culture, and Power - 3cr.

OR

Journalism (JCOM) Elective Courses:

Complete ANY of the following Courses:

- JCOM2010 - Media Literacy (BSS) - 3cr.
- JCOM2030 - Multimedia Bootcamp - 4cr.
- JCOM2400 - Introduction to Social Media - 3cr.
- JCOM3100 - Reporting Public Affairs (CI) - 3cr.
- JCOM4020 - Mass Media and Society (DSS) - 3cr.
- JCOM4030 - Mass Media Law (DSS) - 3cr.
- JCOM4410 - Gender and the Mass Media - 3cr.
- JCOM4510 - Communication Internship - 1cr.
- JCOM5400 - Social Media Strategy, Analytics & Artificial Intelligence - 3cr.
- JCOM5420 - The Mass Media and Politics - 3cr.

OR

Political Science Elective Courses:

Complete ANY of the following Courses:

- POLS3110 - Parties and Elections (DSS) - 3cr.
- POLS3120 - Law and Politics (DSS) - 3cr.
- POLS3130 - United States Legislative Politics (DSS) - 3cr.
- POLS3140 - The Presidency (DSS) - 3cr.
- POLS3320 - The Foundations of American Constitutionalism - 3cr.
- POLS3400 - United States Foreign Policy (DSS) - 3cr.
- POLS3700 - Terrorism and Counterterrorism - 3cr.
- POLS4410 - International Negotiations - 3cr.
- POLS4220 - Ethnic Conflict and Cooperation (CI/DSS) - 3cr.
- POLS5910 - Campaign Internship - 1cr.
- POLS5920 - Washington Internship - 1cr.
- POLS5930 - State Government Internship - 1cr.
- POLS5940 - Administrative Internship - 1cr.
- POLS5950 - International Internship - 1cr.
- POLS5960 - International Studies Internship - 1cr.

Program Learning Outcomes

Program Learning Outcomes

https://chass.usu.edu/journalism/assessments

Practitioner of Food Safety - Post-Bachelor's Certificate

Program Overview

College
College of Agriculture & Natural Resources

Department
Nutrition, Dietetics & Food Sciences

Program Level
Graduate

About this Degree

The *Practitioner of Food Safety Certificate* is a post-bachelor certificate program designed to provide students with advanced training in food microbiology, toxicology, and sanitation. Students must also demonstrate mastery in two areas aligned with industry or regulatory trainings, for example, Hazard Analysis and Critical Control Points, Preventive Controls for Human Food, or Food Safety and Quality management systems. The certificate can be completed in one year.

The certificate credits can be applied towards the requirements for the Master of Food Safety and Quality degree, should the student decide to further their studies. A bachelor's degree is required for admission into the certificate program, and previous coursework in chemistry and microbiology is strongly recommended.

The PFS program does not provide financial aid or assistantships.

Admission Requirements for this Program

Applicants must have a BS or BA degree and provide one letter of recommendation. No entrance exam is required. Applicants are encouraged to contact the MFSQ program director prior to completing the University online application for graduate studies. The School of Graduate Studies will hold your application until it is complete, and it will then be reviewed by the NDFS department. When students are accepted into the program, they will be assigned a faculty advisor within the food science group in NDFS.

Program Requirements

Total Credits Required In Program Coursework
11

Total Credits Required To Earn This Credential
11

Simple Requisites

Program Requirements

Certificate Course Requirements

Type
Completion Requirement

Required Courses

Students must take all three core courses.

Complete ALL of the following Courses:

- NDFS6110 - Food Microbiology - 3cr.
- NDFS6150 - Principles of Food Sanitation - 3cr.
- NDFS6160 - Principles of Food Toxicology - 3cr.

Two credits from NDFS 617X series

Students can choose any two of the following:

Earn at least 2 credits from the following:

- NDFS6170 - Food Safety and Quality: Food Safety Management - 1cr.
- NDFS6171 - Food Safety and Quality: Current Good Manufacturing Practice - 1cr.

- NDFS6172 - Food Safety and Quality: Hazard Analysis and Critical Control Points - 1cr.
- NDFS6173 - Food Safety and Quality: Preventive Controls - 1cr.
- NDFS6174 - Food Safety and Quality: Standards for Produce Safety - 1cr.
- NDFS6175 - Food Safety and Quality: Acidified Foods - 1cr.

Program Learning Outcomes

Program Learning Outcomes

https://caas.usu.edu/ndfs/assessment

Political Science - Minor

Program Overview

College
College of Arts & Sciences

Department
School of Social Sciences

Program Level
Undergraduate

Program Requirements

Total Credits Required In Program Coursework
12

Total Credits Required To Earn This Credential
12

Simple Requisites

Program Requirements

Location: MAIN 320
Phone: (435) 797-1306
Fax: (435) 797-3751
E-mail: politicalscience@usu.edu
WWW: http://politicalscience.usu.edu/

- Students can obtain a minor in political science by completing a total of 18 credits in the field.
- **Minimum GPA for Admission:** 2.5, minor; 2.0, Career
- **Minimum GPA for Graduation:** 2.5, minor courses; 2.0, USU
- **Minimum Grade Accepted:** *C-* in minor courses
- Students may count up to 6 credit hours toward the Political Science minor that were also taken in pursuit of another major or minor.

Section 1

Type
Completion Requirement

Required Courses (3 credits)

Complete at least 1 of the following courses:

- POLS1100 - United States Government and Politics (BAI) - 3cr.
- POLS2100 - Introduction to International Relations (BSS) - 3cr.
- POLS2200 - Comparative Politics (BSS) - 3cr.
- POLS2300 - Introduction to Political Theory (BHU) - 3cr.
- POLS2500 - Introduction to International Studies (BSS) - 3cr.

Section 2

Type
Completion Requirement

Electives (9 credits)

Any Political Science courses can be used to complete the minor and fulfill this requirement with two exceptions:
EXCEPTIONS:

1. Not more than ***three*** credits in Directed Readings courses (POLS4910 READINGS AND CONFERENCE) can apply to this requirement.

2. Not more than **three** credits in Political Science Internship courses (POLS5900 GOVT AND POLICY INTERN SEMINAR, POLS5910 CAMPAIGN INTERNSHIP, POLS5920 WASHINGTON INTERNSHIP, POLS5930 STATE GOVERNMENT INTERN and POLS5940 ADMINISTRATIVE INTERNSHIP) can apply to this requirement.

Program Learning Outcomes

Program Learning Outcomes

https://chass.usu.edu/political-science/assessments

Political Science - BA, BS

Program Overview

College
College of Arts & Sciences

Department
School of Social Sciences

Program Level
Undergraduate

About this Degree

Political science is the study of government, public policies, political processes, and political behavior. The department is committed to encouraging students to reflect on the political demands that will inevitably fall on them as citizens of the U.S. and as human beings.

As political science majors at USU, students will gain a theoretical and factual understanding of international and national governments, politics and political philosophies. Through discussion-based classroom experiences and research experiences, students will be able to gain hands-on experience interacting with the tenets of government functions and duties. Students will learn to reflect on their role in society and communicate those expectations clearly.

Students receive a BS by completing all required courses in the major. To receive a BA, students must also gain proficiency in one or more foreign languages.

- For more information about Political Science, see the Department of Political Science website.
- Admitted and current students must meet with an academic advisor.
- Log on to Degree Works to check student-specific program progress.
- The highest math requirement for this degree is Quantitative Literacy (QL) course of the student's choice.

Admission Requirements for this Program

- New freshmen must be admitted to USU in Good Standing.
- Transfer students from other institutions or other programs at USU must have a 2.5 GPA Overall and 2.5 at USU.

Program Requirements

Total Credits Required In Program Coursework
36

Total Credits Required To Earn This Credential
120

Simple Requisites

Program Requirements

Bachelor of Science Degree

Students desiring a (BS) Bachelor of Science degree must complete all requirements listed in the core requirements below.

Bachelor of Arts Degree Requirement

For language requirements, please see Minimum University Requirements (Bachelor's Degree).

Major Requirements (36 credits)

Minimum GPA for Graduation: 2.5, major courses

Minimum Grade Accepted: C- in major courses

Please note that none of the courses can be taken pass/fail; all Political Science courses must be taken for a letter grade. Also, all courses must be attended in their entirety.

Students may count up to 6 credit hours toward the Political Science major that were also taken in pursuit of another major or minor.

Major Requirements (36 credits)

Type
Completion Requirement

Required Courses (15 credits)

Complete ALL of the following Courses:

- POLS1100 - United States Government and Politics (BAI) - 3cr.
- POLS2100 - Introduction to International Relations (BSS) - 3cr.
  OR POLS2200 - Comparative Politics (BSS) - 3cr.
- POLS2300 - Introduction to Political Theory (BHU) - 3cr.
- POLS3000 - Introduction to Political Research (QI) - 3cr.
- POLS4990 - Senior Research Seminar (CI) - 3cr.

NOTE:

1. POLS3000 INTRO POLITICAL RESEARCH (QI) must be taken before POLS4990 SENIOR RESEARCH SEMINAR (CI).

B. Area Requirements (15 credits minimum)

Select two of the following four areas: U.S. Government and Policy, International Relations, Comparative Politics, and Political Theory. Complete nine upper-division credits in one of the selected areas and six upper-division credits in the other. Even though a course may be listed under more than one area, it can be applied to only one area. Prior to taking the upper-division courses in a particular area, students must take the introductory course corresponding to that specific area.

B-1. Us Government and Policy Course Options

Type
Completion Requirement

US Government and Policy Courses

Complete ANY of the following Courses:

- POLS3110 - Parties and Elections (DSS) - 3cr.
- POLS3115 - Electoral Behavior - 3cr.
- POLS3120 - Law and Politics (DSS) - 3cr.
- POLS3130 - United States Legislative Politics (DSS) - 3cr.
- POLS3140 - The Presidency (DSS) - 3cr.
- POLS3150 - State and Local Government - 3cr.
- POLS3170 - Law and Economics - 3cr.
- POLS3180 - Introduction to Public Administration - 3cr.
- POLS3810 - Introduction to Public Policy (DSS) - 3cr.
- POLS4120 - American Constitutional Law - 3cr.
- POLS4140 - Political Organizations - 3cr.
- POLS4150 - The Supreme Court and the Shaping of America - 3cr.
- POLS4160 - The First Amendment - 3cr.
- POLS4350 - Public Policy and Democratic Theory - 3cr.
- POLS4800 - Constitutional Design - 3cr.
- POLS4820 - Natural Resources and Environmental Policy: Political Economy of Environmental Quality (DSS) - 3cr.
- POLS4840 - Regulatory Politics - 3cr.
- POLS4890 - Special Topics - 1cr.
- POLS5000 - Political Analysis (QI) - 3cr.
- POLS5100 - Politics and Public Policy - 3cr.
- POLS5110 - Social Policy - 3cr.
- POLS5130 - Law and Policy - 3cr.
- POLS5140 - Law, Politics, and War - 3cr.
- POLS5420 - The Mass Media and Politics - 3cr.
  OR JCOM5420 - The Mass Media and Politics - 3cr.

NOTE:

1. POLS4890 SPECIAL TOPICS - Special Topics- 3 credit maximum. The subject matter determines the area in which it applies.

B-2. International Relations Course Options

Type
Completion Requirement

International Relations Courses

Complete ANY of the following Courses:

- POLS3100 - Global Issues: Non-Democratic Politics - 3cr.
- POLS3200 - The Politics of Development (CI/DSS) - 3cr.
- POLS3400 - United States Foreign Policy (DSS) - 3cr.
- POLS3410 - International Human Rights System - 3cr.
- POLS3430 - Political Geography (CI/DSS) - 3cr.
- POLS3700 - Terrorism and Counterterrorism - 3cr.
- POLS4210 - European Union Politics - 3cr.
- POLS4260 - Asian Government and Politics (DSS) - 3cr.
- POLS4280 - Peacebuilding After War - 3cr.
- POLS4410 - International Negotiations - 3cr.
- POLS4450 - United States and Latin America (CI) - 3cr.
- POLS4460 - National Security Policy - 3cr.
- POLS4462 - The US Intelligence Community - 3cr.
- POLS4463 - Grand Strategy and International Politics - 3cr.
- POLS4464 - Why Nations Fight? International Security in the 21st Century (DSS) - 3cr.
- POLS4470 - Foreign Policy in the Pacific - 3cr.
- POLS4890 - Special Topics - 1cr.
- POLS5210 - Comparative Political Change/Development - 3cr.
- POLS5270 - Latin American Politics and Development - 3cr.
- POLS5300 - Cyber Warfare and International Politics - 3cr.
- POLS5400 - National Security Strategy and Strategic Uncertainty - 3cr.
- POLS5480 - International Trade Policy - 3cr.
- POLS5770 - Strategic Culture - 3cr.

NOTE:

1. POLS4890 SPECIAL TOPICS - Special Topics- 3 credit maximum. The subject matter determines the area in which it applies.

B-3. Comparative Politics Course Options

Type
Completion Requirement

Comparative Poltics Courses

Complete ANY of the following Courses:

- POLS3200 - The Politics of Development (CI/DSS) - 3cr.
- POLS3210 - Western European Government and Politics (DSS) - 3cr.
- POLS3220 - Russian and East European Government and Politics (DSS) - 3cr.
- POLS3230 - Middle Eastern Government and Politics - 3cr.
- POLS3240 - African Government and Politics - 3cr.
- POLS3250 - Chinese Government and Politics (DSS) - 3cr.
- POLS3270 - Latin American Government and Politics (DSS) - 3cr.
- POLS4210 - European Union Politics - 3cr.

- POLS4220 - Ethnic Conflict and Cooperation (CI/DSS) - 3cr.
- POLS4230 - Issues in Middle East Politics - 3cr.
- POLS4260 - Asian Government and Politics (DSS) - 3cr.
- POLS4410 - International Negotiations - 3cr.
- POLS4450 - United States and Latin America (CI) - 3cr.
- POLS4500 - The Politics of Social Movements (DSS) - 3cr.
- POLS4890 - Special Topics - 1cr.
- POLS5140 - Law, Politics, and War - 3cr.
- POLS5210 - Comparative Political Change/Development - 3cr.
- POLS5270 - Latin American Politics and Development - 3cr.

NOTE:

1. POLS4890 SPECIAL TOPICS - Special Topics- 3 credit maximum. The subject matter determines the area in which it applies.

B-4. Political Theory Course Options

Type
Completion Requirement

Political Theory Courses

Complete ANY of the following Courses:

- POLS3310 - American Political Thought (DSS) - 3cr.
- POLS3320 - The Foundations of American Constitutionalism - 3cr.
- POLS4130 - Constitutional Theory - 3cr.
- POLS4310 - History of Political Thought I (CI) - 3cr.
- POLS4320 - History of Political Thought II (DSS) - 3cr.
- POLS4330 - Political Theory and Literature - 3cr.
- POLS4360 - Critical Topics in Political Theory (DHA) - 3cr.
- POLS4370 - Modern Political Thought (DHA) - 3cr.
- POLS4890 - Special Topics - 1cr.

NOTE:

1. POLS4890 SPECIAL TOPICS - Special Topics- 3 credit maximum. The subject matter determines the area in which it applies.

Major Electives (6 credits)

Type
Completion Requirement

Complete the following:

In addition to the 15 credits of required prerequisite courses and the 15 credits of area courses, students must complete six upper-division elective credits. Any upper-division Political Science courses may be used to fulfill this requirement, with **two exceptions**:

1. Not more than **three** credits in Directed Readings courses (POLS4910 READINGS AND CONFERENCE) can apply to this requirement.
2. Not more than **three Internship** credits in the following courses can apply to this requirement:

Optional Major Elective

These are suggested internship courses and are not required for graduation.

Complete ANY of the following Courses:

- POLS5900 - Government and Policy Internship Seminar - 3cr.
- POLS5910 - Campaign Internship - 1cr.
- POLS5920 - Washington Internship - 1cr.
- POLS5930 - State Government Internship - 1cr.
- POLS5940 - Administrative Internship - 1cr.
- POLS5950 - International Internship - 1cr.

Open Electives

Type
Completion Requirement

Elective Credit

Complete the following as needed:
Total elective credit is determined by General Education courses taken, degree type selected, additional credits earned, and any additional math or prerequisite courses needed. Please consult your Academic Advisor for details.

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Bachelor's Degree)

Suggested Degree Maps

Degree Map Name
Suggested Degree Map - Political Science BA, BS
Total Degree Map Credits
120
Degree Map Effective Catalog Year
2027 -

Degree Map Narrative

- Following is a sample four-year plan. Please note that student-specific plans may differ.
- Meet with an academic advisor to create a specific plan that best fits your academic needs.
- The student is ultimately responsible for knowing and completing all degree requirements.
- Make sure you meet the registration requirements for each class by clicking the course link and checking any prerequisites or corequisites.
- Consultation with an advisor may result in an altered plan customized for an individual student.
- Check your Degree Works for requirements and completion.

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	15	0

Requirement Select

- ENGL1010 - Writing as Inquiry (CL1)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- POLS1100 - United States Government and Politics (BAI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- POLS2100 - Introduction to International Relations (BSS)

OR

- POLS2200 - Comparative Politics (BSS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Breadth Creative Arts (BCA) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Breadth Life Sciences (BLS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	15	0

Requirement Select

- POLS2300 - Introduction to Political Theory (BHU)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Quantitative Literacy (QL) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Breadth Physical Sciences (BPS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	15	0

Requirement Select
- ENGL2010 - Research and Argument Across Perspectives (CL2)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	15	0

Requirement Select
- POLS Upper-Division Course: (Area 1) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- POLS Upper-Division Course: (Area 2) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Communications Intensive (CI) Courses

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Fall	15	0

Requirement Select
- POLS3000 - Introduction to Political Research (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- POLS Upper-Division Course: (Area 1) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Depth Humanities and Creative Arts (DHA) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Spring	15	0

Requirement Select
- POLS Upper-Division Course: (Area 1) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- POLS Upper-Division Course: (Area 2) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Depth Life and Physical Sciences (DSC) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Fall	15	0

Requirement Select
- POLS Upper-Division Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- POLS Upper-Division Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Upper-Division Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Spring	15	0

Requirement Select
- POLS4990 - Senior Research Seminar (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Upper-Division Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	Total Major Credits
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Program Learning Outcomes

Program Learning Outcomes

https://artsci.usu.edu/social-sciences/political-science/assessments

Political Science - MA

Program Overview

College	Department	Program Level
College of Arts & Sciences	School of Social Sciences	Graduate

About this Degree

The Master of Arts (MA) in Political Science at Utah State University prepares students for rigorous engagement with the study of government, public policy, political processes, and international affairs. Working alongside award-winning faculty, graduate students develop expertise in research design and data analysis, political theory, and in political behavior and institutions at local, national, and international levels. The program serves students with a wide range of professional and academic goals, including careers as policy analysts in government and the private sector, positions in the Foreign Service, international organizations, think tanks, and lobbying firms, as well as entry into doctoral programs in political science and related disciplines at leading research universities.

Students select from coursework spanning American politics, comparative politics, international relations, and political theory, with opportunities for interdisciplinary engagement through affiliated centers and institutes, including the Heravi Peace Institute, the Institute of Government and Politics, and the Center for the Study of American Constitutionalism. Faculty research strengths cluster in four areas that are unusually difficult to find combined in a single master's program. The first is American political institutions and behavior: faculty research addresses Congressional bargaining and bicameral dynamics, judicial selection and court reform, campaign finance and electoral representation, and the intersection of political psychology, public opinion, and health politics. The second is conflict, peace, and geopolitics: faculty work covers the quantitative study of bargaining obstacles to war resolution, the micro-level dynamics of civilian survival in conflict, and the geopolitics of great power transitions and world-systems — a combination of statistical, field-based, and geographic approaches to conflict directly supported by USU's Heravi Peace Institute. The third is comparative politics and political economy: faculty expertise includes autocratic politics and democratic backsliding, as well as electoral and administrative accountability in unequal democracies. The fourth is political theory and constitutional thought: faculty work spans the realist tradition in western political philosophy, the founders' constitutional design and its relationship to partisanship, and the theory of republican government and the rule of law. Across all four areas, the political science faculty brings methodological range (statistical analysis, survey experiments, formal modeling, multi-method field research, and political geography) that prepares students for both applied policy careers and doctoral study.

The MA and MS degrees differ in their competency requirements. MA candidates must demonstrate proficiency in one or more foreign languages, reflecting the program's preparation for fields where language expertise is essential. MS candidates fulfill a quantitative competency requirement in lieu of a foreign language, providing advanced methodological training suited to empirical research and policy-analytic careers.

Funding in the form of teaching assistantships is available on a merit-based, highly competitive basis.

Contact Information

Location: MAIN 320
Phone: (435) 797-1306
Fax: (435)797-3751
E-mail: politicalscience@usu.edu
WWW: http://politicalscience.usu.edu/

Director of Graduate Studies:
Anna O. Pechenkina, PhD
Associate Professor of Political Science
E-mail: Anna.Pechenkina@usu.edu

Graduate Program Coordinator:
Megan Sills
E-mail: megan.sills@usu.edu

Admission Requirements for this Program

Admission requirements can be found on the USU School of Graduate Studies website (gradschool.usu.edu/admissions/policies). Applicants are expected to have a minimum GPA of 3.0 on the final 60 semester or 90 quarter credits. The department will consider applications from students with undergraduate degrees in subjects other than political science; acceptance in these cases may require fulfilling certain course prerequisites. The department accepts new students each fall; the application deadline is February 1. Applicants who submit after February 1 may still be considered for admission but will not be reviewed for financial assistance.

Additional information about the program may be obtained by contacting the Director of Graduate Studies for Political Science (see the contact information above) or by visiting the program website at artsci.usu.edu/social-sciences/political-science.

Program Requirements

Total Credits Required In Program Coursework
30

Total Credits Required To Earn This Credential
30

Simple Requisites

Program Requirements

SCHOOL OF GRADUATE STUDIES REQUIREMENTS

Degree Verification: A bachelor's degree from an accredited U. S. college or university or a similarly recognized international university is required for admission to and completion of a graduate program.

Course Number Acceptability: The Program of Study for a master's degree must include no more than 9 credit hours at the 5000 level. All additional coursework must be at the 6000 level or above.

Overall Graduate GPA at least 3.0 and no grades of C- or lower: Graduate students are required to maintain at least a 3. 0 GPA for degree-program courses. Grades of C- or lower will not be accepted for a graduate degree.

USU Residency Requirement: To maintain USU graduate residency requirements, at least 24 semester-credits for a master's degree must be from an approved Program of Study from USU.

Matriculation Start Semester: A master's degree must be completed within six years of entering the degree program. Additional time may be requested by the student's committee and submitted to the Vice Provost for Graduate Studies for review.

Coursework Validity: Coursework over eight years old at the time of degree completion may not be used for a graduate degree unless it is revalidated by the School of Graduate Studies.

Thesis Research Credits:

Plan A students:

Plan A requires preparing and defending a thesis. Students must complete six credits of thesis research counting toward the Program of Study. The department expects a Plan A thesis, which typically involves a data-based evaluation of hypotheses, though requirements vary by subfield.

Plan B students:

Plan B requires producing and defending a paper or project in line with committee guidelines and typically does not involve a data-based evaluation of hypotheses. No more than three thesis research credits may count toward the Program of Study.

Academic Forms: Completion of the MA degree requires the approval of the following forms by the School of Graduate Studies:

Plan A

- Supervisory Committee
- Program of Study
- Thesis Proposal Approval
- Appointment for Exam
- Authorship & Copyright
- Format and Style
- Title Page
- Graduation Application

PLAN B

- Supervisory Committee
- Program of Study
- Thesis Proposal Approval
- Appointment for Exam
- Plan B Report/Creative Project Submission
- Graduation Application

Additionally, all MA degree students must complete Responsible Conduct of Research training prior to forming their supervisory committees.

Language Requirement Status for Master of Arts (if required by department).

MASTER OF ARTS IN POLITCAL SCIENCE REQUIREMENTS

This program requires completion of 30 graduate credits (all courses are three credits unless otherwise designated). The Master of Arts degree requires language proficiency in a second language as determined by the World Languages and Cultures Department. The Master of Science degree requires quantitative competency. Completion of the degree requires a Plan A thesis or a Plan B paper. The department expectation is the completion of a Plan A thesis.

Required for all degrees:
Successful defense and submission of the thesis to the library.

Program Requirements

Type
Completion Requirement

Required Courses (21 credits)

Complete ALL of the following Courses:

- POLS6010 - Research Design - 3cr.
- POLS6220 - Comparative Politics Seminar - 3cr.
- POLS6250 - International Relations Seminar - 3cr.
- POLS6300 - American Politics Seminar - 3cr.
- POLS6310 - Political Theory Seminar - 3cr.
- POLS6970 - Thesis Research - 1cr.

Plan A students:

Plan A requires preparing and defending a thesis. Students must complete six credits of thesis research counting toward the Program of Study. The department expects a Plan A thesis, which typically involves a data-based evaluation of hypotheses, though requirements vary by subfield.

Plan B students:

Plan B requires producing and defending a paper or project in line with committee guidelines and typically does not involve a data-based evaluation of hypotheses. No more than three thesis research credits may count toward the Program of Study.

Elective Courses (9 credits)

Complete the following:

- Take 9 credit hours of 5000-level or 6000-level POLS courses (or outside courses with approval). No more than 9 credit hours of 5000-level coursework may be applied to a graduate degree.

Program Learning Outcomes

Program Learning Outcomes

https://chass.usu.edu/political-science/assessments

Political Science - MS

Program Overview

College	Department	Program Level
College of Arts & Sciences	School of Social Sciences	Graduate

About this Degree

The Master of Science (MS) in Political Science at Utah State University prepares students for rigorous engagement with the study of government, public policy, political processes, and international affairs. Working alongside award-winning faculty, graduate students develop expertise in research design and data analysis, political theory, and in political behavior and institutions at local, national, and international levels. The program serves students with a wide range of professional and academic goals, including careers as policy analysts in government and the private sector, positions in the Foreign Service, international organizations, think tanks, and lobbying firms, as well as entry into doctoral programs in political science and related disciplines at leading research universities.

Students select from coursework spanning American politics, comparative politics, international relations, and political theory, with opportunities for interdisciplinary engagement through affiliated centers and institutes, including the Heravi Peace Institute, the Institute of Government and Politics, and the Center for the Study of American Constitutionalism. Faculty research strengths cluster in four areas that are unusually difficult to find combined in a single master's program. The first is American political institutions and behavior: faculty research addresses Congressional bargaining and bicameral dynamics, judicial selection and court reform, campaign finance and electoral representation, and the intersection of political psychology, public opinion, and health politics. The second is conflict, peace, and geopolitics: faculty work covers the quantitative study of bargaining obstacles to war resolution, the micro-level dynamics of civilian survival in conflict, and the geopolitics of great power transitions and world-systems — a combination of statistical, field-based, and geographic approaches to conflict directly supported by USU's Heravi Peace Institute. The third is comparative politics and political economy: faculty expertise includes autocratic politics and democratic backsliding, as well as electoral and administrative accountability in unequal democracies. The fourth is political theory and constitutional thought: faculty work spans the realist tradition in western political philosophy, the founders' constitutional design and its relationship to partisanship, and the theory of republican government and the rule of law. Across all four areas, the political science faculty brings methodological range (statistical analysis, survey experiments, formal modeling, multi-method field research, and political geography) that prepares students for both applied policy careers and doctoral study.

The MA and MS degrees differ in their competency requirements. MA candidates must demonstrate proficiency in one or more foreign languages, reflecting the program's preparation for fields where language expertise is essential. MS candidates fulfill a quantitative competency requirement in lieu of a foreign language, providing advanced methodological training suited to empirical research and policy-analytic careers.

Funding in the form of teaching assistantships is available on a merit-based, highly competitive basis.

Contact Information

Location: MAIN 320
Phone: (435) 797-1306
Fax: (435)797-3751
E-mail: politicalscience@usu.edu
WWW: http://politicalscience.usu.edu/

Director of Graduate Studies:
Anna O. Pechenkina, PhD
Associate Professor of Political Science
E-mail: Anna.Pechenkina@usu.edu

Graduate Program Coordinator:
Megan Sills
E-mail: megan.sills@usu.edu

Admission Requirements for this Program

Admission requirements can be found on the USU School of Graduate Studies website (gradschool.usu.edu/admissions/policies). Applicants are expected to have a minimum GPA of 3.0 on the final 60 semester or 90 quarter credits. The department will consider applications from students with undergraduate degrees in subjects other than political science; acceptance in these cases may require fulfilling certain course prerequisites. The department accepts new students each fall; the application deadline is February 1. Applicants who submit after February 1 may still be considered for admission but will not be reviewed for financial assistance.

Additional information about the program may be obtained by contacting the Director of Graduate Studies for Political Science (see the contact information above) or by visiting the program website at artsci.usu.edu/social-sciences/political-science.

Program Requirements

Total Credits Required In Program Coursework
30

Total Credits Required To Earn This Credential
30

Simple Requisites

Program Requirements

SCHOOL OF GRADUATE STUDIES REQUIREMENTS

Degree Verification: A bachelor's degree from an accredited U. S. college or university or a similarly recognized international university is required for admission to and completion of a graduate program.

Course Number Acceptability: The Program of Study for a master's degree must include no more than 9 credit hours at the 5000 level. All additional coursework must be at the 6000 level or above.

Overall Graduate GPA at least 3.0 and no grades of C- or lower: Graduate students are required to maintain at least a 3. 0 GPA for degree-program courses. Grades of C- or lower will not be accepted for a graduate degree.

Matriculation Start Semester: A master's degree must be completed within six years of entering the degree program. Additional time may be requested by the student's committee and submitted to the Vice Provost for Graduate Studies for review.

Coursework Validity: Coursework over eight years old at the time of degree completion may not be used for a graduate degree unless it is revalidated by the School of Graduate Studies.

Thesis Research Credits:

Plan A students:
Plan A requires preparing and defending a thesis. Students must complete six credits of thesis research counting toward the Program of Study. The department expects a Plan A thesis, which typically involves a data-based evaluation of hypotheses, though requirements vary by subfield.

Plan B students:
Plan B requires producing and defending a paper or project in line with committee guidelines and typically does not involve a data-based evaluation of hypotheses. No more than three thesis research credits may count toward the Program of Study.

Academic Forms: Completion of the MS degree requires the approval of the following forms by the School of Graduate Studies:

Plan A

- Supervisory Committee
- Program of Study
- Thesis Proposal Approval
- Appointment for Exam
- Authorship & Copyright
- Format and Style
- Title Page
- Graduation Application

Plan B

- Supervisory Committee
- Program of Study
- Thesis Proposal Approval
- Appointment for Exam
- Plan B Report/Creative Project Submission
- Graduation Application

Additionally, all MS degree students must complete Responsible Conduct of Research training prior to forming their supervisory committees.

MASTER OF SCIENCE IN POLITICAL SCIENCE REQUIREMENTS

This program requires completion of 30 graduate credits (all courses are three credits unless otherwise designated). The Master of Arts degree requires language proficiency in a second language as determined by the World Languages and Cultures Department. The Master of Science degree requires quantitative competency. Completion of the degree requires a Plan A thesis or a Plan B paper. The department expectation is the completion of a Plan A thesis.

Required for all degrees:
Successful defense and submission of the thesis to the library.

Program Requirements

Type
Completion Requirement

Required Courses (21 credits)

Complete ALL of the following Courses:

- POLS6010 - Research Design - 3cr.
- POLS6220 - Comparative Politics Seminar - 3cr.
- POLS6250 - International Relations Seminar - 3cr.
- POLS6300 - American Politics Seminar - 3cr.
- POLS6310 - Political Theory Seminar - 3cr.
- POLS6970 - Thesis Research - 1cr.

6 credits of POLS6970 THESIS RESEARCH for Plan A and 2 credits of POLS6970 THESIS RESEARCH for Plan B are required

Elective Courses (9 credits)

Complete the following;
Take 9 credit hours of 5000-level or 6000-level POLS courses (or outside courses with approval). No more than 9 credit hours of 5000-level coursework may be applied to a graduate degree.

Program Learning Outcomes

Program Learning Outcomes
https://chass.usu.edu/political-science/assessments

Powerplant Maintenance - Technical Certificate

Program Overview

College
College of Agriculture & Natural Resources

Department
Technology, Design & Technical Ed

Program Level
Undergraduate

About this Degree

The Airframe Maintenance program equips students with the necessary skills for a career in aviation maintenance. After completing this certificate, students will meet the Federal Aviation Administration requirements to take the General and Airframe tests required to earn their FAA Airframe license.

This Technical Certificate will provide independent, statewide-developed certification and a stackable credential toward a two-year Associate of Applied Science in Powerplant Maintenance Technician. After completion, students will be eligible to take the FAA Part 147 licensing exam. Credits earned in the certificate program(s) will meet requirements for existing Certificate and BS program requirements:

• AAS, Aircraft Maintenance Technician

• AAS, General Technology

• AAS, Small Business Operations

• BS, Technology Systems, Technical Management

Program Requirements

Total Credits Required In Program Coursework
37

Total Credits Required To Earn This Credential
37

Simple Requisites

Program Requirements

Required Courses (37 Credits)

Type
Completion Requirement

Required Courses

Complete ALL of the following Courses:

- TEMT1005 - Machining for Manufacturing Trades - 3cr.
- TEDR1000 - Technical Drafting - 4cr.
- TEAV1000 - Technical Mathematics - 3cr.
- TEAV1010 - Circuit Analysis - 3cr.
- TEAV1020 - Circuit Analysis Lab - 2cr.
- TEAV1130 - Flight Principles - 3cr.
- TEAV1140 - Aircraft Components and Principles - 2cr.
- TEAV2100 - Aircraft Reciprocating Powerplants and Accessories - 3cr.
- TEAV2110 - Aircraft Reciprocating Powerplants and Accessories Lab - 3cr.
- TEAV2140 - Aircraft Turbine Powerplants Maintenance Operations - 3cr.
- TEAV2150 - Aircraft Turbine Powerplant Maintenance Operations Lab - 3cr.
- TEAV2420 - FAA Regulations, Records, and Certification - 2cr.
- TEAV2430 - Aircraft Electrical Systems and Components - 2cr.
- TEAV2440 - Aircraft Electrical Systems and Components Lab - 2cr.

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Undergraduate Academic or Technical Certificates)

Program Learning Outcomes

Program Learning Outcomes

- Perform aviation engine maintenance in alignment with FAA Standards.
- Prepare for FAA Licensing by fulfilling all prerequisites to sit for the Federal Aviation Administration General and Airframe licensing exams, qualifying for certification and practice in the field.
- Interpret diagnostic material for aviation maintenance and repair.
- Record maintenance logs and certify the airworthiness of aircraft.

Portuguese - Minor

Program Overview

College
College of Arts & Sciences

Department
World Languages and Cultures

Program Level
Undergraduate

About this Degree

Students in the Portuguese minor develop further language proficiency, intercultural competence skills, analytical skills, critical thinking skills, and communication skills, as well as further knowledge of the Portuguese-speaking world.

Admission Requirements for this Program

- https://catalog.usu.edu/pages/xyxP2mhflUUBAvhXSVrY.
- 2.0 GPA minimum

Program Requirements

Total Credits Required In Program Coursework
12

Total Credits Required To Earn This Credential
12

Simple Requisites

Program Requirements

- **Total Credits:** 12
- **Minimum Grade Requirement:** All courses taken for the Portuguese minor require a minimum grade of **C-** or better. Courses for the minor *may not* be taken on a pass/fail basis.

Section 1

Type
Completion Requirement

Required Courses (3 credits)

Complete ALL of the following Courses:

- PORT3040 - Advanced Portuguese Grammar and Composition (CI) - 3cr.

Section 2

Type
Completion Requirement

Elective Courses (9 credits)

Earn at least 9 credits from the following:

- PORT3000 - Intermediate Grammar and Composition - 3cr.
- PORT3081 - Healthcare Translation in Portuguese - 3cr.
- PORT3100 - Healthcare Portuguese - 3cr.
- PORT3116 - Navigating Identities of the Portuguese-speaking World - 3cr.
- PORT3117 - Cultural Issues Through Literature and FIlm - 3cr.
- PORT3118 - Popular Culture in the Portuguese-speaking World - 3cr.
- PORT3400 - Popular Music in the Portuguese-Speaking World - 3cr.
- PORT3510 - Business Portuguese - 3cr.
- PORT3540 - Introduction to Translation Studies in Portuguese - 3cr.
- PORT3570 - Brazilian Culture and Civilization (DHA) - 3cr.
- PORT3630 - Literatures of the Portuguese-Speaking World (DHA) - 3cr.
- PORT3700 - Contemporary Brazilian Cinema - 3cr.
- PORT3800 - Portuguese III Study Abroad - 1cr.
- PORT3820 - Advanced Independent Study Abroad: Experiencing Lusophone Culture III - 2cr.
- PORT4000 - Contemporary Issues in Brazil - 3cr.
- PORT4071 - Simultaneous and Consecutive Healthcare Interpretation - 3cr.
- PORT4100 - Trends in Lusophone Cultures - 3cr.
- PORT4200 - Brazilian Media in Global Context - 3cr.
- PORT4880 - Individual Readings - 1cr.
- PORT4920 - Portuguese Language Tutoring - 1cr.

Section 3

Type
Completion Requirement

Bridge Program

Requirements
Bridge Pathway: Students who have participated in a High School Portuguese Bridge Program should follow the instructions below for successful completion of the Portuguese minor.

- **Credits in Residence:** At least half (50 percent) of the credits earned for this minor must be earned at USU. Bridge courses will count toward elective credits and credits in residence at USU.
- **AP Exam:** Bridge students who received a score of 3 or higher on the AP Portuguese Exam taken prior to starting Bridge classes **may register directly for** PORT3040 ADV GRAMMAR/COMPOSITION (CI) without having to take any of the lower-division Portuguese courses or another placement test.
- **Bridge Courses:** PORT3116 PORTUGUESE-SPEAKING WORLD, PORT3117 CULTURE ISSUES THRU LIT & FILM, and PORT3118 POP CULTURE PORTUGUESE should be transferred to the Registrar's Office if taken through another University.

If Bridge student successfully completed:

- 1 Bridge course: Take PORT3040 ADV GRAMMAR/ COMPOSITION (CI) and **2** more 3 credit upper-division Portuguese electives
- 2 Bridge courses: Take PORT3040 ADV GRAMMAR/ COMPOSITION (CI) and **1** more 3 credit upper-division Portuguese elective
- 3 Bridge courses: Take PORT3040 ADV GRAMMAR/ COMPOSITION (CI)

Upon completion, student should have 12 credits of upper division Portuguese coursework to complete the minor, Bridge classes included.

Program Learning Outcomes

Program Learning Outcomes

https://chass.usu.edu/languages/assessments

Political Science Teaching - Minor

Program Overview

College
College of Arts & Sciences

Department
School of Social Sciences

Program Level
Undergraduate

Program Requirements

Total Credits Required To Earn This Credential
15

Simple Requisites

Program Requirements

Location: MAIN 320
Phone: (435) 797-1306
Fax: (435) 797-3751
E-mail: politicalscience@usu.edu
WWW: http://politicalscience.usu.edu/

This minor is designed specifically for students seeking careers in secondary education. Students must have at least 15 credits and a 2.75 GPA in Political Science courses and complete the STEP program. A minimum grade of C is required.

Section 1

Type
Completion Requirement

Required Courses (12 credits)

Complete ALL of the following Courses:

- POLS1100 - United States Government and Politics (BAI) - 3cr.
- POLS2100 - Introduction to International Relations (BSS) - 3cr.
- POLS2200 - Comparative Politics (BSS) - 3cr.
- POLS2300 - Introduction to Political Theory (BHU) - 3cr.

Section 2

Type
Completion Requirement

Political Science Electives (3 credits)

Earn at least 3 credits from the following:

- POLS3110 - Parties and Elections (DSS) - 3cr.
- POLS3115 - Electoral Behavior - 3cr.
- POLS3120 - Law and Politics (DSS) - 3cr.
- POLS3130 - United States Legislative Politics (DSS) - 3cr.
- POLS3140 - The Presidency (DSS) - 3cr.
- POLS3150 - State and Local Government - 3cr.
- POLS3310 - American Political Thought (DSS) - 3cr.
- POLS3400 - United States Foreign Policy (DSS) - 3cr.
- POLS4120 - American Constitutional Law - 3cr.
- POLS4130 - Constitutional Theory - 3cr.
- POLS4150 - The Supreme Court and the Shaping of America - 3cr.
- POLS4160 - The First Amendment - 3cr.
- POLS4350 - Public Policy and Democratic Theory - 3cr.
- POLS5420 - The Mass Media and Politics - 3cr.

Section 3

Type
Completion Requirement

Additional requirements for STEP

Complete ALL of the following Courses:

- SCED3500 - Teaching Social Studies - 3cr.

Additional Comments:

Licensure Notification

This program typically leads to licensure and was designed to meet licensing qualifications in the state of Utah. If students wish to work in another state within the United States, they should review the qualifications for that state and the Education Licensure Compliance Table provided by School of Teacher Education and Leadership.

For more information, please contact the School of Teacher Education and Leadership at https://cehs.usu.edu/teal/

Program Learning Outcomes

Program Learning Outcomes
https://chass.usu.edu/political-science/assessments

Police Officer Standards Training (POST) Academy - Certificate

Program Overview

College
College of Arts & Sciences

Department
School of Social Sciences

Program Level
Undergraduate

About this Degree

The Undergraduate Certificate in Police Officer Standards Training (POST) Academy will be housed and administered by USU's School of Social Sciences in the College of Arts and Sciences. The curriculum will include currently offered undergraduate courses. While three courses are required for certificate completion, students will be welcome and invited to take additional electives.

Program Requirements

Total Credits Required In Program Coursework
25

Total Credits Required To Earn This Credential
25

Simple Requisites

Program Requirements

Certificate completion will require three courses totaling 25-credit hours.

Police Officer Standards Training (POST) Academy - Certificate

Type
Completion Requirement

Required Courses (25 credits)

Complete ALL of the following Courses:

- CJ1060 - POST Certification: Special Function Officer (SFO) - 8cr.
- CJ1070 - POST Certification: Basic Corrections Officer (BCO) - 5cr.
- CJ1080 - POST Certification: Law Enforcement Officer (LEO) - 12cr.

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Undergraduate Academic or Technical Certificates)

Program Learning Outcomes

Program Learning Outcomes

Objectives:

1- Students will gain the necessary knowledge and skills to fulfill the requirements for the State of Utah Police Officer Standards and Training (POST) Special Function Officer (SFO) certification upon successful completion of the course.

2- Students will acquire the knowledge and skills required to fulfill the State of Utah Police Officer Standards and Training (POST) Basic Corrections Officer (BCO) certification upon successful completion of the course.

3- Students will gain the necessary knowledge and skills to fulfill the requirements for the State of Utah Police Officer Standards and Training (POST) Law Enforcement Officer (LEO) certification upon successful completion of the course.

Peace Officer Standards Training (POST) - Technical Certificate

Program Overview

College
College of Agriculture & Natural Resources

Department
Technology, Design & Technical Ed

Program Level
Undergraduate

About this Degree

Federal Gainful Employment Information

Police Academy certificates are offered in three college-credit modules: Special Function Officer (SFO), Basic Correctional Officer (BCO), and Law Enforcement Officer (LEO). Classes run from 5:00-10:00 pm five nights a week and also involve a few 8:00 am - 5:00 pm Saturday trainings.

This program is not currently Financial Aid eligible.

Program Requirements

Total Credits Required In Program Coursework
-

Total Credits Required To Earn This Credential
-

Simple Requisites

Program Requirements

Special Function Officer

- Nine-week program
- 7 credit hours
- SFO Certification prepares a student to work in a limited number of special function positions, such as Security Officer.
- Students must past the SFO module to continue to the second or third module.

Basic Correctional Officer

- Seven-week program
- 5 credit hours
- Successful completion of this module qualifies cadets to work at a county jail or at the state prison.

Law Enforcement Officer

- Thirteen-week program
- 11 credit hours
- Completes the cadet training for LEO Certification (the more widely-known police academy course)
- The 360 hours of training includes accident investigation, sex crimes investigation, firearms, crimes in progress, patrol, physical fitness and arrest contro

Peace Officer Standards Training (POST) - Technical Certificate Course Requirements

Type
Completion Requirement

Course Requirements

Course Requirements

Special Function Officer (FALL)

CJ 1900 - Introduction to the Criminal Justice System (INACTIVATED FALL 2025) 0.5 credit(s)

CJ 1901 - Police Ethics (INACTIVATED FALL 2025) 0.5 credit(s)

CJ 1902 - Officer Fundamentals (INACTIVATED FALL 2025) 1 credit(s)

CJ 1903 - Basic Officer Criminal Law (INACTIVATED FALL 2025) 2 credit(s)

CJ 1904 - Defensive Tactics I (INACTIVATED FALL 2025) 1 credit(s)

CJ 1905 - Officer Patrol and Investigations (INACTIVATED FALL 2025) 2 credit(s)

Basic Corrections Officer (FALL)

CJ 1910 - Corrections Legal (INACTIVATED FALL 2025) 1 credit(s)

CJ 1912 - Inmate Behavior (INACTIVATED FALL 2025) 1 credit(s)

CJ 1913 - Inmate Management (INACTIVATED FALL 2025) 0.5 credit(s)

CJ 1914 - Inmate Control (INACTIVATED FALL 2025) 1 credit(s)

CJ 1915 - Physical Skills (INACTIVATED FALL 2025) 1.5 credit(s)

Law Enforcement Officer (SPRING)

CJ 1920 - Peace Officer Fundamentals (INACTIVATED FALL 2025) 1 credit(s)

CJ 1921 - Peace Office Criminal Law (INACTIVATED FALL 2025) 1 credit(s)

CJ 1922 - Defensive Tactics II (INACTIVATED FALL 2025) 1.5 credit(s)

CJ 1923 - Patrol Functions (INACTIVATED FALL 2025) 3 credit(s)

CJ 1924 - Police Investigations (INACTIVATED FALL 2025) 2.5 credit(s)

CJ 1925 - Intoxilyzer/DUI Training (INACTIVATED FALL 2025) 1 credit(s)

CJ 1926 - Firearms (INACTIVATED FALL 2025) 1 credit(s)

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Undergraduate Academic or Technical Certificates)

Philosophy, Politics and Economics - Certificate

Program Overview

College
College of Arts & Sciences

Department
School of Social Sciences

Program Level
Undergraduate

About this Degree

A Certificate in Philosophy, Politics, and Economics (PPE) will introduce students to the principal texts that have defined these disciplines.

Program Requirements

Total Credits Required In Program Coursework
18

Total Credits Required To Earn This Credential
18

Simple Requisites

Program Requirements

- 18 Credits
- Minimum GPA for Admission: 2.5
- Cumulative Minimum GPA in Certificate Coursework for Graduation: 2.5
- Cumulative Number of Required Credits: 18
- Courses may not be taken on a pass/fail basis except for those courses which are only taught pass/fail.
- Students will be required to take two classes from each discipline for a total of 18 credits

Philosophy, Politics and Economics Certificate - Certificate

Type
Completion Requirement

Economics Requirements (6 credits)

Earn at least 6 credits from the following:

- ECON2020 - Introduction to Macroeconomics (BAI) - 3cr.
- ECON2010 - Introduction to Microeconomics (BSS) - 3cr.
- ECON3050 - Foundations of Business: Capitalism, Markets, and Innovation - 3cr.
- ECON3520 - History of Economic Thought - 3cr.
- ECON3550 - Law and Economics - 3cr.
- ECON4510 - Political Economy - 3cr.

Philosophy Requirement (6 credits)

Earn at least 6 credits from the following:

- PHIL1000 - Introduction to Philosophy (BHU) - 3cr.
- PHIL1320 - The Good Life (BHU) - 3cr.
- PHIL2400 - Ethics (BHU) - 3cr.
- PHIL3010 - Survey of Ancient and Medieval Philosophy (CI) - 3cr.
- PHIL3020 - Survey of Modern Philosophy (CI) - 3cr.
- PHIL3580 - Ethics and Economic Life (DHA) - 3cr.
- PHIL3700 - Political Philosophy (DHA) - 3cr.
- PHIL3800 - Philosophy in Literature (DHA) - 3cr.
- PHIL4250 - Tolkien and Lewis on Myth and Truth - 3cr.
- PHIL4600 - Philosophy of Law - 3cr.

Political Science Requirement (6 credits)

Earn at least 6 credits from the following:

- POLS2300 - Introduction to Political Theory (BHU) - 3cr.
- POLS3310 - American Political Thought (DSS) - 3cr.
- POLS3320 - The Foundations of American Constitutionalism - 3cr.
- POLS4310 - History of Political Thought I (CI) - 3cr.
- POLS4320 - History of Political Thought II (DSS) - 3cr.
- POLS4360 - Critical Topics in Political Theory (DHA) - 3cr.
- POLS4370 - Modern Political Thought (DHA) - 3cr.
- POLS5130 - Law and Policy - 3cr.
- POLS5140 - Law, Politics, and War - 3cr.

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Undergraduate Academic or Technical Certificates)

Program Learning Outcomes

Program Learning Outcomes

https://chass.usu.edu/assessments/

Precision Agriculture Technology - Post-Bachelor's Certificate

Program Overview

College
College of Agriculture & Natural Resources

Department
Plants, Soils and Climate, Applied Economics, Applied Sciences, Technology and Education, Civil & Environmental Engineering

Program Level
Graduate

About this Degree

The Graduate Certificate in Precision Agriculture Technology is designed to prepare both fully matriculated graduate students as well as current professionals in the field wishing to enhance their portfolios to understand and implement precision agriculture technology. Precision agriculture is a multi-faceted science that involves several different disciplines – including plant, soil, and climate sciences, several facets of engineering (electrical, agriculture, biological, irrigation, etc.), agricultural technologies and systems, applied economics, statistics, mathematics, and geographic information systems. This science has developed rapidly over the past few decades and focuses on more precise management of agricultural systems using site-specific science, engineering, and technologies. This certificate incorporates these disciplines with courses from four departments (PSC, CEE, APEC, and ASTE). This certificate may be earned as a stand-alone certification or as part of a participating department's graduate program.

Certificate

Students who complete the program will receive a graduate-level certificate in Precision Agriculture Technology. Their USU transcript will list the courses and grades received to complete the certificate.

Admission Requirements for this Program

There are no specific admission requirements. Any enrolled student who completes the requirements will be awarded the certificate. Please reach out to the program coordinators if you have questions about eligibility or requirements.

Program Requirements

Total Credits Required In Program Coursework
12

Total Credits Required To Earn This Credential
12

Simple Requisites

Program Requirements

The Precision Agriculture Technology Certificate consists of a minimum of12 credit hours. The certificate is designed to provide students with broad experience in key components of precision agriculture technology, science, engineering, and data analysis. Students may tailor their 12 credit hours depending on their goals, prior experience, and course work in precision agriculture topics. Students must maintain a minimum 3.0 GPA for program courses. Course grades less than a B (B- and below) do not count toward the certificate.

Course Requirements

Type
Completion Requirement

Required Core in Remote Sensing (1-4 credits)

Select one course in Remote Sensing.

Complete at least 1 of the following courses:

- CEE6003 - Remote Sensing of Land Surfaces - 3cr.
- PSC6003 - Remote Sensing of Land Surfaces - 3cr.
- WATS6003 - Remote Sensing of Land Surfaces - 4cr.
- GEOG6815 - Insights from Above: Processing and Analyzing Drone Data - 1cr.
- NR6815 - Insights from Above: Processing and Analyzing Drone Data - 1cr.
- GEOG6835 - Geovisualization for Remote Sensing Applications - 1cr.
- NR6835 - Geovisualization for Remote Sensing Applications - 1cr.
- NR6940 - Principles of Remote Sensing of Natural Resources - 3cr.
- WATS6720 - Drone Data Analysis for Environmental Restoration - 2cr.
- WILD6750 - Applied Remote Sensing - 3cr.

Required Core in GIS (Geographic Information Systems) (1-3 credits)

Select one course in GIS.

Complete at least 1 of the following courses:

- CEE6190 - Geographic Information Systems for Civil Engineers - 3cr.
- GEOG6100 - GIS Fundamentals - 1cr.
- GEOG6500 - Advanced Geographic Information Sciences (GIS) - 3cr.
- GEOG6800 - GIS Advanced Individual Projects - 1cr.
- GEOG6805 - Introduction to Geospatial Artificial Intelligence: The Remote Sensing and GeoAI Frontier - 3cr.
- NR6805 - Introduction to Geospatial Artificial Intelligence: The Remote Sensing and GeoAI Frontier - 3cr.
- GEOG6825 - Geospatial Artificial Intelligence, Ethics, & Society - 1cr.
- NR6825 - Geospatial Artificial Intelligence, Ethics, & Society - 1cr.
- GEOG6855 - Advanced Geospatial Artificial Intelligence - 3cr.
- NR6855 - Advanced Geospatial Artificial Intelligence - 3cr.
- GEOG6300 - Geospatial Analysis with R - 3cr.
- NR6910 - Geographic Information Systems for Natural Resource Applications - 3cr.
- NR6950 - Geospatial Analysis for Natural Resource Management - 3cr.
- NR6960 - Python Programming for GIS - 3cr.

Required Core in Plant/Soil/Applied Economics/Unoccupied Aircraft Systems (6-14 credits)

Additional three courses will be required in plant/soil/water/economics/unoccupied aircraft systems.

Complete at least 3 of the following courses:

- APEC5015 - Applied Economics for Decision Making (QI) - 3cr.
- APEC5950 - Applied Economics Policy Analysis - 3cr.
- APEC6040 - Production Economics, Applied Risk Analysis and Simulation - 3cr.
- ASTE5260 - Environmental Impacts of Agricultural Systems (CI) - 3cr.
- ASTE6260 - Environmental Impacts of Agricultural Systems - 3cr.
- CEE6001 - Design and Evaluation of Pressurized Irrigation Systems - 3cr.
- CEE6006 - Agricultural Water Management - 3cr.
- CEE6007 - Field Evaluation of Agricultural Irrigation Systems - 2cr.
- CEE6570 - Computer Vision Applications for Natural and Built Environments - 3cr.
- PSC6000 - Environmental Instrumentation - 2cr.
- PSC6150 - Bioinformatics and Big Data Mining - 3cr.
- PSC6900 - Special Problems in Plants, Soils, and/or Climate - 1cr.
- ***Choose from the following list of special problem (PSC6900 SPECIAL PROBLEMS) topics:***
    1. ***Temperate Zone Fruit Production***
    2. ***Modern Vegetable Production***
    3. ***Irrigated Soils***

Practicum (1 credit)

Precision Agriculture Practicum is required (1 credit). Meet with your advisor for details.

Earn at least 1 credits from the following:

- APEC6910 - Independent Research - 1cr.
- ASTE6450 - Graduate Topics in Agricultural Education - 3cr.
- CEE6930 - Special Problems - 1cr.
- PSC6900 - Special Problems in Plants, Soils, and/or Climate - 1cr.

Additional Comments:

Advisor(s):

PSC – Dr. Jeanette Norton (Graduate Coordinator), Paul Johnson (Department Head)

ASTE – Michael Pate (Graduate Coordinator), Becki Lawyer (Department Head)

APEC – Man-Keun Kim (Graduate Coordinator), Ryan Bosworth (Department Head)

CEE – Marlo Bailey (Graduate Coordinator), Marv Halling (Department Head)

Faculty:

Dr. Aaron Etienne – https://caas.usu.edu/directory/etienne-aaron

Dr. Matt Yost – https://caas.usu.edu/directory/yost-matt

Dr. Michael Pate - https://caas.usu.edu/directory/pate-michael

Dr. Sierra Young – https://uwrl.usu.edu/people/faculty/young-sierra

Dr. Alfonso Torres – https://engineering.usu.edu/cee/people/faculty/torres-alfonso

Dr. Burdette Barker – https://extension.usu.edu/directory/barker-burdette

Dr. Brent Black – https://caas.usu.edu/directory/black-brent

Dr. Ryan Larsen – https://caas.usu.edu/directory/larsen-ryan

Program Learning Outcomes

Program Learning Outcomes

https://caas.usu.edu/apec/assessment

https://caas.usu.edu/aste/assessment/

https://engineering.usu.edu/

https://caas.usu.edu/psc/assessment

Professional Bookkeeping - Technical Certificate

Program Overview

College
College of Agriculture & Natural Resources

Department
Technology, Design & Technical Ed

Program Level
Undergraduate

About this Degree

What if students could develop the essential skills to manage financial records with accuracy and confidence so that businesses can make informed financial decisions?

For example, students will learn to track income and expenses, reconcile accounts, and use industry-standard bookkeeping software to maintain accurate financial records.

This program also provides a strong foundation in financial principles, preparing students for a variety of bookkeeping roles in businesses of all sizes.

Program Requirements

Total Credits Required In Program Coursework
18

Total Credits Required To Earn This Credential
18

Simple Requisites

Program Requirements

Professional Bookkeeping Course Requirements

Type
Completion Requirement

Technical Education Required Courses (18 credits)

Complete ALL of the following Courses:

- TEBP1000 - Basic Financial Principles - 3cr.
- TEBP1100 - Digital Literacy - 2cr.
- TEBP1140 - Spreadsheets - 2cr.
- TEBP1300 - Accounting I - 2cr.
- TEBP1350 - Computerized Accounting - 3cr.
- TEBP1500 - Business English - 1cr.
- TEBP1550 - Business Communications - 3cr.
- TEBP2300 - Accounting II - 2cr.

Program Learning Outcomes

Program Learning Outcomes

- Prepare students to take and succeed on the national certification exams administered by the American Institute of Professional Bookkeepers (AIPB).
- Equip students with the knowledge and skills required to meet national bookkeeping standards and gain recognition as qualified bookkeeping and accounting professionals.
- Train students to support small businesses with essential functions such as business accounting, tax filing, general financial management, and budget tracking.
- Provide students with an accelerated pathway into the job market through a short-term, stackable credential.
- Enable graduates to build on this certificate for access to advanced career opportunities and higher earning potential.

Psychology Teaching - Minor

Program Overview

College
College of Education & Human Services

Department
Psychology

Program Level
Undergraduate

Program Requirements

Total Credits Required In Program Coursework
23

Total Credits Required To Earn This Credential
23

Simple Requisites

Program Requirements

At least 12 credits of the 19 required credits must be completed at USU. Required GPA for psychology courses is 3.0. Students must receive a grade of C or better in all psychology courses (USU and transfer) in order to have them counted toward minor requirements. Finally, students must fulfill the 35-credit requirement for the Secondary Teacher Education Program (STEP) in the Secondary Education Program of the School of Teacher Education and Leadership.

All psychology courses require a grade of C or better.

Psychology Teaching - Minor

Type
Completion Requirement

Required Courses (16 credits)

Fulfill ALL of the following requirements:

Required Courses

Complete the following courses and choose one course from each focus area below:

Complete ALL of the following Courses:
- PSY1010 - General Psychology (BSS) - 3cr.
- PSY1400 - Analysis of Behavior: Basic Principles - 3cr.
- PSY1410 - Analysis of Behavior: Basic Principles Lab - 1cr.

AND

Research Focus Area

Complete ALL of the following Courses:
- PSY3500 - Research Methods in Psychology (DSS/CI) - 3cr.

AND

Developmental Focus Area

Complete at least 1 of the following courses:
- PSY1100 - Lifespan Development - 3cr.
- PSY2100 - Developmental Psychology: Adolescence - 3cr.

AND

Sport/Positive/Health Psychology Focus Area

Complete at least 1 of the following courses:
- PSY3110 - Health Psychology - 3cr.
- PSY4000 - Mental Aspects of Sports Performance - 3cr.
  OR KIN4000 - Mental Aspects of Sports Performance - 3cr.

Minor Elective Requirement (3 credits)

Complete at least 1 of the following courses:
- PSY2300 - Psychological Disorders - 3cr.
- PSY3510 - Social Psychology (DSS) - 3cr.

Secondary Teacher Educational Program Levels

Fulfill ANY of the following requirements:

Psychology Teaching Minor Methods and Clinicals at Level 1 (4 credits)

Complete ALL of the following Courses:
- SCED3300 - Clinical Experience I - 1cr.
- SCED3500 - Teaching Social Studies - 3cr.

OR

Psychology Teaching Minor Methods and Clinicals at Level 2 (4 credits)

Complete ALL of the following Courses:
- SCED3500 - Teaching Social Studies - 3cr.
- SCED4300 - Clinical Experience II - 1cr.

Additional Comments:

Licensure Notification

- To obtain licensure in another state, students will probably need to complete an "Institutional Recommendation" form. These forms can be sent to the Educator Licensing Office, 2800 Old Main Hill, Logan UT 84322-2800 or to lisa.christensen@usu.edu. The office will return them to students as quickly as possible. These forms cannot be filled out by the Educator Licensing Office until students have completed the program and all necessary documentation is on their transcript.
- For more information concerning licensure in other states, see the Education Licensure Compliance Table.

Program Learning Outcomes

Program Learning Outcomes
https://cehs.usu.edu/psychology/assessment/index

Psychology - Minor

Program Overview

College
College of Education & Human Services

Department
Psychology

Program Level
Undergraduate

About this Degree

Psychology is the scientific study of the mind and behavior. As such the Psychology minor is an excellent companion to any major. The 15-credit psychology minor provides students with an excellent base of knowledge and skills in behavioral science.

Program Requirements

Total Credits Required To Earn This Credential

15

Simple Requisites

Program Requirements

- Students are required to have a 3.0 (B) or better composite GPA on all minor coursework with a minimum grade of C in each course accepted for the minor.
- Courses may *not* be taken on a pass/fail basis.
- At least 9 of the 15 credits required for the minor must be completed through USU.

Section 1

Type
Completion Requirement

Required Courses (3 credits)

Complete ALL of the following Courses:

- PSY1010 - General Psychology (BSS) - 3cr.

Section 2

Type
Completion Requirement

Electives (12 credits)

Earn at least 12 credits from the following:

- PSY1100 - Lifespan Development - 3cr.
  OR HDFS1500 - Human Development Across the Lifespan (BSS) - 3cr.
- PSY1400 - Analysis of Behavior: Basic Principles - 3cr.
- PSY1410 - Analysis of Behavior: Basic Principles Lab - 1cr.
- PSY2100 - Developmental Psychology: Adolescence - 3cr.
- PSY2300 - Psychological Disorders - 3cr.
- PSY2400 - Happiness: An Evolutionary, Experimental, Experiential Course - 3cr.
- PSY3000 - Special Topics - 3cr.
- PSY3010 - Psychological Statistics (QI) - 3cr.
- PSY3110 - Health Psychology - 3cr.
- PSY3120 - Abuse, Neglect, and the Psychological Dimensions of Intimate Violence (DSS) - 3cr.
- PSY3400 - Analysis of Behavior: Advanced (DSS) - 4cr.
- PSY3460 - Neuroscience I - 3cr.
- PSY3500 - Research Methods in Psychology (DSS/CI) - 3cr.
- PSY3510 - Social Psychology (DSS) - 3cr.
- PSY3700 - Mental Health Advocacy and Awareness - 3cr.
  OR HDFS3700 - Mental Health Advocacy and Awareness - 3cr.
- PSY4210 - Personality Theory (DSS) - 3cr.
- PSY4230 - Psychology of Gender (DSS) - 3cr.
- PSY4240 - Multicultural Psychology (DSS) - 3cr.
- PSY4420 - Cognitive Psychology (DSS) - 4cr.
- PSY4000 - Mental Aspects of Sports Performance - 3cr.
  OR KIN4000 - Mental Aspects of Sports Performance - 3cr.

Program Learning Outcomes

Program Learning Outcomes

https://cehs.usu.edu/psychology/assessment/index

Psychology - BA, BS

Program Overview

College
College of Education & Human Services

Department
Psychology

Program Level
Undergraduate

About this Degree

Psychology is the science of behavior and mental processes. The department is internationally known for its innovative research, teaching, and scholarship programs. Graduates are prepared for professions in mental health, research, education, and human service settings. Given that most career paths in psychology require graduate training, Utah State's psychology program is directed toward helping majors meet the prerequisites of competitive graduate programs and preparing them for research and graduate work in psychology.

The modern and forward-thinking curriculum includes a series of courses designed to help students think, plan, and practice for future careers both within and outside of the classroom setting. To further enrich their educational experience, students are encouraged to join Psi Chi, the international honor society in psychology, participate in the University Honors Program, and the Psychology Leadership Advisory Board. These platforms allow students to deepen their learning, foster leadership skills, and connect with peers and faculty who share their passion for psychology.

Students earn a BS in psychology by completing: 1) all required courses in the major and 2) Psychology Department exit interview. To receive a BA, students must also gain proficiency in one or more foreign languages. See the Undergraduate Academic Credential Requirements for language requirements. The courses within the major are designed and selected to align with the American Psychological Association's Guidelines for the bachelor's degree. Course substitutions are a rare but viable option for students who have completed or plan to undertake a course with similar objectives. Approval for such substitutions requires a consultation with an academic advisor in the psychology department and is contingent upon a compelling justification based on the guidelines' objectives.

- For more information about Psychology, see the department website.
- Admitted and current students must meet with an advisor.
- Log on to Degree Worksto check student-specific program progress.

Program Requirements

Total Credits Required In Program Coursework
41

Total Credits Required To Earn This Credential
120

Simple Requisites

Program Requirements

- New freshmen must be admitted to USU in Good Standing.
- Transfer students from other institutions or other programs at USU must be admitted to USU in Good Standing.
- A grade of C or better is required for all major courses.
- A 3.0 major course GPA required at graduation
- Psychology Department exit interview required for graduation

Math Requirements

Type
Completion Requirement

Highest Math Requirement

Complete at least 1 of the following courses:

- STAT1040 - Introduction to Statistics (QL) - 3cr.
- STAT1045 - Introduction to Statistics with Elements with Algebra (QL) - 5cr.
- STAT1080 - Foundations of Data Science (QL) - 3cr.

Psychology - BA, BS

Type
Completion Requirement

Required Courses (20 credits)

Complete ALL of the following Courses:

- PSY1010 - General Psychology (BSS) - 3cr.
- PSY1400 - Analysis of Behavior: Basic Principles - 3cr.
- PSY1410 - Analysis of Behavior: Basic Principles Lab - 1cr.
- PSY2010 - Orientation to Psychology as a Career and Profession - 2cr.
- PSY2710 - Brain and Behavior - 3cr.
- PSY3010 - Psychological Statistics (QI) - 3cr.
- PSY3020 - Career Organization for the Psychology Major - 1cr.
- PSY3500 - Research Methods in Psychology (DSS/CI) - 3cr.
- PSY4020 - Career Preparation for the Psychology Major - 1cr.

Undergraduate Research Core (4 credits)

Choose one of the following courses to fulfill the undergraduate research requirement. The other course may be used as a major elective.

Complete at least 1 of the following courses:

- PSY3400 - Analysis of Behavior: Advanced (DSS) - 4cr.
- PSY4420 - Cognitive Psychology (DSS) - 4cr.

Human Psychology in Context Core (3 credits)

Choose one of the following courses to fulfill the Human Psychology in Context requirement. The other course may be used as a major elective.

Complete at least 1 of the following courses:

- PSY4230 - Psychology of Gender (DSS) - 3cr.
- PSY4240 - Multicultural Psychology (DSS) - 3cr.

Major Electives (12 credits)

Students must complete 12 credits of major electives. Courses from the Undergraduate Research Core and the Diversity and Inclusivity Core may count in the major elective area if the additional courses have not been used for the core requirements.

Earn at least 12 credits from the following:

- PSY1100 - Lifespan Development - 3cr.
- PSY2100 - Developmental Psychology: Adolescence - 3cr.
- PSY2300 - Psychological Disorders - 3cr.
- PSY2400 - Happiness: An Evolutionary, Experimental, Experiential Course - 3cr.
- PSY3110 - Health Psychology - 3cr.
- PSY3120 - Abuse, Neglect, and the Psychological Dimensions of Intimate Violence (DSS) - 3cr.
- PSY3460 - Neuroscience I - 3cr.
- PSY3510 - Social Psychology (DSS) - 3cr.
- PSY3700 - Mental Health Advocacy and Awareness - 3cr. **OR** HDFS3700 - Mental Health Advocacy and Awareness - 3cr.

- PSY4000 - Mental Aspects of Sports Performance - 3cr.
  OR KIN4000 - Mental Aspects of Sports Performance - 3cr.
- PSY4210 - Personality Theory (DSS) - 3cr.

Capstone Experience (3 credits)

Choose one of the following courses to fulfill the capstone requirements:

Complete at least 1 of the following courses:

- PSY4950 - Undergraduate Apprenticeship (CI) - 3cr.
- PSY4960 - Capstone Seminar in Psychology (CI) - 3cr.

Minor or Certificate Requirement

Complete the following:
Students are required to complete a minor or certificate housed in another department. The minimum GPA and grade for minor courses will be determined by the minor the student selects and are not determined by the psychology major GPA and minimum grade requirements.

Experiential Courses (Suggested Electives)

The following courses will count toward general elective credit but will not count toward major electives or other major requirements. These courses are designed to allow credit for research, teaching, or related employment experience outside of the classroom.

Complete ANY of the following Courses:

- PSY2250 - Introductory Cooperative Work Experience - 1cr.
- PSY4250 - Advanced Cooperative Work Experience - 1cr.
- PSY4920 - Practicum - 1cr.
- PSY4940 - Indigenous Community Engaged Learning - 3cr.
- PSY5900 - Independent Study - 1cr.
- PSY5910 - Independent Research - 1cr.
- PSY5930 - Instructional Apprenticeship in Psychology - 1cr.

Open Electives

Complete the following as needed:
Total elective credit is determined by General Education courses taken, degree type selected, additional credits earned, and any additional math or other prerequisite courses needed. Please consult your Academic Advisor for details.

Psychology Department Exit Interview

Complete the following:
Must complete Psychology Department exit interview. Contact Psychology advisor for details.

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Bachelor's Degree)

Suggested Degree Maps

Degree Map Name
Suggested Degree Map - Psychology BA, BS
Total Degree Map Credits
121 - 124
Degree Map Effective Catalog Year
2027 -

Degree Map Narrative

- Following is a sample four-year plan. Please note that student-specific plans may differ.
- Meet with an academic advisor to create a specific plan that best fits your academic needs.
- The student is ultimately responsible for knowing and completing all degree requirements.
- Make sure you meet the registration requirements for each class by clicking the course link and checking any prerequisites or corequisites.
- Consultation with an advisor may result in an altered plan customized for an individual student.
- Check your Degree Works for requirements and completion.

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	15 - 18	0

Requirement Select

- Communications Literacy (CL1) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Breadth American Institutions (BAI) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- PSY1010 - General Psychology (BSS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- STAT1040 - Introduction to Statistics (QL)
  OR
- STAT1045 - Introduction to Statistics with Elements with Algebra (QL)
  OR
- STAT1080 - Foundations of Data Science (QL)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 5
Progress Credits	-
Contact Hours	3 - 5
Clinical	-
Criticality	No

Requirement Select

- USU1010 - University Connections

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select

- Elective 1XXX (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	15	0

Requirement Select

- PSY1400 - Analysis of Behavior: Basic Principles

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- PSY1410 - Analysis of Behavior: Basic Principles Lab

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- PSY2010 - Orientation to Psychology as a Career and Profession

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select

- Breadth Creative Arts (BCA) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Minor Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	15	0

Requirement Select
- Communications Literacy (CL2) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- PSY3010 - Psychological Statistics (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- PSY2710 - Brain and Behavior

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Breadth Humanities (BHU) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective 2XXX (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	15	0

Requirement Select
- PSY3500 - Research Methods in Psychology (DSS/CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Psychology Major Elective (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Psychology Major Elective (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Breadth Life Sciences (BLS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Breadth Physical Sciences (BPS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Fall	16	0

Requirement Select
- PSY3400 - Analysis of Behavior: Advanced (DSS)
  OR
- PSY4420 - Cognitive Psychology (DSS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- PSY4230 - Psychology of Gender (DSS)
  OR
- PSY4240 - Multicultural Psychology (DSS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Depth Life and Physical Sciences (DSC) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Minor Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective 3XXX Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Spring	15	0

Requirement Select
- Psychology Major Elective (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Psychology Major Elective (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Depth Humanities and Creative Arts (DHA) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Minor Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective 3XXX (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Fall	15	0

Requirement Select
- PSY4960 - Capstone Seminar in Psychology (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Minor Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Minor Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective 3XXX (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective 3XXX (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Spring	15	0

Requirement Select
- Elec 3XXX or 2nd Minor/Major (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elec 3XXX or 2nd Minor/Major (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elec 3XXX or 2nd Minor/Major (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elec 3XXX or 2nd Minor/Major (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elec 3XXX or 2nd Minor/Major (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	Total Major Credits
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Program Learning Outcomes

Program Learning Outcomes

https://cehs.usu.edu/psychology/assessment/index

Psychology - EdS

Program Overview

College
College of Education & Human Services

Department
Psychology

Program Level
Graduate

About this Degree

The School Psychology Ed.S. program trains practitioners with expertise in promoting the academic, social, emotional, behavioral, and mental health of youth in school settings. Training involves assessment and intervention across multiple levels, including direct services with youth, consultation-based services with parents and teachers, and systems-level services with educational administrators and multidisciplinary teams. The program is approved by the National Association of School Psychologists and the Utah State Board of Education for licensure of school psychologists. Students will earn their M.Ed. in route to their Ed.S. degree. Program graduates will be prepared to practice in K–12 education settings as school psychologists.

For more specific information about the program, see the department's website at https://cehs.usu.edu/psychology/eds/school-psychology-eds.

Disclosure of Educational Requirements for Licensure by state:

https://www.usu.edu/online/state-authorization/

Admission Requirements for this Program

Admissions requirements vary somewhat across Psychology graduate programs. Therefore, applicants should review program web pages for more details. However, applications submitted to the School of Graduate Studies must include the following:

- Transcripts from all previous universities attended.
- Three letters of recommendation
- A statement of professional goals and intent
- A curriculum vitae/resume

Program Requirements

Total Credits Required In Program Coursework
30

Total Credits Required To Earn This Credential
30

Simple Requisites

Program Requirements

School of Graduate Studies Requirements:

- Degree Verification: A bachelor's degree from an accredited U.S. college or university or a similarly recognized international university is required for admission to and completion of a graduate program. An official transcript must be sent directly to the School of Graduate Studies.
- Graduate students are required to maintain at least a 3.0 GPA for degree-program courses. Students are expected to earn a minimum grade of B- in all coursework. Students receiving a grade lower than B- are expected to repeat the course or demonstrate their mastery in that area in a manner approved by the faculty.
- Course Number Acceptability: The program of study for a master's degree cannot include more than 12 semester credits of courses at the 5000 level. Credits in the following areas are not acceptable in a degree program: foreign languages (unless included in an approved Program of Study), continuing graduate advisement, individual home study, military science, and courses numbered below 5000.
- Matriculation Start Semester: A master's degree must be completed within six years of entering the degree program. Additional time may be requested by the student's advisor and submitted to the Vice Provost of Graduate Studies for review.
- Coursework Validity: Coursework over eight years old at the time of degree completion may not be used for a graduate degree unless it is revalidated by the Vice Provost of Graduate Studies.
- Education Specialist's forms: Approval of the Program of Study is required by the School of Graduate Studies

Psychology - EdS

Type
Completion Requirement

M.Ed. Coursework

Complete ALL of the following Courses:

- EDUC6040 - Applied Research Methods - 3cr.
- EDUC6050 - Applied Statistical Analysis - 3cr.
- PSY6010 - Introduction to Program Evaluation: Evaluation Models and Practical Guidelines - 3cr.
- PSY6160 - Evidence-Based Psychotherapy Across Ages - 3cr.
- PSY6310 - Intellectual Assessment - 3cr.
- PSY6380 - Practicum in School Psychology - 3cr.
- PSY6410 - Psychoeducational Assessment - 3cr.
- PSY6440 - Legal and Ethical Issues in the Schools - 3cr.
- PSY6450 - Introduction to School Psychology - 3cr.
- PSY6540 - School Mental Health I: Assessment - 3cr.
- PSY7540 - Advanced Cognition and Development - 3cr.

NOTE:

1. PSY6380 PRACT SCHOOL PSY - Year 1: Fall & Spring for 3 credits each semester. (Total 6 credits per year.)

Ed.S. Coursework

Complete ALL of the following Courses:

- PSY6290 - Diversity Issues in Treatment and Assessment - 1cr.
- PSY6291 - Diversity Issues in Treatment and Assessment: Self-Awareness - 1cr.
- PSY6292 - Diversity Issues in Treatment and Assessment: Skills - 1cr.
- PSY6380 - Practicum in School Psychology - 3cr.
- PSY6630 - Supervision and Consultation in Psychological and Educational Settings - 3cr.
- PSY6910 - Independent Research - 1cr.
- PSY6950 - Internship in School Psychology - 1cr.
- PSY7200 - School Mental Health II: Intervention - 3cr.
- PSY7270 - Lifespan Psychopathology - 3cr.

NOTE:

1. PSY6290 DIVERSITY TREAT/ASSMNT - 1 credit.
2. PSY6380 PRACT SCHOOL PSY - Year 2: Fall & Spring for 3 credits each semester. (Total 6 credits per year.)
3. PSY6910 INDEPENDENT RESEARCH - Year 2: Fall & Spring for 3 credits each semester. (Total 6 credits per year.)
4. PSY6950 INTERN SCHOOL PSY - Year 3: Fall & Spring for 3 credits each semester. (Total 6 credits per year.)

Program Learning Outcomes

Program Learning Outcomes

https://cehs.usu.edu/psychology/assessment/index

Psychology - MEd

Program Overview

College
College of Education & Human Services

Department
Psychology

Program Level
Graduate

About this Degree

The Master of Education in Psychology is not an independent terminal degree and does not accept applications. This degree is designed as a supplementary credential for students pursuing a doctoral degree in Psychology with a specialization in School Psychology or for those enrolled in the Educational Specialist (Ed.S.) degree program in Psychology.

Program Requirements

Total Credits Required In Program Coursework
36

Total Credits Required To Earn This Credential
36

Simple Requisites

Program Requirements

School of Graduate Studies Requirements:

• Degree Verification: A bachelor's degree from an accredited U.S. college or university or a similarly recognized international university is required for admission to and completion of a graduate program. An official transcript must be sent directly to the School of Graduate Studies.
• Overall Graduate GPA at least 3.0 and no grades of C- or lower: Graduate students are required to maintain at least a 3.0 GPA for degree-program courses. Grades of C- or lower will not be accepted for a graduate degree.
• Course Number Acceptability: The program of study for a master's degree cannot include more than 12 semester credits of courses at the 5000 level. Credits in the following areas are not acceptable in a degree program: foreign languages (unless included in an approved Program of Study), continuing graduate advisement, individual home study, military science, and courses numbered below 5000.
• Matriculation Start Semester: A master's degree must be completed within six years of entering the degree program. Additional time may be requested by the student's advisor and submitted to the Vice Provost of Graduate Studies for review.
• Coursework Validity: Coursework over eight years old at the time of degree completion may not be used for a graduate degree unless it is revalidated by the Vice Provost of Graduate Studies.
• Master's forms: Approval of the Program of Study is required by the School of Graduate Studies.

Psychology - MEd

Type
Completion Requirement

Research Requirements (9 credits)

Earn at least 9 credits from the following:

- EDUC6040 - Applied Research Methods - 3cr.
  OR PSY6560 - Introduction to Educational and Psychological Research - 3cr.
- EDUC6050 - Applied Statistical Analysis - 3cr.
  OR PSY6600 - Statistical Foundations - 3cr.
- PSY6010 - Introduction to Program Evaluation: Evaluation Models and Practical Guidelines - 3cr.
  OR PSY7610 - Regression Analysis - 3cr.

Core Courses (27 credits)

Complete ALL of the following Courses:

- PSY6160 - Evidence-Based Psychotherapy Across Ages - 3cr.
- PSY6380 - Practicum in School Psychology - 3cr.
- PSY6310 - Intellectual Assessment - 3cr.
- PSY6410 - Psychoeducational Assessment - 3cr.
- PSY6440 - Legal and Ethical Issues in the Schools - 3cr.
- PSY6450 - Introduction to School Psychology - 3cr.
- PSY6540 - School Mental Health I: Assessment - 3cr.
- PSY7540 - Advanced Cognition and Development - 3cr.

NOTE:

1. PSY6380 PRACT SCHOOL PSY - Fall & Spring for 3 credits each semester. (Total 6 credits per year.)

Program Learning Outcomes

Program Learning Outcomes

https://www.usu.edu/oda/assessment/

Psychology - MS

Program Overview

College
College of Education & Human Services

Department
Psychology

Program Level
Graduate

About this Degree

The Master of Science in Psychology is not an independent terminal degree and does not accept applications. This degree is designed as a supplementary credential for students pursuing a doctoral degree in Psychology.

Program Requirements

Total Credits Required In Program Coursework
30-36

Total Credits Required To Earn This Credential
30-36

Simple Requisites

Program Requirements

School of Graduate Studies Requirements:

• Degree Verification: A bachelor's degree from an accredited U.S. college or university or a similarly recognized international university is required for admission to and completion of a graduate program. An official transcript must be sent directly to the School of Graduate Studies.
• Overall Graduate GPA at least 3.0 and no grades of C- or lower: Graduate students are required to maintain at least a 3.0 GPA for degree-program courses. Grades of C- or lower will not be accepted for a graduate degree.
• Course Number Acceptability: The program of study for a master's degree cannot include more than 12 semester credits of courses at the 5000 level. Credits in the following areas are not acceptable in a degree program: foreign languages (unless included in an approved Program of Study), continuing graduate advisement, individual home study, military science, and courses numbered below 5000.
• Matriculation Start Semester: A master's degree must be completed within six years of entering the degree program. Additional time may be requested by the student's advisor and submitted to the Vice Provost of Graduate Studies for review.
• Coursework Validity: Coursework over eight years old at the time of degree completion may not be used for a graduate degree unless it is revalidated by the Vice Provost of Graduate Studies.
• Master's forms: Approval of the Program of Study.

Program Requirements

- All courses require a grade of B- or higher. Grades below a B- will not be accepted. Students who receive below a B- in a course must retake the course. Students must maintain a 3.0 GPA for degree-program courses.
- Approval of academic forms required for master's students by the School of Graduate Studies

Psychology - MS

Type
Completion Requirement

Psychology - PhD

Program Overview

College
College of Education & Human Services

Department
Psychology

Program Level
Graduate

About this Degree

Behavior Analysis

The graduate program in Psychology offers students the opportunity to obtain specialty training in behavior analysis. The Behavior Analysis specialization in the Psychology Ph.D. program provides training for students interested in experimental behavior analysis and translational research. Students receive extensive classroom and hands-on training in laboratory, applied research, and translating contemporary behavioral theories into innovative behavior-analytic practice.

For more specific information, see the department's website at https://cehs.usu.edu/psychology/doctoral/behavior-analysis.

Brain and Cognition

The Brain and Cognition area of specialization in the Psychology Ph.D. program offers students the opportunity to obtain specialty training in areas related to cognition and neuroscience. The Brain and Cognition specialization provides extensive training for behavioral, cognitive, molecular, systems, or computational neuroscience students. Training opportunities for students include investigating basic behavioral, cognitive, and neurological processes; understanding the contribution of basic neurological processes to psychological disorders; neural correlates of behavioral phenomena; and related issues. Students interested in neuroscience may also want to consider the Neuroscience Ph.D. program.

For more specific information, see the department's website at https://cehs.usu.edu/psychology/doctoral/brain-and-cognition.

Combined Clinical/Counseling Psychology (APA-accredited)

This program integrates the theory and practice of psychology common to the disciplines traditionally denoted as clinical and counseling psychology. It subscribes to the scientist-practitioner model and seeks to balance research and clinical training. Students completing the program will enter professional practice in various settings, including university counseling centers, community mental health centers, hospitals, clinics, and academic settings. Independent research, in the form of a thesis and dissertation, is required of all students. The Combined Clinical/Counseling program provides generalized training but also provides specialized training opportunities aligned with student interests via elective coursework and practica. These experiences are intended to help students develop a specialty area aligned with their future career goals. The program is also affiliated with the American Indian Support Project, one of the nation's most successful programs for training and mentoring American Indian psychologists.

Complete information on accreditation and standards for accreditation are available through the Commission on Accreditation (CoA) at Education Directorate, American Psychological Association, 750 First Street NE, Washington DC 20002-4242, (202) 336-5979, or on the web at https://accreditation.apa.org/.

Undergraduate prerequisites: Applicants admitted to the Ph.D. program in Combined Clinical/Counseling who did not major in psychology or a related field may need to take some undergraduate psychology courses (e.g., basic statistics) as prerequisites for program requirements. Any prerequisite requirements will be determined in consultation with the student and program faculty.

For more specific information about the program, see the department's website at https://cehs.usu.edu/psychology/doctoral/combined-clinical-counseling.

School Psychology

The School Psychology Ph.D. program trains psychologists with expertise in promoting the academic, social, emotional, behavioral, and mental health of youth in schools and related settings. Training is grounded in the scientist-practitioner model and involves assessment and intervention across multiple levels, including direct services with youth, consultation-based services with parents and teachers, and systems-level services with educational administrators and multidisciplinary teams. The program emphasizes research that advances science-based practice and requires the completion of original research projects. Program graduates are prepared to work in various professional settings, including academia, educational/psychological research firms, school systems, and traditional clinical settings.

For more information, see the program's website at https://cehs.usu.edu/psychology/doctoral/school-psychology

Disclosure of Educational Requirements for Licensure by State

https://www.usu.edu/online/state-authorization/

Admission Requirements for this Program

Admission requirements vary somewhat across Psychology graduate programs. Therefore, applicants should review pthe rogram web pages for more details. However, applications submitted to the School of Graduate Studies must include the following:

- Transcripts from all previous universities attended.
- Three letters of recommendation
- A statement of professional goals and intent
- A curriculum vitae/resume

Applicants to the Doctor of Philosophy (Ph.D.) programs are advised that they should possess a broad base of knowledge at the undergraduate level in a substantive subgroup of the following: general psychology, human development, learning theory, cognition, personality theory research, psychometrics, elementary statistics, history and systems, physiological, sensation and perception, and social psychology.

Program Requirements

Total Credits Required In Program Coursework
70-95

Total Credits Required To Earn This Credential
70-95

Simple Requisites

Program Requirements

School of Graduate Studies Requirements

- A bachelor's degree from an accredited U.S. college or university or a similarly recognized international university is required for admission to and completion of a graduate program. An official transcript must be sent directly to the School of Graduate Studies.
- Graduate students are required to maintain at least a 3.0 GPA for degree-program courses. Students are expected to earn a minimum grade of B- in all coursework. Students receiving a grade lower than B- are expected to repeat the course or demonstrate their mastery in that area in a manner approved by the faculty.
- A doctorate must be completed within eight years of entering the degree program. Additional time may be requested by the student's committee and submitted to the Vice Provost of Graduate Studies for review.
- Course Number Acceptability: The program of study for a master's degree cannot include more than 12 semester credits of courses at the 5000 level. Credits in the following areas are not acceptable in a degree program: foreign languages (unless included in an approved Program of Study), continuing graduate advisement, individual home study, military science, and courses numbered below 5000.

- Matriculation Start Semester: A master's degree must be completed within six years of entering the degree program. Additional time may be requested by the student's advisor and submitted to the Vice Provost of Graduate Studies for review.
- Coursework Validity: Coursework over eight years old at the time of degree completion may not be used for a graduate degree unless it is revalidated.
- Master's forms: Approval of academic forms required for doctoral students by the School of Graduate Studies.

List of specific forms, depending on plan type:

- Supervisory Committee
    - Program of Study
    - Application for Candidacy
    - Appointment for Examination
    - Record of Examination
    - Dissertation Format and Style
    - Authorship and Copyright
    - Dissertation Title Page
    - SGS and library review and approval of Thesis/ Dissertation

Program Requirements:

All Psychology Ph.D. candidates must meet the following general core requirements, regardless of specialty emphasis:

- Submission of a manuscript for publication in a recognized journal, usually first-authored;
- Presentation of research findings at a regional or national convention or professional meeting, usually first-authored;
- Completion of comprehensive examination;
- Completion of the doctoral dissertation
- Completion of all the required coursework.

Students in the Combined PhD program must also complete a clinical comprehensive exam and compete nationally for admission to an APA-approved, 2,000-hour predoctoral internship. The Behavior and Analysis and Brain and Cognition programs have an additional requirement of a grant proposal.

Students entering with only a bachelor's degree will earn a Master of Science (M.S.) in addition to their doctoral degree. The requirements for the M.S. in Psychology are typically completed within the first four semesters of the program. Receipt of this master's degree is not intended to be a terminal degree and does not provide sufficient preparation for professional practice as a psychologist or school psychologist.

Behavior Analysis (70 credits)

Type
Completion Requirement

Required Courses

Must complete 30 credits to earn the MS degree, this includes 6 credits of PSY6970 THESIS.
Must complete 40 credits to earn the PhD degree, this includes 12 credits of PSY7970 DISSERTATION.

Students entering with an approved master's degree will complete 51 hours.

Complete ALL of the following Courses:

- PSY6560 - Introduction to Educational and Psychological Research - 3cr.
- PSY6600 - Statistical Foundations - 3cr.
- PSY6970 - Thesis - 1cr.
- PSY7250 - Professional Ethics and Standards - 1cr.
- PSY7610 - Regression Analysis - 3cr.
- PSY7900 - Independent Study - 1cr.
- PSY7910 - Independent Research - 1cr.
- PSY7970 - Dissertation - 1cr.

NOTE:

1. PSY6970 THESIS - Complete 6 credits.
2. PSY7250 PROFESSIONAL ETHICS/STANDARDS - Complete 2 credits.
3. PSY7900 INDEPENDENT STUDY and PSY7910 INDEPENDENT RESEARCH - Students can enroll in variable credits with no more than 3 credit hours in each within a single semester.
4. PSY7970 DISSERTATION - Complete 12 credits.

Required Courses for ABAI

Complete ALL of the following Courses:

- PSY6600 - Statistical Foundations - 3cr.
- SPED6700 - Introduction to Behavioral Research in Education - 3cr.
- SPED6710 - Concepts and Principles of Behavior Analysis in Education - 3cr.
- SPED6720 - Educational Applications of Behavior Analysis I - 3cr.
- SPED6730 - Educational Applications of Behavior Analysis II - 3cr.
- SPED6770 - Coaching and Systems Change - 3cr.
- SPED6780 - Ethics & Professional Behavior in Behavior Analysis - 3cr.
- SPED6790 - Special Topics - 1cr.

Brain and Cognition (70 Credits)

Type
Completion Requirement

Required Courses

Must complete 30 credits to earn the M.S. degree. This includes 6 credits of PSY6970 THESIS.
Must complete 40 credits to earn the Ph.D. This includes 12 credits of PSY7970 DISSERTATION.

Students entering with an approved master's degree will complete 51 hours.

Complete ALL of the following Courses:

- PSY6020 - Cellular and Molecular Neuroscience - 3cr. **OR** PSY7110 - Cognitive Neuroscience - 3cr.
- PSY6560 - Introduction to Educational and Psychological Research - 3cr.
- PSY6600 - Statistical Foundations - 3cr.
- PSY6970 - Thesis - 1cr.
- PSY7250 - Professional Ethics and Standards - 1cr.
- PSY7900 - Independent Study - 1cr.
- PSY7910 - Independent Research - 1cr.
- PSY7970 - Dissertation - 1cr.

NOTE:

1. PSY6970 THESIS - Complete 6 credits.
2. PSY7250 PROFESSIONAL ETHICS/STANDARDS - Complete 2 credits.
3. PSY7900 INDEPENDENT STUDY and PSY7910 INDEPENDENT RESEARCH - Students can enroll in variable credits with no more than 3 credit hours in each within a single semester.
4. PSY7970 DISSERTATION - Complete 12 credits.

Combined Clinical/Counseling (87-93 credits)

Type
Completion Requirement

M.S. Required Courses (31 credits)

Complete ALL of the following Courses:

- PSY6290 - Diversity Issues in Treatment and Assessment - 1cr.
- PSY6291 - Diversity Issues in Treatment and Assessment: Self-Awareness - 1cr.
- PSY6292 - Diversity Issues in Treatment and Assessment: Skills - 1cr.
- PSY6160 - Evidence-Based Psychotherapy Across Ages - 3cr.
- PSY6310 - Intellectual Assessment - 3cr.
- PSY6320 - Objective Assessment of Personality and Affect - 3cr.
- PSY6350 - Introduction to Theories of Intervention in Psychology - 3cr.
- PSY6560 - Introduction to Educational and Psychological Research - 3cr.
- PSY6600 - Statistical Foundations - 3cr.
- PSY6850 - Introduction to the Combined Doctoral Program - 1cr.
- PSY6970 - Thesis - 1cr.
- PSY7270 - Lifespan Psychopathology - 3cr.

NOTE:

PSY6290 DIVERSITY TREAT/ASSMNT - Complete 1 credit.

Ph.D. Required Courses (26 Credits)

Fulfill ALL of the following requirements:

Required Courses

Complete ALL of the following Courses:

- PSY6100 - History and Systems of Psychology - 3cr.
- PSY6510 - Social Psychology - 3cr.
- PSY7100 - Biological Basis of Behavior - 3cr.
- PSY7250 - Professional Ethics and Standards - 1cr.
- PSY7540 - Advanced Cognition and Development - 3cr.
- PSY7610 - Regression Analysis - 3cr.
- PSY7630 - Supervision and Consultation in Applied Psychology - 1cr.
- PSY7850 - Internship and Professional Development Seminar - 1cr.

AND

Advanced Integrative Courses

Complete at least 1 of the following courses:

- PSY6670 - Neuropharmacology - 2cr.
- PSY7550 - Multicultural Perspectives on Social Development - 3cr.
- PSY7830 - Mechanisms of Neuropsychiatric Disease - 3cr.
- PSY7810 - Seminar - 1cr.

NOTE:

PSY7810 SEMINAR - *Neurocognitive, Neuropsychiatric and Behavioral Aspects of Central Nervous System Disorders*

AND

Advanced Research Courses

Complete at least 1 of the following courses:

- PSY7070 - Advanced Measurement Theories and Practice - 3cr.
- PSY7650 - Multilevel and Marginal Models for the Social Sciences - 3cr.
- PSY7670 - Literature Reviews in Education and Psychology - 2cr.
- PSY7760 - Structural Equation Modeling - 3cr.
- PSY7770 - Longitudinal Data Analysis - 3cr.

AND

Elective Credit

Complete the following:

- Students must also complete 6 elective credits.

Intervention Practica Courses (14-18 credits required)

Fulfill ALL of the following requirements:

Year 2 Fall & Spring (6 total credits)

Complete ALL of the following Courses:

- PSY7350 - Integrated Practicum with Adults, Adolescents, and Children - 3cr.

AND

Year 3 Fall & Spring (6 total credits)

Complete ANY of the following Courses:

- PSY7360 - Practicum in Clinical Child/School Psychology - 3cr.
  OR PSY7370 - Practicum in Counseling/Clinical Psychology - 3cr.

AND

Year 4 and beyond Fall & Spring (2-6 total credits)

Complete ANY of the following Courses:

- PSY7380 - Practicum in Psychology - 1cr.
  OR PSY7390 - Externship in Adult Clinical/Counseling Psychology - 1cr.
  OR PSY7395 - Externship in Child/Adolescent Psychology - 1cr.

Dissertation and Internship (12 Credits)

Complete ALL of the following Courses:

- PSY7970 - Dissertation - 1cr.
- PSY7950 - Internship in Professional Psychology - cr.

NOTE:

1. PSY7970 DISSERTATION - Complete 12 credits.
2. PSY7950 INTERN PROFESSIONAL PSY - Students must register for 3 semesters of Internship in the last year of the program. (Fall, Spring, Summer).

School Psychology (93-95)

Type
Completion Requirement

Master's. Requirements (36 credits)

Complete ALL of the following Courses:

- PSY6160 - Evidence-Based Psychotherapy Across Ages - 3cr.
- PSY6310 - Intellectual Assessment - 3cr.
- PSY6380 - Practicum in School Psychology - 3cr.
- PSY6410 - Psychoeducational Assessment - 3cr.
- PSY6450 - Introduction to School Psychology - 3cr.
- PSY6440 - Legal and Ethical Issues in the Schools - 3cr.
- PSY6540 - School Mental Health I: Assessment - 3cr.
- PSY6560 - Introduction to Educational and Psychological Research - 3cr.
- PSY6600 - Statistical Foundations - 3cr.
- PSY7540 - Advanced Cognition and Development - 3cr.
- PSY7610 - Regression Analysis - 3cr.

Ph.D. Requirements (57-58 credits)

Fulfill ALL of the following requirements:

Required Courses

Complete ALL of the following Courses:

- PSY6100 - History and Systems of Psychology - 3cr.
- PSY6290 - Diversity Issues in Treatment and Assessment - 1cr.
- PSY6291 - Diversity Issues in Treatment and Assessment: Self-Awareness - 1cr.
- PSY6292 - Diversity Issues in Treatment and Assessment: Skills - 1cr.
- PSY6380 - Practicum in School Psychology - 3cr.
- PSY6510 - Social Psychology - 3cr.
- PSY6630 - Supervision and Consultation in Psychological and Educational Settings - 3cr.
- PSY6910 - Independent Research - 1cr.
- PSY7100 - Biological Basis of Behavior - 3cr.
- PSY7200 - School Mental Health II: Intervention - 3cr.
- PSY7270 - Lifespan Psychopathology - 3cr.
- PSY7395 - Externship in Child/Adolescent Psychology - 1cr.

NOTE:

1. PSY6290 DIVERSITY TREAT/ASSMNT - Complete 1 credit.
2. PSY6380 PRACT SCHOOL PSY - Complete 6 total credits. Year 2: Fall & Spring.
3. PSY6910 INDEPENDENT RESEARCH - Complete 1 credit each. Year 2: Fall & Spring.
4. PSY7395 EXTERNSHIP: CHILD/ADOL PSYCH - Complete 4-6 credits. Students on campus for 4 years will do 2 years of advanced practicum and should register for 4 credits, whereas students on campus for 5 years may do 3 years of advanced practicum and can therefore register for up to 6 credits.

AND

Dissertation and Internship (12 Credits)

Complete ALL of the following Courses:

- PSY7950 - Internship in Professional Psychology - cr.
- PSY7970 - Dissertation - 1cr.

NOTE:

1. PSY7970 DISSERTATION - Complete 12 credits.
2. PSY7950 INTERN PROFESSIONAL PSY - Students must register for 3 semesters of Internship in the last year of the program. (Fall, Spring, Summer).

AND

Elective Credit

Complete the following:

- Students must complete 6 elective credits and an additional research methods elective.

Program Learning Outcomes

Program Learning Outcomes
https://cehs.usu.edu/psychology/assessment/index

Patternmaking – Certificate

Program Overview

College
College of Agriculture & Natural Resources

Department
Applied Sciences, Technology and Education

Program Level
Undergraduate

About this Degree
The Patternmaking Certificate is designed to further students' knowledge in the fashion industry through developing patternmaking and design skills in drafting, flat patternmaking, draping, digital patternmaking, digital rendering and collection development.

Admission Requirements for this Program
FCSE2040 INT CLOTHING CONSTRUCTION, or equivalent apparel sewing and fitting experience

Program Requirements

Total Credits Required In Program Coursework
9

Total Credits Required To Earn This Credential
9

Simple Requisites

Program Requirements

Patternmaking – Certificate Course Requirements

Type
Completion Requirement

Required

Complete ALL of the following Courses:

- FCSE3040 - Advanced Clothing Studies: Patternmaking - 3cr.
- FCSE3140 - Digital Patternmaking for Apparel - 3cr.
- FCSE4140 - Advanced Apparel Design - 3cr.

Minimum University Requirements

Minimum University Requirements
Minimum University Requirements (Undergraduate Academic or Technical Certificates)

Program Learning Outcomes

Program Learning Outcomes

1. Students will demonstrate accurate patternmaking techniques (flat, digital, drafting, and draping)
2. Students will demonstrate the ability to research target markets and apply that research to create apparel designs
3. Students will demonstrate the ability to grade patterns into a range of sizes
4. Students will demonstrate the ability to pattern clothing for an accurate fit

Public Health - Minor

Program Overview

College
College of Arts & Sciences

Department
Biology

Program Level
Undergraduate

Program Requirements

Total Credits Required To Earn This Credential
18

Simple Requisites

Program Requirements

A minimum overall GPA of 2.25 is required for these courses, with a grade of *C-* or better in BIOL1610 BIOLOGY I, BIOL1615 BIOLOGY I LABORATORY, BIOL1620 BIOLOGY II (BLS), and BIOL1625 BIOLOGY II LABORATORY.

Section 1

Type
Completion Requirement

Public Health Minor Requirements (18 credits)

Complete ALL of the following Courses:

- BIOL1610 - Biology I - 3cr.
- BIOL1615 - Biology I Laboratory - 1cr.
- BIOL1620 - Biology II (BLS) - 3cr.
- BIOL1625 - Biology II Laboratory - 1cr.

• Upper-division (3000 level and above) PUBH-prefix elective courses (12 credits)

Program Learning Outcomes

Program Learning Outcomes
https://www.usu.edu/science/assessment/

Public Health: Environmental Health Emphasis - BS

Program Overview

College
College of Arts & Sciences

Department
Biology

Program Level
Undergraduate

About this Degree

A four-year program leading to the Bachelor of Science in Public Health is offered by the Department of Biology with options in environmental health, industrial hygiene, or public health education. The industrial hygiene program is accredited by the Applied Science Commission of the Accreditation Board for Engineering and Technology; 111 Market Place, Suite 1050; Baltimore MD 21202-4012; telephone (410) 347-7700. Individuals completing the environmental health option are qualified to take the Registered Environmental Health Specialist/Sanitarian Examination (REHS/RS). The Public Health degree requires a core of biology courses similar to that required for the biology degrees; additional biology and public health courses; and chemistry, physics, mathematics, statistics, and allied science and engineering courses appropriate to each emphasis.

Environmental Health Emphasis: An environmental health and protection professional is primarily concerned with the investigation and prevention of health-related problems within a community. These problems include air and water pollution, solid and hazardous waste disposal, food-borne illnesses in public eating establishments, water and wastewater treatment, and insect and rodent disease. Graduates are eligible for the Utah Environmental Health Scientist-In-Training License and the Registered Environmental Health Specialist/ Sanitarian examination.

- For more information about Public Health, see the Department of Biology.
- Admitted and current students must meet with their advisor, Carl Farley.
- Log on to Degree Works to check student-specific program progress.
- The highest math requirement for this degree is MATH1210 CALCULUS I (QL) or MATH1100 CALCULUS TECHNIQUES (QL) and either STAT2000 STATISTICAL METHODS (QI) or STAT3000 STATISTICS FOR SCIENTISTS (QI).

Admission Requirements for this Program

- New freshmen: Admitted to USU in Good Standing
- Transfer students from other institutions or other programs at USU: 2.5 GPA

Program Requirements

Total Credits Required In Program Coursework
89

Total Credits Required To Earn This Credential
122

Simple Requisites

Program Requirements

Additional Information

Minimum grades and GPA for graduation: Students must complete the BIOL1610 BIOLOGY I, BIOL1615 BIOLOGY I LABORATORY, BIOL1620 BIOLOGY II (BLS), and BIOL1625 BIOLOGY II LABORATORY courses with grades of C- or better and attain a minimum GPA of 2.25 in all Biology or Public Health coursework required by the major. Major requirements may *not* be taken on a pass/fail basis.

- PUBH5500 PUBLIC HEALTH MANAGEMENT (CI), along with another course having CI designation (such as ASTE3050 TECH/ PROF COMMUNICATION (CI) or NDFS5110 FOOD MICROBIOLOGY (CI)) will fulfill the Communications Intensive (CI) requirement.
- STAT2000 STATISTICAL METHODS (QI) or STAT3000 STATISTICS FOR SCIENTISTS (QI) will fulfill the Quantitative Intensive (QI) requirement.

For further information contact the Biology Advising Center in the Biology-Natural Resources Building Room 101. The advisor for Public Health majors is Carl Farley, Biology-Natural Resources 131, (435)797-2566, carl.farley@usu.edu.

Public Health: Environmental Health Emphasis - BS

Type
Completion Requirement

Public Health Major Requirements (31-36 credits)

Complete ALL of the following Courses:

- BIOL1610 - Biology I - 3cr.
- BIOL1615 - Biology I Laboratory - 1cr.
- BIOL1620 - Biology II (BLS) - 3cr.
- BIOL1625 - Biology II Laboratory - 1cr.
- BIOL2420 - Human Physiology - 4cr.
  OR BIOL4600 - Advanced Human Physiology - 5cr.
- BIOL3300 - General Microbiology - 3cr.
- MATH1210 - Calculus I (QL) - 4cr.
  OR MATH1100 - Calculus Techniques (QL) - 3cr.
- PUBH4000 - Public Health Internship - 3cr.
- PUBH4040 - Fundamentals of Epidemiology - 3cr.
- PUBH5500 - Public Health Management (CI) - 2cr.
- STAT2000 - Statistical Methods (QI) - 4cr.
  OR STAT3000 - Statistics for Scientists (QI) - 3cr.

NOTE:

1. BIOL1610 BIOLOGY I - Requires a grade of C- or better.
2. BIOL1615 BIOLOGY I LABORATORY - Requires a grade of C- or better.
3. BIOL1620 BIOLOGY II (BLS) - Requires a grade of C- or better.
4. BIOL1625 BIOLOGY II LABORATORY - Requires a grade of C- or better.

Public Health Course Requirements (35 credits)

Complete ALL of the following Courses:

- CHEM1210 - Principles of Chemistry I - 4cr.
- CHEM1215 - Chemical Principles Laboratory I - 1cr.
- CHEM1220 - Principles of Chemistry II (BPS) - 4cr.
- CHEM1225 - Chemical Principles Laboratory II - 1cr.
- CHEM2300 - Principles of Organic Chemistry - 3cr.
- CHEM2315 - Organic Chemistry Laboratory I - 1cr.
- ASTE3050 - Technical and Professional Communication Principles (CI) - 3cr.
  OR CMST1020 - Public Speaking (BHU) - 3cr.
  OR CMST2120 - Group Collaboration and Decision Making - 3cr.
  OR JCOM3050 - Technical and Professional Communication

Principles (CI) - 3cr.
- PHYS2110 - General Physics—Life Sciences I - 4cr.
- PHYS2120 - General Physics - Life Sciences II (BPS) - 4cr.
- PUBH3310 - Occupational Health and Safety - 3cr.
- PUBH3610 - Environmental Management - 3cr.
- PUBH4310 - Industrial Hygiene Recognition of Hazards - 4cr.

Emphasis Required Courses (13 credits)

Complete ALL of the following Courses:
- BIOL2220 - General Ecology - 3cr.
- NDFS5110 - Food Microbiology (CI) - 3cr.
- PUBH4030 - Communicable Disease Control - 3cr.
- PUBH4200 - Public Health Seminar - 1cr.
- PUBH5730 - Environmental Chemistry of Organic Contaminants - 3cr.

Required Electives (10 credits)

Earn at least 10 credits from the following:
- BIOL3085 - Ecology Laboratory (CI) - 2cr.
- BIOL4420 - Plant Systematics and Diversity - 3cr.
- BIOL5550 - Freshwater Invertebrates - 3cr.
- CHEM3700 - Introductory Biochemistry - 3cr.
- CHEM3710 - Introductory Biochemistry Laboratory - 1cr.
- NDFS1250 - Sanitation and Safety - 3cr.
- PSC3000 - Fundamentals of Soil Science - 4cr.
- PUBH5400 - Environmental Toxicology - 3cr.

Open Electives

Complete the following as needed:
Total elective credit is determined by General Education courses taken, degree type selected, additional credits earned, and any additional math or other prerequisite courses needed. Please consult your Academic Advisor for details.

Minimum University Requirements

Minimum University Requirements
Minimum University Requirements (Bachelor's Degree)

Suggested Degree Maps

Degree Map Name
Suggested Degree Map - Public Health: Environmental Health Emphasis BS
Total Degree Map Credits
122 - 143
Degree Map Effective Catalog Year
2026 -

Degree Map Narrative
- Following is a sample four-year plan. Please note that student-specific plans may differ.
- Meet with an academic advisor to create a specific plan that best fits your academic needs.
- The student is ultimately responsible for knowing and completing all degree requirements.
- Make sure you meet the registration requirements for each class by clicking the course link and checking any prerequisites or corequisites.
- Consultation with an advisor may result in an altered plan customized for an individual student.
- Check your Degree Works for requirements and completion.

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	15	0

Requirement Select
- If students need math courses prerequisite to MATH 1210, math courses in addition to those specifically listed here may be required. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Grade C- or better in BIOL1610 and BIOL1615 (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- BIOL1610 - Biology I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	C-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- BIOL1615 - Biology I Laboratory

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	C-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- CHEM1210 - Principles of Chemistry I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- CHEM1215 - Chemical Principles Laboratory I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- University Studies or Math Prerequisites (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	15	0

Requirement Select
- If students need math courses prerequisite to MATH 1210, math courses in addition to those specifically listed here may be required. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Grade C- or better in BIOL1620 and BIOL1625. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- BIOL1620 - Biology II (BLS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	C-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- BIOL1625 - Biology II Laboratory

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	C-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- CHEM1220 - Principles of Chemistry II (BPS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- CHEM1225 - Chemical Principles Laboratory II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- University Studies or Math Prerequisites (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	15 - 19	0

Requirement Select

- *BIOL 4600 is typically for those students pursuing medical careers. **Students desiring to attend medical school typically take the year-long series of CHEM 2310/CHEM 2315 and CHEM 2320/CHEM 2325. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- BIOL2420 - Human Physiology
  OR
- BIOL4600 - Advanced Human Physiology

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4 - 5
Progress Credits	-
Contact Hours	4 - 5
Clinical	-
Criticality	No

Requirement Select

- CHEM2300 - Principles of Organic Chemistry

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- CHEM2315 - Organic Chemistry Laboratory I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- MATH1210 - Calculus I (QL)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- PUBH3310 - Occupational Health and Safety

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- University studies (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	0 - 3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	15 - 19	0

Requirement Select
- BIOL2220 - General Ecology

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- CMST1020 - Public Speaking (BHU)
  OR
- CMST2120 - Group Collaboration and Decision Making
  OR
- ASTE3050 - Technical and Professional Communication Principles (CI)
  OR
- JCOM3050 - Technical and Professional Communication Principles (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- PUBH4200 - Public Health Seminar

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- STAT2000 - Statistical Methods (QI)
  OR
- STAT3000 - Statistics for Scientists (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 4
Progress Credits	-
Contact Hours	3 - 4
Clinical	-
Criticality	No

Requirement Select
- University Studies or Elective Courses (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	5 - 8
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Fall	15 - 17	0

Requirement Select
- PHYS2110 - General Physics—Life Sciences I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- PUBH4310 - Industrial Hygiene Recognition of Hazards

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- PUBH5730 - Environmental Chemistry of Organic Contaminants

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Public Health Elective (Generic)
  OR
- University Studies (Generic)
  OR
- Other Elective Courses (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4 - 6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Spring	18 - 23	0

Requirement Select

- BIOL3300 - General Microbiology

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- PHYS2120 - General Physics - Life Sciences II (BPS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- PUBH4000 taken summer semester. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- PUBH4000 - Public Health Internship

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 6
Progress Credits	-
Contact Hours	3 - 6
Clinical	-
Criticality	No

Requirement Select

- Public Health Elective or University Studies or Other Elective Courses (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	7 - 9
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Fall	15 - 18	0

Requirement Select
- PUBH3610 - Environmental Management

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- PUBH4030 - Communicable Disease Control

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Public Health Elective or University Studies or Other Elective Courses (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	9 - 12
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Spring	14 - 17	0

Requirement Select
- NDFS5110 - Food Microbiology (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- PUBH4040 - Fundamentals of Epidemiology

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- PUBH5500 - Public Health Management (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select
- Public Health Elective or University Studies or Other Elective Courses (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	6 - 9
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Program Learning Outcomes

Program Learning Outcomes

https://artsci.usu.edu/assessments/

Master of Public Health: Health Education and Promotion Specialization - MPH

Program Overview

College
College of Education & Human Services

Department
Kinesiology and Health Science

Program Level
Graduate

About this Degree

The online Master of Public Health (MPH) with an emphasis in Health Education and Promotion (HEP) at Utah State University equips students with the foundational competencies necessary for the practice of public health, including focused training in health education and promotion. The MPH HEP program, fully accredited by the Council on Education for Public Health in Fall of 2022, effectively trains students to be leaders in the field of public health by advancing education, research, practice, and advocacy. MPH graduates are well prepared for careers in health care settings, academic institutions, local, state, and federal health agencies, private industry, worksite wellness, and non-profit organizations. Students receive training in program planning and evaluation, social determinates of health, health communication, quantitative and qualitative public health methods, health behavior, health policy, leadership, and global health. Students also complete integrative, interprofessional, and applied learning experiences outside of the classroom to demonstrate mastery of public health competencies. The fully online MPH HEP is available on a part-time or full-time basis.

Admission Requirements for this Program

Admission requirements can be found at the USU School of Graduate Studies (apply at https://gradschool.usu.edu/admissions/index). Students are expected to be admitted to the program as matriculated students before taking coursework leading to the degree.

Additional information about the Master of Public Health Degree-Health Education and Promotion Concertation may be obtained by contacting the Department of Kinesiology and Health Science or by visiting http://cehs.usu.edu/khs/graduate/master-of-public-health/index.

Program Requirements

Total Credits Required In Program Coursework
45

Total Credits Required To Earn This Credential
45

Simple Requisites

Program Requirements

School of Graduate Studies Requirements

- Degree Verification: A bachelor's degree from an accredited U.S. college or university or a similarly recognized international university is required for admission to and completion of a graduate program.
- Overall Graduate GPA at least 3.0 and no grades of C- or lower: Graduate students are required to maintain at least a 3.0 GPA for degree-program courses. Grades of C- or lower will not be accepted for a graduate degree.
- Course Number Acceptability: The Program of Study for a master's degree must include at least 18 semester credits at the level of 6000 or above. Credits in the following areas are not acceptable in a degree program: foreign languages (unless included in an approved Program of Study), continuing graduate advisement, individual home study, military science, and courses numbered below 6000.
- Matriculation Start Semester: A master's degree must be completed within six years of entering the degree program. Additional time may be requested by the student's committee and submitted to the Vice Provost of Graduate Studies for review.
- Coursework Validity: Coursework over eight years old at the time of degree completion may not be used for a graduate degree unless it is revalidated by the School of Graduate Studies.
- A maximum of 12 credits of 5000-level coursework may be used on a program of study.
- Thesis Research Credits: Professional/Plan C students cannot use any thesis credits.
- Master's forms: Approval of academic forms required for master's students by the School of Graduate Studies. This includes the Supervisory Committee Approval Form (SCAF), Program of Study (POS), and USU Graduation Application.

Program Requirements

The Master of Public Health in Health Education Promotion degree program requires a minimum of 45 credits. Students who have completed an undergraduate public health degree from a program accredited by the Council on Education for Public Health are not required to take HEP6050 FOUNDATIONS OF PUBLIC HEALTH and may complete the program with a minimum of 42 credits.

Master of Public Health in Health Education and Promotion - MPH HEP (45 Credits)

Type
Completion Requirement

Required Courses

Fulfill ALL of the following requirements:

Foundational Competency Courses (27 credits)

Complete ALL of the following Courses:

- HEP6000 - Advanced Program Planning and Evaluation for Public Health - 3cr.
- HEP6010 - Communication for Public Health - 3cr.
- HEP6020 - Introduction to Biostatistics and Epidemiology - 3cr.
- HEP6050 - Foundations of Public Health - 3cr.
- HEP6200 - Health Administration, Organizations, and Systems - 3cr.
- HEP6350 - Social Determinants of Health - 3cr.
- HEP6400 - Policy, Leadership, and Advocacy in Public Health - 3cr.
- HEP6550 - Qualitative Methods for Public Health - 3cr.
- HEP6850 - Capstone in Public Health - 3cr.

AND

Concentration Competency Courses (18 credits)

Complete ALL of the following Courses:

- HEP6120 - Foundations of Global Health - 3cr.
- HEP6150 - Global Maternal and Child Health - 3cr.
- HEP6450 - Research Methods in Population Health - 3cr.
- HEP6600 - Practicum in Health Promotion - 3cr.
- HEP6670 - Principles of Grant Writing in Public Health - 3cr.
- HEP6800 - Health Behavior - 3cr.

HEP 6020 Pre-Test

HEP MPH students are required to pass the pre-test prior to registering for HEP6020 INTRO TO BIOSTATISTICS AND EPI. Students should take the pre-test within the first two semester of starting the degree.

Complete ALL of the following Courses:

- HEP6020 - Introduction to Biostatistics and Epidemiology - 3cr.

Program Learning Outcomes

Program Learning Outcomes

https://cehs.usu.edu/khs/assessment

Public Health: Industrial Hygiene Emphasis - BS

Program Overview

College	Department	Program Level
College of Arts & Sciences	Biology	Undergraduate

About this Degree

A four-year program leading to the Bachelor of Science in Public Health is offered by the Department of Biology with options in environmental health, industrial hygiene, or public health education. The industrial hygiene program is accredited by the Applied Science Commission of the Accreditation Board for Engineering and Technology; 111 Market Place, Suite 1050; Baltimore MD 21202-4012; telephone (410) 347-7700. Those completing the industrial hygiene option are granted benefits toward both the Certified Industrial Hygienist (CIH) and the Certified Safety Professional (CSP) examinations. The Public Health degree requires a core of biology courses similar to that required for the biology degrees; additional biology and public health courses; and chemistry, physics, mathematics, statistics, and allied science and engineering courses appropriate to each emphasis.

Industrial Hygiene Emphasis: This emphasis prepares students to anticipate, recognize, evaluate, and control occupational health hazards in the workplace. An industrial hygienist is responsible for inspection of the working environment, measurement of workers' exposure to chemical, physical, and biological hazards, and implementation of control measures to provide a safe and healthy working environment. This emphasis is accredited by the Applied Science Accreditation of ABET, and the coursework prepares students to take an exam to be certified as professional industrial hygienists.

- For more information about Public Health, see the Department of Biology.
- Admitted and current students must meet with their advisor, Carl Farley.
- Log on to Degree Works to check student-specific program progress.
- The highest math requirement for this degree is MATH1210 CALCULUS I (QL) or MATH1100 CALCULUS TECHNIQUES (QL) and either STAT2000 STATISTICAL METHODS (QI) or STAT3000 STATISTICS FOR SCIENTISTS (QI).

Admission Requirements for this Program

- New freshmen: Admitted to USU in Good Standing
- Transfer students from other institutions or other programs at USU: 2.5 GPA

Program Requirements

Total Credits Required In Program Coursework	Total Credits Required To Earn This Credential
90-92	120

Simple Requisites

Program Requirements

Additional Information

Minimum grades and GPA for graduation: Students must complete the BIOL1610 BIOLOGY I, BIOL1615 BIOLOGY I LABORATORY, BIOL1620 BIOLOGY II (BLS), and BIOL1625 BIOLOGY II LABORATORY courses with grades of C- or better and attain a minimum GPA of 2.25 in all Biology or Public Health coursework required by the major. Major requirements may *not* be taken on a pass/fail basis.

For further information contact the Biology Advising Center in the Biology-Natural Resources Building Room 101. The advisor for Public Health majors is Carl Farley, Biology-Natural Resources 131, (435)797-2566, carl.farley@usu.edu.

Public Health: Industrial Hygiene Emphasis - BS

Type

Completion Requirement

Public Health Major Requirements (32 credits)

Earn at least 32 credits from the following:

- BIOL1610 - Biology I - 3cr.
- BIOL1615 - Biology I Laboratory - 1cr.
- BIOL1620 - Biology II (BLS) - 3cr.
- BIOL1625 - Biology II Laboratory - 1cr.
- BIOL2420 - Human Physiology - 4cr.
  OR BIOL4600 - Advanced Human Physiology - 5cr.
- MATH1210 - Calculus I (QL) - 4cr.
  OR MATH1100 - Calculus Techniques (QL) - 3cr.
- BIOL3300 - General Microbiology - 3cr.
- PUBH4040 - Fundamentals of Epidemiology - 3cr.
- PUBH4380 - Industrial Hygiene Internship - 3cr.
- PUBH5500 - Public Health Management (CI) - 2cr.
- STAT2000 - Statistical Methods (QI) - 4cr.
  OR STAT3000 - Statistics for Scientists (QI) - 3cr.

NOTE:

1. BIOL1610 BIOLOGY I - Requires a grade of C- or better.
2. BIOL1615 BIOLOGY I LABORATORY - Requires a grade of C- or better.
3. BIOL1620 BIOLOGY II (BLS) - Requires a grade of C- or better.
4. BIOL1625 BIOLOGY II LABORATORY - Requires a grade of C- or better.

Public Health Course Requirements (35 credits)

Earn at least 35 credits from the following:

- CHEM1210 - Principles of Chemistry I - 4cr.
- CHEM1215 - Chemical Principles Laboratory I - 1cr.
- CHEM1220 - Principles of Chemistry II (BPS) - 4cr.
- CHEM1225 - Chemical Principles Laboratory II - 1cr.
- CHEM2300 - Principles of Organic Chemistry - 3cr.
- CHEM2315 - Organic Chemistry Laboratory I - 1cr.
- ASTE3050 - Technical and Professional Communication Principles (CI) - 3cr.
  OR CMST1020 - Public Speaking (BHU) - 3cr.
  OR CMST2120 - Group Collaboration and Decision Making - 3cr.
  OR JCOM3050 - Technical and Professional Communication Principles (CI) - 3cr.
- PHYS2110 - General Physics—Life Sciences I - 4cr.
- PHYS2120 - General Physics - Life Sciences II (BPS) - 4cr.
- PUBH3310 - Occupational Health and Safety - 3cr.
- PUBH3610 - Environmental Management - 3cr.
- PUBH4310 - Industrial Hygiene Recognition of Hazards - 4cr.

Emphasis Required Courses (23-25 credits minimum)

Fulfill ALL of the following requirements:

Required Courses

Fulfill ANY of the following requirements:

Option 1

Complete ALL of the following Courses:

- CHEM3000 - Quantitative Analysis (QI) - 3cr.
  AND CHEM3005 - Quantitative Analysis Laboratory - 1cr.

OR

Option 2

Complete ANY of the following Courses:

- CHEM3650 - Environmental Chemistry (DSC) - 3cr.
  OR PUBH5730 - Environmental Chemistry of Organic Contaminants - 3cr.

NOTE:

1. PUBH5730 ENVIRON CHEM OF ORGANIC CONTAM - Course may satisfy either the additional chemistry requirement or the elective option, **but not both.**

OR

Option 3

Complete ALL of the following Courses:

- CHEM2320 - Organic Chemistry II - 4cr.
- CHEM2325 - Organic Chemistry Laboratory II - 1cr.

AND

Complete ALL of the following Courses:

- CHEM3700 - Introductory Biochemistry - 3cr.
- CHEM3710 - Introductory Biochemistry Laboratory - 1cr.
- PUBH4300 - Industrial Hygiene Seminar - 1cr.
- PUBH4320 - Industrial Hygiene Chemical Hazard Evaluation - 3cr.
- PUBH4330 - Industrial Hygiene Physical Hazards - 3cr.
- PUBH4410 - Industrial Safety - 3cr.
- PUBH5330 - Industrial Hygiene Chemical Hazard Control (QI) - 3cr.
- PUBH5400 - Environmental Toxicology - 3cr.

Open Electives

Complete the following as needed:
Total elective credit is determined by General Education courses taken, degree type selected, additional credits earned, and any additional math or other prerequisite courses needed. Please consult your Academic Advisor for details.

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Bachelor's Degree)

Suggested Degree Maps

Degree Map Name

Suggested Degree Map - Public Health: Industrial Hygiene Emphasis BS

Total Degree Map Credits
127 - 149

Degree Map Effective Catalog Year
2027 -

Degree Map Narrative

- Following is a sample four-year plan. Please note that student-specific plans may differ.
- Meet with an academic advisor to create a specific plan that best fits your academic needs.
- The student is ultimately responsible for knowing and completing all degree requirements.
- Make sure you meet the registration requirements for each class by clicking the course link and checking any prerequisites or corequisites.
- Consultation with an advisor may result in an altered plan customized for an individual student.
- Check your Degree Works for requirements and completion.

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	18	0

Requirement Select
- Grade C- or better in BIOL1610 and BIOL1615. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- BIOL1610 - Biology I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	C-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- BIOL1615 - Biology I Laboratory

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	C-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- CHEM1210 - Principles of Chemistry I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- CHEM1215 - Chemical Principles Laboratory I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- University Studies or Math Prerequisites (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	15	0

Requirement Select

- If students need math courses prerequisite to MATH 1210, math courses in addition to those specifically listed here may be required. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Grade C- or better in BIOL1620 and BIOL1625. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- BIOL1620 - Biology II (BLS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	C-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- BIOL1625 - Biology II Laboratory

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	C-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- CHEM1220 - Principles of Chemistry II (BPS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- CHEM1225 - Chemical Principles Laboratory II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- University Studies or Math Prerequisites (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	16 - 19	0

Requirement Select

- *BIOL 4600 is typically for those students pursuing medical careers. **Students desiring to attend medical school typically take the year-long series of CHEM 2310/CHEM 2315 and CHEM 2320/CHEM 2325. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- BIOL2420 - Human Physiology
  OR
- BIOL4600 - Advanced Human Physiology

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4 - 5
Progress Credits	-
Contact Hours	4 - 5
Clinical	-
Criticality	No

Requirement Select

- CHEM2300 - Principles of Organic Chemistry

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- CHEM2315 - Organic Chemistry Laboratory I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- MATH1210 - Calculus I (QL)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- PUBH3310 - Occupational Health and Safety

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- University Studies (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1 - 3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	16 - 19	0

Requirement Select

- CHEM3700 - Introductory Biochemistry

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- CHEM3710 - Introductory Biochemistry Laboratory

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- CMST1020 - Public Speaking (BHU)
  OR
- CMST2120 - Group Collaboration and Decision Making
  OR
- ASTE3050 - Technical and Professional Communication Principles (CI)
  OR
- JCOM3050 - Technical and Professional Communication Principles (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- STAT2000 - Statistical Methods (QI)
  OR
- STAT3000 - Statistics for Scientists (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	3 - 4
Clinical	-
Criticality	No

Requirement Select

- University Studies or Elective Courses (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	5 - 8
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Fall	15 - 17	0

Requirement Select

- PHYS2110 - General Physics—Life Sciences I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- PUBH4300 - Industrial Hygiene Seminar

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- PUBH4310 - Industrial Hygiene Recognition of Hazards

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- Public Health Elective or University Studies or Other Elective Courses (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	6 - 8
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Spring	17 - 26	0

Requirement Select

- BIOL3300 - General Microbiology

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- PHYS2120 - General Physics - Life Sciences II (BPS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- PUBH4320 - Industrial Hygiene Chemical Hazard Evaluation

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- PUBH4330 - Industrial Hygiene Physical Hazards

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- PUBH4380 usually taken summer semester. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- PUBH4380 - Industrial Hygiene Internship

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 12
Progress Credits	-
Contact Hours	3 - 12
Clinical	-
Criticality	No

Requirement Select

- Public Health Elective or University Studies or Other Elective Courses (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Fall	15 - 18	0

Requirement Select

- *CHEM 3650 or PUBH 5730 may be taken in place of CHEM 3000 and CHEM 3005. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- CHEM3000 - Quantitative Analysis (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- CHEM3005 - Quantitative Analysis Laboratory

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- PUBH3610 - Environmental Management

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- PUBH5330 - Industrial Hygiene Chemical Hazard Control (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Public Health Elective or University Studies or Other Elective Courses (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	5 - 8
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Spring	15 - 17	0

Requirement Select
- PUBH4040 - Fundamentals of Epidemiology

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- PUBH5400 - Environmental Toxicology

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- PUBH5500 - Public Health Management (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select

- PUBH4410 - Industrial Safety

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Public Health Elective or University Studies or Other Elective Courses (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4 - 6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Program Learning Outcomes

Program Learning Outcomes

https://artsci.usu.edu/assessments/

Public Health: Public Health Education Emphasis - BS

Program Overview

College	Department	Program Level
College of Arts & Sciences	Biology	Undergraduate

About this Degree

A four-year program leading to the Bachelor of Science in Public Health is offered by the Department of Biology with options in environmental health, industrial hygiene, or public health education. The industrial hygiene program is accredited by the Applied Science Commission of the Accreditation Board for Engineering and Technology; 111 Market Place, Suite 1050; Baltimore MD 21202-4012; telephone (410) 347-7700. Public Health Education graduates are qualified to take the Certified Health Education Specialist (CHES) examination. The Public Health degree requires a core of biology courses similar to that required for the biology degrees; additional biology and public health courses; and chemistry, physics, mathematics, statistics, and allied science and engineering courses appropriate to each emphasis.

Public Health Education Emphasis: This emphasis prepares students to educate people about a variety of health issues. A public health educator assists people in developing positive health attitudes and behaviors. The public health education profession includes various responsibilities, such as teaching, research, program development, administrative duties, speaking before civic groups, arranging publicity campaigns, and coordinating the activities of various service organizations with those of governmental or community agencies. Graduates are qualified to take the Certified Health Education Specialist examination.

- For more information about Public Health, see the Department of Biology.
- Admitted and current students must meet with their advisor, Carl Farley.
- Log on to Degree Works to check student-specific program progress.
- The highest math requirement for this degree is MATH1210 CALCULUS I (QL) or MATH1100 CALCULUS TECHNIQUES (QL) and either STAT2000 STATISTICAL METHODS (QI) or STAT3000 STATISTICS FOR SCIENTISTS (QI).

Admission Requirements for this Program

- New freshmen: Admitted to USU in Good Standing
- Transfer students from other institutions or other programs at USU: 2.5 GPA

Program Requirements

Total Credits Required In Program Coursework	Total Credits Required To Earn This Credential
82	120

Simple Requisites

Program Requirements

Additional Information

Some major coursework will fulfill the General Education Requirements or University Studies Requirements.

- PUBH5500 PUBLIC HEALTH MANAGEMENT (CI), along with another course having CI designation (such as NDFS5110 FOOD MICROBIOLOGY (CI) or ENGL3080 INTRO TO TECH COMM (CI)) will fulfill the Communications Intensive (CI) requirement.

- STAT2000 STATISTICAL METHODS (QI) or STAT3000 STATISTICS FOR SCIENTISTS (QI) will fulfill the Quantitative Intensive (QI) requirement.

For further information contact the Biology Advising Center in the Biology-Natural Resources Building Room 101. The advisor for Public Health majors is Carl Farley, Biology-Natural Resources 131, (435)797-2566, carl.farley@usu.edu.

Minimum grades and GPA for graduation: Students must complete the BIOL1610 BIOLOGY I, BIOL1615 BIOLOGY I LABORATORY, BIOL1620 BIOLOGY II (BLS), and BIOL1625 BIOLOGY II LABORATORY courses with grades of C- or better and attain a minimum GPA of 2.25 in all Biology or Public Health coursework required by the major. Major requirements may *not* be taken on a pass/fail basis.

Public Health: Public Health Education Emphasis - BS

Type
Completion Requirement

Public Health Major Requirements (31-36 credits)

Complete ALL of the following Courses:

- BIOL1610 - Biology I - 3cr.
- BIOL1615 - Biology I Laboratory - 1cr.
- BIOL1620 - Biology II (BLS) - 3cr.
- BIOL1625 - Biology II Laboratory - 1cr.
- BIOL2420 - Human Physiology - 4cr.
  OR BIOL4600 - Advanced Human Physiology - 5cr.
- BIOL3300 - General Microbiology - 3cr.
- PUBH4000 - Public Health Internship - 3cr.
- PUBH4040 - Fundamentals of Epidemiology - 3cr.
- MATH1210 - Calculus I (QL) - 4cr.
  OR MATH1100 - Calculus Techniques (QL) - 3cr.
- PUBH5500 - Public Health Management (CI) - 2cr.
- STAT2000 - Statistical Methods (QI) - 4cr.
  OR STAT3000 - Statistics for Scientists (QI) - 3cr.

NOTE:

1. BIOL1610 BIOLOGY I - Requires a grade of C- or better.
2. BIOL1615 BIOLOGY I LABORATORY - Requires a grade of C- or better.
3. BIOL1620 BIOLOGY II (BLS) - Requires a grade of C- or better.
4. BIOL1625 BIOLOGY II LABORATORY - Requires a grade of C- or better.

Emphasis Required Courses (51 credits)

Complete ALL of the following Courses:

- CHEM1110 - General Chemistry I (BPS) - 4cr.
- CHEM1120 - General Chemistry II (BPS) - 4cr.
- CHEM1125 - General Chemistry II Laboratory - 1cr.
- CMST1020 - Public Speaking (BHU) - 3cr.
- HEP2000 - First Aid and Emergency Care - 2cr.
- HEP2500 - Health and Wellness - 2cr.
- HEP3000 - Drugs and Human Behavior - 3cr.
- HEP3900 - Social Marketing in Health Education - 3cr.
- HEP4200 - Community-Based Program Planning, Implementation, and Evaluation - 3cr.
- HEP4205 - Program Management and Evaluation for Health Education - 3cr.
- NDFS1020 - Science and Application of Human Nutrition (BLS) - 3cr.
- NDFS5210 - Advanced Public Health Nutrition (CI) - 3cr.
- PHYS1200 - Introduction to Physics by Hands-on Exploration (BPS) - 4cr.
  OR PHYS1800 - Physics of Technology (BPS) - 4cr.
- PSY1010 - General Psychology (BSS) - 3cr.
- PUBH3120 - Family and Community Health - 3cr.
- PUBH4030 - Communicable Disease Control - 3cr.
- PUBH4200 - Public Health Seminar - 1cr.
- SOC3330 - Medical Sociology (DSS) - 3cr.

Open Electives

Complete the following as needed:
Total elective credit is determined by General Education courses taken, degree type selected, additional credits earned, and any additional math or other prerequisite courses needed. Please consult your Academic Advisor for details.

Minimum University Requirements

Minimum University Requirements
Minimum University Requirements (Bachelor's Degree)

Suggested Degree Maps

Degree Map Name
Suggested Degree Map - Public Health: Public Health Education Emphasis BS
Total Degree Map Credits
124 - 147
Degree Map Effective Catalog Year
2026 -

Degree Map Narrative

- Following is a sample four-year plan. Please note that student-specific plans may differ.
- Meet with an academic advisor to create a specific plan that best fits your academic needs.
- The student is ultimately responsible for knowing and completing all degree requirements.
- Make sure you meet the registration requirements for each class by clicking the course link and checking any prerequisites or corequisites.
- Consultation with an advisor may result in an altered plan customized for an individual student.
- Check your Degree Works for requirements and completion.

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	15	0

Requirement Select

- If students need math courses prerequisite to MATH 1210, math courses in addition to those specifically listed here may be required. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Grade C- or better in BIOL1610 and BIOL1620 (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- BIOL1610 - Biology I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	C-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- BIOL1615 - Biology I Laboratory

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	C-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- CHEM1110 - General Chemistry I (BPS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- PSY1010 - General Psychology (BSS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- University Studies or Math Prerequisites (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	15	0

Requirement Select

- If students need math courses prerequisite to MATH 1210, math courses in addition to those specifically listed here may be required. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Grade of C- or better in BIOL1620 and BIOL1625. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- BIOL1620 - Biology II (BLS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	C-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- BIOL1625 - Biology II Laboratory

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	C-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- CHEM1120 - General Chemistry II (BPS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- CHEM1125 - General Chemistry II Laboratory

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- CMST1020 - Public Speaking (BHU)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- University Studies or Math Prerequisites (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	15 - 19	0

Requirement Select
- *BIOL 4600 is typically for those students pursuing medical careers. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- BIOL2420 - Human Physiology
  OR
- BIOL4600 - Advanced Human Physiology

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4 - 5
Progress Credits	-
Contact Hours	4 - 5
Clinical	-
Criticality	No

Requirement Select

- MATH1210 - Calculus I (QL)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- NDFS1020 - Science and Application of Human Nutrition (BLS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- University Studies or Elective Courses (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4 - 7
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	15 - 18	0

Requirement Select

- BIOL3300 - General Microbiology

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- HEP2000 - First Aid and Emergency Care

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select

- HEP2500 - Health and Wellness

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select

- PUBH3120 - Family and Community Health

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- University Studies or Elective Courses (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4 - 7
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Fall	15 - 19	0

Requirement Select

- HEP3000 - Drugs and Human Behavior

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- SOC3330 - Medical Sociology (DSS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- STAT2000 - Statistical Methods (QI)
  OR
- STAT3000 - Statistics for Scientists (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 4
Progress Credits	-
Contact Hours	3 - 4
Clinical	-
Criticality	No

Requirement Select

- Public Health Elective or University Studies or Other Elective Courses (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	6 - 9
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Spring	18 - 24	0

Requirement Select

- HEP3900 - Social Marketing in Health Education

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- PHYS1200 - Introduction to Physics by Hands-on Exploration (BPS)
  OR
- PHYS1800 - Physics of Technology (BPS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- PUBH4200 - Public Health Seminar

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- PUBH4000 taken Summer semester. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- PUBH4000 - Public Health Internship

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 6
Progress Credits	-
Contact Hours	3 - 6
Clinical	-
Criticality	No

Requirement Select
- Public Health Elective or University Studies or Other Elective Courses (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	7 - 10
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Fall	15 - 18	0

Requirement Select
- HEP4200 - Community-Based Program Planning, Implementation, and Evaluation

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- PUBH4030 - Communicable Disease Control

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- PUBH5500 - Public Health Management (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select
- Public Health Elective or University Studies or Other Elective Courses (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	7 - 10
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Spring	16 - 19	0

Requirement Select
- HEP4205 - Program Management and Evaluation for Health Education

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- NDFS5210 - Advanced Public Health Nutrition (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- PUBH4040 - Fundamentals of Epidemiology

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Public Health Elective or University Studies or Other Elective Courses (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	7 - 10
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Program Learning Outcomes

Program Learning Outcomes

https://www.usu.edu/ou-dev/science/assessment/

Master of Public Health: Public Health Nutrition Specialization - MPH

Program Overview

College	Department	Program Level
College of Agriculture & Natural Resources	Nutrition, Dietetics & Food Sciences	Graduate

About this Degree

Program Contact:

Mateja R. Savoie-Roskos, PhD, MPH, RD, FAND
Associate Dean for Academic Programs and Student Services; College of Agriculture and Applied Sciences

Associate Professor, MPH Program Director; Department of Nutrition, Dietetics and Food Sciences
mateja.savoie@usu.edu; 435-797-5777

Program Description

This 100% online Master of Public Health (MPH) in Public Health Nutrition degree includes interdisciplinary training in nutrition-related sciences and prepares students with skills and competencies essential for leadership and administrative positions in public health nutrition. Potential positions include public health nutritionist, nutritional epidemiologist, program coordinator, public health educator, executive director, and nutrition services supervisor. These positions can be found in a variety of governmental, academic, nonprofit, and for-profit settings, including state and local public health departments, colleges and universities, health care organizations, Women, Infants, and Children (WIC), food banks, food pantries, nutrition education programs such as SNAP-Ed and EFNEP, community action agencies, and anti-hunger/poverty organizations, among many others.

Students learn about designing, implementing, and evaluating nutrition-related programs and policies to improve the health and well-being of local, national, and global populations. The land grant setting of Utah State University provides unique opportunities for the study of the relationship between human nutritional status and health with strong academic and research programs in nutritional epidemiology, federal, and community nutrition programs, USU Extension nutrition outreach programs, food science, food safety, agricultural practices, animal health, climate change, environmental sciences and much more. This program is 100% online, so students can complete the program from anywhere around the world. This program can be pursued part-time or full-time.

The MPH Public Health Nutrition program is considered a professional non-thesis (Plan C) program. Students must complete an Applied Practice Experience (APE) and write a capstone paper, also known as the Integrative Learning Experience (ILE). Students should contact their advisor early in their program to start planning their APE and ILE, to ensure that all degree requirements will be met, and that all appropriate paperwork has been sent to the School of Graduate Studies (SGS).

The USU Public Health Nutrition and Veterinary Public Health MPH programs are accredited Council on Education for Public Health (CEPH) programs. This accreditation addresses the Public Health Nutrition and Veterinary Public Health MPH concentrations only. Other degrees and areas of study offered are not included in the unit of accreditation review. Please visit CEPH.org to learn more.

Admission Requirements for this Program

Admission requirements can be found on the USU School of Graduate Studies website (https://gradschool.usu.edu/admissions/policies). Students are also required to have completed and passed undergraduate courses in statistics and human nutrition. Students are expected to be admitted to the program as matriculated students before taking coursework leading to the degree.

Additional information about the MPH Public Health Nutrition program may be obtained by contacting the Department of Nutrition, Dietetics and Food Sciences or by visiting the program website at https://qanr.usu.edu/mph/public-health-nutrition.

Program Requirements

Total Credits Required In Program Coursework
42

Total Credits Required To Earn This Credential
42

Simple Requisites

Program Requirements

- **Degree Verification:** A bachelor's degree from an accredited U.S. college or university or a similarly recognized international university is required for admission to and completion of a graduate program. An official transcript must be sent directly to the School of Graduate Studies.
- **Overall Graduate GPA at least 3.0 and no grades of C- or lower:** Graduate students are required to maintain at least a 3.0 GPA for degree-program courses. Grades of C- or lower will not be accepted for a graduate degree.
- **Course Number Acceptability:** The program of study for a master's degree cannot include more than 12 semester credits of courses below the 6000 level. Credits in the following areas are not acceptable in a degree program: foreign languages (unless included in an approved Program of Study), continuing graduate advisement, individual home study, military science, and courses numbered below 5000.
- **Matriculation Start Semester:** A master's degree must be completed within six years of entering the degree program. Additional time may be requested by the student's advisor and submitted to the Vice Provost of Graduate Studies for review.
- **Coursework Validity:** Coursework over eight years old at the time of degree completion may not be used for a graduate degree unless it is revalidated.
- **Master's forms:** Approval of the Program of Study is required by the School of Graduate Studies.
- **Plan C (Non-Thesis):**
    1. Program of Study

Students in the MPH Public Health Nutrition program are required to take 42 credits, 3 of which are electives. The 42-credit requirement is an established credit requirement by the Council on Education for Public Health. Students with a bachelor's degree from a CEPH-accredited public health program can take an alternative course to NDFS6140 INTRODUCTION TO PUBLIC HEALTH since they would have fulfilled these foundational public health knowledge competencies in their undergraduate program.

MPH Public Health Nutrition Degree Plan (42 credits)

Type
Completion Requirement

Foundational Competency Courses (21 credits)

Complete ALL of the following Courses:

- NDFS6140 - Introduction to Public Health - 3cr.
- NDFS6240 - Program Planning and Evaluation in Public Health - 3cr.
- NDFS6280 - Public Health Administration and Leadership - 3cr.
- NDFS6540 - Introduction to Epidemiology and Biostatistics - 3cr.
- NDFS6550 - Public Health Policy and Advocacy - 3cr.
- NDFS6810 - Social Determinants of Health - 3cr.
- VCLS6020 - One Health: People, Animals, and the Environment - 3cr.

Concentration Competency Courses (18 credits)

Complete ALL of the following Courses:

- NDFS6010 - Hunger Issues and Solutions - 3cr.
- NDFS6200 - Nutritional Epidemiology - 3cr.
- NDFS6210 - Advanced Public Health Nutrition - 3cr.
- NDFS6230 - Communicating Current Topics in Public Health - 3cr.
- NDFS6600 - Current Topics in Obesity - 3cr.
- NDFS6850 - Applied Practice Experience in Public Health Nutrition - 3cr.

Students who start the program in this catalog year must take 3 credits of NDFS6850 APPLIED PRACTICE EXPERIENCE

Elective Courses (3 credits)

Students are required to take 3 credits of electives from courses that advance knowledge or skills that align with the field of public health nutrition. These courses may be offered by any department across campus. This list is not comprehensive. Students are advised to work with their MPH advisor to find additional elective options that may align with their career goals and interests in public health.

Complete ANY of the following Courses:

- NDFS6320 - Advanced Sports Nutrition - 3cr.
- NDFS6470 - Global Public Health - 3cr.
- NDFS6580 - Application of Research Principles in Dietetics - 3cr.
- NDFS6800 - Counseling and Motivational Interviewing for Health Professionals - 3cr.
- VCLS6000 - Ecology and Health: Case Studies of Relationships Between the Environment, Organisms, and Health - 3cr.
- ASTE6220 - Volunteer Programs and Partnerships - 3cr.
- ASTE6920 - Communication Tools for Extension - 3cr.

Program Requirements

Fulfill ALL of the following requirements:

- Successful completion of Applied Practice Experience (APE)
- Successful completion of Integrative Learning Experience (ILE)

Program Learning Outcomes

Program Learning Outcomes
https://qanr.usu.edu/ndfs/assessment

Master of Public Health: Veterinary Public Health Specialization - MPH

Program Overview

College
College of Agriculture & Natural Resources

Department
Animal, Dairy & Veterinary Sciences

Program Level
Graduate

About this Degree

Program Contact:

E. Jane Kelly, DVM, MS, MPH, DACVPM, DACVM

Clinical Professor in the Veterinary Clinical and Life Sciences Department, Veterinary Diagnostician and Microbiologist at the Utah Veterinary Diagnostic Laboratory

jane.kelly@usu.edu

Program Description

This 100% online Master of Public Health (MPH) in Veterinary Public Health degree includes interdisciplinary training in veterinary-related public health science and prepares students with skills and competencies essential for leadership and administrative positions in the epidemiology of zoonotic diseases, food safety, and the wildlife-domestic animal-human interface. The Master of Public Health (MPH) in Veterinary Public Health program offers specialized training in the emerging public health discipline of One Health. Students learn how to work with veterinarians, ecologists, and physicians to monitor and control public health threats by applying the core disciplines of public health and specialized knowledge of veterinary medicine to learn how diseases spread among people, animals and the environment. The land grant setting of Utah State University provides unique resources for the Master of Public Health (MPH) in Veterinary Public Health program with the College of Veterinary Medicine, agricultural extension programs, the Utah Veterinary Diagnostic Laboratories, as well as strong academic programs in climate sciences, ecology, and natural resources. This program is 100% online, so students can complete the program from anywhere around the world. This program can be pursued part-time or full-time.

The Master of Public Health (MPH) in Veterinary Public Health is considered a professional program (Plan C) program. Students must complete an Applied Practice Experience (APE) and write a capstone paper, also known as the Integrative Learning Experience (ILE). Students should contact their advisor early in their program to start planning their APE and ILE, to ensure that all degree requirements will be met, and that all appropriate paperwork has been sent to the School of Graduate Studies (SGS).

The USU Public Health Nutrition and Veterinary Public Health MPH programs are accredited Council on Education for Public Health (CEPH) programs. This accreditation addresses the Public Health Nutrition and Veterinary Public Health MPH concentrations only. Other degrees and areas of study offered are not included in the unit of accreditation review. Please visit CEPH.org to learn more.

Admission Requirements for this Program

Admission requirements can be found on the USU School of Graduate Studies website. Applicants do NOT have to be veterinarians or interested in becoming veterinarians to be admitted to or benefit from this program. Students are expected to be admitted to the program as matriculated students before taking coursework leading to the degree.

Additional information about the Master of Public Health (MPH) in Veterinary Public Health program may be obtained by contacting the Veterinary Clinical and Life Sciences Department or by visiting the program website.

Program Requirements

Total Credits Required In Program Coursework
42

Total Credits Required To Earn This Credential
42

Simple Requisites

Program Requirements

- **Degree Verification:** A bachelor's degree from an accredited U.S. college or university or a similarly recognized international university is required for admission to and completion of a graduate program. An official transcript must be sent directly to the School of Graduate Studies.
- **Overall Graduate GPA at least 3.0 and no grades of C- or lower:** Graduate students are required to maintain at least a 3.0 GPA for degree-program courses. Grades of C- or lower will not be accepted for a graduate degree.
- **Course Number Acceptability:** The program of study for a master's degree cannot include more than 12 semester credits of courses below the 6000 level. Credits in the following areas are not acceptable in a degree program: foreign languages (unless included in an approved Program of Study), continuing graduate advisement, individual home study, military science, and courses numbered below 5000.
- **Matriculation Start Semester:** A master's degree must be completed within six years of entering the degree program. Additional time may be requested by the student's advisor and submitted to the Vice Provost of Graduate Studies for review.
- **Coursework Validity:** Coursework over eight years old at the time of degree completion may not be used for a graduate degree unless it is revalidated.
- **Master's forms:** Approval of academic forms required by the School of Graduate Studies.
- **Plan C (Non-Thesis)**
    - Program of Study

Students in the MPH Veterinary Public Health program are required to take 42 credits, 6 of which are electives. The 42-credit requirement is an established credit requirement by the Council on Education for Public Health. Students with a bachelor's degree from a CEPH-accredited public health program can take an alternative course to NDFS6140 INTRODUCTION TO PUBLIC HEALTH since they would have fulfilled these foundational public health knowledge competencies in their undergraduate program.

MPH Veterinary Public Health Degree Plan (42 credits)

Type
Completion Requirement

Foundational Competency Courses (21 credits)

Complete ALL of the following Courses:

- VCLS6020 - One Health: People, Animals, and the Environment - 3cr.
- NDFS6140 - Introduction to Public Health - 3cr.
- NDFS6240 - Program Planning and Evaluation in Public Health - 3cr.
- NDFS6280 - Public Health Administration and Leadership - 3cr.
- NDFS6540 - Introduction to Epidemiology and Biostatistics - 3cr.

- NDFS6550 - Public Health Policy and Advocacy - 3cr.
- NDFS6810 - Social Determinants of Health - 3cr.

Concentration Competency Courses (15 credits)

Complete ALL of the following Courses:

- VCLS6000 - Ecology and Health: Case Studies of Relationships Between the Environment, Organisms, and Health - 3cr.
- VCLS6010 - Applied Veterinary Epidemiology - 3cr.
- VCLS6110 - MPH Practicum - 3cr.
- VCLS6830 - Communicating and Evaluating Public Health Information: Case Studies in Environmental Health - 3cr.
- VCLS6840 - Epigenetics in Public Health - 3cr.

Elective Courses (6 credits)

Students are required to take 6 credits of electives from courses that advance knowledge or skills that align with the field of veterinary public health. These courses may be offered by any department across campus. This list is not comprehensive. Students are advised to work with their MPH advisor to find additional elective options that may align with their career goals and interests in public health.

Earn at least 6 credits from the following:

- ADVS6710 - Conceptualizing the Human-Animal Bond - 3cr.
- ADVS6720 - Animal-Assisted Interventions and Special Populations - 3cr.
- ADVS6730 - Welfare and Behavior of Animals in Animal-Assisted Interventions - 3cr.
- ASTE6220 - Volunteer Programs and Partnerships - 3cr.
- ASTE6370 - Grant Writing and Management - 3cr.
- HEP6450 - Research Methods in Population Health - 3cr.
- HEP6800 - Health Behavior - 3cr.
- NDFS6010 - Hunger Issues and Solutions - 3cr.
- NDFS6110 - Food Microbiology - 3cr.
- NDFS6170 - Food Safety and Quality: Food Safety Management - 1cr.
- NDFS6200 - Nutritional Epidemiology - 3cr.
- NDFS6210 - Advanced Public Health Nutrition - 3cr.
- NDFS6470 - Global Public Health - 3cr.
- NDFS6600 - Current Topics in Obesity - 3cr.
- NDFS6800 - Counseling and Motivational Interviewing for Health Professionals - 3cr.
- PSC6760 - Climate and Climate Change - 3cr.
- WILD6400 - Ecology of Animal Populations - 3cr.

Non - Course Requirements

Fulfill ALL of the following requirements:

- Successful completion of Applied Practice Experience (APE)
- Successful completion of Integrative Learning Experience (ILE)

As a result of successfully completing the requirements of the MPH degree, students will be prepared for leadership positions within local, state, and federal health agencies, the private industry, and non-profit organizations.

Program Learning Outcomes

Program Learning Outcomes

Students will demonstrate knowledge of biostatistics, epidemiology, environmental health, sociobehavioral public health, and public health policy and administration.

Students will demonstrate competency attainment through applied practice experiences in governmental, non-governmental, non-profit, industrial and for-profit settings or appropriate university-affiliated settings.

Welding Technology - Technical Certificate (formerly Certificate of Proficiency)

Program Overview

College
College of Agriculture & Natural Resources

Department
Technology, Design & Technical Ed

Program Level
Undergraduate

About this Degree

Federal Gainful Employment Information

USU Eastern's welding technology program offers unique opportunities for students interested in the field of welding to receive excellent instruction in hands-on welding skills, welding theory and scientific concepts, and to explore additional careers in the field of welding including inspection, engineering, and project management. In-depth instruction is provided in all common arc welding and cutting processes, such as: Gas Metal Arc Welding (GMAW), Flux-cored Arc Welding (FCAW), Gas Tungsten Arc Welding (GTAW), Shielded Metal Arc Welding (SMAW), Oxy-fuel Cutting (OFC), and Plasma Arc Cutting (PAC). Additional welding processes are explored and introduced including Submerged-Arc Welding (SAW), Resistance Spot Welding (RSW), Stud Welding (SW), Brazing, Soldering, and Carbon Arc Cutting (CAC-A). Print reading, weld inspection, welding metallurgy, and structural fabrication courses are also offered.

Successful students may work as welders locally or nationally, manage welding/fabrication shops, start their own welding businesses, explore careers in weld inspection, or seek baccalaureate and/or graduate degrees after graduation with welding as a program area of study.

The program offers a Welding Technology and a Welding Technology - AAS - additionally, many students choose to complete an Associate of Science (in addition to a Welding AAS) in order to more seamlessly transfer to baccalaureate and graduate programs.

Program Requirements

Total Credits Required In Program Coursework
18

Total Credits Required To Earn This Credential
18

Simple Requisites

Program Requirements

Welding Technology Course Requirements

Type
Completion Requirement

Application Courses (15 credits)

Earn at least 15 credits from the following:

- WELD1010 - Beginning Arc Welding - 3cr.
- WELD1100 - Shielded Metal Arc Welding (SMAW) - 5cr.
- WELD1110 - Advanced Shielded Metal Arc Welding (SMAW) - 5cr.
- WELD1120 - Beginning Gas Metal Arc Welding (GMAW) and Flux Cored Arc Welding (FCAW) - 5cr.
- WELD1140 - Related Welding Processes - 5cr.
- WELD1150 - Beginning Gas Tungsten Arc Welding (GTAW) - 5cr.
- WELD1550 - Weld Sculpture - 3cr.
- WELD2410 - Practical Fabrication and Layout - 5cr.

Theory Course (3 credits)

Take one theory course from the following course options:

Complete at least 1 of the following courses:

- WELD2400 - Print Reading for Welders - 3cr.
- WELD2500 - Weld Inspection - 3cr.
- WELD2600 - Metallurgy - 3cr.

Program Learning Outcomes

Program Learning Outcomes

https://caas.usu.edu/tdte/assessment/

Piano Pedagogy - Minor

Program Overview

College
College of Arts & Sciences

Department
Music

Program Level
Undergraduate

About this Degree

The Minor in Piano Pedagogy is designed for pianists who wish to build strong musicianship skills while preparing for independent piano teaching in both private studios and group settings. Through a balance of coursework and hands-on teaching experiences, the program provides practical tools for effective instruction and fosters professional readiness. By preparing well-rounded and capable piano teachers, the Piano Pedagogy Minor reflects USU's ongoing commitment to excellence in music education.

There is no official audition process required to declare the Piano Pedagogy Minor, making the program accessible to students from a variety of musical backgrounds. However, several of the required piano courses do require entrance exams to assess overall fluency, proficiency, and readiness to keep up with course requirements.

For more information on the degree and entrance expectations, contact Kevin Olson at kevin.olson@usu.edu.

Program Requirements

Total Credits Required To Earn This Credential

15

Simple Requisites

Program Requirements

Section 1

Type
Completion Requirement

Requirement 1 (3 credits)

Complete at least 1 of the following courses:

- MUSC1100 - Fundamentals of Music for Non-Music Majors (BCA) - 3cr.
  OR MUSC1110 - Music Theory I (BCA) - 3cr.
- MUSC2420 - Piano Literature I - 3cr.
- MUSC2430 - Piano Literature II - 3cr.
- MUSC2440 - Piano Literature III - 3cr.

NOTE:

1. MUSC1110 MUSIC THEORY I (BCA) (by entrance exam)

Requirement 2 (1 credit)

Complete at least 1 of the following courses:

- MUSC1180 - Keyboard Harmony II - 1cr.
- MUSC1270 - Keyboard Skills I - 1cr.

NOTE:

1. MUSC1180 KEYBOARD HARMONY II (Accelerated section)
2. MUSC1270 KEYBOARD SKILLS I (based on placement recommendation from instructor)

Requirement 3 (5 credits)

Complete ALL of the following Courses:

- MUSC1480 - Individual Piano Instruction for Nonmusic Majors - 1cr.
- MUSC1450 - Pedagogy Practicum - 1cr.

NOTE:

1. MUSC1480 PIANO INSTR-NONMAJOR (Take four semesters for 1 credit each)
2. MUSC1450 PEDAGOGY PRACTICUM (Take two semesters for 1 credit each)

Requirement 4 (6 credits)

Complete ALL of the following Courses:

- MUSC1430 - Piano Pedagogy I - 3cr.
- MUSC1440 - Piano Pedagogy II - 3cr.

Program Learning Outcomes

Program Learning Outcomes

https://www.usu.edu/oda/assessment/

Quantitative Finance - Minor

Program Overview

College
Jon M. Huntsman School of Business

Department
Economics and Finance

Program Level
Undergraduate

Program Requirements

Total Credits Required In Program Coursework
24

Total Credits Required To Earn This Credential
24

Simple Requisites

Program Requirements

The following courses are required for the Quantitative Finance Minor. There is no GPA requirement but all courses require a B- or better to fulfill the minor requirements.

Required Courses

Type
Completion Requirement

Required Courses

Complete ALL of the following Courses:

- FIN3200 - Corporate Finance (QI) - 3cr.
- FIN3300 - Investments - 3cr.
- FIN5480 - Derivatives Markets - 3cr.
- ECON5000 - Econometrics (QI) - 3cr.

Additional Course Options

Earn at least 6 credits from the following:

- FIN5750 - Equity Investment Strategies - 3cr.
- FIN5800 - Financial Analysis - 3cr.
- FIN5120 - Cryptocurrencies and FinTech - 3cr.
- ECON3060 - Mathematical Methods in Economics and Finance (QI) - 3cr.

Program Learning Outcomes

Program Learning Outcomes

https://huntsman.usu.edu/assessment/assessment-plan

Quality and Reliability - Institutional Certificate of Proficiency

Program Overview

College
College of Agriculture & Natural Resources

Department
Technology, Design & Technical Ed

Program Level
Undergraduate

About this Degree

The purpose of this institutional certificate is to support students wishing to pursue a career in quality management-related fields. This certificate will provide training in quality management systems, statistical process control, lean manufacturing, and root cause analysis.

This institutional certificate allows students to earn an industry-recognized credential that will qualify them for beginning-level careers in quality.

Program Requirements

Total Credits Required In Program Coursework
15

Total Credits Required To Earn This Credential
15

Simple Requisites

Program Requirements

Section 1

Type
Completion Requirement

Required Courses (15 credits)

Complete ALL of the following Courses:

- TESY4500 - Quality Management Systems - 3cr.
- TESY4510 - Quality Root Cause Analysis Methods and Applications - 3cr.
- TESY4520 - Statistical Quality Control w/SPC - 3cr.
- TESY4530 - Principles of Lean Manufacturing - 3cr.
- TESY4540 - Quality Management Systems II - 3cr.

Program Learning Outcomes

Program Learning Outcomes

https://caas.usu.edu/tdte/assessment/

Rehabilitation and Disability Studies - Post-Master's Certificate

Program Overview

College	Department	Program Level
College of Education & Human Services	Special Education & Rehab Counseling	Graduate

About this Degree

Post-Master's Certificate in Rehabilitation and Disability Studies

Program Director: Trenton Landon
Location: EDUC 322
Phone: 435-797-3269
FAX: 435-797-3572
E-mail: trent.landon@usu.edu

Program Advisor: Kris Wengreen
Location: EDUC 306
Phone: 435-797-3246
FAX: 435-797-3572
E-mail: kris.wengreen@usu.edu

USU provides the Certificate in Rehabilitation and Disability Studies for the Commission on Rehabilitation Counselor Certification (CRCC) Category 3.

- The program includes eight (9) courses. Students must take a minimum of 16 credits from these courses.
- All courses are offered via distance education (Live Zoom classes in the evenings, and Online/Asynchronous courses).
- Tuition: $517/credit hour
- CRCC Employment Requirement: Twelve (12) months of acceptable work experience under the supervision of a CRC, or twenty-four (24) months of acceptable work experience. Work experience does not need to be completed before applying for the program.
- For additional information on CRCC Category 3, see the CRCC website: https://crccertification.com/get-certified/
- Certificate can be completed in as few as three semesters. Courses are offered spring, summer, and fall semesters via distance education. Students have the flexibility to register for as many courses each semester as they desire.

Admission Requirements for this Program

To be eligible for certification in this Category you must have a master's, specialist, or doctoral degree in Counseling or Social Work. CRCC requires a pre-review of transcripts and work experience.

In order to gain admittance to the program, students must submit an application, application fee, official master's degree transcripts, statement of purpose, and resume. To apply, contact the program advisor, Kris Wengreen (kris.wengreen@usu.edu)

Program Requirements

Total Credits Required In Program Coursework
16

Total Credits Required To Earn This Credential
16

Simple Requisites

Program Requirements

16 credits

Rehabilitation and Disability Studies - Post-Bachelor's Certificate

Type
Completion Requirement

Rehabilitation & Disability Studies Certificate Core

Complete ALL of the following Courses:

- REH6100 - Professional Counseling Orientation - 3cr.
- REH6110 - Medical Aspects of Disability - 3cr.
- REH6120 - Psychosocial Aspects of Disability - 2cr.
- REH6150 - Case Management for Health Professions - 2cr.
- REH6160 - Career Development, Analysis and Placement - 3cr.
- REH6190 - Vocational Assessment in Rehabilitation Counseling - 3cr.
- REH6200 - Theories of Counseling - 3cr.
- REH6230 - Research in Clinical Rehabilitation Counseling - 3cr.
- REH6500 - Fundamental Skills for Transition Services - 3cr.

Program Learning Outcomes

Program Learning Outcomes
https://cehs.usu.edu/about/assessment

Ranch Horse Management - Certificate

Program Overview

College
College of Agriculture & Natural Resources

Department
Animal, Dairy & Veterinary Sciences

Program Level
Undergraduate

About this Degree

The Ranch Horse Management Certificate is offered only at the USU Blanding Campus. It will provide a foundation for students wishing to find careers in the equine industry, but also portions of the beef industry where horses are used in cattle management systems. The certificate of completion is also a beginning pathway for students who decide to purse an associate's degree in Agricultural Science or a bachelor's degree in Equine Science and Management.

Program Requirements

Total Credits Required In Program Coursework
30

Total Credits Required To Earn This Credential
30

Simple Requisites

Program Requirements

1. Attain a grade point average of at least 2.50 across all courses applied toward this certificate.
2. Courses required for the certificate may *not* be taken for a *pass/fail* grade except for courses that are only offered as pass/fail.
3. A minimum grade of C is required in all courses applied toward this certificate.

NOTE:

- Students must maintain a 2.5 GPA in ADVS prefix courses if they wish to move forward to obtain the Equine Science and Management BS degree.
- The following is a sample degree pathway. Students should meet with an academic advisor for individual plans.
- For further information about this program, contact Professor Jim Keyes at jim.keyes@usu.edu or (435) 678-8162.

Ranch Horse Management Course Requirements

Type
Completion Requirement

First Year Fall

Complete ALL of the following Courses:

- ENGL1010 - Writing as Inquiry (CL1) - 3cr.
- ADVS1110 - Introduction to Animal Science (BLS) - 3cr.
- ADVS1200 - Basic Horsemanship Skills - 3cr.
- ADVS1600 - Riding Fundamentals I - 3cr.
- ADVS2500 - Feeds and Feeding - 3cr.

First Year Spring

Complete ALL of the following Courses:

- ADVS2080 - Beef Production Practices - 3cr.
- ADVS2190 - Horse Production Practices - 3cr.
- ADVS2350 - Equine Marketing: Buying, Selling, Trading - 3cr.
- ADVS2400 - Riding Fundamentals II - Intermediate - 3cr.
- CMST2110 - Interpersonal Communication (BHU) - 3cr.

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Undergraduate Academic or Technical Certificates)

Program Learning Outcomes

Program Learning Outcomes

https://qanr.usu.edu/advs/assessment/

Range Science - MS

Program Overview

College
College of Agriculture & Natural Resources

Department
Wildland Resources

Program Level
Graduate

About this Degree

Students in this program study the science and application of ecological principles in rangeland environments. While the focus of range sciences at USU is primarily on the rangelands of the Great Basin, students will receive a broad background in various subjects in rangeland ecosystems. Students can study specific areas related to rangeland science, such as vegetation management, animal behavior, range ruminant nutrition, and restoration of rangelands. The program is integrated with other natural resource programs in the college focusing on forestry, wildlife, and ecology for a broad interdisciplinary experience.

The MS degree targets students motivated toward a management or administrative career in natural resources with an emphasis in range science. The Range Science MS degree may be obtained through either a Plan A (research thesis) or Plan B (paper) program. The MS Plan A requires the preparation and defense of a thesis and is best suited for students desiring research experience. The Plan B option requires the preparation and defense of a paper and is most appropriate for range science professionals who are not pursuing a research career path.

Department Head: Dr. Chris Keyes, chris.keyes@usu.edu
Graduate Program Coordinator: Stacey Brummer, 435-797-2503, stacey.brummer@usu.edu

Admission Requirements for this Program

Prior to applying, the prospective applicants must have a Wildland Resources faculty member agree to serve as their major (supervisory) advisor. It is recommended that interested applicants first contact specific faculty members with whom they are interested in working.

If the faculty member is accepting graduate students and agrees to serve as the major advisor, the applicant may then apply for admission through the School of Graduate Studies website. Applications are reviewed and processed on an ongoing basis.

Please note that funding is not provided by the Wildland Resources Department. Funding may be available through the major advisor, or a third party (such as an employer), or a student may be self-funded.

General Admission Requirements:

- A bachelor's degree from an accredited college
- A 3.0 GPA as calculated by the School of Graduate Studies.
- Completion of the formal application is required. This includes the submission of three letters of recommendation, a statement of purpose, and official transcripts from each college or university previously attended (except USU). The letter of recommendation request forms and statement of purpose prompt are included in the application materials.
- International Students: Please visit the School of Graduate Studies website for requirements.

Program Requirements

Total Credits Required In Program Coursework
30

Total Credits Required To Earn This Credential
30

Simple Requisites

Program Requirements

The Master of Science in Range Science program includes required course work, research, and the defense and submission of an original thesis (Plan A) or paper (Plan B).

The MS **Plan A** option includes a significant research component that leads to the production and defense of a thesis, which is submitted to the School of Graduate Studies for approval and then archived at the library. Students complete a required 6–15 thesis research credits, which support the development of their research and thesis. Thesis chapters frequently form the basis of papers prepared and submitted for publication in peer-reviewed journals by the student. Almost all MS students in the Wildland Resources department pursue a Plan A.

The MS **Plan B** option includes an extensive literature review that forms the basis of a paper. Plan B papers are defended but are not subject to the School of Graduate studies approval before submission to the library. Plan B students are required to complete 2-3 thesis research credits and take more coursework to fulfill the remaining credits.

Regardless of plan type, you will work closely with your major advisor and your supervisory committee to determine the trajectory of your research and the course work that will be most beneficial to you.

Department Requirements:

- **Completion of 30 required credit hours:** Only courses included on a supervisory committee approved Program of Study will count towards an MS degree. Please see specific course requirements under MS Plan A and MS Plan B below.
- **Presentation of Research Proposal**: Students must present a research proposal at the department Graduate Research Symposium.
- **Successful defense:** Students must successfully defend a Plan A research thesis or a Plan B paper.
- **Submission of thesis or paper**: Students must submit a Plan A research thesis or a Plan B paper to the School of Graduate Studies and library for review and approval. All thesis and paper submissions must follow the School of Graduate Studies Publication Guide and departmental requirements.

School of Graduate Studies (SGS) Requirements:

- **Completion of Required Forms:**
  - Supervisory Committee Approval
  - Program of Study
  - Master's Thesis Proposal/Project Approval
  - Appointment for Examination
  - Record of Examination (submitted by department office)
  - Format & Style form
  - Authorship & Copyright form
  - Title Page form
  - Application for Graduation
- **Completion of Required Trainings:** Students must complete all School of Graduate Studies required trainings, including Responsible Conduct of Research training.

- **Degree Verification:** A bachelor's degree from an accredited U.S. college or university or a similarly recognized international university is required for admission to and completion of a graduate program.
- **Minimum GPA Requirement:** Graduate students are required to maintain at least a 3.0 GPA for degree-program courses. Grades of C- or lower will not be accepted for a graduate degree.
- **Course Number Acceptability:** The Program of Study for a master's degree must include at least 18 semester credits at the level of 6000 or above. Credits in the following areas are not acceptable in a degree program: foreign languages (unless included in an approved Program of Study), continuing graduate advisement, individual home study, military science, and courses numbered below 5000.
- **Matriculation Start Semester:** A master's degree must be completed within six years of entering the degree program. Additional time may be requested by the student's committee and submitted to the Vice Provost of Graduate Studies for review.
- **Coursework Validity:** Coursework over eight years old at the time of degree completion may not be used for a graduate degree unless it is revalidated.

Degree Programs

Type
Completion Requirement

MS Plan A (Research Thesis) Course Requirements

Complete ALL of the following Courses:

- WILD6800 - Wildland Resources Departmental Seminar - 1cr.
- WILD6970 - Thesis Research - 1cr.
- 30 required credit hours (minimum) including:
  - 1 credit of WILD6800 WILD SEMINAR
  - 6-15 credits of WILD6970 THESIS RESEARCH
  - Remaining credits fulfilled via: Program of Study approved coursework

MS Plan B (Paper) Course Requirements

Complete ALL of the following Courses:

- WILD6800 - Wildland Resources Departmental Seminar - 1cr.
- WILD6970 - Thesis Research - 1cr.
- 30 required credit hours (minimum) including:
  - 1 credit of WILD6800 WILD SEMINAR
  - 2 but no more than 3 credits of WILD6970 THESIS RESEARCH
  - Remaining credits fulfilled via: Program of Study approved coursework

Program Learning Outcomes

Program Learning Outcomes
https://qcnr.usu.edu/wild/about/assessment/graduate

Range Science - PhD

Program Overview

College
College of Agriculture & Natural Resources

Department
Wildland Resources

Program Level
Graduate

About this Degree
Students in this program study the science and application of ecological principles in rangeland environments. While the focus of range sciences at USU is primarily on the rangelands of the Great Basin, students will receive a broad background in various subjects in rangeland ecosystems. Students can study specific areas related to rangeland science, such as vegetation management, animal behavior, range ruminant nutrition, and restoration of rangelands. The program is integrated with other natural resource programs in the college focusing on forestry, wildlife, and ecology for a broad interdisciplinary experience.

The PhD degree is intended for students seeking a research or academic career in range science. The Range Science PhD degree may be obtained through either a post-master's or post-baccalaureate program.

Department Head: Dr. Chris Keyes, chris.keyes@usu.edu
Graduate Program Coordinator: Stacey Brummer, 435-797-2503, stacey.brummer@usu.edu

Admission Requirements for this Program
Prior to applying, the prospective applicants must have a Wildland Resources faculty member agree to serve as their major (supervisory) advisor. It is recommended that interested applicants first contact specific faculty members with whom they are interested in working.

If the faculty member is accepting graduate students and agrees to serve as the major advisor, the applicant may then apply for admission through the School of Graduate Studies website. Applications are reviewed and processed on an ongoing basis.

Please note that funding is not provided by the Wildland Resources Department. Funding may be available through the major advisor, or a third party (such as an employer), or a student may be self-funded.

General Admission Requirements:

- A bachelor's degree from an accredited college
- A 3.0 GPA as calculated by the School of Graduate Studies.
- Completion of the formal application is required. This includes the submission of three letters of recommendation, a statement of purpose, and official transcripts from each college or university previously attended (except USU). The letter of recommendation request forms and statement of purpose prompt are included in the application materials.
- International Students: Please visit the School of Graduate Studies website for requirements.

Program Requirements

Total Credits Required In Program Coursework
30-60

Total Credits Required To Earn This Credential
30-60

Simple Requisites

Program Requirements

The Range Science PhD program includes required coursework, research, and the defense and submission of an original dissertation. In addition, you must achieve candidacy by successfully completing a comprehensive exam (comps), which assesses your ability to conduct independent research, and by submitting your research proposal. The PhD program may be pursued either post-master's or post-baccalaureate. The post-baccalaureate PhD requires additional credit hours, coursework, and increased guidance from your major advisor and committee.

To develop your dissertation research, you will work closely with your major advisor and supervisory committee to generate original ideas, refine research direction, and identify the coursework and professional activities that will be most beneficial to your progress. As you approach candidacy, you should demonstrate a strong command of the literature, creativity in hypothesis development, and proficiency in research design and data analysis.

Department Requirements:

- **Completion of required credit hours:** Students must complete a total 30 credit hours if pursuing a PhD post-master's or 60 credit hours if post-baccalaureate. Only courses included on a supervisory committee approved Program of Study will count towards a PhD degree. Please see specific course requirements under the PhD post master's and PhD post baccalaureate sections below.
- **Presentation of Research**: PhD students are required to present an initial research proposal and then biennial research updates at the department Graduate Research Symposium.
- **Successful defense:** Students must successfully defend a dissertation.
- **Submission of thesis or paper**: Students must submit a dissertation to the School of Graduate Studies and library for review and approval. All dissertation submissions must follow the School of Graduate Studies Publication Guide and departmental requirements.

School of Graduate Studies (SGS) Requirements:

- **Completion of Required Forms:**
    - Supervisory Committee Approval
    - Program of Study
    - Application of Candidacy Doctoral Degree
    - Appointment for Examination
    - Record of Examination (submitted by department office)
    - Format & Style form
    - Authorship & Copyright form
    - Title Page form
    - Application for Graduation
- **Completion of Required Trainings:** Students must complete all School of Graduate Studies required trainings, including Responsible Conduct of Research training.
- **Degree Verification:** A bachelor's degree and master's degree (if applicable) from an accredited U.S. college or university or a similarly recognized international university is required for admission to and completion of a graduate program.
- **Minimum GPA Requirement:** Graduate students are required to maintain at least a 3.0 GPA for degree-program courses. Grades of C- or lower will not be accepted for a graduate degree.
- **Course Number Acceptability:** The Program of Study for a master's degree must include at least 18 semester credits at the level of 6000 or above. Credits in the following areas are not acceptable in a degree program: foreign languages (unless included in an approved Program of Study), continuing graduate advisement, individual home study, military science, and courses numbered below 5000.
- **Matriculation Start Semester:** A PhD degree must be completed within eight years of entering the degree program. Additional time may be requested by the student's committee and submitted to the Vice Provost of Graduate Studies for review.
- **Coursework Validity:** Coursework over eight years old at the time of degree completion may not be used for a graduate degree unless it is revalidated.

Degree Programs

Type
Completion Requirement

PhD (post-master's) Course Requirements

Complete ALL of the following Courses:

- WILD7800 - Wildland Resources Departmental Seminar - 1cr.
- WILD7970 - Dissertation Research - 1cr.
- 30 required credit hours (minimum) including:
    - 1 credit of WILD7800 WILD SEMINAR
    - 12 credits minimum of WILD7970 DISSERTATION RESEARCH
    - Remaining credits fulfilled via: Program of Study approved coursework

PhD (post-baccalaureate) Course Requirements

Complete ALL of the following Courses:

- WILD7800 - Wildland Resources Departmental Seminar - 1cr.
- WILD7970 - Dissertation Research - 1cr.
- 60 required credit hours (minimum) including:
    - 1 credit of WILD7800 WILD SEMINAR
    - 18 credits minimum of WILD7970 DISSERTATION RESEARCH
    - Remaining credits fulfilled via: Program of Study approved coursework

Program Learning Outcomes

Program Learning Outcomes

https://qcnr.usu.edu/wild/about/assessment/graduate

Recreation Administration: Outdoor Adventure Leadership Emphasis - BS

Program Overview

College
College of Education & Human Services

Department
Kinesiology and Health Science

Program Level
Undergraduate

About this Degree

A degree in recreation administration is a valuable asset for those interested in pursuing careers in recreation and leisure. This program provides hands-on, experiential learning opportunities that prepare students for a profession focused on serving the needs of individuals and communities. Students have the option to specialize in areas such as sports management, outdoor adventure leadership, public recreation, or program and event planning. Through cooperative work experiences and internships, students can gain practical experience and build valuable industry connections. Upon completing their degree, graduates will be well-positioned to enter the dynamic and rewarding $2.9 trillion RAM industry, where they can make a positive impact on the well-being of individuals and communities.

The Outdoor Adventure Leadership (OAL) emphasis will prepare you to step into an entry-level position in the booming outdoor recreation industry in Utah and beyond. The OAL emphasis will expose you to industry skills and opportunities. USU RAM Alumni are making their mark in a wide range of settings, from USU Outdoor Programs, and Bridgerland Adventure Park to Deer Valley Ski Resort, and Outward Bound. Through courses designed to get you "out-there" you will be ready to take on exciting jobs in land, water, and air-based adventures. Plus, with nearly three-quarters of Utah residents participating in outdoor recreation each year, there is no shortage of opportunities to explore the state's incredible public lands and make a difference in the $12.3 billion Utah outdoor recreation industry. So why not turn your passion for adventure into a career? Enroll in this major and emphasis and start your Outdoor Adventure Leadership journey today.

Graduates of the program will be capable of leading, programming, directing, planning, designing, managing, and administering recreation experiences in a variety of settings.

- For more information about Recreation Administration, see the department website.
- Admitted and current students must meet with an advisor.
- Log on to Degree Works to check student-specific program progress.
- The highest math requirement for this degree is STAT1040 INTRO TO STATISTICS (QL) or STAT1045 INTRO STAT WITH ALGEBRA (QL) or STAT1080 FOUNDATIONS OF DATA SCI (QL).

Admission Requirements for this Program

- New freshmen: Admitted to USU in Good Standing
- Transfer students from other institutions or other programs at USU: 2.0 overall GPA

Program Requirements

Total Credits Required In Program Coursework
42

Total Credits Required To Earn This Credential
120

Simple Requisites

Program Requirements

- Students **must earn a C** or better in all required **RAM-prefix courses**.
- Pass/Fail grading is not allowed for required major courses, except for courses graded pass/fail only.
- A **2.0 overall GPA and a 2.5 major coursework GPA** are required for graduation.

Recreation Administration: Outdoor Adventure Leadership Emphasis - BS

Type
Completion Requirement

Core Required Courses (40 credits required)

Complete ALL of the following Courses:

- PE1543 - Wilderness First Aid - 1cr.
- RAM1000 - Introduction to Recreation Services - 2cr.
- RAM1500 - Leisure and Human Behavior (BSS) - 3cr.
- RAM1700 - Backcountry Basics: Designing a Backcountry Experience - 3cr.
- RAM2250 - RAM Cooperative Work Experience - 4cr.
- RAM2500 - Outdoor Recreation Management - 3cr.
- RAM3400 - Outdoor Education and Facilitation - 3cr.
- RAM3900 - Civic Engagement in Recreation and Sports - 3cr.
- RAM4200 - Community-Based Program Planning, Implementation, and Evaluation - 3cr.
- RAM4500 - Management of Recreation Services - 3cr.
- RAM4600 - Legal Issues and Risk Management of Recreation - 3cr.
- RAM4800 - Senior Seminar (CI) - 3cr.
- RAM4900 - Internship in Recreation Services - 6cr.

NOTE:

1. Most RAM-prefix major course requirements in this bachelor's program are offered only once per year, either fall only or spring only, with only a few exceptions. Because of this limited rotation, it is essential that students stay on track by meeting with their academic advisor every semester.

Required Electives (2 credits required)

Complete at least two credits in RAM 5900 and/or PE-prefix courses ranging from 1505 to 1615, totaling 2 credits minimum.

Earn at least 2 credits from the following:

- RAM5900 - Independent Study - 1cr.
- PE1505 - Kayaking - 1cr.
- PE1507 - Swiftwater Safety - 2cr.
- PE1508 - River Guide Preparation - 3cr.
- PE1509 - River Running I - 1cr.
- PE1510 - Fly Fishing - 1cr.
- PE1511 - Fly Tying Beginning - 1cr.
- PE1512 - Fly Tying Intermediate - 1cr.
- PE1513 - Fly Casting - 1cr.
- PE1514 - Fly Rod Building - 1cr.
- PE1520 - Hiking - 1cr.
- PE1527 - Rock Climbing: Basic - 1cr.
- PE1530 - Bouldering - 1cr.
- PE1543 - Wilderness First Aid - 1cr.
- PE1544 - Wilderness First Responder - 3cr.
- PE1547 - Avalanche AIARE 1 (Avy 1) - 2cr.
- PE1548 - Avalanche AIARE 2 (AVY 2) Course - 2cr.
- PE1549 - AIARE Avalanche Rescue - 1cr.
- PE1550 - Cycling - 1cr.
- PE1580 - Canyoneering I - 1cr.
- PE1605 - Skiing - 1cr.
- PE1615 - Snowboarding - 1cr.

Open Electives (0-48 estimated credits)

Complete the following as needed:
Total elective credit is determined by General Education courses taken, degree type selected, additional credits earned, and any additional math or other prerequisite courses needed. Please consult your Academic Advisor for details.

Minimum University Requirements

Minimum University Requirements
Minimum University Requirements (Bachelor's Degree)

Suggested Degree Maps

Degree Map Name
Suggested Degree Map - Recreation Administration: Outdoor Adventure Leadership Emphasis BS
Total Degree Map Credits
120 - 122
Degree Map Effective Catalog Year
2027 -

Degree Map Narrative

- Following is a sample four-year plan. Please note that student-specific plans may differ.
- Meet with an academic advisor to create a specific plan that best fits your academic needs.
- The student is ultimately responsible for knowing and completing all degree requirements.
- Make sure you meet the registration requirements for each class by clicking the course link and checking any prerequisites or corequisites.
- Consultation with an advisor may result in an altered plan customized for an individual student.
- Check your Degree Works for requirements and completion.

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	16 - 17	0

Requirement Select
- Communications Literacy (CL1) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- RAM1000 - Introduction to Recreation Services

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select
- RAM1500 - Leisure and Human Behavior (BSS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Breadth Life Sciences (BLS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Breadth Humanities (BHU) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- USU1010 - University Connections

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	15 - 16	0

Requirement Select

- Communications Literacy (CL2) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Breadth Social Sciences (BSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Breadth American Institutions (BAI) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Breadth Physical Sciences (BPS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	16	0

Requirement Select

- RAM2500 - Outdoor Recreation Management

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- RAM3900 - Civic Engagement in Recreation and Sports

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- RAM1700 - Backcountry Basics: Designing a Backcountry Experience

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Elective course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Breadth Creative Arts (BCA) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- PE1543 - Wilderness First Aid

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	15	0

Requirement Select

- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- RAM2250 - RAM Cooperative Work Experience

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- PE Elective Course from PE 1480-PE 1655 (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective Courses (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Fall	15	0

Requirement Select
- RAM4500 - Management of Recreation Services

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- RAM4200 - Community-Based Program Planning, Implementation, and Evaluation

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Depth Life and Physical Sciences (DSC) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Communications Intensive (CI) Courses

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Spring	15	0

Requirement Select
- RAM4600 - Legal Issues and Risk Management of Recreation

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- RAM3400 - Outdoor Education and Facilitation

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Upper-Division (3000 or higher level) Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Fall	15	0

Requirement Select
- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Depth Humanities and Creative Arts (DHA) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Upper-Division (3000 or higher level) Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Spring	13	0

Requirement Select
- RAM4900 - Internship in Recreation Services

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	6
Clinical	-
Criticality	No

Requirement Select
- RAM4800 - Senior Seminar (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- PE Elective Course from PE 1480-PE 1655 (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	Total Major Credits
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Program Learning Outcomes

Program Learning Outcomes
https://cehs.usu.edu/khs/assessment

Recreation Administration: Program and Event Management Emphasis - BS

Program Overview

College
College of Education & Human Services

Department
Kinesiology and Health Science

Program Level
Undergraduate

About this Degree

Program and Event Management prepares students to plan, deliver, and evaluate programs and events that create engaging experiences for diverse audiences. Students gain practical skills in event operations, marketing, budgeting, risk management, and guest experience through applied coursework and industry engagement. Graduates are prepared for careers in recreation and tourism, professional and nonprofit organizations, and resort or destination settings as event coordinators, program managers, and operations or guest experience professionals.

- For more information about Recreation Administration, see the department website.
- Admitted and current students must meet with an advisor.
- Log on to Degree Works to check student-specific program progress.
- The highest math requirement for this degree is STAT1040 INTRO TO STATISTICS (QL) or STAT1045 INTRO STAT WITH ALGEBRA (QL) or STAT1080 FOUNDATIONS OF DATA SCI (QL).

Admission Requirements for this Program

- New freshmen: Admitted to USU in Good Standing
- Transfer students from other institutions or other programs at USU: 2.0 overall GPA

Program Requirements

Total Credits Required In Program Coursework
42

Total Credits Required To Earn This Credential
120

Simple Requisites

Program Requirements

- Students must **earn a C** or better in all required **RAM-prefix courses**.
- Pass/Fail grading is not allowed for required major courses, except for those graded pass/fail.
- A **2.0 overall GPA and a 2.5 major coursework GPA** are required for graduation.

Recreation Administration: Program and Event Management Emphasis - BS

Type
Completion Requirement

Core Required Courses (42 required credits)

Complete ALL of the following Courses:

- RAM1000 - Introduction to Recreation Services - 2cr.
- RAM1500 - Leisure and Human Behavior (BSS) - 3cr.
- RAM2250 - RAM Cooperative Work Experience - 4cr.
- RAM3100 - Experience and Sport Promotion and Marketing - 3cr.
- HEP4400 - Community and Organizational Leadership, Policy, and Advocacy - 3cr.
- RAM3900 - Civic Engagement in Recreation and Sports - 3cr.
- RAM4000 - Experience and Event Design - 3cr.
- RAM4200 - Community-Based Program Planning, Implementation, and Evaluation - 3cr.
- RAM4400 - Recreation and Park Facility Planning and Management - 3cr.
- RAM4500 - Management of Recreation Services - 3cr.
- RAM4600 - Legal Issues and Risk Management of Recreation - 3cr.
- RAM4800 - Senior Seminar (CI) - 3cr.
- RAM4900 - Internship in Recreation Services - 6cr.

NOTE:

1. Most **RAM-prefix** major course requirements in this bachelor's program are offered only once per year, either fall only or spring only, with only a few exceptions. Because of this limited rotation, it is essential that students stay on track by meeting with their academic advisor every semester.

Open Electives (0-42 estimated credits)

Complete the following as needed:
Total elective credit is determined by General Education courses taken, degree type selected, additional credits earned, and any additional math or other prerequisite courses needed. Please consult your Academic Advisor for details.

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Bachelor's Degree)

Suggested Degree Maps

Degree Map Name
Suggested Degree Map - Recreation Administration: Program and Event Management Emphasis BS

Total Degree Map Credits
120 - 122

Degree Map Effective Catalog Year
2027 -

Degree Map Narrative

- Following is a sample four-year plan. Please note that student-specific plans may differ.
- Meet with an academic advisor to create a specific plan that best fits your academic needs.
- The student is ultimately responsible for knowing and completing all degree requirements.
- Make sure you meet the registration requirements for each class by clicking the course link and checking any prerequisites or corequisites.
- Consultation with an advisor may result in an altered plan customized for an individual student.
- Check your Degree Works for requirements and completion.

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	16 - 17	0

Requirement Select
- Communications Literacy (CL1) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- RAM1000 - Introduction to Recreation Services

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select
- RAM1500 - Leisure and Human Behavior (BSS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Breadth Life Sciences (BLS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Breadth Humanities (BHU) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- USU1010 - University Connections

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	15 - 16	0

Requirement Select
- Communications Literacy (CL2) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Quantitative Literacy (QL) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Breadth American Institutions (BAI) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Breadth Physical Sciences (BPS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Breadth Social Sciences (BSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	16	0

Requirement Select
- RAM2250 - RAM Cooperative Work Experience

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- RAM3900 - Civic Engagement in Recreation and Sports

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Breadth Creative Arts (BCA) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	15	0

Requirement Select

- HEP4400 - Community and Organizational Leadership, Policy, and Advocacy

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- RAM3100 - Experience and Sport Promotion and Marketing

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Fall	15	0

Requirement Select

- RAM4000 - Experience and Event Design

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- RAM4200 - Community-Based Program Planning, Implementation, and Evaluation

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Communications Intensive (CI) Courses

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Depth Life and Physical Sciences (DSC) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Spring	15	0

Requirement Select
- RAM4600 - Legal Issues and Risk Management of Recreation

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Elective Courses (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective Courses (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Fall	15	0

Requirement Select
- RAM4800 - Senior Seminar (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- RAM4500 - Management of Recreation Services

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- RAM4400 - Recreation and Park Facility Planning and Management

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Spring	13	0

Requirement Select
- RAM4900 - Internship in Recreation Services

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	6
Clinical	-
Criticality	No

Requirement Select
- Depth Humanities and Creative Arts (DHA) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	Total Major Credits
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Program Learning Outcomes

Program Learning Outcomes
https://cehs.usu.edu/khs/assessment

Recreation Administration: Public Recreation Emphasis - BS

Program Overview

College
College of Education & Human Services

Department
Kinesiology and Health Science

Program Level
Undergraduate

About this Degree
A degree in recreation administration (RAM) is a valuable asset for those interested in pursuing careers in recreation and leisure. This program provides hands-on, experiential learning opportunities that prepare students for a profession focused on serving the needs of individuals and communities. Students have the option to specialize in areas such as sports management, outdoor adventure leadership, public recreation, or program and event planning. Through cooperative work experiences and internships, students can gain practical experience and build valuable industry connections. Upon completing their degree, graduates will be well-positioned to enter the dynamic and rewarding $2. 9 trillion RAM industry, where they can make a positive impact on the well-being of individuals and communities.

The Public Recreation emphasis is designed to equip students with the skills and knowledge they need to take on leadership roles in the exciting world of public and non-profit recreation. In addition to a core set of classes in recreation administration, students will have the opportunity to specialize in areas such as park management, community outreach, and program development. Upon graduation, our alumni have gone on to work in a wide range of settings, from municipal recreation organizations and state parks to the National Parks Service and the Army Corps of Engineers. Join the ranks of our successful alumni and start your journey toward a rewarding career in public recreation management today!

Graduates of the program will be capable of leading, programming, directing, planning, designing, managing, and administering recreation experiences in a variety of settings

- For more information about Recreation Administration, see the department website.
- Admitted and current students must meet with an advisor.
- Log on to Degree Works to check student-specific program progress.
- The highest math requirement for this degree is STAT1040 INTRO TO STATISTICS (QL) or STAT1045 INTRO STAT WITH ALGEBRA (QL) or STAT1080 FOUNDATIONS OF DATA SCI (QL).

Admission Requirements for this Program
- New freshmen: Admitted to USU in Good Standing
- Transfer students from other institutions or other programs at USU: 2.0 Overall GPA

Program Requirements

Total Credits Required In Program Coursework
48

Total Credits Required To Earn This Credential
120

Simple Requisites

Program Requirements

- Students **must earn a C** or better in all required **RAM-prefix courses**.
- Pass/Fail grading is not allowed for required major courses.

- A **2.0 overall GPA and a 2.5 major coursework GPA** are required for graduation.

Recreation Administration: Public Recreation Emphasis - BS

Type
Completion Requirement

Core Required Courses (42 credits required)

Must complete all the following and earn a grade of C or better in all the required RAM-prefix courses. Reminder: Must maintain a minimum 2.5 major coursework GPA.

Complete ALL of the following Courses:

- RAM1000 - Introduction to Recreation Services - 2cr.
- RAM1500 - Leisure and Human Behavior (BSS) - 3cr.
- RAM2250 - RAM Cooperative Work Experience - 4cr.
- RAM3100 - Experience and Sport Promotion and Marketing - 3cr.
- RAM3400 - Outdoor Education and Facilitation - 3cr. **OR** HEP4400 - Community and Organizational Leadership, Policy, and Advocacy - 3cr.
- RAM3900 - Civic Engagement in Recreation and Sports - 3cr.
- RAM4000 - Experience and Event Design - 3cr.
- RAM4200 - Community-Based Program Planning, Implementation, and Evaluation - 3cr.
- RAM4400 - Recreation and Park Facility Planning and Management - 3cr.
- RAM4500 - Management of Recreation Services - 3cr.
- RAM4600 - Legal Issues and Risk Management of Recreation - 3cr.
- RAM4800 - Senior Seminar (CI) - 3cr.
- RAM4900 - Internship in Recreation Services - 6cr.

NOTE:

1. RAM3400 OUTDOOR EDUC & FACILITATION or RAM4400 REC/PARK FACILTY PLAN/MGT - May take either course, see advisor for approval.
2. Most RAM-prefix major course requirements in this bachelor's program are offered only once per year, either fall only or spring only, with only a few exceptions. Because of this limited rotation, it is essential that students stay on track by meeting with their academic advisor every semester.

Required Electives (6 credits total required)

Complete at least two or more of the following, totaling 6 credits minimum.

Complete at least 6 of the following courses:

- HDFS3570 - Youth and Adolescence - 3cr.
- HEP2500 - Health and Wellness - 2cr.
- HEP3400 - Stress Management - 3cr.
- KIN3000 - Principles of Health and Fitness - 3cr.
- KIN4000 - Mental Aspects of Sports Performance - 3cr.
- MGT3850 - Sports Management - 2cr.
- RAM1700 - Backcountry Basics: Designing a Backcountry Experience - 3cr.
- RAM2500 - Outdoor Recreation Management - 3cr.
- RAM5130 - Data Analytics and Data Driven Decision Making in Sports - 3cr.

Open Electives (0-37 estimated credits)

Complete the following as needed:

Total elective credit is determined by General Education courses taken, degree type selected, additional credits earned, and any additional math or other prerequisite courses needed. Please consult your Academic Advisor for details.

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Bachelor's Degree)

Suggested Degree Maps

Degree Map Name
Suggested Degree Map - Recreation Administration: Public Recreation Emphasis BS
Total Degree Map Credits
120 - 121
Degree Map Effective Catalog Year
2027 -

Degree Map Narrative

- Following is a sample four-year plan. Please note that student-specific plans may differ.
- Meet with an academic advisor to create a specific plan that best fits your academic needs.
- The student is ultimately responsible for knowing and completing all degree requirements.
- Make sure you meet the registration requirements for each class by clicking the course link and checking any prerequisites or corequisites.
- Consultation with an advisor may result in an altered plan customized for an individual student.
- Check your Degree Works for requirements and completion.

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	16 - 17	0

Requirement Select

- Communications Literacy (CL1) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- RAM1000 - Introduction to Recreation Services

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select

- RAM1500 - Leisure and Human Behavior (BSS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Breadth Life Sciences (BLS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Breadth Humanities (BHU) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- USU1010 - University Connections

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	15	0

Requirement Select

- Communications Literacy (CL2) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Breadth American Institutions (BAI) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Breadth Physical Sciences (BPS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Elective course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	16	0

Requirement Select

- RAM2250 - RAM Cooperative Work Experience

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- RAM3900 - Civic Engagement in Recreation and Sports

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Breadth Creative Arts (BCA) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Quantitative Literacy (QL) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Elective course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	15	0

Requirement Select

- RAM3400 - Outdoor Education and Facilitation

  OR
- HEP4400 - Community and Organizational Leadership, Policy, and Advocacy

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- RAM3100 - Experience and Sport Promotion and Marketing

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Elective course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Elective course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Elective course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Fall	15	0

Requirement Select

- RAM4000 - Experience and Event Design

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- RAM4200 - Community-Based Program Planning, Implementation, and Evaluation

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Depth Life and Physical Sciences (DSC) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Communications Intensive (CI) Courses

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Spring	15	0

Requirement Select
- RAM4600 - Legal Issues and Risk Management of Recreation

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Emphasis Required Elective (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Fall	15	0

Requirement Select
- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- RAM4500 - Management of Recreation Services

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- RAM4400 - Recreation and Park Facility Planning and Management

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Emphasis Required Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Spring	13	0

Requirement Select

- RAM4900 - Internship in Recreation Services

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	6
Clinical	-
Criticality	No

Requirement Select

- Depth Humanities and Creative Arts (DHA) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- RAM4800 - Senior Seminar (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Program Learning Outcomes

Program Learning Outcomes

https://cehs.usu.edu/khs/assessment

Recreation Administration - Sport Management - BS

Program Overview

College
College of Education & Human Services

Department
Kinesiology and Health Science

Program Level
Undergraduate

About this Degree

A degree in recreation administration (RAM) is a valuable asset for those interested in pursuing careers in recreation and leisure. This program provides hands-on, experiential learning opportunities that prepare students for a profession focused on serving the needs of individuals and communities. Students have the option to specialize in areas such as sports management, outdoor adventure leadership, public recreation, or program and event planning. Through cooperative work experiences and internships, students can gain practical experience and build valuable industry connections. Upon completing their degree, graduates will be well-positioned to enter the dynamic and rewarding $2. 9 trillion RAM industry, where they can make a positive impact on the well-being of individuals and communities.

The Sport Management emphasis is your ticket to a thrilling career in the world of sports! Our program will equip you with the skills and knowledge you need to succeed in the collegiate, professional, and recreational sport industries. In addition to a core set of classes in recreation administration, you'll have the opportunity to specialize in areas such as event planning, sports marketing, and athlete management. Our alumni have gone on to work for top organizations such as Real Salt Lake, the Utah Jazz, Minor League Baseball, community recreational sport organizations, and more. Don't miss your chance to join the ranks of our successful graduates and start your journey toward a dynamic career in the exciting world of sports!

Graduates of the program will be capable of leading, programming, directing, planning, designing, managing, and administering recreation experiences in a variety of settings.

- For more information about Recreation Administration, see the department website.
- Admitted and current students must meet with an advisor.
- Log on to Degree Works to check student-specific program progress.
- The highest math requirement for this degree is STAT1040 INTRO TO STATISTICS (QL) or STAT1045 INTRO STAT WITH ALGEBRA (QL) or STAT1080 FOUNDATIONS OF DATA SCI (QL).

Admission Requirements for this Program

- New freshmen: Admitted to USU in Good Standing
- Transfer students from other institutions or other programs at USU: **2.0 Overall GPA**

Program Requirements

Total Credits Required In Program Coursework
69

Total Credits Required To Earn This Credential
120

Simple Requisites

Program Requirements

- Students **must earn a C** or better in all required **RAM-prefix courses**.
- Pass/Fail grading is not allowed for required major courses except for those graded as pass/fail.
- A **2.0 overall GPA and a 2.5 major coursework GPA** are required for graduation.

Recreation Administration - Sport Management - BS

Type
Completion Requirement

Core Required Courses (59 credits)

Complete ALL of the following Courses:

- KIN4000 - Mental Aspects of Sports Performance - 3cr.
- KIN5430 - History and Philosophy of Physical Activity and Sport (CI) - 3cr.
- RAM1000 - Introduction to Recreation Services - 2cr.
- RAM1500 - Leisure and Human Behavior (BSS) - 3cr.
- RAM1888 - Leadership from the Sideline - 2cr.
- RAM2000 - Recreational Sport Management - 3cr.
- RAM2250 - RAM Cooperative Work Experience - 4cr.
- RAM2300 - Fundamentals of Sport Management - 3cr.
- RAM3100 - Experience and Sport Promotion and Marketing - 3cr.
- RAM3400 - Outdoor Education and Facilitation - 3cr.
  OR HEP4400 - Community and Organizational Leadership, Policy, and Advocacy - 3cr.
- RAM3900 - Civic Engagement in Recreation and Sports - 3cr.
- RAM4000 - Experience and Event Design - 3cr.
- RAM4200 - Community-Based Program Planning, Implementation, and Evaluation - 3cr.
- RAM4400 - Recreation and Park Facility Planning and Management - 3cr.
- RAM4500 - Management of Recreation Services - 3cr.
- RAM4600 - Legal Issues and Risk Management of Recreation - 3cr.
- RAM4800 - Senior Seminar (CI) - 3cr.
- RAM4900 - Internship in Recreation Services - 6cr.
- RAM5130 - Data Analytics and Data Driven Decision Making in Sports - 3cr.

NOTE:

1. RAM3400 OUTDOOR EDUC & FACILITATION or HEP4400 LEADERSHIP & ADVOCACY - May take either course, see advisor for approval.
2. Most RAM-prefix major course requirements in this bachelor's program are offered only once per year, either fall only or spring only, with only a few exceptions. Because of this limited rotation, it is essential that students stay on track by meeting with their academic advisor every semester.

Business Foundations (10 credits)

Students are strongly recommended to complete **DATA 1100** and **DATA 2100 before** enrolling in **RAM 5130**, as these courses provide the foundational data skills and preparation needed for the rigor of RAM 5130.

Complete ALL of the following Courses:

- ACCT2010 - Financial Accounting Principles - 3cr.
- DATA1100 - Excel for Business Analysis - 1cr.
  AND DATA2100 - Data and Information in Business - 3cr.
- ECN1500 - Introduction to Macroeconomics - 3cr.

NOTE:

1. It is recommended to take DATA1100 EXCEL BUSINESS ANALYSIS and DATA2100 DATA OF INFORMATION BUSINESS concurrently in the same semester.

Open Electives (0-18 estimated credits)

Complete the following as needed:
Total elective credit is determined by General Education courses taken, degree type selected, additional credits earned, and any additional math or other prerequisite courses needed. Please consult your Academic Advisor for details.

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Bachelor's Degree)

Suggested Degree Maps

Degree Map Name
Suggested Degree Map - Recreation Administration: Sport Management Emphasis BS
Total Degree Map Credits
120 - 121
Degree Map Effective Catalog Year
2027 -

Degree Map Narrative

- Following is a sample four-year plan. Please note that student-specific plans may differ.
- Meet with an academic advisor to create a specific plan that best fits your academic needs.
- The student is ultimately responsible for knowing and completing all degree requirements.
- Make sure you meet the registration requirements for each class by clicking the course link and checking any prerequisites or corequisites.
- Consultation with an advisor may result in an altered plan customized for an individual student.
- Check your Degree Works for requirements and completion.

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	16 - 17	0

Requirement Select
- Communications Literacy (CL1) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- RAM1000 - Introduction to Recreation Services

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select
- RAM1500 - Leisure and Human Behavior (BSS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Breadth Life Sciences (BLS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Breadth Humanities (BHU) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- USU1010 - University Connections

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	16	0

Requirement Select

- Communications Literacy (CL2) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Quantitative Literacy (QL) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- RAM2300 - Fundamentals of Sport Management

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Breadth American Institutions (BAI) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Breadth Physical Sciences (BPS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	14	0

Requirement Select

- RAM2000 - Recreational Sport Management

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- ACCT2010 - Financial Accounting Principles

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- RAM1888 - Leadership from the Sideline

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select

- Breadth Creative Arts (BCA) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- ECON2020 - Introduction to Macroeconomics (BAI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	15	0

Requirement Select

- DATA1100 - Excel for Business Analysis
- **AND** DATA2100 - Data and Information in Business

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- RAM2250 - RAM Cooperative Work Experience

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- RAM3100 - Experience and Sport Promotion and Marketing

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- ACCT2010 - Financial Accounting Principles

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Elective course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Fall	15	0

Requirement Select

- RAM4000 - Experience and Event Design

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- RAM4200 - Community-Based Program Planning, Implementation, and Evaluation

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- RAM3900 - Civic Engagement in Recreation and Sports

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- KIN4000 - Mental Aspects of Sports Performance

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Depth Life and Physical Sciences (DSC) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Spring	15	0

Requirement Select

- RAM4600 - Legal Issues and Risk Management of Recreation

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- KIN5430 - History and Philosophy of Physical Activity and Sport (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- RAM3400 - Outdoor Education and Facilitation
  OR
- HEP4400 - Community and Organizational Leadership, Policy, and Advocacy

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Fall	15	0

Requirement Select
- RAM4500 - Management of Recreation Services

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- RAM4400 - Recreation and Park Facility Planning and Management

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Spring	14	0

Requirement Select
- RAM4900 - Internship in Recreation Services

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	6
Clinical	-
Criticality	No

Requirement Select
- Depth Humanities and Creative Arts (DHA) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- RAM5130 - Data Analytics and Data Driven Decision Making in Sports

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- RAM4800 - Senior Seminar (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Program Learning Outcomes

Program Learning Outcomes
https://cehs.usu.edu/khs/assessment

Ranch Economics and Management - BS

Program Overview

College	Department	Program Level
College of Agriculture & Natural Resources	Applied Economics	Undergraduate

About this Degree

The Bachelor of Science in Ranch Economics and Management at Utah State University is designed to give you the competitive edge you need to thrive in the modern ranching industry.

Whether you're managing a family-owned ranch or working in large-scale operations, this degree equips you with essential skills in applied economics, livestock management, and resource stewardship. Unlike other programs, our focus on the unique challenges of ranching in the Intermountain West—particularly on public lands—makes USU the ideal choice for aspiring ranch managers who want to make a real impact.

Why Choose USU for Ranch Economics and Management?

At Utah State University, we are dedicated to providing an education that combines academic excellence with real-world application. As the only university in Utah offering a specialized Ranch Management Economics degree, USU stands out for its commitment to student success and innovative learning. Our program is developed in collaboration with ranching industry leaders, ensuring that the curriculum is always relevant to the evolving demands of ranching and land management.

- **Learn from Experts:** USU's faculty bring a wealth of experience in agribusiness, animal science, and rangeland management. With access to these experts, you'll gain the tools needed to make efficient decisions, optimize resources, and manage risks.
- **Real-World Experience:** Our program offers hands-on learning opportunities, including internships and fieldwork, so you can apply classroom knowledge to real ranching scenarios.
- **Location Advantage:** USU is ideally situated in the heart of Utah's ranching region, offering unparalleled access to rangelands and public lands where many ranching operations take place.

Accreditation and Recognition: Utah State University has a long history of excellence in agriculture and natural resource programs, and our Ranch Economics and Management degree continues this tradition of leadership in the field.

What you will Learn

As a student in this program, you'll develop critical skills in economic analysis, agribusiness, and resource management. You'll learn how to make informed decisions that balance profitability with the wise stewardship of resources—a skillset that is increasingly important in today's ranching industry. Whether your goal is to manage ranches efficiently, improve livestock production, or optimize the use of public lands, this degree provides a solid foundation for a rewarding career in ranch management.

You'll gain a diverse set of skills and competencies essential for effective ranch management. Through a blend of coursework and hands-on experience, you'll develop expertise in the following key areas:

- **Economic Decision-Making:** Learn how to use economic tools to make informed decisions that improve ranch profitability while ensuring the efficient use of resources.
- **Agribusiness Fundamentals:** Build a strong foundation in business principles, including financial management, risk assessment, and marketing, all tailored to the ranching industry.
- **Rangeland and Livestock Management:** Gain practical knowledge of livestock production, forage management, and the principles of rangeland ecology to optimize land use and animal health.

- **Public Lands and Resource Stewardship:** Understand the complexities of ranching on public lands and develop strategies for the wise stewardship of natural resources, ensuring long-term viability.
- **Agricultural Law and Policy:** Get familiar with the legal and regulatory frameworks that govern ranching operations, including policies related to land use, water rights, and environmental considerations.

With a focus on practical applications, this program ensures that you will graduate ready to manage a ranch, make impactful decisions, and contribute to the future of ranching in the Intermountain West.

Admitted students must meet with an advisor. Current students should also meet with an advisor and log on to Degree Works to check student-specific program progress. For more detailed information about courses, the recommended sequence for taking them and the selection of QANR electives, see the APEC academic advisor, Abby Macbeth, abby.macbeth@usu.edu, 435-797-0454.

Admission Requirements for this Program

New freshmen: Admitted to USU in Good Standing

Transfer students from other institutions or other programs at USU: 2.50 GPA

Program Requirements

Total Credits Required In Program Coursework

78-79

Total Credits Required To Earn This Credential

120

Simple Requisites

Program Requirements

Ranch Economics and Management - BS Course Requirements

Type

Completion Requirement

Required Courses (72-73 credits)

Complete ALL of the following Courses:

- ACCT2010 - Financial Accounting Principles - 3cr.
- ACCT2020 - Managerial Accounting Principles - 3cr.
- ADVS1110 - Introduction to Animal Science (BLS) - 3cr.
- ADVS2080 - Beef Production Practices - 3cr.
  OR ADVS2090 - Sheep Production Practices - 3cr.
- ADVS2200 - Anatomy and Physiology of Animals - 3cr.
- ADVS2500 - Feeds and Feeding - 3cr.
- APEC1600 - Natural Resources and American Economic Institutions (BAI) - 3cr.
- APEC2010 - Introduction to Microeconomics (BSS) - 3cr.
- APEC2120 - Small Firm Accounting Basics - 3cr.
- APEC2310 - Small Firm Management - 3cr.
- APEC2500 - Commodity Futures and Options Trading and Analysis - 3cr.
- APEC2900 - Agricultural and Natural Resource Law - 3cr.
- APEC3010 - Agricultural Economics (DSS) - 3cr.
  OR APEC3012 - Introduction to Natural Resource Economics (DSS) - 3cr.
- APEC3310 - Analytical Methods in Applied Economics (QI) - 3cr.
  OR STAT2000 - Statistical Methods (QI) - 4cr.
- APEC4250 - Applied Economics Internship - 1cr.
- APEC4310 - Agribusiness Finance - 3cr.
- APEC5010 - Firm Marketing and Price Analysis (QI) - 3cr.
- APEC5150 - Advanced Agricultural Credit Analysis - 3cr.
- APEC5250 - Advanced Ranch Economics & Management - 3cr.
- APEC5940 - U.S. Agricultural Policy Analysis - 3cr.
- BIOL1610 - Biology I - 3cr.
- BIOL1615 - Biology I Laboratory - 1cr.
- MATH1050 - College Algebra (QL) - 4cr.
- WILD4000 - Principles of Rangeland Management - 3cr.

Additional Courses (6 credits)

Earn at least 6 credits from the following:

- ADVS3000 - Animal Health and Hygiene - 3cr.
- ADVS3500 - Principles of Animal Nutrition - 3cr.
- ADVS4310 - Animal Growth and Development - 3cr.
- ADVS4560 - Principles of Animal Genetics and Breeding (QI) - 3cr.
- ADVS5080 - Beef Cattle Management - 3cr.
- ADVS5090 - Sheep Management and Wool Technology - 3cr.
- APEC5950 - Applied Economics Policy Analysis - 3cr.
- PSC4320 - Forage Production and Pasture Management - 3cr.
- WILD5340 - Range Ruminant Nutrition and Management - 3cr.
- WILD5860 - Poisonous Range Plants Affecting Livestock - 3cr.
- ***Other approved elective 2-3 credits***

Open Electives

Complete the following as needed:
Total elective credit is determined by General Education courses taken, degree type selected, additional credits earned, and any additional math or other prerequisite courses needed. Please consult your Academic Advisor for details.

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Bachelor's Degree)

Suggested Degree Maps

Degree Map Name
Suggested Degree Map - Ranch Economics and Management BS
Total Degree Map Credits
116 - 117
Degree Map Effective Catalog Year
2027 -

Degree Map Narrative

- Following is a sample four-year plan. Please note that student-specific plans may differ.
- Meet with an academic advisor to create a specific plan that best fits your academic needs.
- The student is ultimately responsible for knowing and completing all degree requirements.
- Make sure you meet the registration requirements for each class by clicking the course link and checking any prerequisites or corequisites.
- Consultation with an advisor may result in an altered plan customized for an individual student.

- Check your Degree Works for requirements and completion.

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	15	0

Requirement Select
- APEC1600 - Natural Resources and American Economic Institutions (BAI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- BIOL1610 - Biology I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- BIOL1615 - Biology I Laboratory

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- Breadth Humanities (BHU) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Communications Literacy (CL1) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective course (2 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	15	0

Requirement Select
- APEC2010 - Introduction to Microeconomics (BSS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Breadth Creative Arts (BCA) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Communications Literacy (CL2) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective Credit (1 credit) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- ACCT2010 - Financial Accounting Principles

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Elective credit (2 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	15	0

Requirement Select
- ADVS1110 - Introduction to Animal Science (BLS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- APEC2500 - Commodity Futures and Options Trading and Analysis

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Elective Credit (2 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- ACCT2020 - Managerial Accounting Principles

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Breadth Physical Sciences (BPS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective Credit (1 credit) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	15	0

Requirement Select
- ADVS2080 - Beef Production Practices

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- ADVS2200 - Anatomy and Physiology of Animals

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Elective Credit (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- MATH1050 - College Algebra (QL)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- Elective Credit (1 credit) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Fall	14 - 15	0

Requirement Select
- APEC3010 - Agricultural Economics (DSS)
  OR
- APEC3012 - Introduction to Natural Resource Economics (DSS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- APEC3310 - Analytical Methods in Applied Economics (QI)
  OR
- STAT2000 - Statistical Methods (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 4
Progress Credits	-
Contact Hours	3 - 4
Clinical	-
Criticality	No

Requirement Select

- ADVS2500 - Feeds and Feeding

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Elective Credit (2 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- ADVS, APEC, or WILD Elective (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Spring	15	0

Requirement Select

- APEC2900 - Agricultural and Natural Resource Law

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Depth Humanities and Creative Arts (DHA) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Depth Life and Physical Sciences (DSC) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Elective Credit (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- WILD4000 - Principles of Rangeland Management

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Fall	15	0

Requirement Select
- APEC4310 - Agribusiness Finance

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- APEC5010 - Firm Marketing and Price Analysis (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- PSC4320 - Forage Production and Pasture Management

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- ADVS Elective credit (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- APEC4250 - Applied Economics Internship

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	1 - 3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Spring	12	0

Requirement Select
- ADVS, APEC, or WILD Elective (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- APEC5150 - Advanced Agricultural Credit Analysis

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- APEC5250 - Advanced Ranch Economics & Management

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- APEC5940 - U.S. Agricultural Policy Analysis

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Program Learning Outcomes

Program Learning Outcomes
https://www.usu.edu/oda/assessment/

Religious Studies - Minor

Program Overview

College	Department	Program Level
College of Arts & Sciences	History, Cultures & Ideas	Undergraduate

Program Requirements

Total Credits Required To Earn This Credential
15

Simple Requisites

Program Requirements

Students seeking a minor in Religious Studies must have a 2.5 GPA to declare the minor and must complete 15 credits with a minimum grade of C or better.

Religious Studies - Minor

Type
Completion Requirement

Required Course (3 credits)

Complete ALL of the following Courses:
- RELS1010 - Introduction to Religious Studies (BHU) - 3cr.

Group A (3 credits)

Students must take one course from group A.

Fulfill ANY of the following requirements:

Buddhism

Complete at least 1 of the following courses:
- RELS3010 - Introduction to Buddhism (DHA) - 3cr.
  OR HIST3010 - Introduction to Buddhism (DHA) - 3cr.
- RELS4015 - Buddhism and the West - 3cr.
  OR HIST4015 - Buddhism and the West - 3cr.
- RELS4555 - Women in Buddhism - 3cr.
  OR HIST4555 - Women in Buddhism - 3cr.

OR

East Asian Traditions

Complete at least 1 of the following courses:
- RELS3482 - Ancient China to 1800 (DHA) - 3cr.
  OR HIST3482 - Ancient China to 1800 (DHA) - 3cr.
- PHIL3710 - Philosophies of East Asia - 3cr.

OR

Hinduism

Complete at least 1 of the following courses:
- RELS3020 - Introduction to Hinduism (DHA) - 3cr.
  OR HIST3020 - Introduction to Hinduism (DHA) - 3cr.
- RELS3420 - Gods and Goddesses of India - 3cr.
- RELS3820 - Hindu Sacred Texts (CI) - 3cr.

OR

Indigenous Traditions

Complete at least 1 of the following courses:

- RELS3090 - Introduction to Shamanism: Shamanic Healing for Personal and Planetary Transformation - 3cr.
  OR ANTH3090 - Introduction to Shamanism: Shamanic Healing for Personal and Planetary Transformation - 3cr.
- ANTH2011 - Introduction to Peoples of the Southwest (BHU) - 3cr.
- ANTH2018 - Introduction to Native American History and Culture (BSS) - 3cr.
- ANTH3110 - North American Indian Cultures (DSS) - 3cr.
- ANTH5110 - Southwest Indian Cultures, Past and Present (DSS) - 3cr.
  OR NAS1010 - Introduction to Native American Studies (BHU) - 3cr.
- HIST2018 - Introduction to Native American History and Culture (BSS) - 3cr.

Group B (3 credits)

Students must take one course from group B.

Fulfill ANY of the following requirements:

Christianity

Complete at least 1 of the following courses:

- RELS3050 - Introduction to Christianity (DHA) - 3cr.
- RELS3290 - Studying the New Testament - 3cr.
- RELS4230 - The History of Christianity in the West (DHA/CI) - 3cr.
  OR HIST4230 - The History of Christianity in the West (DHA/CI) - 3cr.

OR

Islam

Complete at least 1 of the following courses:

- RELS3030 - Introduction to Islam (DHA) - 3cr.
  OR HIST3030 - Introduction to Islam (DHA) - 3cr.
  OR ARBC3030 - Introduction to Islam (DHA) - 3cr.
- RELS4560 - Women in Islam (DHA) - 3cr.
  OR HIST4560 - Women in Islam (DHA) - 3cr.
- RELS4565 - Medieval Islam (DHA) - 3cr.
  OR HIST4565 - Medieval Islam (DHA) - 3cr.
- RELS4566 - Global Faces of Islam (DHA) - 3cr.
  OR HIST4566 - Global Faces of Islam (DHA) - 3cr.

OR

Judaism

Complete at least 1 of the following courses:

- RELS3060 - Introduction to Judaism (DHA) - 3cr.
  OR HIST3060 - Introduction to Judaism (DHA) - 3cr.
- RELS3160 - Anthropology of Religion (DSS) - 3cr.

OR

Mormonism

Complete at least 1 of the following courses:

- RELS3080 - Mormonism and the American Religious Experience (DHA) - 3cr.
  OR HIST3080 - Mormonism and the American Religious Experience (DHA) - 3cr.

Religious Studies Elective Courses (6 credits)

Students may pick additional courses from either the religious traditions courses listed above OR from any of the courses listed below, however, the 2 additional courses required must be courses that the student has not already taken.

Earn at least 6 credits from the following:

- ARTH2710 - Survey of Western Art: Prehistoric to Medieval (BHU) - 3cr.
- ARTH3620 - Early Christian and Byzantine Art (DHA) - 3cr.
- ARTH3630 - Medieval Art (CI/DHA) - 3cr.
- HIST3150 - Roman History (CI) - 3cr.
- HIST3230 - Early Modern Europe (DHA) - 3cr.
- HIST3850 - History of Utah (DHA/CI) - 3cr.
- HIST4250 - The Reformation in Britain: 1450-1688 - 3cr.
- HIST4710 - American Indian History - 3cr.
- HIST4711 - Northern Ute History (DHA) - 3cr.
- LING2500 - Language & Religion - 3cr.
- PHIL1320 - The Good Life (BHU) - 3cr.
- PHIL2600 - Introduction to Philosophy of Religions (BHU) - 3cr.
- PHIL3010 - Survey of Ancient and Medieval Philosophy (CI) - 3cr.
- PHIL3600 - Philosophy of Religion (DHA) - 3cr.
- PHIL4250 - Tolkien and Lewis on Myth and Truth - 3cr.
- RELS1070 - Religion, Violence, and Peace (BHU) - 3cr.
- RELS1090 - Introduction to Interfaith Leadership (BHU) - 3cr.
  OR ANTH1090 - Introduction to Interfaith Leadership (BHU) - 3cr.
- RELS2050 - The Historical Jesus in a First Century Jewish Context - 3cr.
  OR RELS3125 - Religion & Science: Examining a Complex History of Interaction - 3cr.
- RELS3160 - Anthropology of Religion (DSS) - 3cr.
  OR ANTH3160 - Anthropology of Religion (DSS) - 3cr.
- RELS3165 - Bridging Religious Difference in Theory and Practice: an Introduction to Interfaith Leadership - 3cr.
  OR ANTH3165 - Bridging Religious Difference in Theory and Practice: an Introduction to Interfaith Leadership - 3cr.
- RELS3170 - Descent and Return: Ancient Views of Hades and the Afterlife - 3cr.
  OR CLAS3170 - Descent and Return: Ancient Views of Hades and the Afterlife - 3cr.
  OR HIST3170 - Descent and Return: Ancient Views of Hades and the Afterlife - 3cr.
- RELS3210 - Classical Mythology - 3cr.
  OR HIST3210 - Classical Mythology - 3cr.
- RELS3220 - Medieval European Civilization, 500-1500 (DHA/CI) - 3cr.
  OR HIST3220 - Medieval European Civilization, 500-1500 (DHA/CI) - 3cr.
- RELS3270 - The Crusades (DHA) - 3cr.
  OR HIST3270 - The Crusades (DHA) - 3cr.
- RELS3410 - The Modern Middle East - 3cr.
  OR HIST3410 - The Modern Middle East - 3cr.
- RELS3430 - History of Ancient Religions - 3cr.
  OR HIST3430 - History of Ancient Religions - 3cr.
- RELS3456 - History of South Asia (DHA) - 3cr.
  OR HIST3456 - History of South Asia (DHA) - 3cr.
- RELS3470 - Religion and Politics in South Asia - 3cr.
  OR HIST3470 - Religion and Politics in South Asia - 3cr.

- RELS3510 - Islamic Visual Cultures (CI/DHA) - 3cr.
  OR ARTH3510 - Islamic Visual Cultures (CI/DHA) - 3cr.
- RELS3830 - The History of Yoga - 3cr.
  OR HIST3830 - The History of Yoga - 3cr.
- RELS4350 - Greek Intellectual History - 3cr.
  OR HIST4350 - Greek Intellectual History - 3cr.
- RELS4520 - Religious Studies Editing Internship - 1cr.
- RELS4730 - History of Black America (CI) - 3cr.
  OR HIST4730 - History of Black America (CI) - 3cr.
- RELS4790 - American Religious History - 3cr.
  OR HIST4790 - American Religious History - 3cr.
- RELS4825 - Historical Roots of the War on Terror (DHA) - 3cr.
  OR HIST4825 - Historical Roots of the War on Terror (DHA) - 3cr.
- RELS4910 - Special Topics in Religious Studies - 1cr.
- RELS4930 - Directed Readings - 1cr.
- RELS5195 - Interfaith Leadership Practicum Experience - 3cr.
- RELS5740 - Art and Religion: Topics in Sacred Art - 3cr.
  OR ARTH5740 - Art and Religion: Topics in Sacred Art - 3cr.

Program Learning Outcomes

Program Learning Outcomes

https://chass.usu.edu/religious-studies/assessments

Religious Studies - BA, BS

Program Overview

College	Department	Program Level
College of Arts & Sciences	History, Cultures & Ideas	Undergraduate

About this Degree

Religious studies majors learn to be thoughtful about the influence of religion upon culture and the influence of culture upon religion.

They learn to analyze the influence of religious values and concepts on individuals and communities. They gain competence in thinking about how humans make meaning in the face of confusing and sometimes painful realities. Through examining these and other issues concerning religion, students develop strong research, communication, and imaginative skills that are highly valued by employers.

Students receive a BS by completing all required courses in the major. To receive a BA, students must also gain proficiency in one or more foreign languages.

- For more information about Religious Studies, see the Religious Studies website.
- Admitted and current students must meet with an academic advisor, Stacey Kelly, (435) 797-3883, stacey.kelly@usu.edu
- Log on to Degree Works to check student-specific program progress.
- The highest math requirement for this degree is the Quantitative Literacy (QL) and Quantitative Intensive (QI) of the student's choice.

Admission Requirements for this Program

- First Year Students: Admitted to USU in Good Standing
- Transfer students from other institutions or other programs at USU: 2.5 GPA

Program Requirements

Total Credits Required In Program Coursework	Total Credits Required To Earn This Credential
36	120

Simple Requisites

Program Requirements

Bachelor of Science Degree
Students desiring a (BS) Bachelor of Science degree must complete all of the requirements below.

Bachelor of Arts Degree
In addition to completion of the requirements for a bachelor's degree, a Bachelor of Arts (BA) degree signifies proficiency in one or more foreign languages. Specifically, the BA requirement may be completed in one of the following ways:

- Demonstration of proficiency in one foreign language by successful completion of one course at the 2020-level or higher (or its equivalent) **OR**
- Demonstration of proficiency in American Sign Language by successful completion of American Sign Language IV (**ASL4920 AMERICAN SIGN LANGUAGE IV**) and Socio-Cultural Aspects of Deafness (**ASL4780 DEAF CULTURE**), and by passing an exit interview **OR**

- Demonstration of proficiency in two foreign languages by successful completion of the 1020 course level or higher in one language **and** the 2010 course level or higher in the second language (or its equivalent) **OR**
- Completion of an upper-division (3000-level or higher) foreign language grammar or literature course requiring the 2020 course level (or its equivalent) as a prerequisite. Conversation courses cannot be considered for satisfying this requirement.

For non-native English-speaking students only, the following options are available:

- Successful completion of the Intensive English Language Institute (IELI) program for international students OR
- TOEFL, IELTS, other USU approved exam, or IELI placement scores high enough to meet the university admission criteria.

Program Director: Patrick Mason
Location: Main 321U
Phone: (435) 797-0572
FAX: (435) 797-3899
TTY: (435) 797-1290
E-mail: patrick.mason@usu.edu
www.religiousstudies.usu.edu

College of CHaSS Advising Center: Stacey Kelly
Location: MAIN 106
Phone: (435) 797-3883
E-mail: stacey.kelly@usu.edu

Utah State University, 0107 Old Main Hill
Logan, UT 84322-0107
www.chassadvising.usu.edu

Additional Information
Minimum GPA for Graduation: 2.5, Major; 2.0, Cumulative
Minimum Grade Accepted: *C* in all major requirements

Students must complete at least 33 credits in interdisciplinary coursework. A grade of *C* or better must be earned in all classes used for the major. Major requirements may not be taken for a pass/fail grade.

Required Courses in Major (36 credits)

To earn the BS or BA in Religious Studies, students must successfully complete 36 credits (12 courses), as follows:

Required Courses in Major (36 credits)

Type
Completion Requirement

Core Courses (6 credits)

Students must take both core Religious Studies courses, preferably in sequence:

Complete ALL of the following Courses:
- RELS1010 - Introduction to Religious Studies (BHU) - 3cr.
- RELS4990 - Religious Studies Senior Seminar - 3cr.

Traditions Courses (12 credits)

Students must take courses focusing on at least four different religious traditions, with at least one course from both of the following groups:

Fulfill ALL of the following requirements:

Group A

Fulfill ANY of the following requirements:

Buddhism

Complete ANY of the following Courses:
- RELS3010 - Introduction to Buddhism (DHA) - 3cr.
  OR HIST3010 - Introduction to Buddhism (DHA) - 3cr.
- RELS4015 - Buddhism and the West - 3cr.
  OR HIST4015 - Buddhism and the West - 3cr.
- RELS4555 - Women in Buddhism - 3cr.
  OR HIST4555 - Women in Buddhism - 3cr.

OR

East Asian Traditions

Complete ANY of the following Courses:
- RELS3482 - Ancient China to 1800 (DHA) - 3cr.
  OR HIST3482 - Ancient China to 1800 (DHA) - 3cr.
- PHIL3710 - Philosophies of East Asia - 3cr.

OR

Hinduism

Complete ANY of the following Courses:
- RELS3020 - Introduction to Hinduism (DHA) - 3cr.
  OR HIST3020 - Introduction to Hinduism (DHA) - 3cr.
- RELS3420 - Gods and Goddesses of India - 3cr.
- RELS3820 - Hindu Sacred Texts (CI) - 3cr.

OR

Indigenous Traditions

Complete ANY of the following Courses:
- ANTH2011 - Introduction to Peoples of the Southwest (BHU) - 3cr.
- ANTH2018 - Introduction to Native American History and Culture (BSS) - 3cr.
  OR HIST2018 - Introduction to Native American History and Culture (BSS) - 3cr.
- ANTH3110 - North American Indian Cultures (DSS) - 3cr.
- ANTH5110 - Southwest Indian Cultures, Past and Present (DSS) - 3cr.
- NAS1010 - Introduction to Native American Studies (BHU) - 3cr.

AND

Group B

Fulfill ANY of the following requirements:

Christianity

Complete ALL of the following Courses:
- RELS3050 - Introduction to Christianity (DHA) - 3cr.
- RELS3290 - Studying the New Testament - 3cr.
- RELS4230 - The History of Christianity in the West (DHA/CI) - 3cr.
  OR HIST4230 - The History of Christianity in the West (DHA/CI) - 3cr.

OR

Islam

Complete ANY of the following Courses:

- RELS3030 - Introduction to Islam (DHA) - 3cr.
  OR HIST3030 - Introduction to Islam (DHA) - 3cr.
  OR ARBC3030 - Introduction to Islam (DHA) - 3cr.
- RELS4560 - Women in Islam (DHA) - 3cr.
  OR HIST4560 - Women in Islam (DHA) - 3cr.
- RELS4565 - Medieval Islam (DHA) - 3cr.
  OR HIST4566 - Global Faces of Islam (DHA) - 3cr.
- RELS4566 - Global Faces of Islam (DHA) - 3cr.
  OR HIST4566 - Global Faces of Islam (DHA) - 3cr.

OR

Judaism

Complete ANY of the following Courses:

- RELS3060 - Introduction to Judaism (DHA) - 3cr.
  OR HIST3060 - Introduction to Judaism (DHA) - 3cr.
- RELS3190 - The Old Testament: The Hebrew Bible in Context - 3cr.

OR

Mormonism

Complete ALL of the following Courses:

- RELS3080 - Mormonism and the American Religious Experience (DHA) - 3cr.
  OR HIST3080 - Mormonism and the American Religious Experience (DHA) - 3cr.

Religious Studies Elective Courses (18 credits)

Students may choose any of the courses listed above (not already taken), or any of the courses listed below. Courses are subject to change, and students should consult with their academic advisor when selecting courses.

Earn at least 18 credits from the following:

- ANTH4160 - Evolution of Religion: The Cognitive Science of Religion and Faith - 3cr.
- ARTH2710 - Survey of Western Art: Prehistoric to Medieval (BHU) - 3cr.
- ARTH3620 - Early Christian and Byzantine Art (DHA) - 3cr.
- ARTH3630 - Medieval Art (CI/DHA) - 3cr.
- HIST3150 - Roman History (CI) - 3cr.
- HIST3230 - Early Modern Europe (DHA) - 3cr.
- HIST3850 - History of Utah (DHA/CI) - 3cr.
- HIST4250 - The Reformation in Britain: 1450-1688 - 3cr.
- HIST4710 - American Indian History - 3cr.
- HIST4711 - Northern Ute History (DHA) - 3cr.
- LING2500 - Language & Religion - 3cr.
- PHIL1320 - The Good Life (BHU) - 3cr.
- PHIL2600 - Introduction to Philosophy of Religions (BHU) - 3cr.
- PHIL3010 - Survey of Ancient and Medieval Philosophy (CI) - 3cr.
- PHIL3600 - Philosophy of Religion (DHA) - 3cr.
- PHIL4250 - Tolkien and Lewis on Myth and Truth - 3cr.
- RELS1070 - Religion, Violence, and Peace (BHU) - 3cr.
- RELS1090 - Introduction to Interfaith Leadership (BHU) - 3cr.
  OR ANTH1090 - Introduction to Interfaith Leadership (BHU) - 3cr.
- RELS2050 - The Historical Jesus in a First Century Jewish Context - 3cr.
- RELS3125 - Religion & Science: Examining a Complex History of Interaction - 3cr.
- RELS3160 - Anthropology of Religion (DSS) - 3cr.
  OR ANTH3160 - Anthropology of Religion (DSS) - 3cr.
- RELS3165 - Bridging Religious Difference in Theory and Practice: an Introduction to Interfaith Leadership - 3cr.
  OR ANTH3165 - Bridging Religious Difference in Theory and Practice: an Introduction to Interfaith Leadership - 3cr.
- RELS3170 - Descent and Return: Ancient Views of Hades and the Afterlife - 3cr.
  OR HIST3170 - Descent and Return: Ancient Views of Hades and the Afterlife - 3cr.
  OR CLAS3170 - Descent and Return: Ancient Views of Hades and the Afterlife - 3cr.
- RELS3210 - Classical Mythology - 3cr.
  OR HIST3210 - Classical Mythology - 3cr.
- RELS3220 - Medieval European Civilization, 500-1500 (DHA/CI) - 3cr.
  OR HIST3220 - Medieval European Civilization, 500-1500 (DHA/CI) - 3cr.
- RELS3270 - The Crusades (DHA) - 3cr.
  OR HIST3270 - The Crusades (DHA) - 3cr.
- RELS3410 - The Modern Middle East - 3cr.
  OR HIST3410 - The Modern Middle East - 3cr.
- RELS3430 - History of Ancient Religions - 3cr.
- RELS3456 - History of South Asia (DHA) - 3cr.
- RELS3470 - Religion and Politics in South Asia - 3cr.
  OR HIST3470 - Religion and Politics in South Asia - 3cr.
- RELS3510 - Islamic Visual Cultures (CI/DHA) - 3cr.
  OR ARTH3510 - Islamic Visual Cultures (CI/DHA) - 3cr.
- RELS3830 - The History of Yoga - 3cr.
  OR HIST3830 - The History of Yoga - 3cr.
- RELS4350 - Greek Intellectual History - 3cr.
  OR HIST4350 - Greek Intellectual History - 3cr.
- RELS4520 - Religious Studies Editing Internship - 1cr.
- RELS4730 - History of Black America (CI) - 3cr.
  OR HIST4730 - History of Black America (CI) - 3cr.
- RELS4790 - American Religious History - 3cr.
  OR HIST4790 - American Religious History - 3cr.
- RELS4825 - Historical Roots of the War on Terror (DHA) - 3cr.
  OR HIST4825 - Historical Roots of the War on Terror (DHA) - 3cr.
- RELS4910 - Special Topics in Religious Studies - 1cr.
- RELS4930 - Directed Readings - 1cr.
- RELS5195 - Interfaith Leadership Practicum Experience - 3cr.
- RELS5740 - Art and Religion: Topics in Sacred Art - 3cr.
  OR ARTH5740 - Art and Religion: Topics in Sacred Art - 3cr.

NOTE:

1. RELS4930 DIRECTED READINGS - This course may only be taken once to fulfill major requirements unless special permission is obtained.

Open Electives

Complete the following as needed:
Total elective credit is determined by General Education courses taken, degree type selected, additional credits earned, and any additional math or other prerequisite courses needed. Please consult your Academic Advisor for details.

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Bachelor's Degree)

Suggested Degree Maps

Degree Map Name
Suggested Degree Map - Religious Studies BA, BS
Total Degree Map Credits
117 - 123
Degree Map Effective Catalog Year
2026 -

Degree Map Narrative

- Following is a sample four-year plan. Please note that student-specific plans may differ.
- Meet with an academic advisor to create a specific plan that best fits your academic needs.
- The student is ultimately responsible for knowing and completing all degree requirements.
- Make sure you meet the registration requirements for each class by clicking the course link and checking any prerequisites or corequisites.
- Consultation with an advisor may result in an altered plan customized for an individual student.
- Check your Degree Works for requirements and completion.

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	15 - 17	0

Requirement Select
- ENGL1010 - Writing as Inquiry (CL1)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- RELS1010 - Introduction to Religious Studies (BHU)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Quantitative Literacy (QL) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 5
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- STAT 1040, STAT 1045, STAT 1080, MATH 1030, or MATH 1050 recommended for QL (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Breadth Social Sciences (BSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	15	0

Requirement Select
- RELS Traditions Course (1 of 4) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Breadth Creative Arts (BCA) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Breadth Life Sciences (BLS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Breadth Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	15 - 16	0

Requirement Select
- ENGL2010 - Research and Argument Across Perspectives (CL2)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- RELS Traditions Course (2 of 4) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Breadth Physical Sciences (BPS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Language or BS Requirement (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Elective course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	15 - 16	0

Requirement Select

- RELS Traditions Course (3 of 4) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Language or BS Requirement (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Breadth American Institutions (BAI) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Religious Studies Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Fall	12 - 13	0

Requirement Select

- RELS Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Language or BS Requirement (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Depth Social Sciences (DSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Communications Intensive (CI) Courses

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Spring	15 - 16	0

Requirement Select
- RELS Traditions Course (4 of 4) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- RELS Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Language or BS Requirement (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Depth Life and Physical Sciences (DSC) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Quantitative Intensive (QI) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Fall	15	0

Requirement Select
- BS Requirement Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- RELS Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Communications Intensive (CI) Courses

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Spring	15	0

Requirement Select
- RELS4990 - Religious Studies Senior Seminar

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- RELS Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Program Learning Outcomes

Program Learning Outcomes

https://artsci.usu.edu/history-cultures-ideas/history/assessments-resources/history-and-history-teaching/learning-objectives

Rangeland Ecology and Management - BS

Program Overview

College
College of Agriculture & Natural Resources

Department
Wildland Resources

Program Level
Undergraduate

About this Degree

Range scientists and managers deal with natural resources on rangelands, which are the grasslands, deserts, woodlands, wetlands, and tundras that occupy a significant land area in the United States and around the world.

Students learn to manage and conserve rangeland resources to ensure the sustained output of products and values, such as habitat for a wide variety of plant and animal life, forage for livestock and wildlife, water for agricultural and municipal use, and scenic beauty for recreational activities. This degree program also teaches students how to restore lands damaged by past misuse.

- For more information about Rangeland Ecology and Management, see the website.
- Admitted and current students must meet with an academic advisor for help with semester by semester planning, connections to co-curricular experiences, understanding of USU policies, and accessing USU resources.
- Log on to Degree Works to check student-specific program progress.
- The highest math requirement for this degree is STAT2000 STATISTICAL METHODS (QI) or STAT3000 STATISTICS FOR SCIENTISTS (QI)

Admission Requirements for this Program

- New freshmen: Admitted to USU in Good Standing
- Transfer students from other institutions or other programs at USU: 2.5 GPA

Program Requirements

Total Credits Required In Program Coursework
94

Total Credits Required To Earn This Credential
120

Simple Requisites

Program Requirements

All courses required for the major must be taken on an A-B-C-D-F basis. A grade of C- or better is required for all courses taken in the major department, as well as STAT2000 STATISTICAL METHODS (QI) or STAT3000 STATISTICS FOR SCIENTISTS (QI). The grade point average for all courses taught by the College of Agriculture and Natural Resources must be 2.5 or higher.

Rangeland Ecology and Management Required Courses

Type
Completion Requirement

CL1/CL2 Requirements (6 credits)

Complete ALL of the following Courses:

- ENGL1010 - Writing as Inquiry (CL1) - 3cr.
- ENGL2010 - Research and Argument Across Perspectives (CL2) - 3cr.

Scientific Foundation (26-27 credits)

Complete ALL of the following Courses:

- BIOL1610 - Biology I - 3cr.
- BIOL1615 - Biology I Laboratory - 1cr.
- BIOL1620 - Biology II (BLS) - 3cr.
- BIOL1625 - Biology II Laboratory - 1cr.
- MATH1050 - College Algebra (QL) - 4cr.
- MATH1100 - Calculus Techniques (QL) - 3cr.
  OR MATH1170 - Modeling Change: Calculus in Life and Society - 4cr.
- PSC3000 - Fundamentals of Soil Science - 4cr.
- STAT2000 - Statistical Methods (QI) - 4cr.
  OR STAT3000 - Statistics for Scientists (QI) - 3cr.
- WATS2220 - General Ecology - 3cr.

Chemistry Options within the Scientific Foundation

Fulfill ANY of the following requirements:

Option 1

Complete ALL of the following Courses:

- CHEM1110 - General Chemistry I (BPS) - 4cr.
- CHEM1120 - General Chemistry II (BPS) - 4cr.
- CHEM1125 - General Chemistry II Laboratory - 1cr.

OR

Option 2

Complete ALL of the following Courses:

- CHEM1210 - Principles of Chemistry I - 4cr.
- CHEM1215 - Chemical Principles Laboratory I - 1cr.
- CHEM1220 - Principles of Chemistry II (BPS) - 4cr.

Department Common Courses (22 credits)

Complete ALL of the following Courses:

- WILD2800 - Introduction to Geographic Information Sciences - 4cr.
  OR GEOG2800 - Introduction to Geographic Information Sciences - 4cr.
- WILD2000 - Natural Resource Professional Orientation - 1cr.
  OR ENVS2000 - Natural Resource Professional Orientation - 1cr.
  OR WATS2000 - Natural Resource Professional Orientation - 1cr.
- WILD2400 - Wildland Resource Techniques - 3cr.
- WILD3800 - Wildland Plants and Ecosystems - 4cr.
- WILD3830 - Range Plant Taxonomy and Function - 3cr.
  OR WILD3600 - Advanced Plant Identification and Terminology - 3cr.
- WILD3850 - Vegetation and Habitat Management - 3cr.
- WILD4750 - Monitoring and Assessment in Natural Resource and Environmental Management - 4cr.

Degree Program Courses (24-25 credits)

Complete ALL of the following Courses:

- ADVS2080 - Beef Production Practices - 3cr.
  OR ADVS2090 - Sheep Production Practices - 3cr.
  OR WILD5340 - Range Ruminant Nutrition and Management - 3cr.
- APEC3012 - Introduction to Natural Resource Economics (DSS) - 3cr.
- ENVS3010 - Natural Resource and Environmental Policy - 3cr.
- ENVS4000 - Human Dimensions of Natural Resource Management (DSS) - 3cr.
- PSC5130 - Soil Genesis, Morphology, and Classification - 4cr.
- WATS3700 - Fundamentals of Watershed Science (CI) - 3cr.
- WILD4000 - Principles of Rangeland Management - 3cr.
- WILD4910 - Vegetation Resource Management and Planning (CI) - 3cr.

Plant Science Courses (3-4 credits)

Complete at least 1 of the following courses:

- BIOL4400 - Plant Physiology (QI) - 4cr.
- PSC3500 - Structure and Function of Plants - 3cr.
- PSC5550 - Fundamentals of Integrated Weed Management - 4cr.

Resource Management Courses (3 credits)

Complete at least 1 of the following courses:

- ENVS3300 - Fundamentals of Natural Resource Recreation Management - 3cr.
- PSC4320 - Forage Production and Pasture Management - 3cr.
- WILD4500 - Principles of Wildlife Management - 3cr.
- WILD5300 - Human-Wildlife Interactions - 3cr.

Open Electives

Complete the following as needed:
Total elective credit is determined by General Education courses taken, degree type selected, additional credits earned, and any additional math or other prerequisite courses needed. Please consult your Academic Advisor for details.

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Bachelor's Degree)

Suggested Degree Maps

Degree Map Name
Suggested Degree Map - Rangeland Ecology and Management BS
Total Degree Map Credits
121 - 127
Degree Map Effective Catalog Year
2027 -

Degree Map Narrative

- Following is a sample four-year plan. Please note that student-specific plans may differ.
- Meet with an academic advisor to create a specific plan that best fits your academic needs.
- The student is ultimately responsible for knowing and completing all degree requirements.
- Make sure you meet the registration requirements for each class by clicking the course link and checking any prerequisites or corequisites.
- Consultation with an advisor may result in an altered plan customized for an individual student.

- Check your Degree Works for requirements and completion.

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	14 - 15	0

Requirement Select
- BIOL1610 - Biology I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- BIOL1615 - Biology I Laboratory

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- ENGL1010 - Writing as Inquiry (CL1)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- WILD2000 - Natural Resource Professional Orientation

OR
- ENVS2000 - Natural Resource Professional Orientation

OR
- WATS2000 - Natural Resource Professional Orientation

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- Breadth American Institutions (BAI) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Breadth Social Sciences (BSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- APEC1600 is recommended to fulfill the BAI requirement (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	14	0

Requirement Select
- BIOL1620 - Biology II (BLS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- BIOL1625 - Biology II Laboratory

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- MATH1050 - College Algebra (QL)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- WATS2220 - General Ecology

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Breadth Humanities (BHU) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	15 - 16	0

Requirement Select

- CHEM1110 - General Chemistry I (BPS)
  OR
- CHEM1210 - Principles of Chemistry I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- APEC3012 - Introduction to Natural Resource Economics (DSS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- MATH1100 - Calculus Techniques (QL)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- WILD2400 - Wildland Resource Techniques

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Electives (2-3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2 - 3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	18 - 19	0

Requirement Select

- ADVS2080 - Beef Production Practices
  OR
- ADVS2090 - Sheep Production Practices
  OR
- WILD5340 - Range Ruminant Nutrition and Management

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- CHEM1120 - General Chemistry II (BPS)
  OR
- CHEM1220 - Principles of Chemistry II (BPS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- CHEM1125 - General Chemistry II Laboratory
  OR
- CHEM1215 - Chemical Principles Laboratory I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- STAT2000 - Statistical Methods (QI)
  OR
- STAT3000 - Statistics for Scientists (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 4
Progress Credits	-
Contact Hours	3 - 4
Clinical	-
Criticality	No

Requirement Select

- WILD2800 - Introduction to Geographic Information Sciences
  OR
- GEOG2800 - Introduction to Geographic Information Sciences

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- ENGL2010 - Research and Argument Across Perspectives (CL2)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Fall	17	0

Requirement Select
- ENVS3010 - Natural Resource and Environmental Policy

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- ENVS4000 - Human Dimensions of Natural Resource Management (DSS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- PSC3000 - Fundamentals of Soil Science

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- WILD3800 - Wildland Plants and Ecosystems

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- WILD3830 - Range Plant Taxonomy and Function

OR
- WILD3600 - Advanced Plant Identification and Terminology

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Spring	14	0

Requirement Select
- WATS3700 - Fundamentals of Watershed Science (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- WILD3850 - Vegetation and Habitat Management

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- WILD4000 - Principles of Rangeland Management

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Electives (5 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	5
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Fall	14 - 16	0

Requirement Select

- PSC5130 - Soil Genesis, Morphology, and Classification

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- WILD4750 - Monitoring and Assessment in Natural Resource and Environmental Management

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- Depth Humanities and Creative Arts (DHA) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1 - 3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Electives (2 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- WILD5300 - Human-Wildlife Interactions
  OR
- ENVS3300 - Fundamentals of Natural Resource Recreation Management
  OR
- PSC4320 - Forage Production and Pasture Management
  OR
- WILD4500 - Principles of Wildlife Management

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Spring	15 - 16	0

Requirement Select

- LAEP1030 - Introduction to Landscape Architecture (BCA)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- WILD4910 - Vegetation Resource Management and Planning (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Electives (6 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- BIOL4400 - Plant Physiology (QI)
  OR
- PSC3500 - Structure and Function of Plants
  OR
- PSC5550 - Fundamentals of Integrated Weed Management

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 4
Progress Credits	-
Contact Hours	3 - 4
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Program Learning Outcomes

Program Learning Outcomes

https://www.usu.edu/oda/assessment/

Recreation Resource Management - MS

Program Overview

College	Department	Program Level
College of Agriculture & Natural Resources	Environment & Society	Graduate

About this Degree

The MS in Recreation Resource Management prepares recreation professionals to manage outdoor natural settings for human recreation. These settings can include public forests and rangelands, state and national parks, and wilderness areas—among others. Foundation in the social and behavioral sciences is combined with basic ecological understanding to facilitate policy and management of both land resources and the people who visit. The personalized program of study includes both Plan A (thesis) and Plan B (paper/project) options. For additional degree information, see the program page on the Department of Environment and Society website. Students may complete the Graduate Specialization in Climate Adaptation Science as a part of this degree.

Program Requirements

Total Credits Required In Program Coursework	Total Credits Required To Earn This Credential
30	30

Simple Requisites

Program Requirements

Requirements for this degree include the graduate school and program requirements outlined below.

Graduate School and Home Department Requirements:

- **Degree Verification:** A bachelor's degree from an accredited U.S. college or university or a similarly recognized international university is required for admission to and completion of a graduate program. An official transcript must be sent directly to the School of Graduate Studies.
- **Overall Graduate GPA at least 3.0 and no grades of C- or lower:** Graduate students are required to maintain at least a 3.0 GPA for degree-program courses. Grades of C- or lower will not be accepted for a graduate degree.
- **Course Number Acceptability:** The program of study for a master's degree cannot include more than 12 semester credits of courses below the 6000 level. Credits in the following areas are not acceptable in a degree program: foreign languages (unless included in an approved Program of Study), continuing graduate advisement, individual home study, military science, and courses numbered below 5000.
- **Matriculation Start Semester:** A master's degree must be completed within six years of entering the degree program. Additional time may be requested by the student's advisor and submitted to the Vice Provost of Graduate Studies for review.
- **Coursework Validity:** Coursework over eight years old at the time of degree completion may not be used for a graduate degree unless it is revalidated.
- **Thesis Research Credits 6970:** Plan A students must take at least 6 thesis (ENVS 6970) credits/Plan B students must take a minimum of 2 credits of thesis research (ENVS 6970) but no more than 3 can be included on an approved Program of Study.

- Presentation at the Department's Pre-Project Graduate Research Symposium.
- Completion of the Responsible Conduct of Research (*RCR*) Training
- Approval of a thesis (Plan A) or paper/project (Plan B) proposal.
- Successful defense of the thesis (Plan A) or paper/project (Plan B).
- Submission of thesis to the School of Graduate Studies and library for review and approval, or of the paper/project to the library.
- Completion of academic forms required by the School of Graduate Studies.
    - Supervisory Committee Approval
    - Program of Study
    - Master's Thesis Proposal/Project Approval
    - Appointment for Examination
    - Record of Examination
    - Application for Graduation

Recreation Resource Management – M.S. Requirements

Type
Completion Requirement

A. Complete the Required Core (2 credits):

Complete ALL of the following Courses:

- ENVS6800 - Environment and Society Departmental Colloquium - 1cr.
- ENVS6840 - Graduate Orientation Seminar for Environment and Society - 1cr.

B. Complete a Committee-Approved Plan of Study (minimum of 28 additional credits) that Includes:

1. Theory coursework (at least 3 credits)

2. Methods/analysis coursework (at least 3 credits)

3. Thesis research (Plan A) or a paper/project (Plan B)

ENVS6970 THESIS RESEARCH (6 credits for Plan A or 2-3 credits for Plan B)

4. Elective courses (16 credits Plan A or 19-20 credits Plan B)

Complete ALL of the following Courses:

- ENVS6970 - Thesis Research - 1cr.

6 credits of ENVS6970 THESIS RESEARCH for Plan A or 2-3 credits for Plan B

Program Learning Outcomes

Program Learning Outcomes
https://qanr.usu.edu/envs/about/assessment

Rehabilitation Counseling - MRC

Program Overview

College	Department	Program Level
College of Education & Human Services	Special Education & Rehab Counseling	Graduate

About this Degree

Program Contact:

Trent Landon, Ph.D., Program Director, trent.landon@usu.edu, 435-797-3269

Kris Wengreen, Graduate Program Coordinator (GPC), kris.wengreen@usu.edu, 435-797-3246

Program Description:

The Master of Rehabilitation Counseling (MRC) program is housed in the Department of Special Education and Rehabilitation Counseling. Rehabilitation Counseling has a dual identity, that of an allied health profession and that of a specialized area of general counseling. This degree prepares students at the master's degree level to serve people with disabilities and "assist persons with physical, mental, developmental, cognitive, and emotional disabilities to achieve their personal, career, and independent living goals" (CRCC Scope of Practice Statement: www.crccertification.com/crc-crcc-scope-of-practice). The MRC program emphasizes counseling skill development, vocational and mental health assessment, transition services for youth with disability, advocacy, and employment.

The USU MRC program prepares rehabilitation counselors to provide professional counseling services to individuals with a broad range of disabilities in a variety of settings, such as state rehabilitation agencies, independent living centers, Veterans Administration, rehabilitation hospitals, psychiatric and community mental health programs, private rehabilitation facilities and agencies, employment assistance programs, and private industry. The degree is a 61-credit program accredited by the Council for the Accreditation of Counseling and Related Educational Programs (CACREP). The Rehabilitation Counseling program has a limited number of scholarships funded through the U.S. Department of Education, Rehabilitation Services Administration. These scholarships require a postgraduate commitment to work for a not-for-profit agency serving the needs of individuals with disabilities for two years for every year of scholarship received.

Mission

The mission of the Master of Rehabilitation Counseling program is to promote quality rehabilitation services for individuals with disabilities through the education of rehabilitation professionals, provision of rehabilitation continuing education, emphasizing ethical service delivery, and through research related to rehabilitation.

Objectives

Program objectives include:

1. Preparation of master's level counselors,
2. Promotion of the code of Professional Ethics, and
3. Advancement of the basic philosophical tenets of rehabilitation, including the value and worth of all individuals, a belief in human dignity, and the right of all persons to fully participate in society.

Admission Requirements for this Program:

Admission requirements can be found on the USU School of Graduate Studies website (gradschool.usu.edu/admissions/policies).

Additional information about the MRC Rehabilitation Counseling program may be obtained by contacting the Department of Special Education and Rehabilitation Counseling, or by visiting the program website at https://cehs.usu.edu/sperc/rehab-counseling/masters/.

Program Requirements

Total Credits Required In Program Coursework
61

Total Credits Required To Earn This Credential
61

Simple Requisites

Program Requirements

School of Graduate Studies (SGS) General Graduation Guidelines

• Degree Verification: A bachelor's degree from an accredited U.S. college or university or a similarly recognized international university is required for admission to and completion of a graduate program. An official transcript must be sent directly to the School of Graduate Studies.

• Overall Graduate GPA at least 3.0 and no grades of C- or lower: Graduate students are required to maintain at least a 3.0 GPA for degree-program courses. Grades of C- or lower will not be accepted for a graduate degree.

• Course Number Acceptability: The Program of Study for a master's degree or a doctoral degree, if the student has a master's degree, must include at least 15-semester credits at the level of 6000 or above. Credits in the following areas are not acceptable in a degree program: foreign languages (unless included in an approved Program of Study), continuing graduate advisement, individual home study, military science, and courses numbered below 6000. The program of study for a master's degree cannot include more than 12 semester credits of courses at the 5000 level.

• Matriculation Start Semester: A master's degree must be completed within six years of entering the degree program. Additional time may be requested by the student's advisor and submitted to the Vice Provost of Graduate Studies for review.

• Coursework Validity: Coursework over eight years old at the time of degree completion may not be used for a graduate degree unless it is revalidated by the Vice Provost of Graduate Studies.

Master's forms (Plan C - Non-thesis, coursework only):

Program of Study approved by the School of Graduate Studies

Rehabilitation Counseling - MRC (61 credits)

Type
Completion Requirement

Required Courses

All courses require a grade of C or better except for REH6130 COUNSELING SKILL DEVELOPMENT which requires a B or better.

Complete ALL of the following Courses:

- REH6100 - Professional Counseling Orientation - 3cr.
- REH6110 - Medical Aspects of Disability - 3cr.
- REH6120 - Psychosocial Aspects of Disability - 2cr.
- REH6130 - Counseling Skill Development - 3cr.
- REH6140 - Counseling Practicum - 3cr.
- REH6160 - Career Development, Analysis and Placement - 3cr.
- REH6170 - Counseling Internship I - 4cr.
- REH6175 - Counseling Internship II - 5cr.
- REH6180 - Mental Illness, Disability, and Trauma - 2cr.
- REH6190 - Vocational Assessment in Rehabilitation Counseling - 3cr.
- REH6200 - Theories of Counseling - 3cr.
- REH6210 - Mental Health Assessment - 3cr.
- REH6220 - Multicultural Aspects of Counseling - 3cr.
- REH6230 - Research in Clinical Rehabilitation Counseling - 3cr.
- REH6240 - Ethical Decision-Making in Counseling - 3cr.
- REH6250 - Group Counseling - 3cr.
- REH6260 - Human Growth and Development - 3cr.
- REH6320 - The Diagnostic and Statistical Manual (DSM 5) of Mental Health Disorders - 3cr.
- REH6350 - Treatment Approaches for Addiction Disorders - 3cr.
- REH6500 - Fundamental Skills for Transition Services - 3cr.

Students are required to take and pass a national counselor certification exam to graduate with the Master's in Rehabilitation Counseling (MRC). Acceptable exams are the Certified Rehabilitation Counselor (CRC) exam [preferred], the National Clinical Mental Health Counselor (NCMHC) exam [required for licensure as a mental health counselor in Utah], or the National Certified Counselor (NCC) exam. Students that do not pass a national counseling exam will be required to take a comprehensive exam through the MRC program to graduate.

Program Learning Outcomes

Program Learning Outcomes
https://cehs.usu.edu/about/assessment

Residential Landscape Design - Minor

Program Overview

College
College of Agriculture & Natural Resources

Department
Plants, Soils and Climate

Program Level
Undergraduate

Program Requirements

Total Credits Required In Program Coursework
17

Total Credits Required To Earn This Credential
17

Simple Requisites

Program Requirements

To graduate with the Residential Landscape Design minor, a minimum GPA of 2.5 is required in minor coursework.

This minor allows students in other majors to add a design component to their skill set. Students develop a working knowledge of residential landscape design.

Section 1

Type
Completion Requirement

Prerequisite courses:

Complete ALL of the following Courses:

- PSC2600 - Herbaceous Plant Materials - 3cr.
- PSC2620 - Woody Plant Materials: Trees and Shrubs for the Landscape - 3cr.

Required courses:

Complete ALL of the following Courses:

- LAEP1200 - Introduction to Graphics and Illustration - 4cr.
- PSC3300 - Residential Landscapes - 3cr.
- PSC3430 - Construction Methods for Residential Landscape Installation - 2cr.
- PSC4301 - Computer Aided Residential Landscape Design - 3cr.
- PSC4302 - Advanced Residential Landscape Design - 3cr.
- PSC5090 - Sustainable Low Water Landscaping - 3cr.

Program Learning Outcomes

Program Learning Outcomes

https://caas.usu.edu/psc/assessment

Residential Landscape Design and Construction - BS

Program Overview

College
College of Agriculture & Natural Resources

Department
Plants, Soils and Climate

Program Level
Undergraduate

About this Degree

The residential landscape design and construction major deals with design, construction, and maintenance of residential and small-scale commercial landscapes. In this major, students receive a well-rounded education that integrates aesthetic design with applied installation and maintenance skills. Students gain hands-on experience designing and planning landscape projects in addition to pouring concrete, planting trees, shrubs, and flowers, and all aspects of small-scale residential landscape production from start to finish.

The core curriculum includes preparatory courses in chemistry, mathematics, biology, design, and graphics. Required program courses emphasize the plant sciences, soil sciences, design, and construction.

Contact Abby Macbeth abby.macbeth@usu.edu 435-797-0454 for advising.

- For more information about Residential Landscape Design and Construction, see the website.
- Admitted and current students must meet with an advisor.
- Log on to Degree Works to check student-specific program progress.
- The highest math requirement for this degree is MATH1050 COLLEGE ALGEBRA (QL)

Admission Requirements for this Program

- New freshmen: Admitted to USU in Good Standing
- Transfer students from other institutions or other programs at USU: 2.5 GPA

Program Requirements

Total Credits Required In Program Coursework
73

Total Credits Required To Earn This Credential
120

Simple Requisites

Program Requirements

A minimum GPA of 2.5 is required for major coursework. Major coursework may not be taken on a pass/fail basis, and a grade of C- or better must be earned in each course required for the major.

Residential Landscape Design and Construction - BS Course Requirements

Type
Completion Requirement

Required Core Courses (75 credits)

Complete ALL of the following Courses:

- APEC2120 - Small Firm Accounting Basics - 3cr.
  OR BUSN2320 - Small Business Management - CTE - 3cr.
- ASTE3050 - Technical and Professional Communication Principles (CI) - 3cr.
- BIOL1010 - Biology and the Citizen (BLS) - 3cr.
- CHEM1110 - General Chemistry I (BPS) - 4cr.

- LAEP1030 - Introduction to Landscape Architecture (BCA) - 3cr.
- LAEP1200 - Introduction to Graphics and Illustration - 4cr.
- LAEP2500 - Construction Materials and Detailing - 4cr.
- MATH1050 - College Algebra (QL) - 4cr.
- PSC1050 - Plants, Soils, and Climate Orientation - 1cr.
- PSC1800 - Introduction to Horticulture (BLS) - 3cr.
- PSC2200 - Pesticide Certification - 2cr.
- PSC2600 - Herbaceous Plant Materials - 3cr.
- PSC2620 - Woody Plant Materials: Trees and Shrubs for the Landscape - 3cr.
- PSC3000 - Fundamentals of Soil Science - 4cr.
- PSC3300 - Residential Landscapes - 3cr.
- PSC3400 - Arboriculture - 3cr.
- PSC3430 - Construction Methods for Residential Landscape Installation - 2cr.
- PSC3500 - Structure and Function of Plants - 3cr.
- PSC3810 - Turfgrass Management - 3cr.
- PSC4250 - Internship in Plants, Soils, and/or Climate - 1cr.
- PSC4301 - Computer Aided Residential Landscape Design - 3cr.
- PSC4302 - Advanced Residential Landscape Design - 3cr.
- PSC5090 - Sustainable Low Water Landscaping - 3cr.
- PSC5100 - Professional Turf and Urban Landscape Water Management - 3cr.
- PSC5420 - Landscape Irrigation Design (QI) - 2cr.
- WILD2200 - Ecology of Our Changing World (BLS) - 3cr.

Recommended Courses

The optional APEC courses, while not required for the RLDC degree, would provide students with the Small Firm Management Certificate.

Complete ALL of the following Courses:

- APEC2310 - Small Firm Management - 3cr.
- APEC2900 - Agricultural and Natural Resource Law - 3cr.
- APEC3310 - Analytical Methods in Applied Economics (QI) - 3cr.
- ENVS2340 - Environment, Natural Resources, and Society (BSS) - 3cr.
- MSLE3110 - Managing Organizations and People (DSS) - 3cr.
- PHIL3530 - Environmental Ethics (DHA) - 3cr.

Suggested Elective Courses

Complete ALL of the following Courses:

- LAEP1300 - Digital Drafting, Illustration, and Modeling - 3cr.
- LAEP2300 - History of Landscape Architecture (BHU) - 3cr.
- LAEP2600 - Landscape Construction I (QI) - 4cr.
- LAEP5550 - Travel Course - 2cr.
- PSC2030 - Basic Flower Arranging - 2cr.
- PSC2700 - Climate Change Impacts (BPS) - 3cr.

Open Electives

Complete the following as needed:
Total elective credit is determined by General Education courses taken, degree type selected, additional credits earned, and any additional math or other prerequisite courses needed. Please consult your Academic Advisor for details.

Suggested Degree Maps

Degree Map Name
Suggested Degree Map - Residential Landscape Design and Construction - BS
Total Degree Map Credits
120
Degree Map Effective Catalog Year
2027 -

Degree Map Narrative

- Following is a sample four-year plan. Please note that student-specific plans may differ.
- Meet with an academic advisor to create a specific plan that best fits your academic needs.
- The student is ultimately responsible for knowing and completing all degree requirements.
- Make sure you meet the registration requirements for each class by clicking the course link and checking any prerequisites or corequisites.
- Consultation with an advisor may result in an altered plan customized for an individual student.
- Check your Degree Works for requirements and completion.

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	14	0

Requirement Select

- BIOL1010 - Biology and the Citizen (BLS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- LAEP1030 - Introduction to Landscape Architecture (BCA)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Bachelor's Degree)

Requirement Select
- PSC1050 - Plants, Soils, and Climate Orientation

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- PSC1800 - Introduction to Horticulture (BLS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- PSC2620 - Woody Plant Materials: Trees and Shrubs for the Landscape

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Elective (1 credit) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	16	0

Requirement Select
- LAEP2500 - Construction Materials and Detailing

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- MATH1050 - College Algebra (QL)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- PSC2200 - Pesticide Certification

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select
- WILD2200 - Ecology of Our Changing World (BLS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Communications Literacy (CL1) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	15	0

Requirement Select
- CHEM1110 - General Chemistry I (BPS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- LAEP1200 - Introduction to Graphics and Illustration

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- PSC2600 - Herbaceous Plant Materials

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Communications Literacy (CL2) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	15	0

Requirement Select
- LAEP1300 - Digital Drafting, Illustration, and Modeling

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Breadth American Institutions (BAI) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Breadth Humanities (BHU) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Breadth Social Sciences (BSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Electives (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Fall	15	0

Requirement Select

- PSC3000 - Fundamentals of Soil Science

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- PSC3430 - Construction Methods for Residential Landscape Installation

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select

- PSC3810 - Turfgrass Management

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Depth Social Sciences (DSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Communications Intensive (CI) Courses

OR

- Depth Humanities and Creative Arts (DHA) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Spring	15	0

Requirement Select
- PSC3300 - Residential Landscapes

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- PSC5420 - Landscape Irrigation Design (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select
- PSC5100 - Professional Turf and Urban Landscape Water Management

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- PSC3400 - Arboriculture

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- PSC3500 - Structure and Function of Plants

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Elective (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Fall	15	0

Requirement Select
- PSC4250 - Internship in Plants, Soils, and/or Climate

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1 - 4
Clinical	-
Criticality	No

Requirement Select
- PSC4301 - Computer Aided Residential Landscape Design

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Elective Course (8 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	8
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Enroll in 1 credit of PSC4250 (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- PSC5090 - Sustainable Low Water Landscaping

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Spring	15	0

Requirement Select
- ASTE3050 - Technical and Professional Communication Principles (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- APEC2120 - Small Firm Accounting Basics

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Electives (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- PSC4302 - Advanced Residential Landscape Design

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- PSC4500 - Urban Soil Management and Reclamation

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Total General Education Credits	Total Major Credits
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Program Learning Outcomes

Program Learning Outcomes
https://www.usu.edu/oda/assessment/

Military Science (Army ROTC Commission)

Program Overview

College
College of Arts & Sciences

Department
Military Science

Program Level
Undergraduate

Program Requirements

Total Credits Required In Program Coursework
23

Total Credits Required To Earn This Credential
23

Simple Requisites

Program Requirements

Military Science (Army ROTC Commission)

Type
Completion Requirement

Basic Course Requirements (8 credits)

A lab is included in each of the following MSL courses:

Complete ALL of the following Courses:

- MSL1010 - Introduction to the Army - 2cr.
- MSL1020 - Foundations of Leadership - 2cr.
- MSL2010 - Leadership and Ethics - 2cr.
- MSL2020 - Army Doctrine and Decision-Making - 2cr.

Advanced Course Requirements (15 credits)

A lab is included in each of the following MSL courses:

Complete ALL of the following Courses:

- MSL3010 - Training Management and the Warfighting Functions - 3cr.
- MSL3020 - Applied Leadership in Small Unit Operations - 3cr.
- MSL4510 - ROTC Leader Development and Assessment Course - 1cr.
- MSL4010 - The Army Officer - 3cr.
- MSL4020 - Company Grade Leadership - 3cr.
- HIST4810 - American Military History - 3cr.

NOTE:

1. MSL4510 LEADER DEV ASSESMENT COURSE - Must be taken summer after MSL 3020, does NOT need to be taken for credit.

Additional Comments:
If a student is Prior Service, the first two years of courses DO NOT need to be completed.

Program Learning Outcomes

Program Learning Outcomes
https://www.usu.edu/oda/assessment/

Recreation Resource Management - Minor

Program Overview

College
College of Agriculture & Natural Resources

Department
Environment & Society

Program Level
Undergraduate

About this Degree
Recreation resource management involves managing lands to accommodate recreational uses as well as interpreting the natural values of these lands to recreation visitors. Recreation resources play a vital role in maintaining the multiple uses of public lands. USU is located within half a day's drive of six national parks, putting students in close proximity with field study opportunities at some of the most beautiful and most commonly visited recreation sites in the world.

Program Requirements

Total Credits Required In Program Coursework
12

Total Credits Required To Earn This Credential
12

Simple Requisites

Program Requirements

All courses required for the minor must be taken on an *A-B-C-D-F* basis. A grade of *C-* or better and a grade point average of 2.5 or higher is required for all courses taken to meet requirements for the minor.

Students should make an appointment with an academic advisor in the S.J. and Jessie E. Quinney College of Agriculture and Natural Resources to add this minor: qanr.usu.edu/advising/.

Recreation Resource Management Core

Type
Completion Requirement

Required Course (3 credits)

Complete ALL of the following Courses:

- ENVS3300 - Fundamentals of Natural Resource Recreation Management - 3cr.

Additional Required Courses (6 credits)

Complete at least 2 of the following courses:

- ENVS4130 - Natural Resource Recreation Policy and Planning - 3cr.
- ENVS4500 - Advanced Natural Resource Recreation Management (CI) - 3cr.
- ENVS5600 - Natural Resource Interpretation - 3cr.

The course not selected above can be instead taken as the elective course below.

Minor Elective

Type
Completion Requirement

Elective Course (3 credits)

Complete at least 1 of the following courses:

- APEC1600 - Natural Resources and American Economic

Institutions (BAI) - 3cr.
- APEC3012 - Introduction to Natural Resource Economics (DSS) - 3cr.
- ENVS4000 - Human Dimensions of Natural Resource Management (DSS) - 3cr.
- ENVS4130 - Natural Resource Recreation Policy and Planning - 3cr.
- ENVS4500 - Advanced Natural Resource Recreation Management (CI) - 3cr.
- ENVS4920 - Special Projects in Natural Resource Recreation Management - 3cr.
- ENVS5020 - Human Dimensions of Fire Management - 3cr.
- ENVS5600 - Natural Resource Interpretation - 3cr.

Only take ENVS4130 NAT RESOURCE REC POLICY/PLAN, ENVS4500 ADV NAT RESOURCE REC MGMT (CI), or ENVS5600 NR INTERPRETATION as the elective if not taken above as part of the core.

Program Learning Outcomes

Program Learning Outcomes
https://qanr.usu.edu/envs/about/assessment

Recreation Resource Management - BS

Program Overview

College
College of Agriculture & Natural Resources

Department
Environment & Society

Program Level
Undergraduate

About this Degree
Recreation resource management involves managing lands to accommodate recreational uses as well as interpreting the natural values of these lands to recreation visitors. Recreation resources play a vital role in maintaining the multiple uses of public lands. USU is located within half a day's drive of six national parks, putting students in close proximity with field study opportunities at some of the most beautiful and most commonly visited recreation sites in the world.

- Admitted and current students must meet with an academic advisor for help with semester-by-semester planning, connections to co-curricular experiences, understanding of USU policies, and accessing USU resources.
- Meeting with the advisor is also recommended for clarifying the appropriate Biology coursework based on student career goals.
- Log on to Degree Works to check student-specific program progress.
- The highest Math Requirement for this degree is STAT1040 INTRO TO STATISTICS (QL), STAT1045 INTRO STAT WITH ALGEBRA (QL), STAT1080 FOUNDATIONS OF DATA SCI (QL), or STAT2000 STATISTICAL METHODS (QI).

Admission Requirements for this Program
- New freshmen: Admitted to USU in Good Standing
- Transfer students from other institutions or other programs at USU: 2.5 GPA

Program Requirements

Total Credits Required In Program Coursework
59-65

Total Credits Required To Earn This Credential
120

Simple Requisites

Program Requirements

All courses required for the major must be taken on an A-B-C-D-F basis. A grade of C- or better and a grade point average of 2.5 or higher is required for all ENVS, GEOG, WATS, or WILD courses used to meet requirements for the major.

Major Requirements

Type
Completion Requirement

Disciplinary Foundation (9-13 credits)

Complete ALL of the following Courses:
- CHEM1110 - General Chemistry I (BPS) - 4cr.
  OR CHEM1010 - Introduction to Chemistry (BPS) - 3cr.
- STAT1040 - Introduction to Statistics (QL) - 3cr.
  OR STAT1045 - Introduction to Statistics with Elements with Algebra (QL) - 5cr.
  OR STAT1080 - Foundations of Data Science (QL) - 3cr.
  OR STAT2000 - Statistical Methods (QI) - 4cr.

Biology Options within the Disciplinary Foundation

Fulfill ANY of the following requirements:

Option 1

Complete ALL of the following Courses:

- ENVS1350 - Introduction to Environmental Science (BLS) - 3cr.

OR

Option 2

Complete ALL of the following Courses:

- BIOL1010 - Biology and the Citizen (BLS) - 3cr.

OR

Option 3

To be eligible for certain public lands recreation positions, students must complete both the Biology course listed below and its associated lab.

Complete ALL of the following Courses:

- BIOL1610 - Biology I - 3cr.
- BIOL1615 - Biology I Laboratory - 1cr.

Professional Coursework (50-52 credits)

Complete ALL of the following Courses:

- APEC3012 - Introduction to Natural Resource Economics (DSS) - 3cr.
  OR APEC1600 - Natural Resources and American Economic Institutions (BAI) - 3cr.
- ENVS2000 - Natural Resource Professional Orientation - 1cr.
  OR WATS2000 - Natural Resource Professional Orientation - 1cr.
  OR WILD2000 - Natural Resource Professional Orientation - 1cr.
- ENVS2340 - Environment, Natural Resources, and Society (BSS) - 3cr.
- ENVS3010 - Natural Resource and Environmental Policy - 3cr.
- ENVS3300 - Fundamentals of Natural Resource Recreation Management - 3cr.
- ENVS3500 - Environmental Data Science (QI) - 3cr.
- ENVS4000 - Human Dimensions of Natural Resource Management (DSS) - 3cr.
- ENVS4130 - Natural Resource Recreation Policy and Planning - 3cr.
- ENVS4500 - Advanced Natural Resource Recreation Management (CI) - 3cr.
- ENVS4920 - Special Projects in Natural Resource Recreation Management - 3cr.
- ENVS5000 - Environmental Nonprofit and Volunteer Management - 3cr.
- ENVS5600 - Natural Resource Interpretation - 3cr.
- GEOG2800 - Introduction to Geographic Information Sciences - 4cr.
  OR WILD2800 - Introduction to Geographic Information Sciences - 4cr.
- GEOG5400 - Natural Hazards and Society - 3cr.
  OR GEO3100 - Natural Disasters (DSC) - 3cr.
  OR PSC3000 - Fundamentals of Soil Science - 4cr.
  OR WATS3700 - Fundamentals of Watershed Science (CI) - 3cr.
- WILD2200 - Ecology of Our Changing World (BLS) - 3cr.
  OR WATS2220 - General Ecology - 3cr.
  OR BIOL2220 - General Ecology - 3cr.
- ENVS3600 - Living with Wildlife (DSC) - 3cr.
  OR WATS3100 - Fish Ecology, Conservation, and Management (CI/DSC) - 3cr.

Geography/Geology Options within Professional Coursework

Fulfill ANY of the following requirements:

Option 1

Complete ALL of the following Courses:

- GEOG1000 - Physical Geography (BPS) - 3cr.

OR

Option 2

Complete ALL of the following Courses:

- GEO1010 - Introduction to Geology (BPS) - 3cr.

OR

Option 3

Complete ALL of the following Courses:

- GEO1110 - Physical Geology (BPS) - 3cr.
- GEO1115 - Physical Geology Laboratory - 1cr.

OR

Option 4

Complete ALL of the following Courses:

- GEO3000 - Epic Earth - Geoscience of National Parks (DSC) - 3cr.

Open Electives

Complete the following as needed:
Total elective credit is determined by General Education courses taken, degree type selected, additional credits earned, and any additional math or other prerequisite courses needed. Please consult your Academic Advisor for details.

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Bachelor's Degree)

Suggested Degree Maps

Degree Map Name
Suggested Degree Map - Recreation Resource Management BS
Total Degree Map Credits
106 - 131
Degree Map Effective Catalog Year
2027 -

Degree Map Narrative

- Following is a sample four-year plan. Please note that student-specific plans may differ.
- Meet with an academic advisor to create a specific plan that best fits your academic needs.
- The student is ultimately responsible for knowing and completing all degree requirements.
- Make sure you meet the registration requirements for each class by clicking the course link and checking any prerequisites or corequisites.
- Consultation with an advisor may result in an altered plan customized for an individual student.
- Check your Degree Works for requirements and completion.

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	14 - 16	0

Requirement Select

- ENGL1010 - Writing as Inquiry (CL1)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- ENVS2000 - Natural Resource Professional Orientation

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- ENVS2340 - Environment, Natural Resources, and Society (BSS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- GEOG1000 - Physical Geography (BPS)
  OR
- GEO1010 - Introduction to Geology (BPS)
  OR
- GEO1110 - Physical Geology (BPS)
- **AND** GEO1115 - Physical Geology Laboratory

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 4
Progress Credits	-
Contact Hours	3 - 4
Clinical	-
Criticality	No

Requirement Select

- Elective or Minor courses (4-5 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4 - 5
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	13 - 17	0

Requirement Select

- BIOL1010 - Biology and the Citizen (BLS)
  OR
- ENVS1350 - Introduction to Environmental Science (BLS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- ENGL2010 - Research and Argument Across Perspectives (CL2)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- STAT1040 - Introduction to Statistics (QL)
  OR
- STAT1045 - Introduction to Statistics with Elements with Algebra (QL)
  OR
- STAT1080 - Foundations of Data Science (QL)
  OR
- STAT2000 - Statistical Methods (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 5
Progress Credits	-
Contact Hours	3 - 5
Clinical	-
Criticality	No

Requirement Select

- Breadth Humanities (BHU) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Elective or Minor course (1-3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1 - 3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	15	0

Requirement Select

- ENVS3300 - Fundamentals of Natural Resource Recreation Management

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- ENVS3500 - Environmental Data Science (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- GEOG2800 - Introduction to Geographic Information Sciences
  OR
- WILD2800 - Introduction to Geographic Information Sciences

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- Breadth Creative Arts (BCA) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Elective or Minor course (2 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	13 - 17	0

Requirement Select

- CHEM1110 - General Chemistry I (BPS)
  OR
- CHEM1010 - Introduction to Chemistry (BPS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 4
Progress Credits	-
Contact Hours	3 - 4
Clinical	-
Criticality	No

Requirement Select

- GEO3100 - Natural Disasters (DSC)
  OR
- PSC3000 - Fundamentals of Soil Science
  OR
- WATS3700 - Fundamentals of Watershed Science (CI)
  OR
- GEOG5400 - Natural Hazards and Society

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 4
Progress Credits	-
Contact Hours	3 - 4
Clinical	-
Criticality	No

Requirement Select

- WILD2200 - Ecology of Our Changing World (BLS)
  OR
- BIOL2220 - General Ecology
  OR
- WATS2220 - General Ecology

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Breadth American Institutions (BAI) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Elective or Minor course (1-3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1 - 3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Fall	12	0

Requirement Select

- APEC3012 - Introduction to Natural Resource Economics (DSS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- ENVS3600 - Living with Wildlife (DSC)
  OR
- WATS3100 - Fish Ecology, Conservation, and Management (CI/DSC)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Elective or Minor courses (6 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Spring	9 - 24	0

Requirement Select

- ENVS3010 - Natural Resource and Environmental Policy

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- ENVS4130 - Natural Resource Recreation Policy and Planning

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- ENVS4500 - Advanced Natural Resource Recreation Management (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Depth Humanities and Creative Arts (DHA) Course
  OR
- Communications Intensive (CI) Courses

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	0 - 15
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Elective or Minor courses (3-4 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Fall	15	0

Requirement Select

- ENVS4000 - Human Dimensions of Natural Resource Management (DSS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- ENVS5600 - Natural Resource Interpretation

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Elective or Minor courses (9 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	9
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Spring	15	0

Requirement Select
- ENVS4920 - Special Projects in Natural Resource Recreation Management

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- ENVS5000 - Environmental Nonprofit and Volunteer Management

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Elective or Minor courses (9 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	9
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	Total Major Credits
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Program Learning Outcomes

Program Learning Outcomes

Upon completing their program, students will be able to:

- Identify and articulate central foundations, theories and ideas, and best approaches and practices in Recreation Resource Management (RRM)
- Utilize theories, principles, and knowledge of RRM to address management issues and challenges
- Utilize theories, principles, and knowledge of related disciplines to address management issues and challenges
- Quantify and analyze recreational use and associated impacts utilizing research approaches and methods, sampling and measurement, and data analysis techniques for managing recreation resources
- Write logical and analytical papers supported by appropriate research
- Determine, apply, and interpret appropriate basic statistical or other quantitative analyses to RRM data
- Productively conduct group/team work to deliver professional quality presentations and reports
- Demonstrate basic competency in the use of geographic information systems and field data collection using global positioning systems

https://qanr.usu.edu/envs/about/assessment

Race, Society, Environment - Minor

Program Overview

College
College of Arts & Sciences

Department
English

Program Level
Undergraduate

About this Degree

The Race, Society, Environment (RSE) minor is an 13-credit interdisciplinary minor that fosters deeper understandings of race and racism from a variety of disciplinary approaches. The RSE minor provides students with information, tools, and opportunities to participate responsibly in building inclusive and just local, national, and global communities.

Program Requirements

Total Credits Required In Program Coursework
13

Total Credits Required To Earn This Credential
13

Simple Requisites

Program Requirements

CORE:

Type
Completion Requirement

REQUIRED COURSE

Complete ALL of the following Courses:

- ENGL2640 - Race and Ethnicity in the United States (BHU) - 3cr.

RACE

These courses study the history of race as a tool for categorizing people and organizing societies and examine the ways in which racial identities are constructed, expressed, imposed, and resisted. Students must take at least one course in this category.

Complete at least 1 of the following courses:

- ANTH3200 - Perspectives on Race (DSS/CI) - 3cr.
- ARTH2730 - Art of the African Diaspora (BHU) - 3cr.
- ARTH3295 - Latinx Art (CI/DHA) - 3cr.
- ARTH3840 - Race and Visual Culture (CI) - 3cr.
- ARTH4520 - The Visual Cultures of Empire (CI) - 3cr.
- BIOL3100 - Bioethics (CI) - 3cr.
- ENGL3610 - Multicultural American Literature - 3cr.
- ENGL4370 - Native American Literature - 3cr.
- ENGL4375 - U.S. Latinx Literature - 3cr.
- ENGL4380 - African American Literature - 3cr.
- ENGL5330 - Race and Ethnicity in Literature (CI) - 3cr.
- FILM3300 - The African American Cinematic Experience (CI) - 3cr.
- HIST3670 - Slavery in the Atlantic World (CI) - 3cr.
- HIST4710 - American Indian History - 3cr.
- SOC2630 - Sociology of Race and Ethnicity (BSS) - 3cr.

SOCIETY

These courses study race in a variety of social contexts that illuminate how racial categories are configured, reproduced, communicated, and understood in the public sphere. Students must take at least one course in this category.

Complete at least 1 of the following courses:

- CMST4270 - Communication, Culture, and Power - 3cr.
- ELED3000 - Historical, Social, and Cultural Foundations of Education (CI) - 3cr.
- ENGL3620 - Native American Studies - 3cr.
- HDFS3210 - Families and Cultural Diversity (CI) - 3cr.
- HIST4720 - The Civil Rights Movement (DHA/CI) - 3cr.
- HIST4760 - America in the 1960s (DHA) - 3cr.
- ITLS5255 - Designing Ethical Technologies - 3cr.
- NURS3210 - Population Health and Prevention (CI) - 3cr.
- POLS3200 - The Politics of Development (CI/DSS) - 3cr.
- PSY4240 - Multicultural Psychology (DSS) - 3cr.
- SCED3210 - Educational and Multicultural Foundations (DSS/CI) - 3cr.
- SOC1020 - Social Problems (BSS) - 3cr.
- SOC2650 - Globalization and International Development (BSS) - 3cr.
- SOC3010 - Social Inequality (DSS) - 3cr.
- SOC3610 - Rural People and Places (DSS) - 3cr.
- SOC4410 - Race and Crime (CI) - 3cr.
- SW2400 - Social Work with Diverse Populations - 3cr.

ENVIRONMENT

These courses study the connections between race, environment, and environmental factors that impact well-being and contribute to disparities in lived experiences. Students must take at least one course in this category.

Complete at least 1 of the following courses:

- APEC1600 - Natural Resources and American Economic Institutions (BAI) - 3cr.
- BIOL4040 - Fundamentals of Epidemiology - 3cr.
- CEE5655 - Green Stormwater Infrastructure - 3cr.
- CMST4260 - Environmental Communication - 3cr.
- ENGL3640 - Nature Writing (DHA) - 3cr.
- ENGL4630 - Environmental Justice Literature - 3cr.
- ENVS4700 - Communicating Sustainability (CI) - 3cr.
- GEOG3100 - Human-Environment Geography (CI) - 3cr.
- GEOG5400 - Natural Hazards and Society - 3cr.
- HIST3950 - Environmental History (DHA/CI) - 3cr.
- HIST4510 - American Metropolis: Cities and Suburbs in United States History (DHA) - 3cr.
- HIST4600 - The History of the American West (DHA/CI) - 3cr.
- HIST4625 - The History of Natural Disasters (DHA) - 3cr.
- LAEP1040 - Introduction to Environmental Planning and Sustainable Development (BLS) - 3cr.
- SOC3300 - Sociology of Climate Change - 3cr.
- SOC3310 - Environmental Justice - 3cr.
- SOC4620 - Sociology of the Environment and Natural Resources (DSS) - 3cr.
- WILD2200 - Ecology of Our Changing World (BLS) - 3cr.

PROJECT

Students must propose and complete a short project under faculty mentorship in conjunction with this course.

Complete ALL of the following Courses:

- ENGL5920 - Directed Study - 1cr.

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Minors)

Program Learning Outcomes

Program Learning Outcomes

Core Principles and Learning Outcomes:

- Understanding of the differences between social race and biological race.
- Understanding of the sociocultural, political, global, and scientific histories that established the fallacy of biological races in humans.
- Understanding of systemic and institutional racism.
- Identification of current issues in which racism, social race, and their connections to environmental contexts are factors, consideration of intersectionality in understanding those issues, and exploration of avenues for engagement with such issues.
- Awareness of the interplay between race, racism, and environment, from the local to the global.
- Interdisciplinary awareness of efforts to increase public knowledge and cultural competence related to issues of race and racism.
- Proficiency in communicating concepts related to race and racism to diverse audiences.
- Awareness of how the minor informs future plans for study, employment, and community engagement.

Remote Sensing and Geospatial Artificial Intelligence Foundations - Certificate

Program Overview

College
College of Agriculture & Natural Resources

Department
Environment & Society

Program Level
Undergraduate

About this Degree

The Remote Sensing and Geospatial Artificial Intelligence (GeoAI) Foundations Certificate introduces students to the development and application of artificial intelligence to remote sensing and data-driven geospatial methods. Remote sensing via satellites and drones and advanced geospatial science tools that harness GeoAI allow for analyzing large amounts of data to understand and address a variety of complex social, economic, and environmental challenges facing society. Over the past few decades, technological advancements, the democratization of geospatial information, and the proliferation of consumer-grade drones have made high-resolution imagery and data more accessible than ever before, generating new demand for individuals skilled in gathering, analyzing, and delivering geospatial products. As automation through machine learning increases efficiency, the role humans play is transforming, moving from lower-level data management tasks to higher-level tasks of problem definition, inquiry, and innovation. Humans must engage with, troubleshoot, and guide GeoAI efforts, drawing upon critical thinking, creative problem-solving, complex reasoning, the application of emotional intelligence, and other distinctively human capabilities.

The Remote Sensing and GeoAI Foundations Certificate will prepare students at the convergence of geospatial analysis, remote sensing, and artificial intelligence for opportunities for innovation across various industry and government sectors, including for example environmental monitoring, urban planning, agriculture, disaster planning and response, and natural resource management. Students can pair the certificate with any major at USU and can pursue both the Applied Geographic Information Science - Certificate and the Remote Sensing and GeoAI Foundations Certificate for simultaneously broad and deep skillsets in emerging geospatial technologies. Program requirements consist of 16 credits of required coursework including a capstone experience that consists of either an internship experience with an industry partner or a project design and implementation experience under supervision of program faculty. The certificate can be completed fully online, or with a combination of online and in-person courses for students at the Logan campus.

Certificate Stacking: Ease of certificate stacking is a program goal. When stacked with the Applied Geographic Information Science - Certificate the Remote Sensing and GeoAI Foundations Certificate requires only 6-9 additional credits, as several courses can be applied to both certificates,

Admission Requirements for this Program

Students should make an appointment with an academic advisor in the S. J. and Jessie E. Quinney College of Agriculture and Natural Resources to add this certificate: https://qanr.usu.edu/advising/.

Program Requirements

Total Credits Required In Program Coursework
16

Total Credits Required To Earn This Credential
16

Simple Requisites

Program Requirements

To receive the certificate, a student must complete the following set of requirements:

- Register for and successfully complete at least 16 credits.
- Grades below C+ will not be accepted, and students must have a 3.0 minimum GPA across all courses used to meet certificate requirements.
- Abide by the Code of Policies and Procedures for Students at Utah State University.

Remote Sensing and GeoAI Foundations Course Requirements

Type
Completion Requirement

Coursework in GIS, Remote Sensing, and GeoAI (12 credits)

Complete ALL of the following Courses:

- GEOG2800 - Introduction to Geographic Information Sciences - 4cr.
  OR WILD2800 - Introduction to Geographic Information Sciences - 4cr.
- GEOG5805 - Introduction to Geospatial Artificial Intelligence: The Remote Sensing and GeoAI Frontier - 3cr.
- GEOG5815 - Insights from Above: Processing and Analyzing Drone Data - 1cr.
- GEOG5825 - Geospatial Artificial Intelligence, Ethics, & Society - 1cr.
- GEOG3200 - Principles of Remote Sensing - 3cr.
  OR WILD5750 - Applied Remote Sensing - 3cr.

GIS Programming Elective (3 credits)

Complete at least 1 of the following courses:

- GEOG3700 - Python Programming for GIS - 3cr.
- GEOG5300 - Geospatial Analysis with R - 3cr.

GEOG 3700 is the recommended option

Capstone Experience (1 credit)

Earn at least 1 credits from the following:

- GEOG5880 - Remote Sensing & GeoAI Internship - 1cr.
  OR GEOG5890 - Project Design and Implementation for Remote Sensing & GeoAI - 1cr.

Program Learning Outcomes

Program Learning Outcomes

Upon successful completion of this program, students will have a foundational understanding of remote sensing technologies and possess basic skills integrating artificial intelligence for geospatial applications. Students will be prepared to apply image interpretation and analysis techniques to practical scenarios.

Real Estate - Minor

Program Overview

College
Jon M. Huntsman School of Business

Department
Economics and Finance

Program Level
Undergraduate

About this Degree

The Minor in Real Estate gives students a foundational understanding of property markets, investment analysis, and real estate finance. Coursework covers topics such as property valuation, real estate principles, and development, blending quantitative skills with practical market insight. Individuals from any background or major could benefit from a better understanding of real estate and real estate markets.

Program Requirements

Total Credits Required In Program Coursework
15

Total Credits Required To Earn This Credential
15

Simple Requisites

Program Requirements

There is no GPA requirement but all courses require a B- or better to fulfill the minor requirements. Courses required for this minor may not be taken pass/fail.

Required Courses

Type
Completion Requirement

Required Courses (3 credits)

Complete ALL of the following Courses:

- FIN3500 - Real Estate Finance - 3cr.

Elective Courses

Type
Completion Requirement

Elective Courses (12 credits)

Select twelve credits from the following courses:

Earn at least 12 credits from the following:

- FIN4530 - Urban Economics - 3cr.
- FIN4540 - Real Estate Valuation - 3cr.
- FIN4550 - Real Estate Development - 3cr.
- FIN4560 - Cases in Real Estate - 3cr.
- FIN4570 - Financial Modeling for Real Estate - 3cr.
- FIN5575 - Real Estate Practicum - 1.5cr.
- FIN4590 - Special Topics in Real Estate - 3cr.

- **Note: Up to 3 credits of** FIN5575 REAL ESTATE PRACTICUM **can be used as elective credit toward the minor.**

Program Learning Outcomes

Program Learning Outcomes

https://huntsman.usu.edu/assessment/assessment-plan

Russian - Minor

Program Overview

College
College of Arts & Sciences

Department
World Languages and Cultures

Program Level
Undergraduate

About this Degree
In the Russian minor, students develop durable language skills, cultural competence skills, analysis skills, critical thinking skills, translation and interpretation skills, and communication skills useful in a wide variety of careers. In literature, culture, and art courses, students develop an understanding of traditions and perspectives of Russian-speaking communities around the world.

Admission Requirements for this Program
2.0 minimum GPA

Program Requirements

Total Credits Required In Program Coursework
12

Total Credits Required To Earn This Credential
12

Simple Requisites

Program Requirements

• Total Credits: 12 credits of upper-division Russian
• USU Credit Requirement: At least half (50 percent) of the credits earned for this minor must be earned at USU. Courses taken through the high school Bridge program for Russian also count toward credits earned at USU for the Russian minor or Russian major emphasis.
• Minimum Grade Requirement: All courses taken for the Russian minor require a minimum grade of C- or better. Courses for the minor may not be taken on a pass/fail basis.

Russian - Minor

Type
Completion Requirement

Required Courses (12 credits)

Earn at least 12 credits from the following:

- RUSS2030 - Accelerated Russian Second Year - 4cr.
- RUSS3040 - Advanced Russian Grammar and Composition - 3cr.
- RUSS3050 - Advanced Russian Grammar and Composition - 3cr.
- RUSS3100 - Healthcare Russian - 3cr.
- RUSS3116 - Rusophone Popular Culture: Trends and Traditions - 3cr.
- RUSS3117 - Exploring Russia: East to West - 3cr.
- RUSS3300 - Contemporary Russian Language and Culture (DHA) - 3cr.
- RUSS3400 - Russian Language through Art - 3cr.
- RUSS3510 - Business Russian (CI) - 3cr.
- RUSS3540 - Russian Translation for Science, Business, and Culture - 3cr.
- RUSS3600 - Ethical Communication in Russian Life - 3cr.
- RUSS4081 - Medical Interpreting Training - 3cr.
- RUSS4880 - Individual Readings - 1cr.
- RUSS4920 - Russian Language Tutoring - 1cr.
- POLS3220 - Russian and East European Government and Politics (DSS) - 3cr.
- CAI5510 - Russian Security Affairs - 3cr.

NOTE:

1. RUSS4920 RUSS LANG TUTORING - Repeatable for credit; students may take RUSS4920 RUSS LANG TUTORING for a maximum of 3 credits to be applied to the Russian minor or Russian major emphasis.

Program Learning Outcomes

Program Learning Outcomes
https://chass.usu.edu/languages/assessments

Statistics and Data Science - PhD

Program Overview

College
College of Arts & Sciences

Department
Mathematics & Statistics

Program Level
Graduate

About this Degree

The PhD program in statistics and data science offers training in cutting edge statistics, machine learning, data science, and artificial intelligence for students seeking careers in academe, industry, or government. This program is unique in that it allows students to explore and specialize in topics across a wide spectrum of applied, computational, and theoretical problems in statistics and data science under the guidance of faculty dedicated to advancing methodology for important and timely real-world problems. Many students work on collaborative research problems with faculty in other departments and at other universities.

Admission Requirements for this Program

There are no formal admissions requirements beyond those required by USU's graduate school. That in mind, it is expected that students applying to the program will have demonstrated proficiency in intermediate mathematics courses, such as calculus and linear algebra, and exposure to intro-level statistics and/or probability courses. Additionally, the department requires either satisfactory GRE scores (typically above the 40th percentile in Verbal and above the 70th percentile in Quantitative) or a research portfolio as part of the application materials.

Program Requirements

Total Credits Required In Program Coursework
45-72

Total Credits Required To Earn This Credential
45-72

Simple Requisites

Program Requirements

School of Graduate Studies Requirements:

- Degree Verification: A bachelor's degree from an accredited U.S. college or university or a similarly recognized international university is required for admission to and completion of a graduate program. An official transcript must be sent directly to the School of Graduate Studies.
- Overall Graduate GPA at least 3.0 and no grades of C- or lower: Graduate students are required to maintain at least a 3.0 GPA for degree-program courses. Grades of C- or lower will not be accepted for a graduate degree.
- Matriculation Start Semester: A master's degree must be completed within six years of entering the degree program. Additional time may be requested by the student's advisor and submitted to the Vice Provost of Graduate Studies for review.
- Coursework Validity: Coursework over eight years old at the time of degree completion may not be used for a graduate degree unless it is revalidated by the Vice Provost of Graduate Studies.
- Course Number Acceptability: The program of study cannot include more than 12 semester credits of courses below the 6000 level. Credits in the following areas are not acceptable in a degree program: foreign languages (unless included in an approved Program of Study), continuing graduate advisement, individual home study, military science, and courses numbered below 5000.
- Master's forms: Approval of the Program of Study is required by the School of Graduate Studies.

Program Requirements:

- A doctoral degree must be completed within eight years of entering the degree program. Additional time may be requested by the student's committee and submitted to the Vice Provost of Graduate Studies for review.
- This degree requires at least 45 total credits (Masters) or 72 total credits (no Masters) numbered 5000-level or higher. This includes research credits but excludes MATH6990 CONT GRAD ADVISEMENT/STAT6990 CONT GRAD ADVISEMENT and STAT7990 CONT GRAD ADVISEMENT (Continuing Graduate Advisement). No more than 12 of these credits can be numbered 5000-5999.
- Take no more than 3 (Masters) or 6 (no Masters) credits of STAT6250 GRAD INTERN/COOP
- Supervisory Committee Approval by the end of the second semester
- Program of Study submitted by the end of the third semester
- Write and successfully defend a dissertation research proposal
- Pass a comprehensive examination that is constructed specifically for the student by his or her supervisory committee. The form of the examination may be written or oral or may include a combination of written and oral components. The length and content of the exam are determined by the student's supervisory committee but is expected to take at least eight hours of direct effort from the student (e.g., three two-hour written exams followed by a two-hour oral exam).
- Application for Candidacy Form at least 3 months before final defense
- Appointment for examination form submitted 10 days before defense and during defense semester must be registered for credit
- Write and successfully defend a dissertation
- Record of Examination Form
- Thesis/Dissertation format and Style and Electronic Publication Form
- Authorship and Copyright form
- Graduation application

Statistics and Data Science - PhD

Type
Completion Requirement

Introductory Seminar (1 credit)

Complete ALL of the following Courses:

- MATH6910 - Directed Reading and Conference - 1cr.

NOTE:

MATH6910 DIRECTED READING - 1 credit.

Mathematical Statistics (9 credits)

Complete ALL of the following Courses:

- STAT6710 - Mathematical Statistics I - 3cr.
- STAT6720 - Mathematical Statistics II - 3cr.
- STAT6300 - Bayesian Statistical Methods and Data Analysis - 3cr.
  OR MATH6645 - Mathematical Methods for Data Science - 3cr.

Programming (3 credits)

Complete ALL of the following Courses:

- DSAI6060 - Python for Data Science - 3cr.
  OR STAT6060 - Python for Data Science - 3cr.
  OR STAT6555 - Advanced R Programming for Data Science - 3cr.

Data Visualization (2 credits)

Complete ALL of the following Courses:

- STAT5550 - Statistical Visualization I - 2cr.
  OR STAT6560 - Statistical Visualization II - 2cr.

Dissertation Credit (12-21 credits)

Students with a prior masters degree will take between 12-15 credits of STAT7970 DISSERTATION RESEARCH (repeatable for credit). Students without a prior masters degree will take between 18-21 credits of STAT7970 DISSERTATION RESEARCH (repeatable for credit).

Complete ALL of the following Courses:

- STAT7970 - Dissertation Research - 1cr.

Elective Credit (18-39)

Complete the following:
Students must take at least 45 total credits (Masters) or 72 total credits (no Masters) numbered 5000-level or higher. This includes research credits but excludes MATH6990 CONT GRAD ADVISEMENT/STAT6990 CONT GRAD ADVISEMENT and STAT7990 CONT GRAD ADVISEMENT (Continuing Graduate Advisement). Students are required to complete suitable electives at the 5000-level or higher, as approved by their supervisory committee, to meet the total credit thresholds after accounting for the required courses. No more than 12 of these elective credits can be numbered 5000-5999 and no more than 3 (Masters) or 6 (no Masters) can be STAT6250 GRAD INTERN/COOP (repeatable for credit).

Program Learning Outcomes

Program Learning Outcomes

https://www.usu.edu/science/assessment/

Sheep and Wool Production - Certificate

Program Overview

College
College of Agriculture & Natural Resources

Department
Animal, Dairy & Veterinary Sciences

Program Level
Undergraduate

About this Degree

The Sheep and Wool Production Certificate is a 24- to 25-credit program that equips students with the knowledge and practical skills needed for careers in the sheep industry. The curriculum covers essential areas such as sheep production practices, wool technology, nutrition, health management, and business operations. The program integrates hands-on learning opportunities, including fieldwork at a working sheep ranch, and allows students to choose electives such as live animal evaluation, small firm management, or forage production.

This certificate prepares students for roles in sheep management, wool production, and small ruminant farming, ensuring they gain the specialized skills needed to run profitable and sustainable sheep farming enterprises. The certificate can be pursued independently or alongside a Bachelor of Science degree, providing a pathway for students interested in sheep agriculture.

Program Requirements

Total Credits Required In Program Coursework
24

Total Credits Required To Earn This Credential
24

Simple Requisites

Program Requirements

1. Attain a grade point average of at least 2.50 across all courses applied toward this certificate.
2. Courses required for the certificate may *not* be taken for a *pass/fail* grade except for courses that are only offered as pass/fail.
3. A minimum grade of C is required in all courses applied toward this certificate.

Required Courses

Type
Completion Requirement

Complete the following courses:

Complete ALL of the following Courses:

- ADVS1110 - Introduction to Animal Science (BLS) - 3cr.
- ADVS2090 - Sheep Production Practices - 3cr.
- ADVS2500 - Feeds and Feeding - 3cr.
- ADVS3930 - Sheep Day - 1cr.
- ADVS5090 - Sheep Management and Wool Technology - 3cr.
- APEC2120 - Small Firm Accounting Basics - 3cr.
- APEC2310 - Small Firm Management - 3cr.

Repeat ADVS3930 SHEEP DAY for 3 credits total.

Choose one of the following courses:

Complete at least 1 of the following courses:

- ADVS3650 - Live Animal and Carcass Evaluation - 3cr.
  OR NDFS5020 - Meat Science and Technology - 4cr.
  OR NDFS5030 - Dairy Technology and Processing - 3cr.
  OR PSC4320 - Forage Production and Pasture Management -

3cr.
OR WILD5340 - Range Ruminant Nutrition and Management - 3cr.

Additional Comments:
NOTE:

1. Some of these courses have prerequisites, which may in turn have further prerequisites, etc. We encourage you to plan accordingly and/or speak with an advisor.

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Undergraduate Academic or Technical Certificates)

Program Learning Outcomes

Program Learning Outcomes

https://qanr.usu.edu/advs/assessment/

Small Business Operations - AAS

Program Overview

College
College of Agriculture & Natural Resources

Department
Aviation Technology

Program Level
Undergraduate

About this Degree

The Associate of Applied Science in Small Business Management equips individuals with the essential knowledge and skills to thrive in or start their own small business. Designed for those with technical expertise from partnering technical colleges, the program prepares graduates to manage financial records, develop effective marketing strategies, utilize essential software, oversee projects, and manage employees, making them valuable assets in the small business sector.

This program is designed to be completed in four semesters with students completing a minimum of 63 credits.

Program Requirements

Total Credits Required In Program Coursework
63

Total Credits Required To Earn This Credential
63

Simple Requisites

Program Requirements

Small Business Operations - AAS Course Requirements

Type
Completion Requirement

Business Core Courses

Complete ALL of the following Courses:

- BUSN1020 - Digital Literacy - 2cr.
  OR TEBP1100 - Digital Literacy - 2cr.
  OR BCIS1300 - Website Design - 3cr.
  OR TEIT1310 - Website Design - 3cr.
- BUSN1111 - Accounting Principles - 3cr.
  OR TEBP1000 - Basic Financial Principles - 3cr.
- BUSN1405 - Word Processing - 2cr.
  OR TEBP1130 - Word Processing - 2cr.
- BUSN1410 - Spreadsheet (Excel) - 2cr.
  OR TEBP1140 - Spreadsheets - 2cr.
- BUSN2050 - Business Law - 3cr.
- BUSN2201 - Digital Marketing Concepts - 3cr.
  OR BUSN2620 - Digital Marketing - 3cr.
  OR TEBP1700 - Marketing I - 3cr.
- BUSN2320 - Small Business Management - CTE - 3cr.
- BUSN2710 - Entrepreneurial Mindset - 3cr.
  OR TEBP2000 - Introduction to Entrepreneurship - 3cr.
- BUSN2720 - Introduction to Project Management - 3cr.
- BUSN2800 - Computerized Accounting - 3cr.
  OR TEBP1350 - Computerized Accounting - 3cr.

Core Courses options

Fulfill ANY of the following requirements:

Option 1

Complete ALL of the following Courses:

- BUSN2200 - Professional Communications - 3cr.

OR

Option 2

Complete ALL of the following Courses:

- ENGL2020 - Professional Communication (CL2) - 3cr.

OR

Option 3

Complete ALL of the following Courses:

- TEBP1500 - Business English - 1cr.
- TEBP1550 - Business Communications - 3cr.

Electives (27 credits)

Complete the following:
Choose any Technical Certificate or credits from a Technical Education Program.

General Education

Complete ALL of the following Course Sets:

- Communications Literacy (CL1) Course
- Quantitative Literacy (QL) Course
- Breadth Social Sciences (BSS) Course

BUSN1010 BUSINESS PRINCIPLES (BSS) is highly recommended for the BSS requirement.

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Associate Degrees)

Program Learning Outcomes

Program Learning Outcomes

- Apply foundational business principles to understand how small businesses operate and make strategic decisions.
- Use digital tools and software—including word processing, spreadsheets, databases, and web/digital literacy skills—to support business operations.
- Demonstrate effective financial management skills, including basic accounting, financial recordkeeping, and managerial accounting practices.
- Communicate professionally in business settings through written, verbal, and presentation formats.
- Understand and apply business law concepts relevant to small business ownership and operations.
- Develop and evaluate marketing strategies, including digital marketing concepts and market analysis for small business growth.Demonstrate knowledge of small business management practices, including HR, organizational behavior, and day-to-day operational decision-making.
- Apply entrepreneurial thinking to generate ideas, assess opportunities, and develop a small business mindset.
- Integrate hands-on workplace experience through internships or project-based learning to apply business skills in real-world settings.

School Counseling - MEd

Program Overview

College
College of Education & Human Services

Department
Psychology

Program Level
Graduate

About this Degree

Successful completion of this program qualifies graduates for a professional educator license in K-12 school counseling in the state of Utah. Additionally, this program qualifies graduates for the College and Career Readiness Certificate, required of Licensed School Counselors in the state of Utah.

The program is delivered through various tracks, outlined on the MEd in School Counseling web page. The program is a state-wide, web-based program delivered via Online and Virtual modalities. Virtual delivery is supported via Zoom; and courses offered Online are accessible as an asynchronous Canvas course. The delivery method is determined based on the best fit for course content and student learning.

Coursework is designed to train students in a broad range of skills, including K-12 college and career readiness, individual and group counseling for K-12 populations, behavioral and educational assessment and intervention, research and methodological foundations, and ethical, legal, and professional standards.

Experiential learning in the form of practicum and internship is a critical component of the program during the second and third years of enrollment.

The program is approved by the Utah State Board of Education and is fully accredited by the Association for Advancing Quality in Educator Preparation (AAQEP).

For additional details about the program please visit: https://cehs.usu.edu/psychology/masters/

Disclosure of Educational Requirements for Licensure by State

USU's MEd in School Counseling program adheres to the training standards of the American School Counselor Association (ASCA) and is accredited by the Association for Advancing Quality in Educator Preparation (AAQEP). Given the varied and changing requirements across jurisdictions, the department has not determined and cannot assure that graduates will meet all requirements for licensure in all states or territories. Students are encouraged to become familiar with relevant state licensing laws and discuss their curricular plan with the program director and advisors.

This program meets the requirements in Utah. Please see the following webpage for further information relating to licensing for School Counselors in other states: https://cehs.usu.edu/psychology/masters/Education_Licensure_Compliance_Table.pdf

Admission Requirements for this Program

Students are expected to be admitted to the program as matriculated students before taking coursework leading to the degree. Students apply through USU School of Graduate Studies: https://gradschool.usu.edu/admissions/

Additional information about the Master of Education in School Counseling Program may be obtained by visiting https://cehs.usu.edu/psychology/masters/ and/or contacting the Program Coordinator: https://cehs.usu.edu/psychology/people/campbell-meg.

Program Requirements

Total Credits Required In Program Coursework
49

Total Credits Required To Earn This Credential
49

Simple Requisites

Program Requirements

School of Graduate Studies Requirements:

• Degree Verification: A bachelor's degree from an accredited U.S. college or university or a similarly recognized international university is required for admission to and completion of a graduate program. An official transcript must be sent directly to the School of Graduate Studies.
• Overall Graduate GPA at least 3.0 and no grades of C- or lower: Graduate students are required to maintain at least a 3.0 GPA for degree-program courses. Grades of C- or lower will not be accepted for a graduate degree.
• Course Number Acceptability: The program of study for a master's degree cannot include more than 12 semester credits of courses at the 5000 level. Credits in the following areas are not acceptable in a degree program: foreign languages (unless included in an approved Program of Study), continuing graduate advisement, individual home study, military science, and courses numbered below 5000.
• Matriculation Start Semester: A master's degree must be completed within six years of entering the degree program. Additional time may be requested by the student's advisor and submitted to the Vice Provost of Graduate Studies for review.
• Coursework Validity: Coursework over eight years old at the time of degree completion may not be used for a graduate degree unless it is revalidated by the Vice Provost of Graduate Studies.
• Master's forms: Approval of the Program of Study is required by the School of Graduate Studies.

Program Requirements

The MEd in School Counseling program requires a minimum of 49 credits. Programming is delivered through various tracks, outlined on the MEd in School Counseling web page. All courses in the MEd in School Counseling Program of Study require a grade of B- or higher. Grades below a B- will not be accepted. Students who receive below a B- in a course must retake the course. Students must maintain a 3.0 GPA for degree-program courses.

School Counseling - MEd

Type
Completion Requirement

Required Courses (40 credits)

Complete ALL of the following Courses:

- PSY6060 - Introduction to Statistics in School Counseling - 1cr.
- PSY6130 - Evidence-Based Practice: School Intervention - 3cr.
- PSY6240 - Comprehensive and Systemic School Counseling Programs - 3cr.
- PSY6260 - Career Literacy and Development for School Counselors - 3cr.
- PSY6290 - Diversity Issues in Treatment and Assessment - 1cr.
- PSY6330 - Evidence-Based Practice: School Assessment and Measurement - 3cr.
- PSY6350 - Introduction to Theories of Intervention in Psychology - 3cr.
- PSY6390 - Program Evaluation in the Schools: Models and Guidelines - 3cr.
- PSY6420 - Group Counseling in the Schools - 3cr.
- PSY6460 - Ethical, Legal and Professional Issues in School Counseling - 3cr.
- PSY6580 - Collaborative Classroom Instruction, Leadership and Professional Topics - 3cr.
- PSY6530 - Developmental Psychology - 3cr.

- PSY6610 - College and Career Readiness for School Counselors - 3cr.
- PSY6770 - Pre-Practicum: Counseling Skills and Techniques - 3cr.

NOTE:

1. PSY6290 DIVERSITY TREAT/ASSMNT- Must complete 3 credits.

Required Experiential Components (9 credits)

Complete ALL of the following Courses:

- PSY6775 - Practicum in School Counseling - 3cr.
- PSY6780 - Internship in School Counseling - 1cr.

NOTE:

1. PSY6775 PRACT SCHOOL COUNSELING - Requires 100 hours in a K-12 public, private, or charter school.
2. PSY6780 INTERN SCHOOL COUNSELING - Requires 600 hours in a K-12 public, private or charter school. ***6 credits are required.***
3. Starting with the Fall 2026 cohort, students will be required to complete 300 hours in Internship 1, and 300 hours in Internship 2. Check with the Graduate Program Coordinator for specific courses.

Praxis Exam

See the following:
A passing score on the Professional School Counselor Praxis exam is required for graduation from the program. All students are required to take Praxis Exam 5422 and score 153 or higher to successfully complete the program and be recommended for licensure in the state of Utah.

Program Learning Outcomes

Program Learning Outcomes
https://cehs.usu.edu/psychology/assessment/index

School Leadership - Higher Education/Student Affairs - MEd (NOT CURRENTLY OFFERED)

Program Overview

College
College of Education & Human Services

Department
School of Teacher Education & Leadership

Program Level
Graduate

About this Degree

NOT CURRENTLY OFFERED

The MEd in School Leadership (Higher Education/Student Affairs Specialization) is not currently offered at this time. The program prepares professionals for careers as leaders in higher education, student affairs, religious and private education, and other education-related fields. If you are interested in any college/university professional staff position, this program can be tailored to fit your goals.

The program provides opportunities for skill development, collaboration, and community building within higher education settings and provides a unique look into education leadership through internship and practical coursework taught by current leaders in college and university settings.

Program Requirements

Total Credits Required In Program Coursework
-

Total Credits Required To Earn This Credential
-

Program Learning Outcomes

Program Learning Outcomes
https://cehs.usu.edu/teal/assessment/masters-aaa

School Leadership - MEd

Program Overview

College
College of Education & Human Services

Department
School of Teacher Education & Leadership

Program Level
Graduate

About this Degree

The Master of Education in School Leadership (Plan C) is designed for classroom teachers and educators who want to become school and/or educational leaders. We use the Utah Effective Leadership Standards to prepare educators across the state of Utah to meet the demands placed on today's instructional leaders. Coursework encompasses leadership and management with a specific focus on curriculum and instruction. The program prioritizes the effective use of data to inform successful school improvement for the diverse learners in our schools. Upon successful completion, graduates are recommended to the Utah State Board of Education for a license in School Leadership.

Program Delivery: All courses in our program are delivered online. Most classes include interactive Zoom sessions totaling up to 9 hours per semester (for example, six 90-minute sessions). Class meetings are typically held at either 4:30 PM or 7:15 PM.

Students can complete coursework from anywhere with reliable Wi-Fi and a device that supports Zoom and Canvas. Because of this flexibility, our students come from across Utah, bringing a rich diversity of school settings, geographic perspectives, and professional experiences to the program.

Program Structure: Our program does not follow a cohort model, allowing students to move through coursework at their own pace and learn alongside a variety of peers.

Students are required to take:
• TEAL6080 LEADERSHIP AND SCHL PRINCIPAL during their first semester
• TEAL6930 SUPRVSN/ADMIN INTERN SEMINAR during their final semester

All other courses are offered two out of every three semesters, with a full range of courses available during the summer. This structure supports working professionals while fostering meaningful collaboration across diverse groups of educators.

For additional admission information, including contact information, please visit the department's School Leadership webpage.

Admission Requirements for this Program

Your application will require you to submit:

1. Three recommendations. One recommendation should be from your immediate supervisor (typically your current principal). One recommendation should be from someone from the district office or higher leadership position who knows your leadership abilities/ potential. The third recommendation should be a person of your choice who knows your leadership experience.
2. Official transcripts which list your awarded degree(s). (Not needed if degree is from USU.)
3. Copy of current teaching license
4. Evidence of clearing a USBE fingerprint background check. You can access your license and background check on the state page. Take a screen shot and upload to application.
5. Evidence of being deemed effective or higher by your district or charter summative evaluation system.
6. Statement of Purpose: Describe why you want to earn a graduate degree, and the experiences and qualifications that make you a strong candidate for advanced study (500 word limit).

After completing the admissions application, you will be invited to participate in a 15-minute Zoom interview with the admissions committee.

*Recommended 3-5 years of teaching experience

****Current teaching license is required**

Deadline for applications: March 1st, June 1st, and November 1st

Program Requirements

Total Credits Required In Program Coursework
30

Total Credits Required To Earn This Credential
30

Simple Requisites

Program Requirements

School of Graduate Studies General Graduation Guidelines:

Degree Verification: A bachelor's degree from an accredited U. S. college or university or a similarly recognized international university is required for admission to and completion of a graduate program.
Overall Graduate GPA: At least 3.0 and no grades of C- or lower. Graduate students are required to maintain at least a 3.0 GPA for degree-program courses. Grades of C- or lower will not be accepted for a graduate degree.
Course Number Acceptability: The Program of Study for a master's degree must include at least 18 semester credits at the level of 6000 or above. The program of study may include up to 12 semester credits of 5000 level courses.
Matriculation Start Semester: A master's degree must be completed within six years of entering the degree program. Additional time may be requested and submitted to the Vice Provost of Graduate Studies for review.
Required Master's Forms (Professional/Plan C): Approval of academic forms required for master's students by the School of Graduate Studies

- Program of Study
- Graduation Application

Department Requirements:

Embedded Internship:
Internship experiences are embedded within coursework, allowing students to directly apply what they are learning to real-world leadership practice aligned with Utah state standards.

In the first course, students complete 12 hours of shadowing. Beyond that, internship activities are integrated into coursework and can typically be completed with minimal time away from a student's current position.
Students are required to complete internship experiences in both elementary and secondary settings. While students are responsible for identifying their own internship sites (which may include their current school), faculty provide guidance and support throughout the process.

Course Offerings:
Students will take 27 credit hours (or nine 3-credit courses), plus one 3-credit elective course from Curriculum and Instruction Core course offerings—for a total of 30 credits. To see planning guide and course offerings, please refer to our School Leadership webpage.

School Leadership - MEd

Type
Completion Requirement

Curriculum and Instruction Core (3 credits)

Complete at least 1 of the following courses:

- TEAL6150 - Foundations of Curriculum - 3cr.
- TEAL6190 - Theories of Learning and Models of Teaching -

3cr.
- TEAL6410 - Social Foundations of Education - 3cr.
- TEAL6710 - Diversity in Education - 3cr.

Instructional Leadership Core Courses (27 credits)

Complete ALL of the following Courses:
- TEAL6080 - Leadership and the School Principal - 3cr.
- TEAL6050 - Theories of Instructional Supervision - 3cr.
- TEAL6060 - Instructional Leadership: Assessment for Curricular - 3cr.
- TEAL6330 - Leadership in the School Community - 3cr.
- TEAL6090 - Theories of Organizational Leadership in Education - 3cr.
- TEAL6280 - Instructional Leadership: Instructional Practices for Diverse Learners - 3cr.
- TEAL6500 - School Finance and Resource Management - 3cr.
- TEAL6740 - School Law - 3cr.
- TEAL6930 - Supervision and Administrative Internship Seminar - 3cr.

Disclosure of Educational Requirements for Licensure by State

Licensure
This program adheres to the Utah Educational Leadership Standards and prepares students for entry into the profession of school administration. Given the varied and changing requirements across jurisdictions, USU has not determined and cannot assure that graduates will meet all requirements for licensure in all states or territories. Students are encouraged to become familiar with relevant state licensing laws and discuss their curricular plan with their advisor.

This program meets requirements in Utah.

USU has not determined if the program meets requirements in: AK, AL, AR, AS, AZ, CA, CO, CT, DC, DE, FL, GA, GU, HI, IA, ID, IL, IN, KS, KY, LA, MA, MD, ME, MI, MN, MO, MP, MS, MT, NC, ND, NE, NH, NJ, NM, NV, NY, OH, OK, OR, PA, PR, RI, SC, SD, TN, TX, UM, VA, VI, VT, WA, WI, WV, WY.

Program Learning Outcomes

Program Learning Outcomes
https://cehs.usu.edu/teal/assessment/masters-aaa

School Leadership - Post-Master's Certificate

Program Overview

College
College of Education & Human Services

Department
School of Teacher Education & Leadership

Program Level
Graduate

About this Degree
The School Leadership Certificate is designed for classroom teachers and educators who want to become school and/or educational leaders and already hold a master's degree in education. We use the Utah Effective Leadership Standards to prepare educators across the state of Utah to meet the demands placed on today's instructional leaders. Coursework encompasses leadership and management with a specific focus on curriculum and instruction. The program prioritizes the effective use of data to inform successful school improvement for the diverse learners in our schools. Upon successful completion, graduates are recommended to the Utah State Board of Education for a license in School Leadership.

Program Delivery: Our program is considered a virtual online program. This includes online courses that are fully asynchronous or a combination of asynchronous and synchronous with scheduled meetings via Zoom. Course meetings occur no earlier than 4:30 pm. Students can complete the coursework anywhere they have WIFI and a device that is supported by Zoom and Canvas. Our students and faculty are located all throughout the state of Utah.

Internship: Students are expected to accomplish a series of experiences as part of this more competency-based approach for their internship. Students are required to select both elementary and secondary internship sites to complete the competencies included in the Utah Effective Leadership Standards. Students are asked to find their own internship sites/mentor principals, assistance is provided if needed. Many students use their current school of employment as one of these sites.

Program Verification and application information:

- A master's degree in education from an accredited U. S. college or university or a similarly recognized international university is required for admission. In that graduate program, students must have an overall GPA of at least a 3.0 and no grades of C- or lower
- Once admitted students are required to maintain at least a 3.0 GPA. Grades of C- or lower will not be accepted
- No GRE needed for admission
- Recommended 3-5 years of teaching experience
- Current teaching license is required

Program Requirements

Total Credits Required In Program Coursework
27

Total Credits Required To Earn This Credential
27

Simple Requisites

Program Requirements
- Students will take 27 credit hours (or nine, 3-credit courses). Each course is offered two out of three semesters per year, with the exception of the first required course TEAL6080 LEADERSHIP AND SCHL PRINCIPAL, and the last required course, TEAL6930 SUPRVSN/ADMIN INTERN SEMINAR. Both courses are taught each semester.
- Planning guides with course semester availability are available on the TEAL website: School of Teacher Education & Leadership | US

School Leadership - Post-Master's Certificate

Type
Completion Requirement

Required Courses (27 credits)

Earn a minimum grade of C- in the following:

- TEAL6080 - Leadership and the School Principal - 3cr.
- TEAL6050 - Theories of Instructional Supervision - 3cr.
- TEAL6060 - Instructional Leadership: Assessment for Curricular - 3cr.
- TEAL6090 - Theories of Organizational Leadership in Education - 3cr.
- TEAL6280 - Instructional Leadership: Instructional Practices for Diverse Learners - 3cr.
- TEAL6330 - Leadership in the School Community - 3cr.
- TEAL6500 - School Finance and Resource Management - 3cr.
- TEAL6740 - School Law - 3cr.
- TEAL6930 - Supervision and Administrative Internship Seminar - 3cr.

NOTES:

1. TEAL6080 LEADERSHIP AND SCHL PRINCIPAL must be taken first semester.
2. TEAL6930 SUPRVSN/ADMIN INTERN SEMINAR must be taken last semester.

Additional Comments:

Disclosure of Educational Requirements for Licensure by State

This program adheres to the Utah Educational Leadership Standards and prepares students for entry into the profession of school administration. Given the varied and changing requirements across jurisdictions, USU has not determined and cannot assure that graduates will meet all requirements for licensure in all states or territories. Students are encouraged to become familiar with relevant state licensing laws and discuss their curricular plan with their advisor.

This program meets requirements in Utah.

USU has not determined if the program meets requirements in: AK, AL, AR, AS, AZ, CA, CO, CT, DC, DE, FL, GA, GU, HI, IA, ID, IL, IN, KS, KY, LA, MA, MD, ME, MI, MN, MO, MP, MS, MT, NC, ND, NE, NH, NJ, NM, NV, NY, OH, OK, OR, PA, PR, RI, SC, SD, TN, TX, UM, VA, VI, VT, WA, WI, WV, WY.

Program Learning Outcomes

Program Learning Outcomes
https://cehs.usu.edu/about/assessment

School Resource Officers - Certificate

Program Overview

College
College of Arts & Sciences

Department
School of Social Sciences

Program Level
Undergraduate

About this Degree
Crime in schools is a complex subject that is heavily tied to issues of class, race, and gender. A Schools response to crime should be nuanced and guided by evidence-based practices. The aim of this certificate is to foster a culture within local agencies, schools, communities and juvenile court institutions that embraces multiple perspectives and evidence-based practices.

One of the most important ways the School of Social Sciences can serve the public is by educating future school criminal justice practitioners to be culturally aware in the maintenance of formal social control. In keeping with this aim, the proposed certificate strategically integrates curriculum from the USU Department of Social Work to prepare professionals to individuals experiencing juvenile mental health crises while caring for their own wellbeing. Thus, students earning this certificate will have the socially informed education required to operate in school and youth communities.

Program Requirements

Total Credits Required In Program Coursework
9

Total Credits Required To Earn This Credential
9

Simple Requisites

Program Requirements

School Resource Officers - Certificate

Type
Completion Requirement

Required Courses (6 credits)

Complete ALL of the following Courses:

- CJ3110 - School Resource Officer: Safety and Crime Prevention in an Educational Setting - 3cr.
- SW3450 - School Social Work - 3cr.

Required Course (3 credits)

Complete ANY of the following Courses:

- CJ1030 - Introduction to Firearms Handling/Safety - 3cr.
- CJ2110 - Managing Security: Threats, Risk, and Leadership - 3cr.
- CJ2330 - Juvenile Justice - 3cr.
- PSY2100 - Developmental Psychology: Adolescence - 3cr.
- SW3350 - Child Welfare - 3cr.
- SW3360 - Adolescents: Theories, Problems, and Issues - 3cr.

Minimum University Requirements

Minimum University Requirements
Minimum University Requirements (Undergraduate Academic or Technical Certificates)

Program Learning Outcomes

Program Learning Outcomes

Understand and demonstrate the basics of firearm safety. Demonstrate understanding of the roles of School Resource Officers and School Social Workers; K-12 security best practices; and child welfare.; involves skills in school social work. Comprehend application of principles of child welfare, adolescent issues, and juvenile justice in a workplace environment.

Social Dimensions of Climate Change and Environmental Justice - Minor

Program Overview

College
College of Arts & Sciences

Department
School of Social Sciences

Program Level
Undergraduate

About this Degree

This is a 15-credit minor in Social Dimensions of Climate Change and Environmental Justice. To be equipped to address the multi-faceted, multi-scalar issues of Social Dimensions of Climate Change and Environmental Justice, students need an understanding of both the social and natural dimensions of this socio-environmental issue. Climate change refers to long term shifts in temperature and weather patterns. It has social drivers and social impacts, which are characterized by inequality from the local to the global scale. Environmental justice approaches focus on fair and equitable outcomes and meaningful involvement and participation in response to environmental issues. Environmental justice is intersectional and interdisciplinary and relates to inequality based on class, gender, race, ethnicity, Indigeneity, sexuality, disability, etc., and spans local to global scales.

This minor in Social Dimensions of Climate Change and Environmental Justice prepares students to understand and address in their personal and professional lives some of the myriad aspects of climate change, a challenge that many deem to be the greatest of our time. Students learn about natural and social science theories and methods related to studying this issue. It will also prepare students to understand and, if desired, support environmental justice efforts in their personal and professional lives. Students learn about environmental justice theories, efforts, and case studies from the local to the global level and will gain a deeper understanding of the related processes of inequality. Students who complete this minor will gain foundational knowledge about Social Dimensions of Climate Change and Environmental Justice, preparing them to work to address climate change and other environmental issues with an approach that considers equity, including in academic, government, nonprofit, and corporate settings.

Program Requirements

Total Credits Required In Program Coursework
15

Total Credits Required To Earn This Credential
15

Simple Requisites

Program Requirements

- Required credits: 15
- Maximum credits: 21
- Required courses: 2 (6 credits)
- Elective courses: 3 (9 credits)

The minor requires the completion of 15-credits with a grade of C or better, at least 50% of which must be taken at USU. Courses taken pass/fail will not count towards the minor. Courses more than 10 years old will not count towards the minor.

The GPA required to declare the minor is 2.5 USU and 2.5 overall, and the GPA required to earn the minor is 2.25 in the courses taken to fulfill minor requirements.

Section 1

Type
Completion Requirement

Required Courses (6 credits)

Complete ALL of the following Courses:

- SOC3300 - Sociology of Climate Change - 3cr.
- SOC3310 - Environmental Justice - 3cr.

Section 2

Type
Completion Requirement

Elective Courses (9 credits minimum)

Select one elective, from at least two different programs as indicated by the course prefix, from three of the five categories:

- Axes of Inequality
- Social Change
- A Deeper Dive into Social Science Perspectives on Socio-Environmental Issues
- A Deeper Dive into Humanities Perspectives on Socio-Environmental Issues
- Climate Change through a Natural Sciences Lens

Earn at least 9 credits

Course options for Axes of Inequality:

Complete ANY of the following Courses:

- CJ4200 - Criminal Justice Ethics - 3cr.
- CJ4440 - The Origins of the United States Criminal Justice System (DSS) - 3cr.
- SOC2370 - Sociology of Gender (BSS) - 3cr.
- SOC2630 - Sociology of Race and Ethnicity (BSS) - 3cr.
- SOC2650 - Globalization and International Development (BSS) - 3cr.
- SOC3010 - Social Inequality (DSS) - 3cr.
- SOC3330 - Medical Sociology (DSS) - 3cr.
- SOC3520 - Sociology of Mental Illness - 3cr.
- SOC3610 - Rural People and Places (DSS) - 3cr.
- SOC3750 - Sociology of Aging (DSS) - 3cr.
- SOC4410 - Race and Crime (CI) - 3cr.

Course options for Social Change:

Complete ANY of the following Courses:

- CJ3400 - Tribal Criminal Justice Systems - 3cr.
- CMST3280 - Organizations and Social Change - 3cr.
- CMST4260 - Environmental Communication - 3cr.
- ENVS3010 - Natural Resource and Environmental Policy - 3cr.
- ENVS4030 - Building Community Environmental Resilience - 3cr.
- ENVS6030 - Building Community Environmental Resilience - 3cr.
- GEOG3100 - Human-Environment Geography (CI) - 3cr.
- GEOG5120 - Environment and Development in Latin America (CI) - 3cr.
- GEOG5400 - Natural Hazards and Society - 3cr.
- POLS3400 - United States Foreign Policy (DSS) - 3cr.
- POLS4410 - International Negotiations - 3cr.
- SOC2650 - Globalization and International Development (BSS) - 3cr.
- SOC3340 - Activism, Protest, and Social Movements (DSS) - 3cr.
- SOC3600 - Finding Community in Today's Society (DSS) - 3cr.
- SOC6620 - Environment, Technology, and Social Change - 3cr.
- SOC6640 - Multispecies Justice and Indigenous Environmentalisms - 3cr.
- TCR4220 - Technology and Activism - 3cr.

Course options for A Deeper Dive into Social Science Perspectives on Socio-Environmental Issues:

Complete ANY of the following Courses:

- ANTH3320 - Archaeology of Climate Change (DSS) - 3cr.
- ANTH3240 - Anthropology of Disease (DSC) - 3cr.
- ANTH4650 - Utah's Public Lands: Past, Present, Future (DSS/HASS) - 3cr.
- ANTH5200 - Anthropological Perspectives on Conservation - 3cr.
- CAI5600 - Biosecurity I - 3cr.
- CAI5610 - Biosecurity II - 3cr.
- CAI5620 - Food Security and Solutions - 3cr.
- ENVS3010 - Natural Resource and Environmental Policy - 3cr.
- ENVS4000 - Human Dimensions of Natural Resource Management (DSS) - 3cr.
- ENVS4200 - Sustainability Metrics - 3cr.
- ENVS4700 - Communicating Sustainability (CI) - 3cr.
- ENVS5100 - Introduction to Modeling Human-Environment Systems - 3cr.
- ENVS5350 - Ecological Economics - 3cr.
- GEOG3100 - Human-Environment Geography (CI) - 3cr.
- GEOG5120 - Environment and Development in Latin America (CI) - 3cr.
- GEOG5400 - Natural Hazards and Society - 3cr.
- POLS4820 - Natural Resources and Environmental Policy: Political Economy of Environmental Quality (DSS) - 3cr.
- SOC4620 - Sociology of the Environment and Natural Resources (DSS) - 3cr.
- SOC6640 - Multispecies Justice and Indigenous Environmentalisms - 3cr.
- SOC6620 - Environment, Technology, and Social Change - 3cr.

Course options for A Deeper Dive into Humanities Perspectives on Socio-Environmental Issues:

Complete ANY of the following Courses:

- ENGL3640 - Nature Writing (DHA) - 3cr.
- ENGL4630 - Environmental Justice Literature - 3cr.
- HIST3530 - African Environmental History (DHA) - 3cr.
- HIST3950 - Environmental History (DHA/CI) - 3cr.
- HIST4510 - American Metropolis: Cities and Suburbs in United States History (DHA) - 3cr.
- HIST4625 - The History of Natural Disasters (DHA) - 3cr.

Course options for Climate Change through a Natural Sciences Lens:

Complete ANY of the following Courses:

- ENVS5750 - Global Change Ecology - 3cr.
- GEO1360 - Planet Earth (BPS) - 3cr.
- GEO3150 - Energy in the Twenty-first Century (DSC/QI) - 3cr.
- LAEP1040 - Introduction to Environmental Planning and Sustainable Development (BLS) - 3cr.
- PSC1800 - Introduction to Horticulture (BLS) - 3cr.
- PSC2000 - The Atmosphere and Weather (BPS) - 3cr.
- PSC2010 - Soils, Waters, and the Environment (BPS) - 3cr.
- PSC2700 - Climate Change Impacts (BPS) - 3cr.
- PSC4810 - Climate and Climate Change (DSC)(QI) - 3cr.
- PSC5090 - Sustainable Low Water Landscaping - 3cr.
- WATS1200 - The Natural World and Our Place Within It (BLS) - 3cr.

- WATS3700 - Fundamentals of Watershed Science (CI) - 3cr.

Program Learning Outcomes

Program Learning Outcomes

https://chass.usu.edu/assessments/

Social Dimensions of Climate Change - Institutional Certificate of Proficiency

Program Overview

College
College of Arts & Sciences

Department
School of Social Sciences

Program Level
Undergraduate

About this Degree

This is a 9-credit micro certificate, Social Dimensions of Climate Change. To be equipped to address the multi-faceted, multi-scalar issue of climate change, students, regardless of the career path they choose, need an understanding of both the social and natural dimensions of this socio-environmental issue. Climate change refers to long-term shifts in temperature and weather patterns. It has social drivers and social impacts, which are characterized by inequality from the local to the global scale.

This micro certificate in Social Dimensions of Climate Change prepares students, including and especially those not focusing on environment and society relationships with their major area of study, to understand and address in their personal and professional lives some of the myriad aspects of climate change, a challenge many deem to be the greatest of our time. Students learn about social science theories and methods related to studying this issue and gain some background knowledge on natural science components. Students who complete this certificate will be better prepared to work to address climate change moving forward and contribute insights about climate change to various fields, including in academic, government, nonprofit, and corporate settings.

Program Requirements

Total Credits Required In Program Coursework
9

Total Credits Required To Earn This Credential
9

Simple Requisites

Program Requirements

- Required credits: 9
- Maximum credits: 15
- Required course: 1 (3 credits)
- Elective courses: 2 (6 credits)

The micro certificate requires the completion of 9 credits with a grade of C or better, at least 50% of which must be completed at USU. Courses taken pass/fail will not count towards the micro certificate. Courses more than 10 years old will not count towards the micro certificate. To enroll in the micro certificate, students must have a GPA of 2.5 at USU and 2.5 overall. GPA required to earn the certificate is 2.25 in the courses applying toward the certificate.

This micro certificate must be attached to a bachelor's degree.

Social Dimensions of Climate Change - ICP

Type
Completion Requirement

Required Course (3 credits)

Complete ALL of the following Courses:

- SOC3300 - Sociology of Climate Change - 3cr.

Elective Courses (6 credits minimum)

Select one elective from **A Deeper Dive into Socio-Environmental Issues Courses (3 credits minimum)** and one elective from **Climate Change through a Natural Sciences Lens Courses (3 credits minimum)**.

Fulfill ALL of the following requirements:

Course options for A Deeper Dive into Socio-Environmental Issues

Complete at least 1 of the following courses:

- ANTH3240 - Anthropology of Disease (DSC) - 3cr.
- ANTH3320 - Archaeology of Climate Change (DSS) - 3cr.
- ANTH4650 - Utah's Public Lands: Past, Present, Future (DSS/HASS) - 3cr.
- ANTH5200 - Anthropological Perspectives on Conservation - 3cr.
- CAI5600 - Biosecurity I - 3cr.
- CAI5610 - Biosecurity II - 3cr.
- CAI5620 - Food Security and Solutions - 3cr.
- ENGL3640 - Nature Writing (DHA) - 3cr.
- ENGL4630 - Environmental Justice Literature - 3cr.
- ENVS3010 - Natural Resource and Environmental Policy - 3cr.
- ENVS4000 - Human Dimensions of Natural Resource Management (DSS) - 3cr.
- ENVS4200 - Sustainability Metrics - 3cr.
- ENVS4700 - Communicating Sustainability (CI) - 3cr.
- ENVS5100 - Introduction to Modeling Human-Environment Systems - 3cr.
- ENVS5350 - Ecological Economics - 3cr.
- GEOG3100 - Human-Environment Geography (CI) - 3cr.
- GEOG5120 - Environment and Development in Latin America (CI) - 3cr.
- GEOG5400 - Natural Hazards and Society - 3cr.
- HIST3530 - African Environmental History (DHA) - 3cr.
- HIST3950 - Environmental History (DHA/CI) - 3cr.
- HIST4510 - American Metropolis: Cities and Suburbs in United States History (DHA) - 3cr.
- HIST4625 - The History of Natural Disasters (DHA) - 3cr.
- POLS4820 - Natural Resources and Environmental Policy: Political Economy of Environmental Quality (DSS) - 3cr.
- SOC3310 - Environmental Justice - 3cr.
- SOC4620 - Sociology of the Environment and Natural Resources (DSS) - 3cr.
- SOC6620 - Environment, Technology, and Social Change - 3cr.
- SOC6640 - Multispecies Justice and Indigenous Environmentalisms - 3cr.

AND

Course options for Climate Change through a Natural Sciences Lens

Complete at least 1 of the following courses:

- ENVS5750 - Global Change Ecology - 3cr.
- GEO1360 - Planet Earth (BPS) - 3cr.
- GEO3150 - Energy in the Twenty-first Century (DSC/QI) - 3cr.
- LAEP1040 - Introduction to Environmental Planning and Sustainable Development (BLS) - 3cr.
- PSC1800 - Introduction to Horticulture (BLS) - 3cr.
- PSC2000 - The Atmosphere and Weather (BPS) - 3cr.
- PSC2010 - Soils, Waters, and the Environment (BPS) - 3cr.
- PSC2700 - Climate Change Impacts (BPS) - 3cr.
- PSC4810 - Climate and Climate Change (DSC)(QI) - 3cr.
- PSC5090 - Sustainable Low Water Landscaping - 3cr.
- WATS1200 - The Natural World and Our Place Within It (BLS) - 3cr.
- WATS3700 - Fundamentals of Watershed Science (CI) - 3cr.

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Undergraduate Academic or Technical Certificates)

Program Learning Outcomes

Program Learning Outcomes

https://chass.usu.edu/assessments/

Social Determinants of Crime - Certificate

Program Overview

College
College of Arts & Sciences

Department
School of Social Sciences

Program Level
Undergraduate

About this Degree

The Undergraduate Certificate in Social Determinants of Crime will be housed and administered by USU's Sociology, Anthropology, and Criminal Justice (SACJ) department in the College of Humanities and Social Sciences. The curriculum will include currently offered undergraduate courses. While only three courses are required for certificate completion, students will be welcome and invited to take additional courses of electives.

Program Requirements

Total Credits Required In Program Coursework
9

Total Credits Required To Earn This Credential
9

Simple Requisites

Program Requirements

Certificate completion will require three courses totaling 9 credit hours. This includes two required courses. In addition to the two required courses, students will select one elective course from the list of options.

Social Determinants of Crime - Certificate

Type
Completion Requirement

Required Courses (6 credits)

Complete ALL of the following Courses:

- CJ3370 - Gender-Based Violence - 3cr.
- SOC3430 - Social Deviance (DSS) - 3cr.

Required Courses (3 credits)

Complete at least 1 of the following courses:

- ANTH3200 - Perspectives on Race (DSS/CI) - 3cr.
- SOC4410 - Race and Crime (CI) - 3cr.

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Undergraduate Academic or Technical Certificates)

Program Learning Outcomes

Program Learning Outcomes

Objectives:

1- Students will explore the relationship between gender and violence through the lens of intersectionality, analyzing how marginalized identities intersect with various forms of violence, including sexual assault, intimate partner violence, and systemic violence.

2- Students will examine sociological perspectives on deviance, focusing on how they apply to lifestyles, commitment, and social control in American society.

3- Students will explore the racial and ethnic disparities in incarceration in the United States, examining the social, political, and historical factors behind minority overrepresentation in the criminal justice system, while studying the processes of racial differentiation and the role of biology, culture, and social context in shaping perceptions of race.

Secondary Education - 2nd BA, BS

Program Overview

College
College of Education & Human Services

Department
School of Teacher Education & Leadership

Program Level
Undergraduate

About this Degree

The second bachelor's degree in secondary education is designed for students who have earned their first bachelor's in a subject taught in secondary schools. They can complete this degree and take the courses needed to qualify for licensure to teach in middle schools and high schools. Students who have already completed requirements for a bachelor's degree and who are seeking a second bachelor's degree and/or teacher licensure must have a GPA of at least 3.00 in the last 60 credits of academic work.

Qualifying subject areas include chemistry, English, geography, history, health education, mathematics, physics, biology, theater arts, certain foreign languages, and more. Since each student's academic background is different, they will need to see an advisor for more information on approved teaching areas and to create an individualized plan of study.

The length of time required to complete the program varies, but if students have already completed the coursework required for an approved teaching major and minor in their first bachelor's degree, they will only have to complete the teacher education courses and student teaching, which takes approximately three semesters. Typically the program takes longer than this, as most students need to take additional courses in their chosen teaching major area or complete a teaching minor in its entirety.

University policy requires that students seeking a second BS or BA degree must obtain a minimum of 30 semester credits from USU. Students receive a second **BS** by completing all required courses in the major. To receive a second **BA**, students must also gain proficiency in one or more foreign languages. See Undergraduate Academic Credential Requirements for required language courses.

Program Requirements

Total Credits Required In Program Coursework
35

Total Credits Required To Earn This Credential
35

Simple Requisites

Program Requirements

Education Component:

In order to obtain a secondary teaching license for grades 6-12, students must complete the 35-credit Secondary Teacher Education Program (STEP), which includes one semester of student teaching in a public school. This program is administered by USU's School of Teacher Education and Leadership (TEAL) within the Emma Eccles Jones College of Education and Human Services.

Some courses may be waived due to previous coursework.

**A dual licensure program is available for Special Education Mild/Moderate Emphasis majors with elementary education majors in the School of TEAL. See website for more information cehs.usu.edu/sperc/sped/undergrad/main-campus/mild-moderate-options.

**A dual licensure program is available for Special Education Severe Emphasis majors with secondary education content majors in the School of TEAL See website for more information cehs.usu.edu/sperc/sped/undergrad/main-campus/severe-options.

35 Credits Required

Type
Completion Requirement

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Bachelor's Degree)

Suggested Degree Maps

Degree Map Name
Suggested Degree Map - Secondary Education - 2nd BA, BS
Total Degree Map Credits
120
Degree Map Effective Catalog Year
2026 -

Degree Map Narrative

- Following is a sample four-year plan. Please note that student-specific plans may differ.
- Meet with an academic advisor to create a specific plan that best fits your academic needs.
- The student is ultimately responsible for knowing and completing all degree requirements.
- Make sure you meet the registration requirements for each class by clicking the course link and checking any prerequisites or corequisites.
- Consultation with an advisor may result in an altered plan customized for an individual student.
- Check your Degree Works for requirements and completion.

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	16	0

Requirement Select

- ENGL1010 - Writing as Inquiry (CL1)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- RAM1000 - Introduction to Recreation Services

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select

- Quantitative Literacy (QL) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Breadth Life Sciences (BLS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Breadth Humanities (BHU) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- USU1010 - University Connections

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	15	0

Requirement Select

- ENGL2010 - Research and Argument Across Perspectives (CL2)

  OR
- ENGL2020 - Professional Communication (CL2)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- RAM1500 - Leisure and Human Behavior (BSS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- RAM2300 - Fundamentals of Sport Management

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Breadth American Institutions (BAI) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Breadth Physical Sciences (BPS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	14	0

Requirement Select

- RAM2000 - Recreational Sport Management

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- RAM3900 - Civic Engagement in Recreation and Sports

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- RAM1888 - Leadership from the Sideline

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select

- Breadth Creative Arts (BCA) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	16	0

Requirement Select

- RAM3400 - Outdoor Education and Facilitation

OR

- HEP4400 - Community and Organizational Leadership, Policy, and Advocacy

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- RAM2250 - RAM Cooperative Work Experience

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- RAM3100 - Experience and Sport Promotion and Marketing

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Elective course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Fall	15	0

Requirement Select
- RAM4000 - Experience and Event Design

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- RAM4200 - Community-Based Program Planning, Implementation, and Evaluation

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- RAM5130 - Data Analytics and Data Driven Decision Making in Sports

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- KIN4000 - Mental Aspects of Sports Performance

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Depth Life and Physical Sciences (DSC) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Spring	15	0

Requirement Select
- RAM4600 - Legal Issues and Risk Management of Recreation

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- KIN5430 - History and Philosophy of Physical Activity and Sport (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- RAM4205 - Program Management and Evaluation for Health Education

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Fall	15	0

Requirement Select
- RAM4800 - Senior Seminar (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- RAM4500 - Management of Recreation Services

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- RAM4400 - Recreation and Park Facility Planning and Management

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Spring	14	0

Requirement Select
- RAM4900 - Internship in Recreation Services

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	6
Clinical	-
Criticality	No

Requirement Select
- Depth Humanities and Creative Arts (DHA) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	Total Major Credits
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Program Learning Outcomes

Program Learning Outcomes

https://cehs.usu.edu/teal/assessment/undergrad-aaa

Special Education: Birth to 5 Emphasis/Early Childhood Education Composite - BA, BS

Program Overview

College
College of Education & Human Services

Department
Special Education & Rehab Counseling, School of Teacher Education & Leadership

Program Level
Undergraduate

About this Degree

This degree is a combination of courses required for the early childhood education major and the special education major with Birth to Age Five emphasis.. Students who complete this composite degree are eligible for two licenses, one for special education preschool (birth to age 5) and one for elementary education (K-3). Students gain content knowledge through the early childhood education program and learn strategies for teaching diverse learners through the special education program.

This degree gives students the opportunity to have more flexibility in their careers. Having both licenses allows teachers to move back and forth between special education and elementary education. Most teachers will have students with disabilities in their classrooms, and this composite degree makes them more qualified to meet the unique educational needs of these students.

- For more information about Elementary Education, see the website.
- For more information about Special Education, see the website.
- Admitted and current students must meet with an academic advisor.
- Log on to Degree Works to check student-specific program progress.
- The highest Math requirement for this degree is MATH2020 GEOMETRY/STAT ELED TEACH(QI).
- For Bachelor of Arts (BA) degrees see Undergraduate Academic Credential Requirements for language requirements.

Admission Requirements for this Program

- New freshmen must be admitted to USU in Good Standing.
- Transfer students from other institutions or other programs at USU must have a 2.0 GPA.

Program Requirements

Total Credits Required To Earn This Credential

126

Simple Requisites

Program Requirements

This program requires a GPA of 3.0 in required major courses. Program requirements may not be taken for a pass/fail grade, except for those courses that are only taught pass/fail. In addition to satisfying the basic Communications Literacy (CL) general education requirement, students in this major must receive a grade of C+ or better in both ENGL1010 WRITING AS INQUIRY (CL1) and ENGL2010 RSRCH&ARGUMENT PRSPCTVES (CL2).

Preparation Courses

Type
Completion Requirement

Required Courses

Unless otherwise noted, these courses require a B- or higher.

Complete ALL of the following Courses:

- ELED1010 - Orientation to Elementary Education - 3cr.
  OR TEAL1010 - Introduction to Education - 3cr.
- HDFS1500 - Human Development Across the Lifespan (BSS) - 3cr.
- TEAL2660 - Educational Psychology for Teachers - 2cr.

Special Education: Birth to 5 Emphasis/Early Childhood Education Composite - BA, BS

Type
Completion Requirement

Mathematics Requirements

Fulfill ALL of the following requirements:

Math Courses

Earn a minimum grade of C- in the following:

- MATH1050 - College Algebra (QL) - 4cr.
  OR MATH1051 - Classical Algebra for Teachers (QL) - 4cr.

AND

Additional Math Courses

Earn a minimum grade of C in the following:

- MATH2010 - Algebraic Thinking & Number Sense for Elementary Education School Teachers (QI) - 3cr.
- MATH2020 - Euclidean Geometry & Statistics for Elementary Education School Teachers (QI) - 3cr.

Assessment, Curriculum, and Instruction Core

A grade of B- or higher is required.

Fulfill ALL of the following requirements:

Arts Block

A grade of B- or higher is required.

Complete at least 1 of the following courses:

- ART3700 - Elementary Art Methods - 3cr.
- MUSC3260 - Elementary School Music - 3cr.
- THEA3320 - Movement Exploration for Elementary Education Majors - 3cr.
- THEA3330 - Drama for Classroom Teachers - 3cr.
- THEA3340 - Methods of Teaching Drama, Grades K-6 - 3cr.
- THEA3380 - Drama Across the Curriculum, Grades K-12 - 3cr.

AND

Foundations Block

Earn a minimum grade of B- in the following:

- ELED2620 - Early Childhood Education Kindergarten Through Grade 3 - 3cr.
- ELED3000 - Historical, Social, and Cultural Foundations of Education (CI) - 3cr.
- ELED3002 - Foundations Practicum - 1cr.
- ELED3050 - PE and Health in the Elementary Classroom - 2cr.
- ELED3100 - Classroom Reading Instruction - 3cr.

- HDFS2600 - Seminar in Early Childhood Education - 2cr.
- HDFS2605 - Early Childhood Education Practicum - 2cr.

AND

ELED Literacy Block

Earn a minimum grade of B- in the following:

- ELED4040 - Reading Assessment and Intervention (CI) - 2cr.
- ELED4042 - Reading Assessment and Intervention Practicum - 1cr.
- ELED4049 - Foundations of Reading Review - 1cr.
- SHS3200 - Child Language Development - 3cr.
- TEAL3080 - Integrating Arts into Academic Learning (DHA) - 3cr.

AND

ELED Content Block

Earn a minimum grade of B- in the following:

- ELED5010 - Teaching Social Studies in Elementary School - 2cr.
- ELED5020 - Teaching Science in Elementary School - 2cr.
- ELED5030 - Teaching Language Arts (CI) - 2cr.
- ELED5040 - Teaching Elementary School Mathematics II: Number, Operations, and Algebraic Reasoning - 2cr.
- ELED5060 - Elementary Content Practicum - 4cr.
- HDFS4960 - Practice Teaching in Child Development Laboratories - 3cr.

Special Education Major

Fulfill ALL of the following requirements:

Junior Fall

Earn a minimum grad of B- in the following:

- ELED4061 - Teaching Elementary School Mathematics I: Rational Numbers, Operations, and Proportional Reasoning - 3cr.
- HDFS3500 - Infancy and Childhood - 3cr.
- HDFS4550 - Preschool Methods and Curriculum - 3cr.
- SPED4000 - Education of Students with Disabilities - 3cr.
- SPED5030 - Assessment in Special Education - 2cr.
- SPED5040 - Foundations of Effective Instructional Practices - 4cr.

AND

Junior Spring

Earn a minimum grade of B- in the following:

- SPED5010 - Applied Behavioral Analysis 1: Principles, Assessment, and Analysis (QI) - 3cr.
- SPED5070 - Policies, Procedures, and Collaboration in Special Education - 3cr.
- SPED5310 - Teaching Reading and Language Arts to Students with Disabilities - 1cr.
- SPED5710 - Young Children with Disabilities: Characteristics and Services - 3cr.
- SPED5810 - Seminar and Field Experiences with Infants and Families - 4cr.
- SPED5840 - Practicum: Working with Young Children with Autism - 1cr.

NOTE:

1. SPED5310 TEACH READ/LANG ARTS ST W/DIS - Enroll in 1 credit.

AND

Senior Fall Semester

Earn a minimum grade of B- in the following:

- SPED5050 - Applied Behavioral Analysis 2: Applications - 3cr.
- SPED5530 - Family/Professional Collaboration and Technology for Teaching Exceptional Learners - 3cr.
- SPED5730 - Intervention Strategies for Young Children with Disabilities - 3cr.
- SPED5820 - Preschool Practicum with Young Children with Disabilities in Community Environments - 2cr.
- TEAL5710 - Instruction for Linguistically and Culturally Diverse Learners - 3cr.

NOTE:

1. SPED5820 PRESCHOOL PRACT W/DISABILITIES - Enroll in 3 credits.

Student Teaching (15 credits)

Earn at least 15 credits
NOTE:

1. ELED5050 STUDENT TEACH EARLY CHILDHOOD - Enroll in 3 credits.
2. SPED5200 STUDENT TEACHING (CI) - Enroll in 12 credits.

Open Electives

Complete the following as needed:
Total elective credit is determined by General Education courses taken, degree type selected, additional credits earned, and any additional math or other prerequisite courses needed. Please consult your Academic Advisor for details.

Additional Comments:

Licensure Notification

This program typically leads to licensure and was designed to meet licensing qualifications in the state of Utah. If students wish to work in another state within the United States, they should review the qualifications for that state and the Education Licensure Compliance Table provided by School of Teacher Education and Leadership.

For more information, please contact the School of Teacher Education and Leadership at https://cehs.usu.edu/teal/.

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Bachelor's Degree)

Program Learning Outcomes

Program Learning Outcomes
https://cehs.usu.edu/about/assessment

Special Education: Birth to 5 Emphasis/ Elementary Education Composite - BA, BS

Program Overview

College	Department	Program Level
College of Education & Human Services	Special Education & Rehab Counseling, School of Teacher Education & Leadership	Undergraduate

About this Degree
This degree is a combination of courses required for the elementary education major and the special education major with Birth to Age Five emphasis.. Students who complete this composite degree are eligible for two licenses, one for special education preschool (birth to age 5) and one for elementary education (K-6). Students gain content knowledge through the early childhood education program and learn strategies for teaching diverse learners through the special education program.

This degree gives students the opportunity to have more flexibility in their careers. Having both licenses allows teachers to move back and forth between special education and elementary education. Most teachers will have students with disabilities in their classrooms, and this composite degree makes them more qualified to meet the unique educational needs of these students.

- For more information about Elementary Education, see the website.
- For more information about Special Education, see the website.
- Admitted and current students must meet with an academic advisor.
- Log on to Degree Works to check student-specific program progress.
- The highest Math requirement for this degree is MATH2020 GEOMETRY/STAT ELED TEACH(QI).
- For the Bachelor of Arts (BA) see Undergraduate Academic Credential Requirements for language requirements.

Admission Requirements for this Program
Pre-Special Education Major Admission Requirements

- New freshmen must be admitted to USU in Good Standing.
- Transfer students from other institutions or other programs at USU must have a 2.0 GPA.
- Grade of C+ or better: for Communications Literacy **(CL1)** General Education Requirements (required for program admission; it can also be met with AP ENGL or an ACT score of 30 or higher)
- Grade of C or better: General Education Requirements (Breadth American Institutions **(BAI)**, Breadth Life Sciences **(BLS)**, Breadth Physical Sciences **(BPS)**, HDFS1500 HUMAN DEV LIFESPAN (BSS) (required for program admission)
- Grade of C- or better in Quantitative Literacy (QL) (required for program admission)

Program Requirements

Total Credits Required In Program Coursework	Total Credits Required To Earn This Credential
102-104	126

Simple Requisites

Program Requirements

Minimum Grade Requirements:

- Grade of B- or better: All other HDFS, SPED, TEAL courses courses (except SPED1010 DISABILITY AND SOCIETY (BSS), SPED2910 EARLY FIELD EXPERIENCE IN SPED, SPED5200 STUDENT TEACHING (CI), and SPED5900 INDEPENDENT STUDY).
- Grade of C or better in MATH2010 ALG/NUMER FOR ELED TEACH (QI) and MATH2020 GEOMETRY/STAT ELED TEACH(QI)
- Grade of C- or better in all other courses required for the bachelor's degree
- Courses used to fulfill major requirements may not be taken pass/fail, except those courses that are only taught on a pass/fail basis.
- 3. 0 GPA required in major coursework

Students are required to earn a grade of "B-" or better in all major courses (SPED, TEAL, ELED prefixes). Students who receive a grade below "B-" must retake the course. Each student will be allowed to repeat a maximum of one course (course is defined as didactic courses, practica and student teaching). Students who receive two grades below "B-" or withdraw from two practica (or one practica two times) will not be permitted to continue in special education. Student teaching may not be repeated without appeal and approval by the appropriate special education program committee.

Pre-Program Courses

Type
Completion Requirement

Pre-Program Courses (8 credits)

Unless otherwise noted, these courses require a B- or higher.

Complete ALL of the following Courses:

- ELED1010 - Orientation to Elementary Education - 3cr.
  OR TEAL1010 - Introduction to Education - 3cr.
- HDFS1500 - Human Development Across the Lifespan (BSS) - 3cr.
- TEAL2660 - Educational Psychology for Teachers - 2cr.

Special Education: Birth to 5 Emphasis/Elementary Education Composite - BA, BS

Type
Completion Requirement

Mathematics Requirements (9-11 credits)

Fulfill ALL of the following requirements:

Quantitative Literacy (QL)

Earn a minimum grade of C- in the following:

- Quantitative Literacy (QL) Course

AND

Math Courses

Earn a minimum grade of C in the following:

- MATH2010 - Algebraic Thinking & Number Sense for Elementary Education School Teachers (QI) - 3cr.
- MATH2020 - Euclidean Geometry & Statistics for Elementary Education School Teachers (QI) - 3cr.

Elementary Education Requirements (40 credits)

Fulfill ALL of the following requirements:

Foundations Block (28 credits)

Complete ALL of the following Courses:

- ELED3000 - Historical, Social, and Cultural Foundations of Education (CI) - 3cr.
- ELED3002 - Foundations Practicum - 1cr.
- ELED3050 - PE and Health in the Elementary Classroom - 2cr.
- ELED3100 - Classroom Reading Instruction - 3cr.
- ELED4061 - Teaching Elementary School Mathematics I: Rational Numbers, Operations, and Proportional Reasoning - 3cr.
- ELED4049 - Foundations of Reading Review - 1cr.
- HDFS3500 - Infancy and Childhood - 3cr.
- SPED4000 - Education of Students with Disabilities - 3cr.
- TEAL3080 - Integrating Arts into Academic Learning (DHA) - 3cr.
- TEAL5710 - Instruction for Linguistically and Culturally Diverse Learners - 3cr.
- ELED2620 - Early Childhood Education Kindergarten Through Grade 3 - 3cr.

AND

ELED Content Block (12 credits)

Complete ALL of the following Courses:

- ELED5010 - Teaching Social Studies in Elementary School - 2cr.
- ELED5020 - Teaching Science in Elementary School - 2cr.
- ELED5030 - Teaching Language Arts (CI) - 2cr.
- ELED5040 - Teaching Elementary School Mathematics II: Number, Operations, and Algebraic Reasoning - 2cr.
- ELED5060 - Elementary Content Practicum - 4cr.

Special Education Major Requirement (33 credits)

Fulfill ALL of the following requirements:

Junior Fall (6 credits)

Earn a minimum grade of B- in the following:

- SPED5030 - Assessment in Special Education - 2cr.
- SPED5040 - Foundations of Effective Instructional Practices - 4cr.

AND

Junior Spring (16 credits)

Earn a minimum grade of B- in the following:

- SPED5010 - Applied Behavioral Analysis 1: Principles, Assessment, and Analysis (QI) - 3cr.
- SPED5070 - Policies, Procedures, and Collaboration in Special Education - 3cr.
- SPED5310 - Teaching Reading and Language Arts to Students with Disabilities - 1cr.
- SPED5710 - Young Children with Disabilities: Characteristics and Services - 3cr.
- SPED5810 - Seminar and Field Experiences with Infants and Families - 4cr.
- SPED5840 - Practicum: Working with Young Children with Autism - 1cr.

NOTE:

1. SPED5310 TEACH READ/LANG ARTS ST W/DIS - Enroll in 2 credits.

AND

Senior Fall (11 credits)

Earn a minimum grade of B- in the following:

- SPED5050 - Applied Behavioral Analysis 2: Applications - 3cr.
- SPED5530 - Family/Professional Collaboration and Technology for Teaching Exceptional Learners - 3cr.
- SPED5730 - Intervention Strategies for Young Children with Disabilities - 3cr.
- SPED5820 - Preschool Practicum with Young Children with Disabilities in Community Environments - 2cr.

NOTE:

1. SPED5820 PRESCHOOL PRACT W/DISABILITIES - Enroll in 2 credits.

Student Teaching (12 Credits)

Earn at least 12 credits from the following:

- SPED5200 - Student Teaching in Special Education (CI) - 3cr.
- SPED5150 - Teaching Children with Dual Sensory Impairments (Deaf/Blind) - 3cr.

NOTE:

1. SPED5200 STUDENT TEACHING (CI) - Enroll in 6 credits.
2. ELED5150 STUDENT TEACHING: ELEMENTARY - Enroll in 6 credits.

Open Electives

Complete the following as needed:
Total elective credit is determined by General Education courses taken, degree type selected, additional credits earned, and any additional math or other prerequisite courses needed. Please consult your Academic Advisor for details.

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Bachelor's Degree)

Suggested Degree Maps

Degree Map Name
Suggested Degree Map - Special Education/Elementary Education Composite BA, BS
Total Degree Map Credits
126 - 128
Degree Map Effective Catalog Year
2027 -

Degree Map Narrative

- Following is a sample four-year plan. Please note that student-specific plans may differ.
- Meet with an academic advisor to create a specific plan that best fits your academic needs.
- The student is ultimately responsible for knowing and completing all degree requirements.
- Make sure you meet the registration requirements for each class by clicking the course link and checking any prerequisites or corequisites.
- Consultation with an advisor may result in an altered plan customized for an individual student.
- Check your Degree Works for requirements and completion.

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	15 - 17	0

Requirement Select

- ELED1010 - Orientation to Elementary Education

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Communications Literacy (CL1) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- HDFS1500 - Human Development Across the Lifespan (BSS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Quantitative Literacy (QL) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Breadth Life Sciences (BLS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	15	0

Requirement Select
- MATH2010 - Algebraic Thinking & Number Sense for Elementary Education School Teachers (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Breadth American Institutions (BAI) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Breadth Creative Arts (BCA) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Breadth Humanities (BHU) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Breadth Physical Sciences (BPS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	17	0

Requirement Select
- Communications Literacy (CL2) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- ELED2620 - Early Childhood Education Kindergarten Through Grade 3

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Depth Social Sciences (DSS) Course

  OR
- Depth Life and Physical Sciences (DSC) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- MATH2020 - Euclidean Geometry & Statistics for Elementary Education School Teachers (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- TEAL2660 - Educational Psychology for Teachers

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select

- TEAL3080 - Integrating Arts into Academic Learning (DHA)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	16	0

Requirement Select

- Apply to the Special Education major by February 1 at https://cehs.usu.edu/sperc/sped/undergrad/admission. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- ELED3000 - Historical, Social, and Cultural Foundations of Education (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- ELED3002 - Foundations Practicum

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- ELED3100 - Classroom Reading Instruction

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- HDFS3500 - Infancy and Childhood

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- ELED4061 - Teaching Elementary School Mathematics I: Rational Numbers, Operations, and Proportional Reasoning

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- SPED4000 - Education of Students with Disabilities

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Fall	18	0

Requirement Select

- Students in this major will take statewide sections for ELED Level III Courses (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- ELED5010 - Teaching Social Studies in Elementary School

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select

- ELED5020 - Teaching Science in Elementary School

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select

- ELED5030 - Teaching Language Arts (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select

- ELED5040 - Teaching Elementary School Mathematics II: Number, Operations, and Algebraic Reasoning

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select

- ELED5060 - Elementary Content Practicum

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- SPED5030 - Assessment in Special Education

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select

- SPED5040 - Foundations of Effective Instructional Practices

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Spring	17	0

Requirement Select

- ELED4049 - Foundations of Reading Review

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- SPED5010 - Applied Behavioral Analysis 1: Principles, Assessment, and Analysis (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- SPED5070 - Policies, Procedures, and Collaboration in Special Education

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Enroll in 2 credits of SPED5310. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- SPED5310 - Teaching Reading and Language Arts to Students with Disabilities

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	1 - 4
Clinical	-
Criticality	No

Requirement Select

- SPED5710 - Young Children with Disabilities: Characteristics and Services

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- SPED5810 - Seminar and Field Experiences with Infants and Families

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- SPED5840 - Practicum: Working with Young Children with Autism

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Fall	16	0

Requirement Select

- Apply for both Elementary Education and Special Education student teaching. Check with both advisors. Apply for graduation at https://www.usu.edu/registrar/graduation/. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- ELED3050 - PE and Health in the Elementary Classroom

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select

- SPED5050 - Applied Behavioral Analysis 2: Applications

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- SPED5530 - Family/Professional Collaboration and Technology for Teaching Exceptional Learners

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- SPED5730 - Intervention Strategies for Young Children with Disabilities

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Enroll in 2 credits fo SPED5820. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- SPED5820 - Preschool Practicum with Young Children with Disabilities in Community Environments

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2 - 3
Clinical	-
Criticality	No

Requirement Select

- TEAL5710 - Instruction for Linguistically and Culturally Diverse Learners

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Spring	12	0

Requirement Select

- Enroll in 6 credits of ELED5150 (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- ELED5150 - Student Teaching: Elementary

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	3 - 9
Clinical	-
Criticality	No

Requirement Select

- Enroll in 6 credits of SPED5200. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- SPED5200 - Student Teaching in Special Education (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	3 - 15
Clinical	-
Criticality	No

Total General Education Credits	Total Major Credits
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Program Learning Outcomes

Program Learning Outcomes
https://cehs.usu.edu/about/assessment

Special Education: Mild/Moderate Emphasis/ Elementary Education Composite - BA, BS

Program Overview

College	Department	Program Level
College of Education & Human Services	Special Education & Rehab Counseling, School of Teacher Education & Leadership	Undergraduate

About this Degree
This degree is a combination of courses required for the elementary education major and the special education major with Mild/Moderate emphasis.. Students who complete this composite degree are eligible for two licenses, one for special education (K-12) and one for elementary education (K-8, though, students are "highly qualified" to teach grades K-6 based on federal standards for "No Child Left Behind"). Students gain content knowledge through the elementary education program and learn strategies for teaching diverse learners through the special education program.

This degree gives students the opportunity to have more flexibility in their careers. Having both licenses allows teachers to move back and forth between special education and elementary education. Most teachers will have students with disabilities in their classrooms, and this composite degree makes them more qualified to meet the unique educational needs of these students.

- For more information about Elementary Education, see the website.
- For more information about Special Education, see the website.
- Admitted and current students must meet with an academic advisor.
- Log on to Degree Works to check student-specific program progress.
- Students following the recommended schedule should be able to complete degree requirements in four years (eight semesters).
- The highest math requirement for this degree is MATH2020 GEOMETRY/STAT ELED TEACH(QI).
- For Bachelor of Arts (BA) degree see Undergraduate Academic Credential Requirements for language requirements.

Admission Requirements for this Program
Pre-Special Education Major Admission Requirements

- New freshmen must be admitted to USU in Good Standing.
- Transfer students from other institutions or other programs at USU must have a 2.0 GPA.
- Grade of C+ or better: for Communications Literacy **(CL1)** General Education Requirements (required for program admission; it can also be met with AP ENGL or an ACT score of 30 or higher)
- Grade of C or better: General Education Requirements (Breadth American Institutions **(BAI)**, Breadth Life Sciences **(BLS)**, Breadth Physical Sciences **(BPS)**, HDFS1500 HUMAN DEV LIFESPAN (BSS) (required for program admission)
- Grade of C- or better in Quantitative Literacy (QL) (required for program admission)

Program Requirements

Total Credits Required In Program Coursework	Total Credits Required To Earn This Credential
92-94	126

Simple Requisites

Program Requirements

Minimum Grade Requirements:

- Grade of B- or better: All other HDFS, SPED, TEAL courses courses (except SPED1010 DISABILITY AND SOCIETY (BSS), SPED2910 EARLY FIELD EXPERIENCE IN SPED, SPED5200 STUDENT TEACHING (CI), and SPED5900 INDEPENDENT STUDY).
- Grade of C or better in MATH2010 ALG/NUMER FOR ELED TEACH (QI) and MATH2020 GEOMETRY/STAT ELED TEACH(QI)
- Grade of C- or better in all other courses required for the bachelor's degree
- Courses used to fulfill major requirements may not be taken pass/fail, except those courses that are only taught on a pass/fail basis.
- 3. 0 GPA required in major coursework

Students are required to earn a grade of "B-" or better in all major courses (SPED, TEAL, ELED prefixes). Students who receive a grade below "B-" must retake the course. Each student will be allowed to repeat a maximum of one course (course is defined as didactic courses, practica and student teaching). Students who receive two grades below "B-" or withdraw from two practica (or one practica two times) will not be permitted to continue in special education. Student teaching may not be repeated without appeal and approval by the appropriate special education program committee.

Preparation Courses

Type
Completion Requirement

Courses

Earn a minimum grade of B- in the following:

- ELED1010 - Orientation to Elementary Education - 3cr. **OR** TEAL1010 - Introduction to Education - 3cr.
- HDFS1500 - Human Development Across the Lifespan (BSS) - 3cr.
- TEAL2660 - Educational Psychology for Teachers - 2cr.

Special Education: Mild/Moderate Emphasis/Elementary Education Composite - BA, BS

Type
Completion Requirement

Mathematics Requirements (9-11 credits)

Fulfill ALL of the following requirements:

Quantitative Literacy (QL)

Earn a minimum grade of C- in the following:

- Quantitative Literacy (QL) Course

AND

Courses

Earn a minimum grade of C in the following:

- MATH2010 - Algebraic Thinking & Number Sense for Elementary Education School Teachers (QI) - 3cr.
- MATH2020 - Euclidean Geometry & Statistics for Elementary Education School Teachers (QI) - 3cr.

Elementary Education Requirements (34 credits)

Fulfill ALL of the following requirements:

Foundations Block (22 credits)

Earn a minimum grade of B- in the following:

- ELED3000 - Historical, Social, and Cultural Foundations of Education (CI) - 3cr.
- ELED3002 - Foundations Practicum - 1cr.
- ELED3050 - PE and Health in the Elementary Classroom - 2cr.
- ELED3100 - Classroom Reading Instruction - 3cr.
- ELED4049 - Foundations of Reading Review - 1cr.
- SPED4000 - Education of Students with Disabilities - 3cr.
- TEAL3080 - Integrating Arts into Academic Learning (DHA) - 3cr.
- TEAL5710 - Instruction for Linguistically and Culturally Diverse Learners - 3cr.
- ELED2620 - Early Childhood Education Kindergarten Through Grade 3 - 3cr.

AND

ELED Content Block (12 credits)

Earn a minimum grade of B- in the following:

- ELED5010 - Teaching Social Studies in Elementary School - 2cr.
- ELED5020 - Teaching Science in Elementary School - 2cr.
- ELED5030 - Teaching Language Arts (CI) - 2cr.
- ELED5040 - Teaching Elementary School Mathematics II: Number, Operations, and Algebraic Reasoning - 2cr.
- ELED5060 - Elementary Content Practicum - 4cr.

Special Education Requirements (34 credits

Fulfill ALL of the following requirements:

Junior Fall (6 credits)

Earn a minimum grade of B- in the following:

- SPED5030 - Assessment in Special Education - 2cr.
- SPED5040 - Foundations of Effective Instructional Practices - 4cr.

AND

Junior Spring (16 credits)

Earn a minimum grade of B- in the following:

- SPED5010 - Applied Behavioral Analysis 1: Principles, Assessment, and Analysis (QI) - 3cr.
- SPED5070 - Policies, Procedures, and Collaboration in Special Education - 3cr.
- SPED5310 - Teaching Reading and Language Arts to Students with Disabilities - 1cr.
- SPED5340 - Teaching Math to Students with Mild/Moderate Disabilities - 3cr.
- SPED5410 - Practicum I (Elementary) for Mild/Moderate Disabilities - 3cr.

NOTE:

1. SPED5310 TEACH READ/LANG ARTS ST W/DIS - Enroll in 4 credits.

AND

Senior Fall (12 credits)

Earn a minimum grade of B- in the following:

- SPED5050 - Applied Behavioral Analysis 2: Applications - 3cr.
- SPED5080 - Transition-Focused Education and Collaboration - 2cr.
- SPED5420 - Practicum II (Secondary) for Mild/Moderate Disabilities - 3cr.
- SPED5530 - Family/Professional Collaboration and Technology for Teaching Exceptional Learners - 3cr.

NOTE:

1. SPED5420 PRACT II: SECONDARY MM DISABIL - Enroll in 4 credits.

Student Teaching (15 credits)

Complete ALL of the following Courses:

- ELED5150 - Student Teaching: Elementary - 3cr.
- SPED5200 - Student Teaching in Special Education (CI) - 3cr.

NOTE:

1. SPED5200 STUDENT TEACHING (CI) - Enroll in 9 credits.
2. ELED5150 - Enroll in 6 credits.

Open Electives

Complete the following as needed:
Total elective credit is determined by General Education courses taken, degree type selected, additional credits earned, and any additional math or other prerequisite courses needed. Please consult your Academic Advisor for details.

Additional Comments:

Licensure Notification

This program typically leads to licensure and was designed to meet licensing qualifications in the state of Utah. If students wish to work in another state within the United States, they should review the qualifications for that state and the Education Licensure Compliance Table provided by School of Teacher Education and Leadership.

For more information, please contact the School of Teacher Education and Leadership at https://cehs.usu.edu/teal/.

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Bachelor's Degree)

Suggested Degree Maps

Degree Map Name
Suggested Degree Map - Special Education: Mild/Moderate Emphasis/ Elementary Education Composite BA, BS
Total Degree Map Credits
124 - 127
Degree Map Effective Catalog Year
2027 -

Degree Map Narrative

- Following is a sample four-year plan. Please note that student-specific plans may differ.
- Meet with an academic advisor to create a specific plan that best fits your academic needs.
- The student is ultimately responsible for knowing and completing all degree requirements.
- Make sure you meet the registration requirements for each class by clicking the course link and checking any prerequisites or corequisites.
- Consultation with an advisor may result in an altered plan customized for an individual student.
- Check your Degree Works for requirements and completion.

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	15 - 18	0

Requirement Select

- ELED1010 - Orientation to Elementary Education

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Communications Literacy (CL1) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Quantitative Literacy (QL) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 5
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Breadth Life Sciences (BLS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- HDFS1500 - Human Development Across the Lifespan (BSS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	14	0

Requirement Select
- Breadth American Institutions (BAI) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Breadth Physical Sciences (BPS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Breadth Creative Arts (BCA) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- MATH2010 - Algebraic Thinking & Number Sense for Elementary Education School Teachers (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- TEAL2660 - Educational Psychology for Teachers

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	15	0

Requirement Select
- Apply to ELED major. Check with advisor for admission deadline and requirements. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Breadth Humanities (BHU) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Depth Social Sciences (DSS) Course

  OR
- Depth Life and Physical Sciences (DSC) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Communications Literacy (CL2) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- ELED2620 - Early Childhood Education Kindergarten Through Grade 3

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- MATH2020 - Euclidean Geometry & Statistics for Elementary Education School Teachers (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	15	0

Requirement Select

- Apply to the Special Education major by February 1 at https://cehs.usu.edu/sperc/sped/undergrad/admission. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- ELED3000 - Historical, Social, and Cultural Foundations of Education (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- ELED3002 - Foundations Practicum

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- ELED3050 - PE and Health in the Elementary Classroom

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select
- ELED3100 - Classroom Reading Instruction

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- SPED4000 - Education of Students with Disabilities

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- TEAL3080 - Integrating Arts into Academic Learning (DHA)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Fall	18	0

Requirement Select
- ELED5010 - Teaching Social Studies in Elementary School

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select
- ELED5020 - Teaching Science in Elementary School

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select
- ELED5030 - Teaching Language Arts (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select
- ELED5040 - Teaching Elementary School Mathematics II: Number, Operations, and Algebraic Reasoning

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select

- ELED5060 - Elementary Content Practicum

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- SPED5030 - Assessment in Special Education

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select

- SPED5040 - Foundations of Effective Instructional Practices

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Spring	17	0

Requirement Select

- SPED5010 - Applied Behavioral Analysis 1: Principles, Assessment, and Analysis (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- SPED5070 - Policies, Procedures, and Collaboration in Special Education

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Enroll in 4 credits of SPED5310 (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- SPED5310 - Teaching Reading and Language Arts to Students with Disabilities

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	1 - 4
Clinical	-
Criticality	No

Requirement Select

- SPED5340 - Teaching Math to Students with Mild/ Moderate Disabilities

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- SPED5410 - Practicum I (Elementary) for Mild/Moderate Disabilities

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- ELED4049 - Foundations of Reading Review

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Fall	15	0

Requirement Select

- SPED5050 - Applied Behavioral Analysis 2: Applications

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- SPED5080 - Transition-Focused Education and Collaboration

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select

- Enroll in 4 credits for SPED5420. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- SPED5420 - Practicum II (Secondary) for Mild/Moderate Disabilities

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	3 - 4
Clinical	-
Criticality	No

Requirement Select

- SPED5530 - Family/Professional Collaboration and Technology for Teaching Exceptional Learners

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- TEAL5710 - Instruction for Linguistically and Culturally Diverse Learners

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Apply for both Elementary Education and Special Education student teaching. Check with both advisors. Apply for graduation at https://www.usu.edu/registrar/graduation/. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Spring	15	0

Requirement Select

- Enroll in 6 credits of ELED5150 (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- ELED5150 - Student Teaching: Elementary

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	3 - 9
Clinical	-
Criticality	No

Requirement Select

- Enroll in 9 credits of SPED5200. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- SPED5200 - Student Teaching in Special Education (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	9
Progress Credits	-
Contact Hours	3 - 15
Clinical	-
Criticality	No

Total General Education Credits	Total Major Credits
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Program Learning Outcomes

Program Learning Outcomes

https://cehs.usu.edu/about/assessment

Special Education: Severe Emphasis/ Elementary Education Composite - BA, BS

Program Overview

College
College of Education & Human Services

Department
Special Education & Rehab Counseling, School of Teacher Education & Leadership

Program Level
Undergraduate

About this Degree

This degree is a combination of courses required for the special education major with complex support needs and the elementary education major. Students who complete this composite degree are eligible for two licenses, one for special education (K-age 22) and one for elementary education, (K-8, though students are "highly qualified" to teach grades k-6 based on federal standards for "No Child Left Behind"). Students gain content knowledge through the elementary education program and learn strategies for teaching diverse learners through the the special education program.

This degree allows students to have more flexibility in their careers. Having both licenses allows teachers to move back and forth between special education and elementary education. Most elementary teachers will have students with disabilities in their classrooms, and this composite degree makes them more qualified to meet the unique educational needs to these students.

- For more information about Elementary Education, see the website.
- For more information about Special Education, see the website.
- Admitted and current students must meet with an academic advisor.
- Log on to Degree Works to check student-specific program progress.
- Students following the recommended schedule should be able to complete degree requirements in four years (eight semesters).
- The highest math requirement for this degree is MATH2020 GEOMETRY/STAT ELED TEACH(QI).

Admission Requirements for this Program

Pre-Special Education Major Admission Requirements

- New freshmen must be admitted to USU in Good Standing.
- Transfer students from other institutions or other programs at USU must have a 2.0 GPA.
- Grade of C+ or better: for Communications Literacy **(CL1)** General Education Requirements (required for program admission; it can also be met with AP ENGL or an ACT score of 30 or higher)
- Grade of C or better: General Education Requirements (Breadth American Institutions **(BAI)**, Breadth Life Sciences **(BLS)**, Breadth Physical Sciences **(BPS)**, HDFS1500 HUMAN DEV LIFESPAN (BSS) (required for program admission)
- Grade of C- or better in Quantitative Literacy (QL) (required for program admission)

Program Requirements

Total Credits Required In Program Coursework
101-103

Total Credits Required To Earn This Credential
126

Simple Requisites

Program Requirements

Minimum Grade Requirements:

- Grade of B- or better: All other HDFS, SPED, TEAL courses courses (except SPED1010 DISABILITY AND SOCIETY (BSS), SPED2910 EARLY FIELD EXPERIENCE IN SPED, SPED5200 STUDENT TEACHING (CI), and SPED5900 INDEPENDENT STUDY).
- Grade of C or better in MATH2010 ALG/NUMER FOR ELED TEACH (QI) and MATH2020 GEOMETRY/STAT ELED TEACH(QI)
- Grade of C- or better in all other courses required for the bachelor's degree
- Courses used to fulfill major requirements may not be taken pass/ fail, except those courses that are only taught on a pass/fail basis.
- 3. 0 GPA required in major coursework

Students are required to earn a grade of "B-" or better in all major courses (SPED, TEAL, ELED prefixes). Students who receive a grade below "B-" must retake the course. Each student will be allowed to repeat a maximum of one course (course is defined as didactic courses, practica and student teaching). Students who receive two grades below "B-" or withdraw from two practica (or one practica two times) will not be permitted to continue in special education. Student teaching may not be repeated without appeal and approval by the appropriate special education program committee.

Preparation Courses (8 credits)

Type
Completion Requirement

Courses

Earn a minimum grade of B- in the following:

- ELED1010 - Orientation to Elementary Education - 3cr. **OR** TEAL1010 - Introduction to Education - 3cr.
- HDFS1500 - Human Development Across the Lifespan (BSS) - 3cr.
- TEAL2660 - Educational Psychology for Teachers - 2cr.

Special Education/Elementary Education: Severe Emphasis Composite - BA, BS

Type
Completion Requirement

Mathematics Requirements (9-11 credits)

Fulfill ALL of the following requirements:

Quantitative Literacy (QL)

Earn a minimum grade of C- in the following:

- Quantitative Literacy (QL) Course

AND

Courses

Earn a minimum grade of C in the following:

- MATH2010 - Algebraic Thinking & Number Sense for Elementary Education School Teachers (QI) - 3cr.
- MATH2020 - Euclidean Geometry & Statistics for Elementary Education School Teachers (QI) - 3cr.

Elementary Education Requirements (37 credits)

Fulfill ALL of the following requirements:

Foundations Block

Earn a minimum grade of B- in the following:

- ELED2620 - Early Childhood Education Kindergarten Through Grade 3 - 3cr.
- ELED3000 - Historical, Social, and Cultural Foundations of Education (CI) - 3cr.
- ELED3002 - Foundations Practicum - 1cr.
- ELED3050 - PE and Health in the Elementary Classroom - 2cr.
- ELED3100 - Classroom Reading Instruction - 3cr.
- ELED4049 - Foundations of Reading Review - 1cr.
- ELED4061 - Teaching Elementary School Mathematics I: Rational Numbers, Operations, and Proportional Reasoning - 3cr.
- SPED4000 - Education of Students with Disabilities - 3cr.
- TEAL3080 - Integrating Arts into Academic Learning (DHA) - 3cr.
- TEAL5710 - Instruction for Linguistically and Culturally Diverse Learners - 3cr.

AND

Elementary Education Content Block

Earn a minimum grade of B- in the following:

- ELED5010 - Teaching Social Studies in Elementary School - 2cr.
- ELED5020 - Teaching Science in Elementary School - 2cr.
- ELED5030 - Teaching Language Arts (CI) - 2cr.
- ELED5040 - Teaching Elementary School Mathematics II: Number, Operations, and Algebraic Reasoning - 2cr.
- ELED5060 - Elementary Content Practicum - 4cr.

Special Education Major (Severe) (32 credits)

Students must be admitted to the SPED program before taking SPED courses.

Fulfill ALL of the following requirements:

Junior Fall (6 credits)

Earn a minimum grade of B- in the following:

- SPED5030 - Assessment in Special Education - 2cr.
- SPED5040 - Foundations of Effective Instructional Practices - 4cr.

AND

Junior Spring (13 credits)

Earn a minimum grade of B- in the following:

- SPED5010 - Applied Behavioral Analysis 1: Principles, Assessment, and Analysis (QI) - 3cr.
- SPED5070 - Policies, Procedures, and Collaboration in Special Education - 3cr.
- SPED5310 - Teaching Reading and Language Arts to Students with Disabilities - 1cr.
- SPED5510 - Curriculum and Assessment for Students with Severe Disabilities I - 2cr.
- SPED5600 - Practicum I Severe - 3cr.

NOTE:

1. SPED5310 TEACH READ/LANG ARTS ST W/DIS - Enroll in 2 credits.
2. SPED5600 PRACTICUM I SEVERE - Enroll in 3 credits.

AND

Senior Fall (13 credits)

Earn a minimum grade of B- in the following:

- SPED5050 - Applied Behavioral Analysis 2: Applications - 3cr.
- SPED5080 - Transition-Focused Education and Collaboration - 2cr.
- SPED5520 - Curriculum and Assessment for Students with Severe Disabilities II - 3cr.
- SPED5530 - Family/Professional Collaboration and Technology for Teaching Exceptional Learners - 3cr.
- SPED5610 - Practicum II Severe - 2cr.

Student Teaching (15 credits)

Earn at least 15 credits from the following:

- ELED5150 - Student Teaching: Elementary - 3cr.
- SPED5200 - Student Teaching in Special Education (CI) - 3cr.

NOTE:

1. ELED5150 STUDENT TEACHING: ELEMENTARY - Enroll in 6 credits.
2. SPED5200 STUDENT TEACHING (CI) - Enroll in 9 credits.

Open Electives

Complete the following as needed:
Total elective credit is determined by General Education courses taken, degree type selected, additional credits earned, and any additional math or other prerequisite courses needed. Please consult your Academic Advisor for details.

Additional Comments:

Licensure Notification

This program typically leads to licensure and was designed to meet licensing qualifications in the state of Utah. If students wish to work in another state within the United States, they should review the qualifications for that state and the Education Licensure Compliance Table provided by School of Teacher Education and Leadership.

For more information, please contact the School of Teacher Education and Leadership at https://cehs.usu.edu/teal/.

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Bachelor's Degree)

Suggested Degree Maps

Degree Map Name
Suggested Degree Map - Special Education: Severe Emphasis/Elementary Education Composite BA, BS

Total Degree Map Credits
125 - 127
Degree Map Effective Catalog Year
2027 -

Degree Map Narrative

- Following is a sample four-year plan. Please note that student-specific plans may differ.
- Meet with an academic advisor to create a specific plan that best fits your academic needs.
- The student is ultimately responsible for knowing and completing all degree requirements.
- Make sure you meet the registration requirements for each class by clicking the course link and checking any prerequisites or corequisites.
- Consultation with an advisor may result in an altered plan customized for an individual student.
- Check your Degree Works for requirements and completion.

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	15 - 16	0

Requirement Select
- ELED1010 - Orientation to Elementary Education

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Breadth Life Sciences (BLS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Quantitative Literacy (QL) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- HDFS1500 - Human Development Across the Lifespan (BSS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Communications Literacy (CL1) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	14	0

Requirement Select
- Breadth American Institutions (BAI) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Breadth Creative Arts (BCA) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Breadth Physical Sciences (BPS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- MATH2010 - Algebraic Thinking & Number Sense for Elementary Education School Teachers (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- TEAL2660 - Educational Psychology for Teachers

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	15	0

Requirement Select
- Apply to ELED major. Check with advisor for deadlines and requirements. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Communications Literacy (CL2) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- MATH2020 - Euclidean Geometry & Statistics for Elementary Education School Teachers (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- ELED2620 - Early Childhood Education Kindergarten Through Grade 3

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- ELED4061 - Teaching Elementary School Mathematics I: Rational Numbers, Operations, and Proportional Reasoning

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Breadth Humanities (BHU) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	15	0

Requirement Select
- ELED3000 - Historical, Social, and Cultural Foundations of Education (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- ELED3002 - Foundations Practicum

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- ELED3050 - PE and Health in the Elementary Classroom

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select
- ELED3100 - Classroom Reading Instruction

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- SPED4000 - Education of Students with Disabilities

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- TEAL3080 - Integrating Arts into Academic Learning (DHA)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Fall	18	0

Requirement Select
- ELED5010 - Teaching Social Studies in Elementary School

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select
- ELED5020 - Teaching Science in Elementary School

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select
- ELED5030 - Teaching Language Arts (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select
- ELED5040 - Teaching Elementary School Mathematics II: Number, Operations, and Algebraic Reasoning

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select
- ELED5060 - Elementary Content Practicum

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- SPED5030 - Assessment in Special Education

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select
- SPED5040 - Foundations of Effective Instructional Practices

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Spring	17	0

Requirement Select
- ELED4049 - Foundations of Reading Review

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- SPED5010 - Applied Behavioral Analysis 1: Principles, Assessment, and Analysis (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- SPED5070 - Policies, Procedures, and Collaboration in Special Education

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- SPED5310 - Teaching Reading and Language Arts to Students with Disabilities

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	1 - 4
Clinical	-
Criticality	No

Requirement Select

- Enroll in 2 credits of SPED5310. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- SPED5510 - Curriculum and Assessment for Students with Severe Disabilities I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select

- SPED5600 - Practicum I Severe

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Enroll in 3 credits of SPED5600. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Depth Social Sciences (DSS) Course
  OR
- Depth Life and Physical Sciences (DSC) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Fall	16 - 17	0

Requirement Select

- Apply for both Elementary Education and Special Education student teaching. Check with both advisors. Apply for graduation at https://www.usu.edu/registrar/graduation/. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- SPED5050 - Applied Behavioral Analysis 2: Applications

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- SPED5080 - Transition-Focused Education and Collaboration

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select

- SPED5520 - Curriculum and Assessment for Students with Severe Disabilities II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- SPED5530 - Family/Professional Collaboration and Technology for Teaching Exceptional Learners

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- SPED5610 - Practicum II Severe

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2 - 3
Progress Credits	-
Contact Hours	2 - 3
Clinical	-
Criticality	No

Requirement Select

- TEAL5710 - Instruction for Linguistically and Culturally Diverse Learners

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Spring	15	0

Requirement Select

- Enroll in 6 credits of ELED5150. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- ELED5150 - Student Teaching: Elementary

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	3 - 9
Clinical	-
Criticality	No

Requirement Select

- Enroll in 9 credits of SPED5200. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- SPED5200 - Student Teaching in Special Education (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	9
Progress Credits	-
Contact Hours	3 - 15
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Program Learning Outcomes

Program Learning Outcomes

https://cehs.usu.edu/about/assessment

Sexuality Studies - Minor

Program Overview

College	Department	Program Level
College of Arts & Sciences	School of Social Sciences	Undergraduate

About this Degree

The Sexuality Studies Minor offers students interdisciplinary training in the study of sex, gender and sexuality. Students will gain mastery of the history of human sexuality and the formation of sexual identity and sexual expression.
This interdisciplinary program will prepare students to think critically about sexuality at the intersection of race, ethnicity, social class, gender identity and gender expression. Students completing the minor will have the opportunity to take courses across a range of disciplines including anthropology, religious studies, political science, sociology and history.

Program Requirements

Total Credits Required To Earn This Credential

18

Simple Requisites

Program Requirements

To complete the undergraduate minor, students must complete 18 credits of coursework, including three required core courses and three elective courses. Elective courses are drawn from a range of disciplines and students are encouraged to explore courses that expose them to different perspectives.

The minor is available to all majors. A grade of C or better is required for all courses taken to meet the requirements of the minor. To graduate with a Sexuality Studies Minor, students must have a minimum GPA of 2.5.

For more information regarding Sexuality Studies, please visit https://www.usu.edu/intersections/.

Section 1

Type
Completion Requirement

Required Courses (9 credits)

Complete ALL of the following Courses:

- SOC1030 - Introduction to Gender & Sexuality Studies (BSS) - 3cr.
- SOC3040 - The History of Sexuality - 3cr.
- SOC3910 - Theories of Gender and Sexuality - 3cr.

Section 2

Type
Completion Requirement

Elective Courses (6 credits)

Complete at least 3 of the following courses:

- ANTH3140 - Anthropology of Sex and Gender (DSS) - 3cr.
- ANTH3225 - Sex, Evolution, and Health (DSC) - 3cr.
- ANTH4180 - Ethnography of Virtual Cultures - 3cr.
- ARTH4710 - Feminist Theory and Practice in the Visual Arts (CI) - 3cr.
- CMST3160 - Gender Communication - 3cr.
- ENGL5320 - Gender and Sexuality in Literature (CI) - 3cr.

- FCSE3080 - Fashion Studies and Society (DHA) - 3cr.
- FCSE3200 - Adult Responsibilities Methods - 3cr.
- HDFS2400 - Couple and Family Relationships (BSS) - 3cr.
- HDFS3110 - Human Sexuality - 3cr.
- HDFS3210 - Families and Cultural Diversity (CI) - 3cr.
- KIN4910 - Methods of Teaching Health - 3cr.
- HIST3450 - Asian Gender History - 3cr.
- HIST4260 - Witches, Workers, & Wives: Gender and Family in Early Modern Europe and America (DHA) - 3cr.
- HIST4540 - Gender, Violence, and Non-violence - 3cr.
- HIST4550 - Women and Gender in America (DHA/CI) - 3cr.
- HIST4555 - Women in Buddhism - 3cr.
- HIST4560 - Women in Islam (DHA) - 3cr.
- HIST4650 - Women and Gender in the US West - 3cr.
- JCOM4410 - Gender and the Mass Media - 3cr.
- PHIL3820 - Theories of Sex and Gender (DHA) - 3cr.
- PSY4230 - Psychology of Gender (DSS) - 3cr.
- SOC2370 - Sociology of Gender (BSS) - 3cr.
- SOC3010 - Social Inequality (DSS) - 3cr.
- SOC3020 - Inclusive Leadership & Community Engagement (CI) - 3cr.
- SOC5420 - Gender, Sexuality and Social Inequality - 3cr.
- SPED4300 - What is Normal?: Introduction to Disability Studies - 3cr.
- SPED5500 - Interdisciplinary Disability Awareness and Community Engaged Learning - 3cr.
- SW2400 - Social Work with Diverse Populations - 3cr.
- THEA3570 - Historic Clothing (DHA) - 3cr.

Program Learning Outcomes

Program Learning Outcomes

https://chass.usu.edu/assessments/

Master in Secondary Teaching - MST

Program Overview

College
College of Education & Human Services

Department
School of Teacher Education & Leadership

Program Level
Graduate

About this Degree

The School of Teacher Education and Leadership (TEAL) offers a Master in Secondary Teaching (MST) degree that is designed for persons seeking educator licensing following a previous undergraduate degree. The MST (Plan C) degree is available for students both at the Logan campus and at Statewide Campuses. The basic elements of the MST coursework option include completion of 30 credits in an approved program of study. Additional coursework may be necessary to meet licensure requirements of the Utah State Board of Education (USBE).

This program is specifically designed to provide an avenue for education degree seekers and job changers to become licensed educators. Upon degree completion, USU will be able to recommend licensure.

This program leads to a recommendation for teaching licensure from USU. However, licensure is granted by the Utah State Board of Education.

For additional admission information, including contact information, visit the School of Teacher Education & Leadership MST website.

Admission Requirements for this Program

- A bachelor's degree from an accredited U. S. college or university or a similarly recognized international university is required for admission to and completion of a graduate program.
- At minimum 3.0 GPA will be required for admission over the last 30 credits taken prior to the application.
- Official transcripts (not needed if degree is from USU)
- 3 letters of recommendation
- Acceptance to the Secondary Teacher Education Program (STEP) program.
- Approved FBI/BCI background fingerprint check cleared through the Utah State Board of Education (USBE).

Deadline for applications: March 1st, June 1st, and November 1st

Program Requirements

Total Credits Required In Program Coursework
30

Total Credits Required To Earn This Credential
30

Simple Requisites

Program Requirements

School of Graduate Studies General Graduation Guidelines:

Degree Verification: A bachelor's degree from an accredited U. S. college or university or a similarly recognized international university is required for admission to and completion of a graduate program.

Overall Graduate GPA: At least 3.0 and no grades of C- or lower. Graduate students are required to maintain at least a 3.0 GPA for degree-program courses. Grades of C- or lower will not be accepted for a graduate degree.

Course Number Acceptability: The Program of Study for a master's degree must include at least 18 semester credits at the level of 6000 or above. The program of study may include up to 12 semester credits of 5000 level courses.

Matriculation Start Semester: A master's degree must be completed within six years of entering the degree program. Additional time may be requested and submitted to the Vice Provost of Graduate Studies for review.

Coursework Validity: Coursework over eight years old at the time of degree completion may not be used for a graduate degree unless it is revalidated.

Required Master's Forms (Professional/Plan C): Approval of academic forms required for master's students by the School of Graduate Studies:

- Program of Study
- Graduation Application

Department Requirements:

A grade of B- or better is required on all major courses and pedagogical content knowledge courses. Students must maintain an overall GPA of 3.0 or higher.

At the conclusion of the program, each student must complete/submit the following:

- Exit interview
- Exit survey

Licensure Information:

Utah State Board of Education (USBE) licensure requirements included content endorsement courses and pedagogy courses before taking your Methods/ Clinical courses. See USBE endorsement site for more information regarding the licensure requirements. Depending on your bachelor's degree, satisfying licensure requirements may vary and include additional courses. See the Teacher Education and Leadership Advisor with the MST advising area for more information.

The content/pedagogy courses are required for USU to recommend teaching licensure to the USBE, however, they do not fulfill master's requirements.

Secondary Content/Pedagogy Courses:

A grade of B- or better is required in all pedagogical content knowledge courses.

- Defined USBE Secondary Endorsement Courses (Courses and credits vary depending on content area)
- Content Area Methods I
- Content Area Clinical I
- Content Area Methods II (if required by content area)
- Content Area Clinical II (if required by content area)
- SPED4000 EDUCATION STUD W/DISABILITIES
- ITLS2500 TECHNOLOGY ENABLED INSTRUCTION or ITLS5500 INTEGRAT INNOVAT TECH IN EDUC

Master in Secondary Teaching - MST (30 Credits)

Type

Completion Requirement

Required Courses (21 credits)

A grade of B- or better is required in all major courses.

Complete ALL of the following Courses:

- SCED5100 - Motivation and Classroom Management - 3cr.
- SCED5210 - Learning Theory, Curriculum, and Assessment - 3cr.
- TEAL6150 - Foundations of Curriculum - 3cr.
- TEAL6410 - Social Foundations of Education - 3cr.
- TEAL6545 - Research For Teachers - 3cr.
- TEAL6710 - Diversity in Education - 3cr.
- TEAL6770 - Content Based Instruction for Dual Language Immersion/English as a Second Language - 3cr.

Student Teaching (9 credits)

TEAL6210 GRAD STUDENT TEACHING and TEAL6211 GRAD STUDENT TEACHING SEMINAR **must be taken together.**

Complete ALL of the following Courses:

- TEAL6210 - Graduate Student Teaching - 3cr.
- TEAL6211 - Graduate Student Teaching Seminar - 3cr.

NOTE:

1. TEAL6210 GRAD STUDENT TEACHING - Register for 6 credits.

Additional Comments:

Licensure Notification

This program, combined with content and pedagogy courses, may lead to licensure and was designed to meet licensing qualifications in the state of Utah. If students wish to work in another state within the United States, they should review the qualifications for that state and the Education Licensure Compliance Table provided by School of Teacher Education and Leadership.

For more information, please contact the School of Teacher Education and Leadership at https://cehs.usu.edu/teal/.

Program Learning Outcomes

Program Learning Outcomes

Learners & Learning
Effective teachers exhibit knowledge, skills and dispositions that demonstrate an awareness of and sensitivity toward diversity in learner development and student individualities.

Instructional Clarity
Effective teachers exhibit knowledge, skills, and dispositions that demonstrate clarity regarding the content they teach and how to organize and sequence it to effectively facilitate learning and drive student engagement.

Instructional Practice
Effective teachers exhibit knowledge, skills, and dispositions that support instructional practices that drive high-quality instruction, demonstrate a data-driven and cooperative approach to teaching and learning, and meet the diverse needs of all learners.

Classroom Climate
Effective teachers exhibit the knowledge, skills, and dispositions that enable them to create appropriate physical, social, and emotional environments to support learning.

Professional Responsibility
Effective teachers exhibit the knowledge, skills, and dispositions that demonstrate awareness of and adherence to professional and ethical standards personally, within their school community, with parents, and within their local community.

Small Firm Management - Minor

Program Overview

College
College of Agriculture & Natural Resources

Department
Applied Economics

Program Level
Undergraduate

About this Degree

The Small Firm Management minor at Utah State University focuses on providing students with the knowledge and skills required to effectively manage and operate small businesses.

Students will learn about microeconomics, small firm accounting basics, small firm management, and business law. They will also choose from courses covering topics such as commodity futures and options trading, applied economics for decision-making, and strategic firm management.

Program Requirements

Total Credits Required In Program Coursework
18

Total Credits Required To Earn This Credential
18

Simple Requisites

Program Requirements

To graduate with the Small Firm Management minor, a minimum GPA of 2.5 is required in minor coursework.

Section 1

Type
Completion Requirement

Required Courses

Complete ALL of the following Courses:

- APEC2010 - Introduction to Microeconomics (BSS) - 3cr.
- APEC2120 - Small Firm Accounting Basics - 3cr.
  OR BUSN1111 - Accounting Principles - 3cr.
- APEC2310 - Small Firm Management - 3cr.
- APEC2900 - Agricultural and Natural Resource Law - 3cr.
  OR AV3120 - Aviation Law - 3cr.
  OR BUSN2050 - Business Law - 3cr.
- APEC3310 - Analytical Methods in Applied Economics (QI) - 3cr.

Section 2

Type
Completion Requirement

Elective

Complete at least 1 of the following courses:

- APEC2500 - Commodity Futures and Options Trading and Analysis - 3cr.
- APEC5015 - Applied Economics for Decision Making (QI) - 3cr.
- APEC5020 - Strategic Firm Management (CI) - 3cr.

Program Learning Outcomes

Program Learning Outcomes

https://caas.usu.edu/apec/assessment

Small Firm Management - Institutional Certificate of Proficiency

Program Overview

College
College of Agriculture & Natural Resources

Department
Applied Economics

Program Level
Undergraduate

About this Degree

The Small Firm Management Certificate is designed to provide basic skills in accounting, management, law, and economic analysis for individuals wanting to start or better manage a small business. Students can gain additional management expertise and earn the Small Firm Management Minor with a few additional courses.

Program Requirements

Total Credits Required In Program Coursework
12

Total Credits Required To Earn This Credential
12

Simple Requisites

Program Requirements

A minimum GPA of 3.0 is required in certificate coursework, and all courses must be completed with a grade of C- or better. Coursework may not be taken on a pass/fail basis. There are four courses (12 credits) required for this certificate:

Section 1

Type
Completion Requirement

Required Courses

Complete ALL of the following Courses:

- APEC2120 - Small Firm Accounting Basics - 3cr.
  OR BUSN1111 - Accounting Principles - 3cr.
- APEC2310 - Small Firm Management - 3cr.
- APEC2900 - Agricultural and Natural Resource Law - 3cr.
- APEC3310 - Analytical Methods in Applied Economics (QI) - 3cr.
  OR APEC4310 - Agribusiness Finance - 3cr.

NOTE:

1. APEC2120 SMALL FIRM ACCOUNTING BASICS, APEC3310 ANALYTICAL METHODS IN APEC(QI), and APEC4310 AGRIBUSINESS FINANCE will be taught in fall semesters.
2. APEC2310 SMALL FIRM MANAGEMENT and APEC2900 AGRICULTURE AND NR LAW will be taught in spring semesters.
3. APEC2120 SMALL FIRM ACCOUNTING BASICS needs to be taken as the first course and both APEC2120 SMALL FIRM ACCOUNTING BASICS and APEC2310 SMALL FIRM MANAGEMENT need to be taken prior to APEC3310 ANALYTICAL METHODS IN APEC(QI).

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Undergraduate Academic or Technical Certificates)

Program Learning Outcomes

Program Learning Outcomes

https://caas.usu.edu/apec/assessment

Speech and Hearing Sciences (Online) 2nd Bachelor of Science Degree - BS

Program Overview

College
College of Education & Human Services

Department
Speech and Hearing Sciences

Program Level
Undergraduate

About this Degree

The second bachelor's degree in Speech and Hearing Sciences (SHS) is designed for students who already have a bachelor's degree in another field but need the prerequisite coursework to be considered for admission into graduate programs in speech-language pathology, audiology, or deaf education. The entire program is offered online and can be completed in three semesters, or can be finished at a more leisurely pace according to the student's needs.

Speech-language pathologists work with individuals of all ages who have difficulties communicating, learning to communicate, feeding, or swallowing. This may include infants with feeding disorders or children with speech, language, hearing, or literacy development problems. It may also include children and adults who stutter, have voice disorders, or suffer speech, language, and swallowing problems as a consequence of neurological disease or stroke.

Audiologists evaluate and manage individuals who are suspected or have been identified as having differences associated with hearing. Audiologists conduct testing to help identify hearing loss, select and fit hearing aids, program cochlear implants, and provide aural rehabilitation.

Deaf educators at USU are trained to work with children who are deaf or hard of hearing who are developing and using listening and spoken language. Deaf educators trained in other programs also work with children developing sign language.

Nationally there is a critical need for master-level or doctoral-level professionals in the field of communicative disorders. Many individuals already holding bachelor's degrees in another field who would like to pursue these professions are lacking the required undergraduate prerequisites needed in order to be considered for admission into graduate programs. There are also employment opportunities as bachelor-degree speech-language assistants. The Department of Speech and Hearing Sciences at Utah State University has developed an online second bachelor's degree program to help fulfill these needs.

In order to be accepted into this program, students must have a bachelor's degree from an accredited U.S. or Canadian university in another discipline.

A 3.0 overall GPA within the first bachelor's degree is strongly recommended. However, students having a GPA below 3.0 will still be considered for admission.

- For more information about Speech and Hearing Sciences, see the department website. For more information about this program please visit the Speech and Hearing Sciences (Online 2nd BS Degree) website.
- Admitted and current students must meet with an advisor.
- Log on to Degree Works to check student-specific program progress.

Admission Requirements for this Program

- In order to be accepted into this program, students must have a bachelor's degree from an accredited U.S. or Canadian university in another discipline.
- A 3.0 overall GPA within the first bachelor's degree is strongly recommended. However, students having a GPA below 3.0 will still be considered for admission.

Program Requirements

Total Credits Required In Program Coursework
37

Total Credits Required To Earn This Credential
37

Simple Requisites

Program Requirements

Minimum University Requirements (2nd Bachelor's Degree)

- Total credits beyond those applied toward the first bachelor's degree: 30
- Grade Point Average: 2.0 GPA
- Credits of upper-division courses (3000 or above): 18
- Candidates for a 2nd bachelor's degree who did not satisfy the General Education, Breadth American Institutions (BAI) requirement in the first bachelor's degree, must satisfy this requirement before receiving the 2nd bachelor's degree.

Additional Information

- Degree-seeking students take a minimum of 13 SHS courses: 12 required courses and at least one 3-credit Options course.
- Degree-seeking students must also meet the Breadth American Institutions (BAI) requirement.
- SHS-required courses should be taken in the sequence listed.
- All required courses are typically taught online every semester.
- Options online course availability varies by semester.
- Students may take more Options courses based on their educational interests and career plans.
- Students cannot take prerequisites concurrently with courses that require them.
- All required and Options SHS courses must be taken for a letter grade (not Pass/D+, D, F).
- A minimum grade of C is required for all SHS courses and prerequisites.
- SHS students are allowed a total of three SHS course repeats.
- SHS students must have an overall GPA of 3.0 in order to register for the next semester. See SHS policies for failure to meet GPA requirements.
- Students may waive up to six credits of approved undergraduate SHS courses, equivalent to USU SHS courses.

Major Requirements

The USU second bachelor's degree program consists of 13 online SHS courses. The entire program may be completed during three semesters but can be completed over a longer period if desired. All courses in the second bachelor's program are taken online. Students must maintain at least a 3.0 GPA in order to continue in the program. Students who fall below the 3.0 GPA at the end of any semester will be placed on probation and allowed to take only three repeats or additional SHS courses to get their GPA back to 3.0 or higher. SHS students are allowed a TOTAL of three SHS course repeats.

A minimum grade of C is required in all SHS courses required to graduate in the SHS major. C grades should be rare so a minimum GPA of 3.0 can be maintained over this short program of study.

With permission, students may have up to 2 approved, equivalent SHS courses waived. These courses must have been completed as part of a CAA-ASHA accredited program. In order to use these courses to replace equivalent courses within USU's program, students should contact their advisor.

Speech and Hearing Sciences (Online) - 2nd BS

Type

Completion Requirement

Required SHS Core Courses (34 credits)

Complete ALL of the following Courses:

- SHS2400 - Orientation and Observation - 1cr.
- SHS2600 - Introduction to Communication Disorders - 3cr.
- SHS3200 - Child Language Development - 3cr.
- SHS3500 - Phonetics and Phonological Development - 3cr.
- SHS3600 - Language Science (CI) - 3cr.
- SHS3800 - Anatomy and Physiology of Speech and Hearing - 3cr.
- SHS4200 - Clinical Methods (CI) - 3cr.
- SHS4450 - Developmental Communication Disorders - 3cr.
- SHS4500 - Acquired Communication Disorders - 3cr.
- SHS4700 - Basic Audiology - 3cr.
- SHS5070 - Acoustics of Speech and Hearing - 3cr.
- SHS5330 - Aural Rehabilitation - 3cr.

Additional SHS Options Course Requirements (3-4 credits)

Choose one SHS Options course. Not all Options courses are offered each semester, please see your advisor for information. Students are encouraged to take more than two Options courses and other available courses depending upon interests and career paths. See course catalog or advisor for other educational opportunities not listed here, such as more ASL courses, Senior Clinic, SLPA Clinical Experience, Honors, and Community Engaged Scholars.

Complete at least 1 of the following courses:

- ASL1020 - American Sign Language II - 4cr.
- ASL1010 - American Sign Language I - 4cr.
- SHS5120 - Management of Speech Sound Disorders - 3cr.
- SHS5240 - Neural Bases of Cognition and Communication - 3cr.

American Institutions Course

Complete the following as needed:
Candidates for a second bachelor's degree who did not satisfy an American Institutions requirement in the first bachelor's degree must satisfy any deficiency in this requirement before receiving the second bachelor's degree. This course is typically part of the general education courses completed in a bachelor's degree.

Additional Related Courses (not included in this program)

The following non-SHS courses are strongly recommended and may be required for certain graduate schools. For graduate school in speech-language pathology and certification as a speech-language pathologist, ASHA requires one course in each of the following four areas: statistics, biological science, physical science (physics or chemistry), and social/behavioral sciences. If students have not completed courses of this type as a part of another university degree, they should discuss this in more detail with their advisor. Some of these non-SHS courses may not be available online at USU or taught every semester.

Complete ANY of the following Courses:

- STAT1040 - Introduction to Statistics (QL) - 3cr.
  OR STAT1045 - Introduction to Statistics with Elements with Algebra (QL) - 5cr.
  OR STAT2000 - Statistical Methods (QI) - 4cr.
- BIOL1010 - Biology and the Citizen (BLS) - 3cr.
  OR NDFS1020 - Science and Application of Human Nutrition (BLS) - 3cr.
- CHEM1010 - Introduction to Chemistry (BPS) - 3cr.
- PSY1010 - General Psychology (BSS) - 3cr.
  OR SOC1010 - Introductory Sociology (BSS) - 3cr.
  OR ANTH1010 - Cultural Anthropology (BSS) - 3cr.
- BIOL2320 - Human Anatomy - 4cr.
  OR BIOL2420 - Human Physiology - 4cr.
  OR SHS1500 - Basics of Human Anatomy and Physiology for Applied Sciences - 3cr.
- HDFS1500 - Human Development Across the Lifespan (BSS) - 3cr.
  OR PSY1100 - Lifespan Development - 3cr.
- SPED4000 - Education of Students with Disabilities - 3cr.

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Bachelor's Degree)

Suggested Degree Maps

Degree Map Name
Suggested Degree Map - Speech and Hearing Sciences (Online 2nd Bachelor of Science Degree) - BS
Total Degree Map Credits
37
Degree Map Effective Catalog Year
2027 -

Degree Map Narrative

- Following is a sample four-year plan. Please note that student-specific plans may differ.
- Meet with an academic advisor to create a specific plan that best fits your academic needs.
- The student is ultimately responsible for knowing and completing all degree requirements.
- Make sure you meet the registration requirements for each class by clicking the course link and checking any prerequisites or corequisites.
- Consultation with an advisor may result in an altered plan customized for an individual student.
- Check your Degree Works for requirements and completion.

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	12	0

Requirement Select
- SHS2600 - Introduction to Communication Disorders

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- SHS3200 - Child Language Development

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- SHS3500 - Phonetics and Phonological Development

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- SHS3800 - Anatomy and Physiology of Speech and Hearing

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	13	0

Requirement Select
- SHS2400 - Orientation and Observation

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- SHS3600 - Language Science (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- SHS4450 - Developmental Communication Disorders

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- SHS4500 - Acquired Communication Disorders

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- SHS4700 - Basic Audiology

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	12	0

Requirement Select

- SHS4200 - Clinical Methods (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- SHS5070 - Acoustics of Speech and Hearing

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- SHS5330 - Aural Rehabilitation

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- SHS Options Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	Total Major Credits
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Program Learning Outcomes

Program Learning Outcomes

https://cehs.usu.edu/shs/assessment/university/undergraduate-program/learning-objectives

Speech and Hearing Sciences - BA, BS

Program Overview

College
College of Education & Human Services

Department
Speech and Hearing Sciences

Program Level
Undergraduate

About this Degree

A bachelor's degree in speech and hearing sciences is a pre-professional degree that prepares students for graduate school in speech-language pathology, audiology, or deaf education. With a bachelor's degree in SHS, students may also become speech-language pathology assistants.

Speech-language pathologists work with individuals of all ages who have difficulty communicating, learning to communicate, feeding, or swallowing. This may include infants with feeding disorders or children with speech, language, hearing, or literacy development problems. It may also include children and adults who stutter, have voice disorders, or suffer from speech, language, and swallowing problems as a consequence of neurological disease or stroke.

Audiologists evaluate and manage individuals who are suspected or have been identified as having differences associated with hearing. Audiologists conduct testing to help identify hearing loss, select and fit hearing aids, program cochlear implants, and provide aural rehabilitation.

Deaf Educators at USU are trained to work with children who are deaf or hard of hearing who are developing and using listening and spoken language. Deaf educators trained in other programs also work with children developing sign language.

Students receive a BS by completing all required courses in the major. To receive a BA, students must also gain proficiency in one or more foreign languages.

- For more information about the department and major, see the website.
- Admitted and current students must meet with an advisor.
- Online and Main Campus course sequences may vary. Please see your advisor for an individual plan.
- Log on to Degree Works to check student-specific program progress.
- The highest math requirement for this degree is STAT1040 INTRO TO STATISTICS (QL) or STAT1045 INTRO STAT WITH ALGEBRA (QL).

Admission Requirements for this Program

- Freshmen admitted to USU in good standing qualify for admission as **pre**-SHS majors.
- Transfer students and USU students transferring from other USU majors qualify for the pre-SHSmajor. To move to the SHS major, students must meet the department's admissions requirements.

Program Requirements

Total Credits Required In Program Coursework
45

Total Credits Required To Earn This Credential
120

Simple Requisites

Program Requirements

To advance from pre-SHS to the SHS major, students should meet with their advisor after the following requirements have been met:

- GPA of 3.0 across all courses required for the SHS Major that a student can take in pre-SHS status
- Earned at least 60 semester credits
- Complete at least 5 courses required for the SHS Major that the student can take in pre-SHS status: Required Gen Ed, Additional Core, SHS2600 INTRO TO COMD INTRO TO SHS, SHS3500 PHONETICS AND PHONOLOGICAL DEV PHONETICS AND PHONOLOGICAL DEV, and optionally ASL1010 AMERICAN SIGN LANGUAGE I AMERICAN SIGN LANGUAGE I (CI).

(Transfer students who have completed equivalent courses to those above that have been articulated by USU will be evaluated on those courses.)

For the SHS Major, students take 12 SHS courses and two SHS Options courses plus Gen Ed and Additional Core (see lists below for the courses in each category.)

In order to graduate with a degree in SHS, students admitted to the major must maintain a 3.0 major GPA and a grade of C or better in all SHS courses required for the student's SHS major.

To improve learning and major GPA, students are allowed to repeat up to a total of three SHS courses. They can also repeat SHS Major Required Gen Ed and Additional Core courses (See university policy on repeats; total allowed includes SHS repeats).

Students may waive up to six credits of USU SHS upper division course requirements equivalent to transfer courses approved as lower division SHS Electives. This limit excludes ASL courses. This policy does not affect courses approved as specific USU SHS course transfers. See the Department Policies webpage for policy information.

Acceptance into graduate programs is on a competitive basis. Students are selected on GPA in combination with other indicators of achievement. Students planning on graduate school in speech-language pathology, audiology, or deaf education should carefully and honestly evaluate their potential for excelling in their coursework and maintaining a high GPA.

Speech and Hearing Sciences - BA, BS

Type
Completion Requirement

Core Requirements (15-18 credits)

Some courses may fulfill general education requirements.

Complete ALL of the following Courses:

- BIOL1010 - Biology and the Citizen (BLS) - 3cr.
  OR NDFS1020 - Science and Application of Human Nutrition (BLS) - 3cr.
- BIOL2320 - Human Anatomy - 4cr.
  OR BIOL2420 - Human Physiology - 4cr.
  OR SHS1500 - Basics of Human Anatomy and Physiology for Applied Sciences - 3cr.
- CHEM1010 - Introduction to Chemistry (BPS) - 3cr.
  OR PHYS1010 - Elementary Physics (BPS) - 3cr.
  OR PHYS1200 - Introduction to Physics by Hands-on Exploration (BPS) - 4cr.
- HDFS1500 - Human Development Across the Lifespan (BSS) - 3cr.
  OR PSY1100 - Lifespan Development - 3cr.
- PSY1010 - General Psychology (BSS) - 3cr.
  OR SOC1010 - Introductory Sociology (BSS) - 3cr.
  OR ANTH1010 - Cultural Anthropology (BSS) - 3cr.
- SPED4000 - Education of Students with Disabilities - 3cr.
- STAT1040 - Introduction to Statistics (QL) - 3cr.
  OR STAT1045 - Introduction to Statistics with Elements with Algebra (QL) - 5cr.
  OR STAT2000 - Statistical Methods (QI) - 4cr.

Required SHS Core Courses (34 credits)

Complete ALL of the following Courses:

- SHS2400 - Orientation and Observation - 1cr.
- SHS2600 - Introduction to Communication Disorders - 3cr.
- SHS3200 - Child Language Development - 3cr.
- SHS3500 - Phonetics and Phonological Development - 3cr.
- SHS3600 - Language Science (CI) - 3cr.
- SHS3800 - Anatomy and Physiology of Speech and Hearing - 3cr.
- SHS4200 - Clinical Methods (CI) - 3cr.
- SHS4450 - Developmental Communication Disorders - 3cr.
- SHS4500 - Acquired Communication Disorders - 3cr.
- SHS4700 - Basic Audiology - 3cr.
- SHS5070 - Acoustics of Speech and Hearing - 3cr.
- SHS5330 - Aural Rehabilitation - 3cr.

Additional SHS Options Course Requirements (6-7 credits)

Choose two SHS Options courses. Not all courses are offered each semester. See advisor for available Option courses. Students are encouraged to take more than two Option courses depending upon interests and career paths. See course catalog or advisor for other educational opportunities not listed here, such as additional ASL courses, Senior Clinic, SLPA Clinical Experience, Honors, and Community Engaged Scholars.

Complete at least 2 of the following courses:

- ASL1010 - American Sign Language I - 4cr.
- ASL1020 - American Sign Language II - 4cr.
- SHS5120 - Management of Speech Sound Disorders - 3cr.
- SHS5240 - Neural Bases of Cognition and Communication - 3cr.

Open Electives

Complete the following as needed:
Total elective credit is determined by General Education courses taken, degree type selected, additional credits earned, and any additional math or other prerequisite courses needed. Please consult your Academic Advisor for details.

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Bachelor's Degree)

Suggested Degree Maps

Degree Map Name
Suggested Degree Map: Speech and Hearing Sciences - BA, BS
Total Degree Map Credits
124 - 128
Degree Map Effective Catalog Year
2027 -

Degree Map Narrative

- Following is a sample four-year plan. Please note that student-specific plans may differ.
- Meet with an academic advisor to create a specific plan that best fits your academic needs.
- The student is ultimately responsible for knowing and completing all degree requirements.
- Make sure you meet the registration requirements for each class by clicking the course link and checking any prerequisites or corequisites.
- Consultation with an advisor may result in an altered plan customized for an individual student.
- Check your Degree Works for requirements and completion.

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	14 - 16	0

Requirement Select

- USU 1010 is recommended, but not required. Enroll in 2 credits. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- ENGL1010 - Writing as Inquiry (CL1)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- PSY1010 - General Psychology (BSS)
  OR
- ANTH1010 - Cultural Anthropology (BSS)
  OR
- SOC1010 - Introductory Sociology (BSS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- STAT1040 - Introduction to Statistics (QL)
  OR
- STAT1045 - Introduction to Statistics with Elements with Algebra (QL)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 5
Progress Credits	-
Contact Hours	3 - 5
Clinical	-
Criticality	No

Requirement Select

- Elective (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- USU1010 - University Connections

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	15	0

Requirement Select

- BIOL1010 - Biology and the Citizen (BLS)
  OR
- NDFS1020 - Science and Application of Human Nutrition (BLS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- ENGL2010 - Research and Argument Across Perspectives (CL2)
  OR
- ENGL2020 - Professional Communication (CL2)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- HDFS1500 - Human Development Across the Lifespan (BSS)
  OR
- PSY1100 - Lifespan Development

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Breadth American Institutions (BAI) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Breadth Humanities (BHU) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	18 - 19	0

Requirement Select
- SHS2600 - Introduction to Communication Disorders

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Breadth Creative Arts (BCA) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- CHEM1010 - Introduction to Chemistry (BPS)
  OR
- PHYS1010 - Elementary Physics (BPS)
  OR
- PHYS1200 - Introduction to Physics by Hands-on Exploration (BPS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 4
Progress Credits	-
Contact Hours	3 - 4
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	16 - 17	0

Requirement Select
- Elective course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Elective course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Quantitative Intensive (QI) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- BIOL2320 - Human Anatomy

OR

- BIOL2420 - Human Physiology

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Fall	16	0

Requirement Select

- Must maintain 3.0 GPA. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- SHS2400 - Orientation and Observation

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- SHS3500 - Phonetics and Phonological Development

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- SHS3800 - Anatomy and Physiology of Speech and Hearing

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Depth Life and Physical Sciences (DSC) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Depth Humanities and Creative Arts (DHA) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Elective course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Spring	15	0

Requirement Select

- Must maintain 3.0 GPA. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- SHS3200 - Child Language Development

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- SHS3600 - Language Science (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- SHS4700 - Basic Audiology

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Elective or SHS Options course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Elective course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Fall	15	0

Requirement Select
- Must maintain 3.0 GPA (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- SHS4450 - Developmental Communication Disorders

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- SHS4500 - Acquired Communication Disorders

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- SHS5330 - Aural Rehabilitation

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- SHS Options Course (3 credits required - see SHS Options below (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective or SHS Options course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Spring	15	0

Requirement Select
- Must maintain 3.0 GPA. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- SHS4200 - Clinical Methods (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- SHS5070 - Acoustics of Speech and Hearing

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- SHS Options course (3 credits required - see SHS Options below) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Elective or SHS Options course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- SPED4000 - Education of Students with Disabilities

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Total General Education Credits
0

Total Major Credits
0

Total Minor Credits
0

Total Elective Credits
0

Program Learning Outcomes

Program Learning Outcomes

https://cehs.usu.edu/shs/assessment/university/undergraduate-program/learning-objectives

School Library Media Administration - Post-Bachelor's Certificate

Program Overview

College
College of Education & Human Services

Department
Instructional Technology & Learning Sciences

Program Level
Graduate

About this Degree

The certificate will prepare students to work in Library Media Centers by developing knowledge and skills in foundations of school libraries, school library media-oriented instruction and assessments, library programming, information and media literacy, school library organization and access, the leadership role of a school librarian, and educational technology integration.

Program Requirements

Total Credits Required In Program Coursework
18

Total Credits Required To Earn This Credential
18

Simple Requisites

Program Requirements

18 credits

School Library Media Administration - Post-Bachelor's Certificate

Type
Completion Requirement

Certificate Requirements (18 credits)

All six courses are required for this certificate; none of these courses can be substituted.

Complete ALL of the following Courses:

- ITLS5000 - School Library Foundation and Learning - 3cr.
- ITLS5015 - School Library Organization and Access - 3cr.
- ITLS5025 - School Library Instruction and Assessment - 3cr.
- ITLS5030 - School Library Literacy and Programs - 3cr.
- ITLS5040 - School Library Leadership and Administration - 3cr.
- ITLS5500 - Integration and Innovation of Technology in Education - 3cr.

Program Learning Outcomes

Program Learning Outcomes

https://cehs.usu.edu/about/assessment

School Library Media Administration - Certificate

Program Overview

College
College of Education & Human Services

Department
Instructional Technology & Learning Sciences

Program Level
Undergraduate

About this Degree

The Department of Instructional Technology and Learning Sciences (ITLS) offers a Certificate in School Library and Media Administration (SLMA) to prepare students to work in school library media centers. The certificate program requires 18 credits (6 courses) to develop knowledge and skills in foundations of school libraries, school library media-oriented instruction and assessments, library programming, information and media literacy, school library organization and access, the leadership role of a school librarian, and educational technology integration.

Program Requirements

Total Credits Required In Program Coursework
18

Total Credits Required To Earn This Credential
18

Simple Requisites

Program Requirements

18 credits

School Library Media Administration - Certificate

Type
Completion Requirement

Required Courses (18 credits)

Complete ALL of the following Courses:

- ITLS5000 - School Library Foundation and Learning - 3cr.
- ITLS5015 - School Library Organization and Access - 3cr.
- ITLS5025 - School Library Instruction and Assessment - 3cr.
- ITLS5030 - School Library Literacy and Programs - 3cr.
- ITLS5040 - School Library Leadership and Administration - 3cr.
- ITLS5500 - Integration and Innovation of Technology in Education - 3cr.

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Undergraduate Academic or Technical Certificates)

Program Learning Outcomes

Program Learning Outcomes

https://cehs.usu.edu/about/assessment

School Library Media Administration - Minor

Program Overview

College
College of Education & Human Services

Department
Instructional Technology & Learning Sciences

Program Level
Undergraduate

About this Degree

The program is designed for students to begin with 2 courses fall semester, continue with 2 courses spring semester, and complete all requirements by the end of summer semester. Or students may take 2 years to complete the program by taking 1 course per semester. A practicum experience, which involves in-school observations throughout the school year is a major component in the program. The program consists of six courses for a total of eighteen credits. A minimum of fifteen of the eighteen required credits must be taken through the Department of Instructional Technology & Learning Sciences at Utah State University for a departmental recommendation to the Utah State Board of Education for endorsement. But students may apply, and be granted, the library media endorsement without a departmental recommendation. The SLMA courses are web broadcast on Tuesday nights each semester, with additional materials and assignment online through Canvas.

Admission Requirements for this Program

If you are currently not a student at Utah State University, you must apply and be accepted before you begin the coursework. Use the online transfer student application form (available at usu.edu/admissions/) or work with your local Utah State University Statewide Campus. Find your local USU Statewide Campus here. Directions for completing the online transfer student application form are available on the Instructional Technology & Learning Sciences website (itls.usu.edu/).

Program Requirements

Total Credits Required In Program Coursework
18

Total Credits Required To Earn This Credential
18

Simple Requisites

Program Requirements

18 credits

The purpose of the School Library Media Administration (SLMA) program is to provide both pre and in-service teachers with the courses necessary to meet the requirements for library media K-12 endorsement as a school library media specialist/teacher in the state of Utah. It is assumed that the individual seeking teacher endorsement in library media holds, or is working toward, licensure as a classroom teacher. Students enrolled in the teacher education program at either the elementary or secondary education level at Utah State University may elect the program as an undergraduate minor.

Other majors may choose this as a minor.

Completion of the coursework does not automatically guarantee a recommendation by the Instructional Technology & Learning Sciences Department to the Utah State Office of Education. A recommendation for the library media K-12 endorsement will be made when the student has:

1. Approval of the practicum advisor
2. Completed the program courses with a 3.0 GPA or higher
3. Demonstrated competency in all coursework
4. Demonstrated interpersonal skills to work effectively with students and teachers

Section 1

Type
Completion Requirement

Required Courses (18 credits)

Complete ALL of the following Courses:

- ITLS5000 - School Library Foundation and Learning - 3cr.
- ITLS5015 - School Library Organization and Access - 3cr.
- ITLS5025 - School Library Instruction and Assessment - 3cr.
- ITLS5030 - School Library Literacy and Programs - 3cr.
- ITLS5040 - School Library Leadership and Administration - 3cr.
- ITLS5500 - Integration and Innovation of Technology in Education - 3cr.

Program Learning Outcomes

Program Learning Outcomes
https://cehs.usu.edu/about/assessment

Speech-Language Pathology - MA, MS

Program Overview

College
College of Education & Human Services

Department
Speech and Hearing Sciences

Program Level
Graduate

About this Degree
Utah State University's speech-language pathology program results in a Master's of Arts (MA) or Master's of Science (MS) in Speech-Language Pathology. This post-baccalaureate degree is part of the Western Regional Graduate Exchange program (WRGP). The program in speech-language pathology is accredited by the Council on Academic Accreditation (CAA) of the American Speech-Language-Hearing Association (ASHA). Our program adheres to the Utah Speech-Language Pathology Professional and Educational Standards and prepares students for entry into the profession of speech-language pathology.

Students graduate prepared for employment in educational and healthcare settings and eligible for national certification and Utah state licensure. For licensure in states other than Utah, see https://www.usu.edu/online/state-authorization/.

Program Requirements

Total Credits Required In Program Coursework
57

Total Credits Required To Earn This Credential
57

Simple Requisites

Program Requirements

The two-year program consists of a minimum of 57 credit hours (32 credits of academic coursework and 25 credits of clinical coursework). Students complete a Plan B thesis project (MS) or Plan C comprehensive exam (MA). Students must take the ASHA national exam (Educational Testing Service-Praxis test) and notify the department of Praxis results to graduate.

The two-year program occurs across six semesters of full-time study. It begins with an intensive on-campus summer semester that starts in early June. A small number of students may enroll in the Listening and Spoken Language (LSL) Certificate for working with children who are deaf or hard of hearing. An Outreach track allows a small number of students to complete the program while working as Speech-Language Technicians in Utah school districts. Admission to all program options is on a competitive basis.

For further information on Campus, Outreach, and LSL options, course sequence, admission requirements, and other program features, see SLP graduate program and SHS Policies.

To be accepted into the master's degree program, students must have a bachelor's degree in Speech and Hearing Sciences or equivalent.

Students must have a GPA of 3.0 or better, with no more than one course grade below B- and have met program competencies to graduate with this degree.

School of Graduate Studies and Program Requirements:

Degree Verification. A bachelor's degree from an accredited U. S. college or university or a similarly recognized international university is required for admission to and completion of a graduate program.

Overall Graduate GPA and minimum grades. Graduate students are required to maintain at least a 3.0 GPA for degree-program courses. Grades of C- or lower will not be accepted for a graduate degree. In the Speech-Language Pathology program, no more than one course grade below B- is allowed. Students must also meet all program competencies and submit a national certification exam score to graduate with this degree.

Course Number Acceptability. The Program of Study for a master's degree or a doctoral degree, if the student has a master's degree, must include at least 15 semester credits at the level of 6000 or above. Credits in the following areas are not acceptable in a degree program: foreign languages (unless included in an approved Program of Study), continuing graduate advisement, individual home study, military science, and courses numbered below 6000.

Matriculation Start Semester. A master's degree must be completed within six years of entering the degree program. Additional time may be requested by the student's committee and submitted to the Vice Provost of Graduate Studies for review

Required SGS forms for Plan B:

- Supervisory Committee Approval Form
- Program of Study
- Appointment for Examination
- Record of Examination
- Thesis Project Approval Form
- Library Approvals

Speech Language Pathology Core Courses

Type
Completion Requirement

Required Courses

Complete ALL of the following Courses:

- SHS6020 - Language Assessment and Intervention for School-Age Children and Adolescents - 3cr.
- SHS6030 - Disorders of Fluency-Stuttering - 3cr.
- SHS6050 - Professional Practice in Speech-Language Pathology - 1cr.
- SHS6100 - Advanced Clinical Practicum in Speech-Language Pathology - 1cr.
- SHS6120 - Adult Language Disorders - 3cr.
- SHS6130 - Motor Speech Disorders - 3cr.
- SHS6140 - Dysphagia - 1cr.
- SHS6150 - Phonological Assessments and Intervention - 3cr.
- SHS6200 - Internship in Public Schools-Speech-Language Pathology - 1cr.
- SHS6220 - Severe Communication Impairments - 1cr.
- SHS6230 - Introduction to Research in Communicative Disorders - 3cr.
- SHS6250 - Birth to Five Language Intervention - 3cr.
- SHS6300 - Externship in Speech-Language Pathology - 1cr.
- SHS6400 - Medical Externship in Speech-Language Pathology - 1cr.
- SHS6905 - Special Topics in Communicative Disorders - 1cr.
- SHS6930 - Comprehensive Examination in Speech-Language Pathology - 1cr.
- SHS6970 - Thesis - 1cr.

NOTES:

1. SHS6050 PROFESSIONAL PRACT IN SLP - 1 credit required
2. SHS6100 ADV CLINIC PRACT SLP - 7 credits required for Campus, 1 credit for Outreach
3. SHS6140 DYSPHAGIA - 3 credits required
4. SHS6200 INTERN PUBLC SCHOOL SLP- 5 credits required for Campus, 14 credits for Outreach
5. SHS6220 SEVERE COMM IMPAIRMENTS - 3 credits required
6. SHS6300 EXTERNSHIP IN SLP - 3 credits for Campus
7. SHS6400 MEDICAL EXTERNSHIP IN SLP - 10 credits
8. SHS6905 SPECIAL TOPICS IN COMD - 3 credits required - ST: Voice and Resonance Disorders
9. SHS6930 COMP EXAM- SLP - 1 credit required for Plan C
10. SHS6970 THESIS - 2 credits required for Plan B

Additional Comments:

Not part of graduate program, taken if needed (contact advisor):

- SHS5240 NEURAL BASES OF COG AND COMM - 3 credits
- 4 foundational courses: physical science, social science, biological science, and statistics

Program Learning Outcomes

Program Learning Outcomes

https://cehs.usu.edu/shs/assessment/university/speech-language-pathology-certificate-program/learning-objectives

Speech-Language Pathology Assistant - Certificate

Program Overview

College
College of Education & Human Services

Department
Speech and Hearing Sciences

Program Level
Undergraduate

About this Degree

The Speech-Language Pathology Assistant (SLPA) certificate can be earned with the USU 1st or 2nd Speech and Hearing Sciences - BA/BS. It may also be earned accompanying or following a bachelor's degree in other disciplines without completing a Speech and Hearing Sciences major.

Program Requirements

Total Credits Required In Program Coursework
25

Total Credits Required To Earn This Credential
25

Simple Requisites

Program Requirements

The Speech-Language Pathology Assistant (SLPA)certificate requires a total of 9 courses. To earn the certificate, students must meet the SHS minimum course grade requirement of C, pass the clinical experience course and have a GPA of at least 3.0 in the required courses.

SHS courses may be repeated to improve grades up to a total of three times for a particular course or across courses. Students may waive up to six credits of undergraduate Utah State University SLPA courses (excluding SHS5960 CLINCAL EXP: SPEECH/LANG/PATH CLINICAL EXP: SPEECH/LANG/PATH) equivalent to approved undergraduate courses from another institution.

Students are responsible for finding their own SLPA employment or internship that meets the clinical experience requirements of SHS5960 CLINCAL EXP: SPEECH/LANG/PATH. Instructor approval for use of that setting is required before enrollment in 5960.

Students who have completed a USU Speech and Hearing Sciences bachelor degree, but have not yet completed all the SLPA certificate requirements may do so in post-bachelor status. For further information on the SLPA certificate and eligibility for national certification and state licensure, see the department SLPA webpage.

Speech-Language Pathology Assistant - Certificate

Type
Completion Requirement

Required Courses (25 Credits)

Complete ALL of the following Courses:

- SHS2400 - Orientation and Observation - 1cr.
- SHS2600 - Introduction to Communication Disorders - 3cr.
- SHS3200 - Child Language Development - 3cr.
- SHS3500 - Phonetics and Phonological Development - 3cr.
- SHS3800 - Anatomy and Physiology of Speech and Hearing - 3cr.
- SHS4200 - Clinical Methods (CI) - 3cr.
- SHS4450 - Developmental Communication Disorders - 3cr.
- SHS5120 - Management of Speech Sound Disorders - 3cr.
- SHS5960 - Clinical Experience: Speech-Language Pathology Assistant - 3cr.

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Undergraduate Academic or Technical Certificates)

Program Learning Outcomes

Program Learning Outcomes

https://cehs.usu.edu/shs/assessment/university/speech-language-pathology-certificate-program/learning-objectives

Soil Science - Minor

Program Overview

College
College of Agriculture & Natural Resources

Department
Plants, Soils and Climate

Program Level
Undergraduate

Program Requirements

Total Credits Required In Program Coursework
16

Total Credits Required To Earn This Credential
16

Simple Requisites

Program Requirements

To graduate with the Soil Science minor, a minimum GPA of 2.5 is required in min or coursework.

Section 1

Type
Completion Requirement

Soil Science Minor Requirements (16 credits)

Fulfill ALL of the following requirements:

The following course is required:

Complete ALL of the following Courses:

- PSC3000 - Fundamentals of Soil Science - 4cr.

AND

Select 12 credits from the following courses:

Earn at least 12 credits from the following:

- PSC4500 - Urban Soil Management and Reclamation - 3cr.
- PSC5710 - Irrigated Soils - 3cr.
- PSC5050 - Principles of Environmental Soil Chemistry - 3cr.
- PSC5130 - Soil Genesis, Morphology, and Classification - 4cr.
- PSC5310 - Soil Microbiology - 3cr.
- PSC5350 - Wildland Soils - 3cr.
- PSC5530 - Soil Health and Fertility (QI) - 3cr.
- PSC5560 - Analytical Techniques for the Soil Environment - 3cr.
- PSC5670 - Environmental Soil Physics - 4cr.
- PSC5740 - Environmental Quality: Soil and Water (CI) - 2cr.

Program Learning Outcomes

Program Learning Outcomes

https://caas.usu.edu/psc/assessment

Soil Science - MS

Program Overview

College
College of Agriculture & Natural Resources

Department
Plants, Soils and Climate

Program Level
Graduate

About this Degree

Soil is the basis of sustainable land systems, a storehouse of organic carbon, nutrients and water, and the critical link between land and atmosphere. The soil science program is particularly strong in water-related issues and soils in sustainable agroecosystems.

Research areas are offered in soil and water chemistry; soil biochemistry and ecology; soil conservation systems; soil fertility and plant nutrition; soil physics; soil-plant-water relations; soil taxonomy and genesis; molecular biology, and soils and irrigation.

The Climate Adaptation Science Specialization is also offered as an interdepartmental program.

Graduate Program Director: Dr. Jeanette Norton

E-mail: jeanette.norton@usu.edu

Admission Requirements for this Program

Prior to applying, the potential applicant must have a qualified PSC faculty member agree to accept them into their laboratory and be their major (supervisory) professor. Contact Dr. Jeanette Norton with questions.

General Requirements

All prospective graduate students must apply through the School of Graduate Studies. Refer to the School of Graduate Studies website for admission requirements. Please note that all applicants must meet the following general admission requirements:

- A bachelor's degree from an accredited college
- A 3.0 GPA as calculated by the School of Graduate Studies. An official transcript must be sent directly to the School of Graduate Studies from each college or university previously attended (except USU).
- Student recommendation request forms (included in application materials) should be used to request three people to submit letters of recommendation directly to the graduate school. Two letters of recommendation should be from faculty from whom you have taken course work.
- International Students: Please visit the School of Graduate Studies website for requirements.

Program Requirements

Total Credits Required In Program Coursework
30

Total Credits Required To Earn This Credential
30

Simple Requisites

Program Requirements

Degree Verification

A bachelor's degree from an accredited U.S. college or university or a similarly recognized international university is required for admission to and completion of a graduate program.

Overall Graduate GPA at least 3.0 and no grades of C- or lower; Graduate students are required to maintain at least a 3.0 GPA for degree-program courses. Grades of C- or lower will not be accepted for a graduate degree.

Course Number Acceptability
The Program of Study for a master's degree must include at least 15 semester credits at the level of 6000 or above.

Credits in the following areas are not acceptable in a degree program: foreign languages, continuing graduate advisement, individual home study, military science, and courses numbered below 5000.

Matriculation Start Semester
A master's degree must be completed within six years of entering the degree program. Additional time may be requested by the student's committee and submitted to the Vice Provost of Graduate Studies for review.

Coursework Validity
Coursework over eight years old at the time of degree completion may not be used for a graduate degree unless it is revalidated.

Thesis Research Credits 6970

Master's Plan A students:
The Plan A option requires the preparation and defense of a thesis. Students are required to complete 6-15 semester credits of thesis research PSC6970 RESEARCH AND THESIS that will be applied toward a Program of Study.

Master's Plan B students:
A Plan B option requires the production and defense of a paper or project. Students are required to complete a minimum of 2 credits of thesis research PSC6970 RESEARCH AND THESIS with a maximum of 3 thesis research credits applied toward a Program of Study.

Professional/Plan C students cannot use any thesis/dissertation credits.

Master's Forms

Master's forms: Approval of the following academic forms is required for master's students by the School of Graduate Studies (SGS):

- Supervisory Committee
- Program of Study
- Thesis/Project Approval
- Appointment for Examination
- Record of Examination
- SGS and library review and approval (Plan A)
- Library review and approval (Plan B)

Degree Requirements

Minimum Total Credits

The minimum requirement for a master's degree is 30 semester credits.

Course requirements leading to MS degrees are developed jointly by the student and the student's supervisory committee. Each student must have a Program of Study approved by their supervisory committee.

The following are required:

- 15 credits minimum of committee-approved 6000-7000 level courses
    - including 2 credits of Plants, Soils and Climate Graduate seminar (PSC6890 PSC GRADUATE SEMINAR)

(5000 level courses are considered upper-division and up to 12 credits may be used in a graduate program if approved by the supervisory committee)

- 2-15 credits of Thesis Research credits (PSC6970 RESEARCH AND THESIS) depending on plan type.
    - Plan A - minimum of 6 credits, maximum of 15 credits
    - Plan B - minimum of 2 credits, maximum of 3 credits

Course selections reflect areas of research. Designation of a specialization is optional and specializations will appear on transcript. There are additional specific departmental requirements regarding physical sciences, biological sciences, and mathematics courses, which differ depending on the program and area of research.

All MS students write a Plan A thesis or create a Plan B project under the guidance of their advisor and supervisory committee. The master's thesis must be successfully defended before the supervisory committee and submitted to the library.

Degree Requirements

Type
Completion Requirement

Required

Complete ALL of the following Courses:

- PSC6890 - Plants, Soils, and Climate Graduate Seminar - 1cr.
- PSC6970 - Research and Thesis - 1cr.

PSC6970 RESEARCH AND THESIS credits vary depending on plan type

Program Learning Outcomes

Program Learning Outcomes
https://caas.usu.edu/psc/assessment

Soil Science - PhD

Program Overview

College
College of Agriculture & Natural Resources

Department
Plants, Soils and Climate

Program Level
Graduate

About this Degree

Soil is the basis of sustainable land systems, a storehouse of organic carbon, nutrients and water, and the critical link between land and atmosphere. The soil science program is particularly strong in water-related issues and soils in sustainable agroecosystems.

Research areas are offered in soil and water chemistry; soil biochemistry and ecology; soil conservation systems; soil fertility and plant nutrition; soil physics; soil-plant-water relations; soil taxonomy and genesis; molecular biology, and soils and irrigation.

The Climate Adaptation Science Specialization is also offered as an interdepartmental program.

Graduate Program Director: Dr. Jeanette Norton

E-mail: jeanette.norton@usu.edu

Admission Requirements for this Program

Prior to applying, the potential applicant must have a qualified PSC faculty member agree to accept them into their laboratory and be their major (supervisory) professor. Contact Dr. Jeanette Norton with questions.

General Requirements

All prospective graduate students must apply through the School of Graduate Studies. Refer to the School of Graduate Studies website for admission requirements. Please note that all applicants must meet the following general admission requirements:

- A bachelor's degree from an accredited college
- A 3.0 GPA as calculated by the School of Graduate Studies. An official transcript must be sent directly to the School of Graduate Studies from each college or university previously attended (except USU).
- Student recommendation request forms (included in application materials) should be used to request three people to submit letters of recommendation directly to the graduate school. Two letters of recommendation should be from faculty from whom you have taken course work.
- International Students: Please visit the School of Graduate Studies website for requirements.

Program Requirements

Total Credits Required In Program Coursework
30

Total Credits Required To Earn This Credential
30

Simple Requisites

Program Requirements

Minimum Total Credits

Doctoral degrees generally require 30 academic credits beyond a master's degree or 60 academic credits beyond a bachelor's degree. The credit amounts are determined by the approved Program of Study.

Course requirements leading to Ph.D. degrees are developed jointly by the student and the student's supervisory committee. Each student must have a Program of Study approved by their supervisory committee.

The following are required:

- Ph.D. (post-master's):
  - 15 credits minimum of committee-approved 6000-7000 level courses
    - including 2 credits of Plants, Soils and Climate Graduate seminar (PSC7890 PSC GRADUATE SEMINAR)
- Ph.D. (post-baccalaureate):
  - 30 credits minimum of committee-approved 6000-7000 level courses
    - including 2 credits of Plants, Soils and Climate Graduate seminar (PSC7890 PSC GRADUATE SEMINAR)

(5000 level courses are considered upper-division and up to 12 credits may be used in a graduate program if approved by the supervisory committee)

- Thesis Research credits (PSC7970 RESEARCH AND THESIS):
  - If student has master's degree - minimum of 12 credits
  - If student has a bachelor's degree - minimum of 18 credits

Course selections reflect areas of research. Designation of a specialization is optional and specializations will appear on transcript. There are additional specific departmental requirements regarding physical sciences, biological sciences, and mathematics courses, which differ depending on the program and area of research.

All Ph.D. students write a dissertation under the guidance of their advisor and supervisory committee. The doctoral dissertation must be successfully defended before the supervisory committee and submitted to the library.

Qualifying Exams

- Each Ph.D. student must undergo some sort of qualifying experience. Depending on the student's particular research and their faculty committee, the exam can either be a traditional oral and written exam, a scholarly proposal, or another option best suited to the student's individual situation.

Required of all programs and degree types:

Degree Verification

A bachelor's degree from an accredited U.S. college or university or a similarly recognized international university is required for admission to and completion of a graduate program.

Overall Graduate GPA at least 3.0 and no grades of C- or lower; Graduate students are required to maintain at least a 3.0 GPA for degree-program courses. Grades of C- or lower will not be accepted for a graduate degree.

Course Number Acceptability
The Program of Study for a doctoral degree, if the student has a master's degree, must include at least 15 semester credits at the level of 6000 or above. If the student does not have a master's degree, the Program of Study must include at least 30 credits at the level of 6000 or above.

Credits in the following areas are not acceptable in a degree program: foreign languages, continuing graduate advisement, individual home study, military science, and courses numbered below 5000.

Matriculation Start Semester
A doctorate must be completed within eight years of entering the degree program. Additional time may be requested by the student's committee and submitted to the Vice Provost of Graduate Studies for review.

Coursework Validity
Coursework over eight years old at the time of degree completion may not be used for a graduate degree unless it is re-validated.

Thesis Research Credits 7970
A minimum of 12 dissertation credits (7970) is required if the student has a master's degree, and a minimum of 18 is required if the student has a bachelor's degree.

Doctoral Forms

Doctoral forms: Approval of the following academic forms required for doctoral students by the School of Graduate Studies (SGS):

- Supervisory Committee
- Program of Study
- Application for Candidacy (includes proposal)
- Appointment for Examination
- Record of Examination
- Authorship and Copyright
- Style and Format
- SGS and library review and approval

Requirements

Type
Completion Requirement

Requirements

Complete ALL of the following Courses:

- PSC7890 - Plants, Soils, and Climate Graduate Seminar - 1cr.
- PSC7970 - Research and Thesis - 1cr.

Required credits vary depending on plan type

- ***2 credits are required in PSC 7890***

Program Learning Outcomes

Program Learning Outcomes
https://caas.usu.edu/psc/assessment

Second Language Teaching - MS

Program Overview

College
College of Arts & Sciences

Department
World Languages and Cultures

Program Level
Graduate

About this Degree
The Master of Science in Second Language Teaching (MS-SLT) is an interdisciplinary master's degree program emphasizing teaching practice, teaching methods, and related topics. The MS-SLT program attracts graduate students who seek training in second language education, bilingual education, dual language immersion, and English as a foreign/second language. Many are current or future K-12 teachers.

Admitted applicants will be able to choose between two available tracks. Through the Online Master of Science in Second Language Teaching Track, all coursework is provided online and asynchronously, providing flexibility for students from any location and with any work schedule. This track prepares students for careers in second language instruction in higher education, readies students to pursue doctoral studies, and provides professional development for current K-12 instructors. Students will take courses on the methodology, theories, and research of second language teaching. Students in this track will choose to complete either an original research project (Plan A) or a teaching portfolio (Plan B).

Through the Teaching Licensure Track with a Master of Science in Second Language Teaching, students have the ability to earn both a Master of Science degree and take the necessary coursework for secondary teaching licensure (grades 6-12 with a World Languages endorsement). This track also provides students the opportunity to observe and teach classes in a K-12 school setting under the supervision of a mentor. All students in this track will complete a teaching portfolio (Plan B).

For up-to-date information, including application requirements, refer to the SLT-MS web page. To apply, visit the graduate school admission page.

Admission Requirements for this Program
Refer to the SLT-MS web page and graduate school admission page.

Program Requirements

Total Credits Required In Program Coursework
30-39

Total Credits Required To Earn This Credential
30-36

Simple Requisites

Program Requirements

Online Master of Science in Second Language Teaching Track

Students in the Online Track will choose between Plan A and Plan B options.

Plan A: Students who choose the Plan A option will take 18 credits of core MS-SLT classes, 6 credits of electives, and 6 credits of thesis research. They will finish their work in the program through an original research project under the guidance of a faculty mentor. These students will register for 6 credits of LING6970 THESIS RESEARCH. A Plan A student on the online track will complete 30 credits of coursework to earn the degree.

Plan B: Students who choose the Plan B option will take 18 credits of core MS-SLT classes, 9 credits of electives, and 3 credits of thesis research They will finish their work in the program with the creation of a teaching portfolio under the guidance of a faculty mentor. These students will register for 3 credits of LING6970 THESIS RESEARCH. A Plan B student on the online track will complete 30 credits of coursework to earn the degree.

Teaching Licensure Track

Students who complete the Teaching Licensure Track with a Master of Science in Second Language Teaching, earn a Master of Science degree and take the necessary coursework for secondary teaching licensure (grades 6-12 with a World Languages endorsement). The Teaching Licensure Track is comprised of 15 credits of core MS-SLT classes which focus on the foundational aspects of foreign/second language education. This track also includes general education courses through the College of Education and Human Services, which focus on general education issues (motivation, classroom management, curricular development, assessment, etc.) as well as key topics in secondary school teaching.

Students in this track also observe and teach classes in a K-12 school setting under the supervision of a mentor. Note that this track has two prerequisites: 1) admission to the Secondary Teacher Education Program (STEP), which includes passing the Utah State Board of Education background check; and 2) passing an Oral Proficiency Interview at the advanced low level (or better), which is administered by the American Council on the Teaching of Foreign Languages.

Some requirements for this track require the student to take classes in person on USU's Logan campus.

The Teaching Licensure Track is Plan B only. All students in the Teaching Licensure Track will finish their work in the program with the creation of a teaching portfolio under the guidance of a faculty mentor. These students will register for 3 credits of LING6970 THESIS RESEARCH: Thesis Research. This track requires 36 credits of coursework to earn the master's degree. Teaching licensure (6-12 with a World Languages Endorsement) will require an additional 3-credit Special Education course. Both the master's and the licensure together require a total of 39 credits of coursework.

Degree Verification: A bachelor's degree from an accredited U.S. college or university or a similarly recognized international university is required for admission to and completion of a graduate program.

Overall Graduate GPA at least 3.0 and no grades of C- or lower; Graduate stude nts are required to maintain at least a 3.0 GPA for degree-program courses. Gra des of C- or lower will not be accepted for a graduate degree.

Course Number Acceptability: The Program of Study for a master's degree must include at least 15 semester credits at the level of 6000 or above. The maximum number of 5000-level credits that may count toward this degree is 12.

Matriculation Start Semester: A master's degree must be completed within six years of entering the degree program. Additional time may be requested by the student's committee and submitted to the Vice Provost for Graduate Studies for review.

Coursework Validity: Coursework over eight years old at the time of degree completion may not be used for a graduate degree unless it is revalidated by the Vice Provost for Graduate Studies.

Thesis Research Credits

Master's Plan A students:
The Plan A option requires the preparation and defense of a thesis. Students are required to complete a minimum of 6 credits of thesis research (LING6970 THESIS RESEARCH THESIS RESEARCH) for a Program of Study.

Plan A Required Forms:

- Supervisory Committee Form
- Program of Study
- Thesis Proposal Approval
- Appointment for Exam
- Authorship & Copyright
- Format and Style
- Title Page
- Graduate Application
- Record of Exam

Master's Plan B students:
A Plan B option requires the production and defense of a paper or project. Students are required to complete a minimum of 3 credits of thesis research (LING6970 THESIS RESEARCH THESIS RESEARCH) with a maximum of 3 thesis research credits applied toward a Program of Study

Plan B Required Forms:

- Supervisory Committee Form
- Program of Study
- Thesis/Project Approval
- Appointment for Exam
- Plan B Report/Creative Project Submission
- Graduate Application
- Record of Exam

Online Track (30 credits)

Type
Completion Requirement

Online Track Requirements

The Online Master of Science in Second Language Teaching degree (SLT-MS) has a 30-credit requirement. All coursework is delivered online, asynchronously.

Students must complete either a thesis (Plan A), or teaching portfolio (Plan B).

● Full-time student degree completion expectation is 2 years.
● In-person courses are not currently offered for this track.

Fulfill ALL of the following requirements:

Required Courses

Complete ALL of the following Courses:

- LING6010 - Research in Second Language Learning - 3cr.
- LING6400 - Second Language Teaching: Theory and Practice - 3cr.
- LING6500 - Second Language Acquisition: Theory and Practice - 3cr.
- LING6520 - Technology for Language Teaching - 3cr.
- LING6820 - Second Language Pragmatics - 3cr.
- LING6900 - Culture Teaching and Learning: Theory and Practice - 3cr.
- LING6970 - Thesis Research - 3cr.

NOTE:

1. LING6970 THESIS RESEARCH

   PLAN A (Thesis) - Enroll in 6 credits
   PLAN B (Teaching Portfolio) - Enroll in 3 credits

AND

Elective Courses (6-9 credits)

Students will choose 6-9 credits.

Earn at least 6 credits from the following:

- LING6800 - Topics in Second Language Acquisition - 3cr.

- LING6810 - Current Issues in Teaching World Languages - 3cr.
- LING6830 - Sociolinguistics, Sociolinguistic Competence, and Second Language Acquisition - 3cr.
- LING6940 - Independent Study - 1cr.

● Approved TEAL 6XXX-level Course (3 credits)
● Approved ITLS 6XXX-level Course (3 credits)

NOTE:

1. PLAN A (Thesis)- Enroll in 6 elective credits.
2. PLAN B (Teaching Portfolio)- Enroll in 9 elective credits.

Teaching Licensure Track (36 credits)

Type
Completion Requirement

Required Courses (36 credits)

Master of Science in Second Language Teaching (SLT-MS) track with teaching licensure path/program must complete 36 credits.

The Teaching Licensure Track offers Plan B option only.

● The Teaching Licensure Track requires both in-person and online asynchronous coursework.
● Full-time student degree completion expectation is 2 years.

Complete ALL of the following Courses:

- LING5400 - Teaching Modern Languages - 3cr.
- LING6010 - Research in Second Language Learning - 3cr.
- LING6400 - Second Language Teaching: Theory and Practice - 3cr.
- LING6500 - Second Language Acquisition: Theory and Practice - 3cr.
- LING6520 - Technology for Language Teaching - 3cr.
- LING6900 - Culture Teaching and Learning: Theory and Practice - 3cr.
- SCED5100 - Motivation and Classroom Management - 3cr.
- SCED5210 - Learning Theory, Curriculum, and Assessment - 3cr.
  AND SCED5500 - Student Teaching Seminar - 2cr.
- SCED6305 - Graduate Clinical Experience - 1cr.
- TEAL6210 - Graduate Student Teaching - 3cr.
- LING6970 - Thesis Research - 3cr.

NOTES:

1. TEAL6210 GRAD STUDENT TEACHING - Enroll in 6 credits.

Requirement for grades 6-12 teaching licensure in the state of Utah.

Teaching Licensure: SPED4000 EDUCATION STUD W/DISABILITIES(3 credits) is not required to earn the Master's degree for students on the Teaching Licensure Track. However, it is required to apply for grades 6-12 teaching licensure in the state of Utah. This increases the total number of credits for students choosing to earn both the Master's and licensure to 39 credits.

Complete ALL of the following Courses:

- SPED4000 - Education of Students with Disabilities - 3cr.

Program Learning Outcomes

Program Learning Outcomes
https://chass.usu.edu/languages/assessments

Social Analytics - Post-Bachelor's Certificate

Program Overview

College
College of Arts & Sciences

Department
School of Social Sciences

Program Level
Graduate

About this Degree

The certificate includes two core required classes. These classes cover fundamental research methods and statistical techniques used across a range of social sciences. A minimum of 6 hours of elective coursework will span a range of topic areas, such as: geographic information science; demographic analysis; ethnographic methods; survey research methods; and structural equation modeling.

Program Requirements

Total Credits Required In Program Coursework
12

Total Credits Required To Earn This Credential
12

Simple Requisites

Program Requirements

Social Analytics - Post-Bachelor's Certificate

Type
Completion Requirement

Socio-Behavioral Research Methods Courses (3 credits)

Complete at least 1 of the following courses:

- ANTH6360 - Research Design and Quantitative Methods in Archaeology - 3cr.
- POLS6010 - Research Design - 3cr.
- SOC6100 - Advanced Methods of Social Research - 3cr.
- SW6200 - Social Work Research Methods - 3cr.

Socio-Behavioral Statistics (3 credits)

Complete ALL of the following Courses:

- SOC6150 - Social Statistics II - 3cr.

Elective Courses (6 credits)

Complete at least 2 of the following courses:

- ANTH6170 - Ethnographic Methods in Anthropology - 3cr.
- ANTH6370 - GIS in Archaeology - 3cr.
- POLS5000 - Political Analysis (QI) - 3cr.
- PSY7650 - Multilevel and Marginal Models for the Social Sciences - 3cr.
- PSY7760 - Structural Equation Modeling - 3cr.
- SOC6230 - Techniques of Demographic Analysis - 3cr.
- SOC6280 - Event History and Survival Analysis - 3cr.
- SOC7100 - Advanced Survey Techniques - 3cr.
- SOC7110 - Advanced Quantitative Analysis - 3cr.
- SOC7150 - Advanced Qualitative Methods in Sociology - 3cr.

Program Learning Outcomes

Program Learning Outcomes

As Utah's land-grant institution, Utah State University is charged with the task of providing a holistic and well-rounded education that also addresses critical employer needs and economic opportunities in the state. Graduate students who complete the Certificate in Social Analytics will be well positioned to address those needs and capitalize on excellent job opportunities involving the collection, management, and analysis of social data. In addition, they will have the education necessary to detect inappropriate uses of social analytics and adjudicate between competing arguments in the marketplace of ideas.

Social Analytics - Certificate

Program Overview

College
College of Arts & Sciences

Department
School of Social Sciences

Program Level
Undergraduate

About this Degree

The certificate includes two core required classes. These classes cover fundamental research methods and statistical techniques used across a range of social sciences. A minimum of 6 hours of elective coursework will span a range of topic areas, both in the College of Arts and Sciences and other colleges at USU, including: geographic information science; applied demographic analysis; ethnographic methods; big data modeling; and programming for statistical software such as SAS and R.

Program Requirements

Total Credits Required In Program Coursework
12

Total Credits Required To Earn This Credential
12

Simple Requisites

Program Requirements

Social Analytics - Certificate

Type
Completion Requirement

Socio-Behavioral Research Methods

Complete at least 1 of the following courses:

- ANTH2030 - Principles of Archaeology (BSS) - 3cr.
- CMST4810 - Quantitative Communication Studies Research Methods (QI) - 3cr.
- HDFS3130 - Research Methods (QI) - 3cr.
- JCOM2020 - Communication Research Methods (QI) - 3cr.
- POLS3000 - Introduction to Political Research (QI) - 3cr.
- PSY3500 - Research Methods in Psychology (DSS/CI) - 3cr.
- SOC3110 - Methods of Social Research (CI) - 3cr.
- SW4100 - Social Work Research (CI) - 3cr.

Socio-Behavioral Statistics

Take one of the following courses in socio-behavioral statistics.

Complete at least 1 of the following courses:

- PSY3010 - Psychological Statistics (QI) - 3cr.
- SOC3120 - Social Statistics I (QI) - 3cr.

Electives (6 credits)

Choose 6 credits from any of the areas below to count towards this certificate.

Fulfill ANY of the following requirements:

Geographic Information System (GIS)

May count one of these courses towards the certificate.

Complete ANY of the following Courses:

- ANTH3340 - Geographic Information Science for Anthropology (QI) - 3cr.
- GEO2800 - Minerals and Rocks - 4cr.
- WILD2800 - Introduction to Geographic Information Sciences - 4cr.

OR

Advanced Spatial Analysis

May count one of these courses towards the certificate.

Complete ANY of the following Courses:

- GEOG5300 - Geospatial Analysis with R - 3cr.
- GEOG5500 - Advanced Geographic Information Sciences (GIS) - 3cr.

OR

Qualitative Methods

May count one of these courses towards the certificate. A maximum of 3 credits are allowed from course options in this area.

Complete ANY of the following Courses:

- ANTH5115 - Applied Anthropology/Ethnographic Research Lab - 1cr.
- ANTH5130 - Ethnographic Field School - 3cr.
- ANTH5170 - Ethnographic Methods in Anthropology - 3cr.

NOTE:

1. ANTH5130 ETHNOGRAPHIC FIELD SCHOOL - A maximum of 3 credits is allowed for this certificate.

OR

Open Source Statistical Software

May count one of these courses towards the certificate.

Complete ANY of the following Courses:

- STAT5050 - Introduction to R - 1cr.
- WATS5650 - Analysis of Fisheries Data with R - 2cr.

OR

Miscellaneous Courses

May count one of these courses towards the certificate.

Complete ANY of the following Courses:

- DATA3300 - Introduction to Modern Data Analytics (QI) - 3cr.
- DATA3330 - Database Management - 3cr. (Inactive)
- DATA3400 - Data Visualization with Tableau (CI) - 3cr. (Inactive)
- DATA3500 - Introduction to Python Programming - 3cr. (Inactive)
- DATA5310 - Advanced Database and Database Analytics - 3cr.
- ENVS3500 - Environmental Data Science (QI) - 3cr.
- GEOG3800 - Geospatial Data Visualization - 3cr.
- POLS5000 - Political Analysis (QI) - 3cr.
- PSY5330 - Principles of Psychological Measurement and Test Theory - 3cr.
- SOC5230 - Techniques of Demographic Analysis - 3cr.
- STAT5100 - Modern Regression Methods (CI/QI) - 3cr.
- STAT5150 - SAS Predictive Analytics - 2cr.

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Undergraduate Academic or Technical Certificates)

Program Learning Outcomes

Program Learning Outcomes

The Certificate in Social Analytics is housed and administered in the College of Arts and Sciences and the School of Social Sciences. However, it will incorporate classes from across the College of Arts and Sciences as well as other colleges to give maximum flexibility to students from a variety of programs.

Sociology - Minor

Program Overview

College
College of Arts & Sciences

Department
School of Social Sciences

Program Level
Undergraduate

Program Requirements

Total Credits Required In Program Coursework
12

Total Credits Required To Earn This Credential
12

Simple Requisites

Program Requirements

Students minoring in sociology must complete a minimum of 12 credits in sociology courses. Only classes with a Sociology (SOC) prefix will be accepted for the Sociology minor. Sociology minors must maintain a minimum GPA of 2.5 in sociology courses. They must also earn a grade of *C* or better in SOC1010 INTRO SOCIOLOGY (BSS) or SOC1020 SOCIAL PROBLEMS (BSS), and a *C-* or better in all courses to be counted toward the minor. Students taking SOC1010 INTRO SOCIOLOGY (BSS) as the required course may include SOC1020 SOCIAL PROBLEMS (BSS) as part of the 9 additional sociology credits. At least 50 percent of coursework for the minor must be completed at USU. None of the credits counted toward the minor may be taken pass-fail. Sociology courses over 10 years old, do not count toward the major credit requirement.

Section 1

Type
Completion Requirement

Required Courses (12 credits)

Complete ALL of the following Courses:

- SOC1010 - Introductory Sociology (BSS) - 3cr.
  OR SOC1020 - Social Problems (BSS) - 3cr.

• 9 additional credits with a SOC prefix.

NOTE:

Only sociology classes are accepted for the minor in sociology. Although other classes may be accepted for the sociology major, they are not accepted for the sociology minor.

Program Learning Outcomes

Program Learning Outcomes

https://chass.usu.edu/sociology/assessments

Sociology - BA, BS

Program Overview

College
College of Arts & Sciences

Department
School of Social Sciences

Program Level
Undergraduate

About this Degree

Sociology is the study of social life, social change, and the social causes and consequences of human behavior.

Students receive a BS by completing all required courses in the major. To receive a BA, students must gain proficiency in one or more foreign languages.

- For more information about Sociology, see the Sociology, Anthropology and Criminal Justice Department website.
- Admitted and current students must meet with an academic advisor.
- Log on to Degree Works to check student-specific program progress.
- The highest math requirement for this degree is the Quantitative Literacy (QL) course of the student's choice.

Admission Requirements for this Program

- New freshmen: Admission to USU in Good Standing with an overall USU GPA of 2.5
- Transfer students from other institutions or other programs at USU: 2.5 GPA
- Complete SOC1010 INTRO SOCIOLOGY (BSS) and at least one other SOC-prefix class with a grade of C or better.

Program Requirements

Total Credits Required In Program Coursework
33

Total Credits Required To Earn This Credential
120

Simple Requisites

Program Requirements

Minimum GPA for Graduation: 2.25, major; 2.0, USU; 2.0, Overall

Minimum Grade Accepted: C in SOC 1010; C- in major courses

- At least fifty percent of the sociology coursework must be completed in the USU Sociology program. Sociology majors must maintain a minimum GPA of 2.25 in sociology courses and earn a grade of C or better in SOC 1010 Introductory Sociology (effective Fall Semester 2005) and a C- or better in all other courses to be counted toward the major. Classes taken P/F and earning a 'P' grade cannot be counted towards the major without special permission. Sociology courses over 10 years old do not count toward the major requirement.
- A minor outside the program is encouraged but not required.

Bachelor of Science Degree
Students desiring a (BS) Bachelor of Science degree must complete all requirements listed in the sample four-year plan below:

Bachelor of Arts Degree
In addition to completion of the requirements for a bachelor's degree, a Bachelor of Arts (BA) degree signifies proficiency in one or more foreign languages. Please see Minimum University Requirements (Bachelor's Degree) for details about language requirements.

Sociology - BA, BS

Type
Completion Requirement

Required Courses (15 credits)

Fulfill ALL of the following requirements:

Understanding Society

Complete ALL of the following Courses:

- SOC1010 - Introductory Sociology (BSS) - 3cr.
- SOC3010 - Social Inequality (DSS) - 3cr.
- SOC4010 - Sociological Theory: Insights from Classical and Contemporary Perspectives (DSS) - 3cr.

AND

Tools Classes

Complete ALL of the following Courses:

- SOC3110 - Methods of Social Research (CI) - 3cr.
- SOC3120 - Social Statistics I (QI) - 3cr.

Sociology Elective Courses (18 credits)

Of the 18 elective credits, at least 3 credits must come from three of the four specialty areas listed below.

Fulfill ANY of the following requirements:

a. Crime & Deviance

Complete ANY of the following Courses:

- SOC1020 - Social Problems (BSS) - 3cr.
- SOC3370 - Gender-Based Violence - 3cr.
  OR CJ3370 - Gender-Based Violence - 3cr.
- SOC3400 - Tribal Criminal Justice Systems - 3cr.
  OR CJ3400 - Tribal Criminal Justice Systems - 3cr.
- SOC3410 - Juvenile Delinquency - 3cr.
- SOC3420 - Criminology - 3cr.
- SOC3430 - Social Deviance (DSS) - 3cr.
- SOC3440 - Victimology - 3cr.
  OR CJ3440 - Victimology - 3cr.
- SOC3520 - Sociology of Mental Illness - 3cr.
- SOC4410 - Race and Crime (CI) - 3cr.
- SOC4420 - Law and Society (CI) - 3cr.

OR

b. Social Inequality

Complete ANY of the following Courses:

- SOC1020 - Social Problems (BSS) - 3cr.
- SOC2120 - Social Statistics in Everyday Life (QI) - 3cr.
- SOC2370 - Sociology of Gender (BSS) - 3cr.
- SOC2600 - Families Yesterday and Today - 3cr.
- SOC2630 - Sociology of Race and Ethnicity (BSS) - 3cr.
- SOC2650 - Globalization and International Development (BSS) - 3cr.
- SOC3300 - Sociology of Climate Change - 3cr.
- SOC3310 - Environmental Justice - 3cr.
- SOC3320 - Work, Inequality and the American Dream (DSS) - 3cr.
- SOC3330 - Medical Sociology (DSS) - 3cr.
- SOC3340 - Activism, Protest, and Social Movements (DSS) - 3cr.

- SOC3370 - Gender-Based Violence - 3cr.
  OR CJ3370 - Gender-Based Violence - 3cr.
- SOC3650 - Sociology of Education - 3cr.
- SOC4410 - Race and Crime (CI) - 3cr.

OR

c. People, Place, and Change

Complete ANY of the following Courses:

- SOC2650 - Globalization and International Development (BSS) - 3cr.
- SOC3200 - Population and Society (DSS) - 3cr.
- SOC3300 - Sociology of Climate Change - 3cr.
- SOC3310 - Environmental Justice - 3cr.
- SOC3600 - Finding Community in Today's Society (DSS) - 3cr.
- SOC3610 - Rural People and Places (DSS) - 3cr.
- SOC4350 - People, Power, and the Political - 3cr.
- SOC4620 - Sociology of the Environment and Natural Resources (DSS) - 3cr.
- SOC4640 - Managing Community Conflict (CI) - 3cr.
- SOC4720 - Effective Community Engagement - 3cr.

OR

d. Social Health and Well-Being

Complete ANY of the following Courses:

- SOC2600 - Families Yesterday and Today - 3cr.
- SOC2650 - Globalization and International Development (BSS) - 3cr.
- SOC3200 - Population and Society (DSS) - 3cr.
- SOC3330 - Medical Sociology (DSS) - 3cr.
- SOC3430 - Social Deviance (DSS) - 3cr.
- SOC3500 - Social Psychology - 3cr.
- SOC3520 - Sociology of Mental Illness - 3cr.
- SOC3750 - Sociology of Aging (DSS) - 3cr.
- SOC4720 - Effective Community Engagement - 3cr.

Capstone Research in Sociology (1-3 credits)

Students may count a maximum of three credits toward their degree.

Complete ALL of the following Courses:

- SOC4900 - Capstone Experience - 1cr.

Open Electives

Complete the following as needed:
Total elective credit is determined by General Education courses taken, degree type selected, additional credits earned, and any additional math or other prerequisite courses needed. Please consult your Academic Advisor for details.

Suggested Degree Maps

Degree Map Name
Suggested Degree Map - Sociology BA, BS
Total Degree Map Credits
120 - 121
Degree Map Effective Catalog Year
2027 -

Degree Map Narrative

- Following is a sample four-year plan. Please note that student-specific plans may differ.
- Meet with an academic advisor to create a specific plan that best fits your academic needs.
- The student is ultimately responsible for knowing and completing all degree requirements.
- Make sure you meet the registration requirements for each class by clicking the course link and checking any prerequisites or corequisites.
- Consultation with an advisor may result in an altered plan customized for an individual student.
- Check your Degree Works for requirements and completion.

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	15 - 16	0

Requirement Select

- Communications Literacy (CL1) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- SOC1010 - Introductory Sociology (BSS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	C
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Bachelor's Degree)

Requirement Select
- Breadth Creative Arts (BCA) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Breadth Humanities (BHU) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	15	0

Requirement Select
- Communications Literacy (CL2) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- SOC3010 - Social Inequality (DSS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Quantitative Literacy (QL) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Breadth Physical Sciences (BPS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Sociology Elective course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	15	0

Requirement Select
- SOC3110 - Methods of Social Research (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Breadth American Institutions (BAI) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Breadth Life Sciences (BLS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Sociology Elective (Group 2) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	15	0

Requirement Select
- SOC3120 - Social Statistics I (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Breadth Requirement (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Sociology Elective (Group 3) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Fall	15	0

Requirement Select
- SOC4010 - Sociological Theory: Insights from Classical and Contemporary Perspectives (DSS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Depth Humanities and Creative Arts (DHA) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- SOC Upper Division Elective (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Upper Division Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Spring	15	0

Requirement Select
- Depth Life and Physical Sciences (DSC) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- SOC Upper Division Elective (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Upper Division Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	-	15	0

Requirement Select
- Communications Intensive (CI) Courses

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Spring	15	0

Requirement Select
- SOC Upper Division Elective (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	Total Major Credits
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Program Learning Outcomes

Program Learning Outcomes

https://artsci.usu.edu/social-sciences/sociology/assessments

Sociology - MS

Program Overview

College
College of Arts & Sciences

Department
School of Social Sciences

Program Level
Graduate

About this Degree

The MS program in Sociology merges foundational coursework in sociological theory and research methods with focused training in selected specialty areas and apprenticeship roles in both basic and applied research projects. We place particular emphasis on three areas of specialization: Demography, Environment & Community, and Social Inequality. Sustained personal interaction between faculty and students is a hallmark and strength of the program. Students have the opportunity to take electives in any of the departmental specialty areas or outside the department.

The Sociology MS degree is available at the USU main campus in Logan. However, many courses are offered in online, web broadcast, and blended formats, such that students need not be resident in Logan to complete the degree.

Contacts

Interim director of graduate studies – Erin Hofmann https://artsci.usu.edu/social-sciences/sociology/directory/faculty-staff/erin-hofmann

Graduate program coordinator – Megan Sills https://artsci.usu.edu/social-sciences/anthropology/directory/faculty-staff/sills-megan

Admission Requirements for this Program

The MS program in Sociology admits students in Fall semesters only, with an application deadline of December 20 of the previous year. Admission Requirements include:

- Unofficial transcript indicating a bachelor's degree in an accredited U.S. college or university or a similarly recognized international university. For admitted students, an official transcript must be provided by the end of the student's first semester.
- A degree in sociology is not required but preference is given to students who demonstrate a background in sociology or another social science.
- Three letters of recommendation from individuals familiar with the applicant's accomplishments and potential for success in graduate school.
    - An example of the applicant's written work.
    - A statement of purpose (1-2 pages)
    - A resume or CV
    - GRE scores may be provided but are not required
    - International students must provide TOEFL or IELTS scores as proof of English proficiency

For additional information on admissions, please visit the program website https://artsci.usu.edu/social-sciences/sociology/resources/graduate/admissions or the School of Graduate Studies https://gradschool.usu.edu/

Program Requirements

Total Credits Required In Program Coursework
30

Total Credits Required To Earn This Credential
30

Simple Requisites

Program Requirements

SCHOOL OF GRADUATE STUDIES REQUIREMENTS

Degree Verification: A bachelor's degree from an accredited U. S. college or university or a similarly recognized international university is required for admission to and completion of a graduate program.

Course Number Acceptability: All courses applied to a graduate degree should be 6000-level or higher, but the sociology program will accept up to 6 credits of 5000-level courses.

Overall Graduate GPA at least 3.0 and no grades of C- or lower: Graduate students are required to maintain at least a 3. 0 GPA for degree-program courses. Grades of C- or lower will not be accepted for a graduate degree. Exceptions for grades below a B can be offered for a maximum of 6 credits, at the discretion of the supervisory committee.

Matriculation Start Semester: A master's degree must be completed within six years of entering the degree program. Additional time may be requested by the student's committee and submitted to the Vice Provost for Graduate Studies for review.

Coursework Validity: Coursework over eight years old at the time of degree completion may not be used for a graduate degree unless it is revalidated by the School of Graduate Studies.

Transfer Credits: We generally do not accept courses transferred from other graduate programs to count towards required credits in the MS program. However, with approval of the supervisory committee and graduate program director, a maximum of 6 transfer credits may be accepted.

Thesis Research Credits 6970: Students must complete a minimum of 6 credits of Thesis Research.

Academic Forms: Completion of the MS degree requires the approval of the following forms by the School of Graduate Studies:

- Supervisory Committee
- Program of Study
- Thesis Proposal Approval
- Appointment for Exam
- Authorship & Copyright
- Format and Style
- Title Page
- Graduation Application

Additionally, all MS degree students must complete Responsible Conduct of Research training prior to forming their supervisory committees.

MASTER OF SCIENCE IN SOCIOLOGY REQUIREMENTS

Completion of the degree requires 30 total credits (including a minimum of 9 credits of thesis research hours) with a grade of B or higher.

All MS students write a Plan A thesis under the guidance of their advisor and supervisory committee. The master's thesis must be successfully defended before the supervisory committee and submitted to the library.

Course Requirements for Master's Degree Students

Type
Completion Requirement

Core Courses (9 credits)

Complete ALL of the following Courses:

- SOC6010 - Development of Sociological Theory - 3cr.
- SOC6100 - Advanced Methods of Social Research - 3cr.
- SOC6150 - Social Statistics II - 3cr.

Electives (12 credits)

A minimum of 12 elective credits are required. At least 6 elective credits must be sociology courses at the 6000-level or above.

Credits in the following areas are not acceptable in a degree program: foreign languages (unless included in an approved Program of Study), continuing graduate advisement, individual home study, military science, and courses numbered below 6000.

Classes not listed below (i.e. relevant courses from another program or department) may be applied toward the MS elective requirement but must be authorized by the Graduate Program Director and/or Major Professor and included in an approved Program of Study.

Earn at least 12 credits from the following:

- SOC6200 - Social Demography - 3cr.
- SOC6230 - Techniques of Demographic Analysis - 3cr.
- SOC6270 - Global Migration - 3cr.
- SOC6280 - Event History and Survival Analysis - 3cr.
- SOC6310 - Sociology of Work and Occupations - 3cr.
- SOC6420 - Gender, Sexuality, and Social Inequality - 3cr.
- SOC6460 - Sociology of Health, Illness, and Disability - 3cr.
- SOC6470 - Inequalities in the Criminal Justice System - 3cr.
- SOC6480 - Seminar in Race and Ethnicity - 3cr.
- SOC6620 - Environment, Technology, and Social Change - 3cr.
- SOC6630 - Social and Community Dimensions of Natural Resources - 3cr.
- SOC6640 - Multispecies Justice and Indigenous Environmentalisms - 3cr.
- SOC6720 - Applied Community Development - 3cr.
- SOC6760 - Theory and Research in Social Inequality - 3cr.
- SOC6800 - Seminar in Sociology - 1cr.
- SOC7100 - Advanced Survey Techniques - 3cr.
- SOC7110 - Advanced Quantitative Analysis - 3cr.
- SOC7150 - Advanced Qualitative Methods in Sociology - 3cr.
- SOC7350 - People, Power, and the Political - 3cr.
- SOC7720 - Applied Community Theory and Development - 3cr.

Thesis Research (9 credits)

All Sociology MS students are required to complete 9 credits of thesis research hours.

However, a student may substitute 3 of the 9 required thesis research credits (for a total of 6) with an additional 3-credit elective course if approved by their supervisory committee.

Complete ALL of the following Courses:

- SOC6970 - Thesis Research - 1cr.

Program Learning Outcomes

Program Learning Outcomes

https://chass.usu.edu/assessments/

Sociology - PhD

Program Overview

College	Department	Program Level
College of Arts & Sciences	School of Social Sciences	Graduate

About this Degree

The PhD program in Sociology merges foundational coursework in sociological theory and research methods with focused training in selected specialty areas and apprenticeship roles in both basic and applied research projects. We place particular emphasis on three areas of specialization: Demography, Environment & Community, and Social Inequality. Sustained personal interaction between faculty and students is a hallmark and strength of the program.

PhD students are expected to concentrate in and pass a written comprehensive examination in one major specialty area. The three available specialization areas are as follows:

- ***Demography***

This specialization explores issues of population change, migration, and health outcomes. Graduate coursework is provided in social demography, techniques of demographic analysis, population health, migration, and various special topic seminars.

- ***Environment & Community***

This specialization focuses on the sociology of natural resources, environmental sociology, community theory, and applied community development. Faculty and students in this specialization area engage in numerous cooperative research ventures with colleagues in natural resource sciences, water engineering, and other physical and social sciences.

- ***Social Inequality***

The area specialization in social inequality allows graduate students to explore how states, policies, organizations and labor markets come together to create differing opportunities and outcomes for diverse groups within society, as well as across societies. Department faculty conduct research on gender, racial, and class inequalities within the United States and other countries, as well as comparative, cross-national research.

Contacts

Interim director of graduate studies – Erin Hofmann https://artsci.usu.edu/social-sciences/sociology/directory/faculty-staff/erin-hofmann

Graduate program coordinator – Megan Sills https://artsci.usu.edu/social-sciences/anthropology/directory/faculty-staff/sills-megan

Admission Requirements for this Program

The PhD program in Sociology admits students in Fall semesters only, with an application deadline of December 20 of the previous year. Admission requirements include:

- Unofficial transcripts from all previous higher educational institutions attended. A bachelor's degree in an accredited U.S. college or university or a similarly recognized international university is required for admission to the PhD program, and a master's degree is preferred. For admitted students, an official transcript must be provided by the end of the student's first semester.
- A degree in sociology is not required but preference is given to students who demonstrate a background in sociology or another social science.
- Three letters of recommendation from individuals familiar with the applicant's accomplishments and potential for success in graduate school.
- An example of the applicant's written work.

- A statement of purpose (1-2 pages)
- A CV or resume
- GRE scores may be provided but are not required
- International students must provide TOEFL or IELTS scores as proof of English proficiency

For additional information on admissions, please visit the program website https://artsci.usu.edu/social-sciences/sociology/resources/graduate/admissions or the School of Graduate Studies https://gradschool.usu.edu/

Program Requirements

Total Credits Required In Program Coursework
48-69

Total Credits Required To Earn This Credential
48-69

Simple Requisites

Program Requirements

SCHOOL OF GRADUATE STUDIES REQUIREMENTS

Degree Verification: A bachelor's and/or master's degree from an accredited U. S. college or university or a similarly recognized international university is required for admission to and completion of the PhD in Sociology.

Course Number Acceptability: All courses applied to a graduate degree should be 6000-level or higher, but the sociology program will accept up to 6 credits of 5000-level courses.

Overall Graduate GPA at least 3.0 and no grades of C- or lower: All PhD coursework must be completed with a grade of B or higher. Graduate students are required to maintain at least a 3.0 GPA for degree-program courses. Grades of C- or lower will not be accepted for a graduate degree. Exceptions for grades below a B can be offered for a maximum of 6 credits, at the discretion of the supervisory committee.

Matriculation Start Semester: A doctoral degree must be completed within eight years of entering the degree program. Additional time may be requested by the student's committee and submitted to the Vice Provost for Graduate Studies for review.

Coursework Validity: Coursework over eight years old at the time of degree completion may not be used for a graduate degree unless it is revalidated by the School of Graduate Studies.

Transfer Credits: We generally do not accept courses transferred from other graduate programs to count towards required credits in the PhD program. However, with approval of the supervisory committee and graduate program director, a maximum of 6 transfer credits may be accepted.

Dissertation Research Credits 7970: Students entering with a master's degree must complete a minimum of 12 credits of Dissertation Research. Students entering with a bachelor's degree must complete 15 hours of Dissertation Research. A maximum of 21 Dissertation Research credits may be applied to the PhD.

Academic Forms: Completion of the PhD requires the approval of the following forms by the School of Graduate Studies:

- Supervisory Committee
- Program of Study
- Application for Candidacy
- Appointment for Exam
- Authorship & Copyright
- Format and Style
- Title Page
- Graduation Application

Additionally, all graduate level students must complete Responsible Conduct of Research training prior to forming their supervisory committees.

PHD IN SOCIOLOGY REQUIREMENTS

All PhD students, regardless of track, will complete written comprehensive examinations in the student's area of specialization, successfully defend a dissertation proposal, and defend and complete a PhD dissertation.

The PhD program has three separate tracks:

1. ***For students who hold a master's degree from an accredited U.S. college or university or a similarly recognized international university.*** 51 credits
2. ***For students who at the time of admission hold a master's degree in Sociology from Utah State University.*** 48 credits
3. ***For students who hold a bachelor's degree but no master's at the time of admission.*** 30 credits of MS coursework + 39 credits of PhD coursework.

Requirements for Students Entering With a Master's Degree

Type
Completion Requirement

Requirements

PhD students who have already earned a Master's degree in sociology or a closely related field are required to earn 51 credits to complete their doctoral degree (48 credits if the student received their MS in Sociology from USU). Specific minimum requirements for a PhD in sociology include the following:

Theory (6 credits)

Fulfill ALL of the following requirements:

Required

Complete ALL of the following Courses:

- SOC6760 - Theory and Research in Social Inequality - 3cr.

AND

Required

Complete at least 1 of the following courses:

- SOC6270 - Global Migration - 3cr.
- SOC6310 - Sociology of Work and Occupations - 3cr.
- SOC6420 - Gender, Sexuality, and Social Inequality - 3cr.
- SOC6460 - Sociology of Health, Illness, and Disability - 3cr.
- SOC6480 - Seminar in Race and Ethnicity - 3cr.
- SOC6620 - Environment, Technology, and Social Change - 3cr.
- SOC7720 - Applied Community Theory and Development - 3cr.

Research Methods (6 credits)

Complete ALL of the following Courses:

- SOC7110 - Advanced Quantitative Analysis - 3cr.
- SOC7150 - Advanced Qualitative Methods in Sociology - 3cr.

Electives (21 credits)

Completion of at least 21 credits of electives, including at least 12 credits in one of three approved major specialization areas (Demography, Environment & Community, and Social Inequality) and at least 9 credits of additional electives

Classes not listed below (i.e. relevant courses from another program or department) may be applied toward the PhD elective requirement but must be authorized by the Graduate Program Director and/or Major Professor and included in an approved Program of Study. Students may also take up to 6 credits of 6000- or 7000-level credits outside of sociology. Any sociology course at the 6000-level or higher that has not been applied to the theory, methods, or major requirement can be used as an additional elective but also must be authorized by the Graduate Program Director and/or Major Professor and included in an approved Program of Study.

Credits in the following areas are not acceptable in a degree program: foreign languages (unless included in an approved Program of Study), continuing graduate advisement, individual home study, military science, and courses numbered below 6000.

Coursework in the three established specialization areas are as follows:

Fulfill ANY of the following requirements:

Demography

Complete ANY of the following Courses:

- SOC6120 - Population and Health - 3cr.
- SOC6200 - Social Demography - 3cr.
- SOC6230 - Techniques of Demographic Analysis - 3cr.
- SOC6270 - Global Migration - 3cr.
- SOC6280 - Event History and Survival Analysis - 3cr.
- SOC6460 - Sociology of Health, Illness, and Disability - 3cr.
- SOC6800 - Seminar in Sociology - 1cr.
- SOC7640 - Population and Environment - 3cr.

OR

Environment and Community

Complete ANY of the following Courses:

- SOC6620 - Environment, Technology, and Social Change - 3cr.
- SOC6630 - Social and Community Dimensions of Natural Resources - 3cr.
- SOC6640 - Multispecies Justice and Indigenous Environmentalisms - 3cr.
- SOC6800 - Seminar in Sociology - 1cr.
- SOC7720 - Applied Community Theory and Development - 3cr.

OR

Social Inequality

Complete ANY of the following Courses:

- SOC6270 - Global Migration - 3cr.
- SOC6310 - Sociology of Work and Occupations - 3cr.
- SOC6420 - Gender, Sexuality, and Social Inequality - 3cr.
- SOC6460 - Sociology of Health, Illness, and Disability - 3cr.
- SOC6470 - Inequalities in the Criminal Justice System - 3cr.
- SOC6480 - Seminar in Race and Ethnicity - 3cr.
- SOC6760 - Theory and Research in Social Inequality - 3cr.
- SOC6800 - Seminar in Sociology - 1cr.
- SOC7350 - People, Power, and the Political - 3cr.

Dissertation Research (12-21 credits)

Completion of 12-21 total credits of dissertation research.

Complete ALL of the following Courses:

- SOC7970 - Dissertation Research - 1cr.

Requirements for Students Entering with a Bachelor's Degree

Type

Completion Requirement

Requirements:

Exceptionally well-qualified applicants who have completed an undergraduate degree in Sociology or a closely related social science discipline and who demonstrate outstanding potential for success in the pursuit of doctoral-level training may be considered for concurrent enrollment in the MS and PhD programs. Bachelor's track students will complete all the requirements of the Sociology MS program (30 credits) and must submit a concurrent enrollment form. Requirements for the MS program are available in the catalog: https://catalog.usu.edu/programs/SOCI-SOCI_MS-MAJOR In addition to the 30 credits required for the MS, students will complete 39 credits in the following areas:

Concurrent Enrollment Program

Students entering the Sociology PhD program with a Bachelor's Degree must concurrently enroll in the Sociology MS program and complete all MS program requirements.

Enroll in the following Programs:

- SOCI_MS - Sociology - MS

Completion of Master's Degree in Sociology (30 credits)

No later than the 5th semester of their program, bachelor's-level students must have successfully completed all MS coursework requirements and write and defend a master's thesis proposal and thesis before their supervisory committee. Students will only be allowed to continue in the PhD program upon successful completion of a master's thesis and receipt of master's degree.

Complete ALL of the following Programs:

- SOCI_MS - Sociology - MS

Theory (6 credits)

Complete ALL of the following Courses:

- SOC6010 - Development of Sociological Theory - 3cr.
- SOC6760 - Theory and Research in Social Inequality - 3cr.

Research Methods (6 credits)

Complete ALL of the following Courses:

- SOC7110 - Advanced Quantitative Analysis - 3cr.
- SOC7150 - Advanced Qualitative Methods in Sociology - 3cr.

Electives (12 credits)

Completion of at least 12 credits of electives in one of the three major specialization areas (Demography, Environment & Community, and Social Inequality).

Coursework applied toward Theory and/or Methods requirements may not also be applied to Elective Coursework Requirements.

Classes not listed below may be applied toward the PhD elective requirement but must be authorized by the Graduate Program Director and included in an approved Program of Study.

Coursework in the three established specialization areas are as follows:

Fulfill ANY of the following requirements:

Demography

Complete ANY of the following Courses:

- SOC6200 - Social Demography - 3cr.
- SOC6230 - Techniques of Demographic Analysis - 3cr.
- SOC6270 - Global Migration - 3cr.
- SOC6280 - Event History and Survival Analysis - 3cr.
- SOC6460 - Sociology of Health, Illness, and Disability - 3cr.
- SOC6480 - Seminar in Race and Ethnicity - 3cr.
- SOC7640 - Population and Environment - 3cr.

OR

Environment and Community

Complete ANY of the following Courses:

- SOC6620 - Environment, Technology, and Social Change - 3cr.
- SOC6630 - Social and Community Dimensions of Natural Resources - 3cr.
- SOC6640 - Multispecies Justice and Indigenous Environmentalisms - 3cr.
- SOC6800 - Seminar in Sociology - 1cr.
- SOC7720 - Applied Community Theory and Development - 3cr.

OR

Social Inequality

Complete ANY of the following Courses:

- SOC6270 - Global Migration - 3cr.
- SOC6310 - Sociology of Work and Occupations - 3cr.
- SOC6420 - Gender, Sexuality, and Social Inequality - 3cr.
- SOC6460 - Sociology of Health, Illness, and Disability - 3cr.
- SOC6470 - Inequalities in the Criminal Justice System - 3cr.
- SOC6480 - Seminar in Race and Ethnicity - 3cr.
- SOC6760 - Theory and Research in Social Inequality - 3cr.
- SOC6800 - Seminar in Sociology - 1cr.
- SOC7350 - People, Power, and the Political - 3cr.

Dissertation Research (15 credits)

Completion of 15 total credits of dissertation research.

Complete ALL of the following Courses:

- SOC7970 - Dissertation Research - 1cr.

Program Learning Outcomes

Program Learning Outcomes

https://artsci.usu.edu/assessments/

Social Media - Institutional Certificate of Proficiency

Program Overview

College	Department	Program Level
College of Arts & Sciences	Communication & Media	Undergraduate

About this Degree

The Social Media Institutional Certificate of Proficiency program will enhance job prospects for students interested in online political communication, crisis communication, sales and marketing, and health communication.

This program will teach them how to create engaging content and analyze how the content is performing.

Program Requirements

Total Credits Required In Program Coursework	Total Credits Required To Earn This Credential
12	12

Simple Requisites

Program Requirements

- 12 credits
- Students must be advised by the JCOM adviser before registering for the certificate program and before registering for courses.
- *A formal admission process to the certificate program will be adopted by faculty vote.*

Section 1

Type

Completion Requirement

Core Courses (12 credits)

Complete ALL of the following Courses:

- JCOM2400 - Introduction to Social Media - 3cr.
- JCOM4040 - Social Media Content Development - 3cr.
- JCOM5400 - Social Media Strategy, Analytics & Artificial Intelligence - 3cr.
- JCOM5040 - Social-Media, Philanthropy and Advocacy - 3cr. **OR** JCOM6060 - Social Media & Public Health Campaigns - 3cr.

NOTES:

1. JCOM2400 INTRODUCTION TO SOCIAL MEDIA must be taken and successfully passed with a minimum grade of "C" before taking the other courses for the certificate.
2. JCOM4040 SOCIAL MEDIA CONTENT DEVELOP, JCOM5400 SOCIAL MEDIA ANALYTICS, and either JCOM5040 SOC MEDIA, PHILNTHRPY & ADVCY or JCOM6060 SOC MED & PUBL HEALTH CAMPAIGN must be taken during the same or subsequent semesters.

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Undergraduate Academic or Technical Certificates)

Program Learning Outcomes

Program Learning Outcomes

https://chass.usu.edu/journalism/assessments

Sociology Teaching - Minor

Program Overview

College
College of Arts & Sciences

Department
School of Social Sciences

Program Level
Undergraduate

Program Requirements

Total Credits Required In Program Coursework
53 (18 - minor coursework + 35 - STEP)

Total Credits Required To Earn This Credential
18

Simple Requisites

Program Requirements

Sociology teaching minors must maintain a minimum GPA of 2.75 in sociology courses. They must also earn a grade of C or better in SOC1010 INTRO SOCIOLOGY (BSS) and a grade of C or better in all courses to be counted toward the teaching minor. At least 50 percent of coursework for the minor must be completed at USU. A teaching minor requires completion of a teaching license in the Emma Eccles Jones College of Education and Human Services. Sociology courses over 10 years old, do not count toward the major credit requirement. Pass/Fail classes cannot count toward the SOC classes for this Minor.

Section 1

Type
Completion Requirement

Required Courses (18 credits)

Complete ALL of the following Courses:

- SOC1010 - Introductory Sociology (BSS) - 3cr.
- SOC2370 - Sociology of Gender (BSS) - 3cr.
- SOC2630 - Sociology of Race and Ethnicity (BSS) - 3cr.
- SOC3010 - Social Inequality (DSS) - 3cr.
- SOC3110 - Methods of Social Research (CI) - 3cr.
- SOC4010 - Sociological Theory: Insights from Classical and Contemporary Perspectives (DSS) - 3cr.

Section 2

Type
Completion Requirement

STEP Program (35 credits)

Finally, students need to fulfill the 35-credit requirement for the Secondary Teacher Education Program (STEP) in the Secondary Education Program of the School of Teacher Education and Leadership.

Methods courses and the clinical experiences must be completed before student teaching courses.

• Only ITLS 2500 may be taken before admission to STEP.

Complete ALL of the following Courses:

- ITLS2500 - Technology Enabled Instruction - 3cr.
- SPED4000 - Education of Students with Disabilities - 3cr.
- SCED3210 - Educational and Multicultural Foundations (DSS/CI) - 3cr.
- SCED3300 - Clinical Experience I - 1cr.
- SCED3500 - Teaching Social Studies - 3cr.
- SCED4300 - Clinical Experience II - 1cr.

- SCED5100 - Motivation and Classroom Management - 3cr.
- SCED5200 - Language, Literacy, and Learning in the Content Areas (CI) - 3cr.
- SCED5210 - Learning Theory, Curriculum, and Assessment - 3cr.
- SCED5500 - Student Teaching Seminar - 2cr.
- SCED5630 - Student Teaching in Secondary Schools - 10cr.

Additional Comments:

Licensure Notification

This program typically leads to licensure and was designed to meet licensing qualifications in the state of Utah. If students wish to work in another state within the United States, they should review the qualifications for that state and the Education Licensure Compliance Table provided by School of Teacher Education and Leadership.

For more information, please contact the School of Teacher Education and Leadership at https://cehs.usu.edu/teal/

Program Learning Outcomes

Program Learning Outcomes

https://chass.usu.edu/sociology/assessments

Software Development - Technical Certificate

Program Overview

College
College of Agriculture & Natural Resources

Department
Technology, Design & Technical Ed

Program Level
Undergraduate

About this Degree

Federal Gainful Employment Information

The Software Development Technical Certificate is designed to equip individuals with the necessary skills to thrive in today's changing technological ecosystem. The Software Development certificate instructs students on programming, design, and application development. These skills are all in high demand across the nation.

Program Requirements

Total Credits Required In Program Coursework
29

Total Credits Required To Earn This Credential
29

Simple Requisites

Program Requirements

Software Development Course Requirements

Type
Completion Requirement

Technical Education Required Courses

Complete ALL of the following Courses:

- TEBP1140 - Spreadsheets - 2cr.
- TEBP1500 - Business English - 1cr.
- TEBP1550 - Business Communications - 3cr.
- TEIT1041 - Introduction to Programming - 3cr.
- TEIT1100 - Introduction to Networking - 1cr.
- TEIT1300 - Linux Foundations - 2cr.
- TEIT1310 - Website Design - 3cr.
- TEIT1400 - Introduction to Cloud - 2cr.
- TEIT1500 - Introduction to Scripting - 1cr.
- TEIT1550 - Practical Python - 3cr.
- TEIT2100 - Computer Networks - 4cr.
- TEIT2200 - Security + - 4cr.

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Undergraduate Academic or Technical Certificates)

Program Learning Outcomes

Program Learning Outcomes

https://caas.usu.edu/tdte/assessment/

Social Work - Minor

Program Overview

College
College of Arts & Sciences

Department
Social Work

Program Level
Undergraduate

Program Requirements

Total Credits Required To Earn This Credential
18

Simple Requisites

Program Requirements

The Social Work minor consists of 18 credit hours. Students must maintain a minimum GPA of 2.75 in social work courses and none of the credits counted toward the minor may be taken pass/fail. At least 50 percent of the coursework for the minor must be completed at Utah State University.

Section 1

Type
Completion Requirement

Required Courses (15 credits)

Complete ALL of the following Courses:

- SW1010 - Introduction to Social Welfare (BSS) - 3cr.
- SW2100 - Human Behavior in the Social Environment - 3cr. **OR** SW5901 - Human Behavior in the Social Environment - 3cr.
- SW2400 - Social Work with Diverse Populations - 3cr.
- SW5902 - Social Work Practice Methods - 3cr.
- SW5903 - Social Welfare Policy - 3cr.

Section 2

Type
Completion Requirement

Social Electives (3 credits)

Students may choose any Social Work elective:

Complete ANY of the following Courses:

- SW3350 - Child Welfare - 3cr.
- SW3360 - Adolescents: Theories, Problems, and Issues - 3cr.
- SW3450 - School Social Work - 3cr.
- SW3540 - Forensic Child Welfare - 3cr.
- SW3580 - Crisis Intervention Response - 3cr.
- SW3650 - Mental Health - 3cr.
- SW3850 - Spirituality and Social Work - 3cr.
- SW4900 - Topical Issue Seminar - 3cr.
- SW4925 - Resilience and Human Flourishing - 3cr.
- SW5525 - Aging in the 21st Century - 3cr.
- SW5530 - Social Work and Community Health - 3cr.
- SW5540 - Nonprofit Management for Social Workers - 3cr.
- SW5580 - Grief and Loss in Social Work Practice - 3cr.
- SW5920 - Trauma and Resilience - 3cr.

Program Learning Outcomes

Program Learning Outcomes
https://chass.usu.edu/social-work/resources/assessments

Social Work - BA, BS

Program Overview

College
College of Arts & Sciences

Department
Social Work

Program Level
Undergraduate

About this Degree

Social work is a professional and academic discipline involving the pursuit of social welfare, social change, and social justice.

Students receive a BS by completing all required courses in the major. To receive a BA, students must also gain proficiency in one or more foreign languages.

For more information about Social Work, see the Social Work Department website.

- USU's Social Work programs are accredited by the Council on Social Work Education (CSWE) and consequently meet licensure requirements in all 50 states. States differ in their licensing processes and students are encouraged to become familiar with these processes when pursuing licensure in a particular state. The Utah Division of Professional Licensing (DOPL) is the governing professional licensure body in Utah.
- Admitted and current students must meet with an academic advisor.
- Log on to Degree Works to check student-specific program progress.
- The highest math requirement for this degree is SOC3120 SOCIAL STATISTICS I (QI).

Admission Requirements for this Program

- Information regarding admission application can be found on the department website, and required pre-program courses listed in the catalog
- New freshmen: Admitted to USU in Good Standing
- Transfer students from other institutions or other programs at USU: 2.75 GPA
- **Additional Requirements for Transfer Students:** Unofficial transcript(s) from your previous institution(s); contact information for an academic reference
- **Minimum GPA for Admission:**
  - 2.75 major
  - 2.75 USU

For non-native English-speaking students only, the following options are available:

- Successful completion of the Intensive English Language Institute (IELI) program for international students OR
- TOEFL, IELTS, other USU approved exam, or IELI placement scores high enough to meet the university admission criteria

Social Work Major

Career Additional Matriculation Requirements: Students must apply for the Social Work major once all pre-program courses are completed or are in progress. Application requirements and admission cycle dates can be found on the social work website.

Minimum GPA for Graduation:

2.75 major
2.75 USU

Minimum Grade Accepted: B- or better in all SW courses (in SW1010 INTRO SOCIAL WELFARE (BSS), SW2100 BEHAVIOR IN SOC ENVIRON, SW2400 SW W/DIVERSE POPULATIONS, SW3000, SW3050 PRACTICE I, SW4100 SOCIAL WORK RESEARCH (CI), SW4150 PRACTICE II, SW4160 PRACTICE III, SW4870 BEGINNING FIELD PRACT, SW5350 SOCIAL POLICY/SOCIAL JUST (CI), SW5400 SW ETHICS, SW5870 ADV FIELD PRACTICUM). C or better grade in all other major specific courses including electives. C- or better grade for QL course prerequisite and for SOC3120.

Students may declare Social Work as their major at any time, but are considered pre-major students until they are accepted into the Social Work program. All Social Work courses are open to any student with the exception of practice courses (SW3000, SW3050 PRACTICE I, SW4100 SOCIAL WORK RESEARCH (CI), SW4150 PRACTICE II, SW4160 PRACTICE III, SW5350 SOCIAL POLICY/ SOCIAL JUST (CI), SW5400 SW ETHICS) and the field practicum courses (SW4870 BEGINNING FIELD PRACT and SW5870 ADV FIELD PRACTICUM), all of which require admission to the major. All Social Work electives are available to students prior to acceptance into the major. Once admitted to the program, Social Work students must complete courses in the prescribed sequence indicated in their acceptance letter and identified by an academic advisor. This ensures that students build the necessary professional foundation for each class. Maintenance of a high grade point average and demonstration of professional behavior is important as students progress through the major.

Social Work - BA, BS

Type
Completion Requirement

Program Requirements

Fulfill ALL of the following requirements:

Program Requirements (27-29 credits)

Courses must be completed prior to admission to the program.

Complete ALL of the following Courses:

- SW1010 - Introduction to Social Welfare (BSS) - 3cr.
- SW2100 - Human Behavior in the Social Environment - 3cr.
- SW2400 - Social Work with Diverse Populations - 3cr.
- BIOL1010 - Biology and the Citizen (BLS) - 3cr.
  OR ANTH1020 - Biological Anthropology (BLS) - 3cr.
- ENGL1010 - Writing as Inquiry (CL1) - 3cr.
- ENGL2010 - Research and Argument Across Perspectives (CL2) - 3cr.

AND

General Education Courses

Program Requirements

Total Credits Required In Program Coursework
70-72

Total Credits Required To Earn This Credential
120

Simple Requisites

Program Requirements

Bachelor of Science Degree

Students pursuing a Bachelor of Science (BS) degree must complete all the requirements listed in the program requirements below.

Complete ALL of the following Course Sets:

- Breadth Social Sciences (BSS) Course
- Quantitative Literacy (QL) Course

NOTE:

1. Breadth Social Sciences (BSS) - take 6 credits
2. Quantitative Literacy (QL) requirement - STAT1040 INTRO TO STATISTICS (QL) or STAT1045 INTRO STAT WITH ALGEBRA (QL) is preferred.

Students should apply for the major according to the preferred application timeline listed on the website once they have completed, or are currently enrolled, in all required pre-program courses. Additionally, students will complete the Advanced Placement Test (APT) during finals week of the semester prior to beginning the program after successful completion of pre-program courses and admission to the program.

Professional Curriculum courses (34 credits)

Complete ALL of the following Courses:

- SOC3120 - Social Statistics I (QI) - 3cr.
- SW3000 - BSW Orientation - 1cr.
- SW3050 - Practice I - 3cr.
- SW4100 - Social Work Research (CI) - 3cr.
- SW4150 - Practice II - 3cr.
- SW4160 - Practice III - 3cr.
- SW4870 - Beginning Field Practicum - 6cr.
- SW5350 - Social Policy and Social Justice (CI) - 3cr.
- SW5400 - Social Work Ethics - 3cr.
- SW5870 - Advanced Field Practicum - 6cr.

Notes: Students will complete a practicum after successful completion of all practice courses. The practicum placement process is initiated and coordinated by the program and includes an orientation and opportunities for student input. Students DO NOT establish their own practicum placement. Additionally, students will complete the General Practice Test (GPT) during finals week of the semester prior to beginning their practicum.

Elective Enrichment Courses (9 credits)

A total of nine elective credits must be completed. At least two of these electives must be in Social Work, and one upper-division (3000-level or higher) elective may be taken outside of the Social Work department (ANTH, CMST, CJ, HDFS, POLS, PSY, SOC).

Earn at least 9 credits from the following:

- SW3350 - Child Welfare - 3cr.
- SW3360 - Adolescents: Theories, Problems, and Issues - 3cr.
- SW3450 - School Social Work - 3cr.
- SW3540 - Forensic Child Welfare - 3cr.
- SW3580 - Crisis Intervention Response - 3cr.
- SW3650 - Mental Health - 3cr.
- SW3850 - Spirituality and Social Work - 3cr.
- SW4900 - Topical Issue Seminar - 3cr.
- SW4925 - Resilience and Human Flourishing - 3cr.
- SW5040 - Community Justice Advocacy: Debt Navigation - 3cr.
- SW5525 - Aging in the 21st Century - 3cr.
- SW5530 - Social Work and Community Health - 3cr.
- SW5540 - Nonprofit Management for Social Workers - 3cr.
- SW5575 - Substance Use Disorders: Approaches to Treatment and Policy - 3cr.
- SW5580 - Grief and Loss in Social Work Practice - 3cr.
- SW5920 - Trauma and Resilience - 3cr.

Optional Elective (does not fulfill elective requirement)

Complete ANY of the following Courses:

- SW4950 - Directed Readings - 1cr.

NOTE:

1. SW4950 DIRECTED READINGS - Requires a plan of study, approved by a social work faculty member, at least one semester prior to registration. This course is *not* considered to be a required elective.

Open Electives

Complete the following as needed:
Total elective credit is determined by General Education courses taken, degree type selected, additional credits earned, and any additional math or other prerequisite courses needed. Please consult your academic advisor for details.

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Bachelor's Degree)

Suggested Degree Maps

Degree Map Name
Suggested Degree Map - Social Work BA, BS
Total Degree Map Credits
108 - 112
Degree Map Effective Catalog Year
2027 -

Degree Map Narrative

- Following is a sample four-year plan. Please note that student-specific plans may differ. This plan follows a fall start schedule with application cycle January 1 to March 1. **See academic advisor if admitted for a spring semester start**.
- Meet with an academic advisor to create an individualized plan that best fits your academic needs.
- The student is ultimately responsible for knowing and completing all degree requirements.
- Make sure you meet the registration requirements for each class by clicking the course link and checking any prerequisites or corequisites.
- Check your Degree Works for requirements and completion.

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	15	0

Requirement Select

- ANTH1020 - Biological Anthropology (BLS)
  OR
- BIOL1010 - Biology and the Citizen (BLS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- SW1010 - Introduction to Social Welfare (BSS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Breadth Creative Arts (BCA) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Breadth Physical Sciences (BPS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	16 - 18	0

Requirement Select

- ENGL1010 - Writing as Inquiry (CL1)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- STAT1040 - Introduction to Statistics (QL)
  OR
- STAT1045 - Introduction to Statistics with Elements with Algebra (QL)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 5
Progress Credits	-
Contact Hours	3 - 5
Clinical	-
Criticality	No

Requirement Select

- Breadth Humanities (BHU) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Breadth Social Sciences (BSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	15	0

Requirement Select
- ENGL2010 - Research and Argument Across Perspectives (CL2)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- SW2100 - Human Behavior in the Social Environment

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Breadth Social Sciences (BSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Breadth American Institutions (BAI) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	10 - 12	0

Requirement Select
- SW2400 - Social Work with Diverse Populations

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Depth Humanities and Creative Arts (DHA) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1 - 3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Social Work 3XXX (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Fall	16	0

Requirement Select
- SW3000 - BSW Orientation

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- SW3050 - Practice I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- SW4100 - Social Work Research (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Social Work 3XXX (3 cr) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- SOC3120 - Social Statistics I (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Spring	12	0

Requirement Select
- SW4150 - Practice II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- SW4160 - Practice III

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Social Work 3XXX (3 cr) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Depth Life and Physical Sciences (DSC) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Fall	15	0

Requirement Select
- SW4870 - Beginning Field Practicum

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	6
Clinical	-
Criticality	No

Requirement Select
- SW5350 - Social Policy and Social Justice (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Elective course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Spring	9	0

Requirement Select
- SW5870 - Advanced Field Practicum

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	6
Clinical	-
Criticality	No

Requirement Select
- SW5400 - Social Work Ethics

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Program Learning Outcomes

Program Learning Outcomes

https://artsci.usu.edu/social-work/resources/assessments

Social Work - MSW

Program Overview

College
College of Arts & Sciences

Department
Social Work

Program Level
Graduate

About this Degree

Program Contacts:
Statewide programs: Chelsey Spears chelsey.spears@usu.edu
Logan programs: Morgan Walton morgan.walton@usu.edu

The MSW curriculum consists of course and field work designed to prepare students for advanced generalist practice with systems of all sizes with particular emphasis on advanced direct practice with individuals, families, groups, and communities. The curriculum is grounded in the liberal arts and integrates content on professional values and ethics, diversity, populations-at-risk and social and economic justice. Also included are the professional foundation areas of human behavior and the social environment, social welfare policy and services, social work practice, social work research, and field education.

Social work graduates find meaningful careers working with individuals, families, groups, organizations, and communities in a wide range of settings like schools, hospitals, prisons, and community mental health centers. Generalist social workers view clients and client systems from a strengths perspective and work to empower them to realize their full potential. Using an anti-oppressive, professional problem-solving process, social workers engage, assess, broker services, advocate, counsel, educate, and organize with and on behalf of clients and client systems.

Students with an undergraduate degree in Social Work are eligible for the Advanced Standing program while students with an undergraduate degree from any other field are eligible for the Traditional program. Each program is offered on a full-time and part-time basis.

USU's Social Work programs are accredited by the Council on Social Work Education (CSWE) and consequently meet licensure requirements in all 50 states. States differ in their licensing processes and students are encouraged to become familiar with these processes when pursuing licensure in a particular state.

Admission Requirements

Advanced Standing Program:

- A bachelor's degree in social work that will be completed before matriculation in the MSW program
- A 3.0 or higher GPA for most recent 60 semester or 90 quarter credits, and SW GPA of 3.3 or higher
- Earned "B" or higher in each undergraduate SW course attempted
- Additional admission requirements can be found on the USU School of Graduate Studies website (gradschool.usu.edu/admissions/policies) and the program website (https://artsci.usu.edu/social-work/students/msw-program-options/).

Traditional Program:

- A bachelor's degree in any field that will be completed before matriculation in the degree program
- A 3.0 or higher GPA for most recent 60 semester or 90 quarter credits
    - Completion of a quantitative course (research or statistics) and intro to social/behavioral (science) course.
- Additional admission requirements can be found on the USU School of Graduate Studies website (gradschool.usu.edu/admissions/policies) and the program website (https://artsci.usu.edu/social-work/students/msw-program-options/).

Program Requirements

Total Credits Required In Program Coursework
36-60

Total Credits Required To Earn This Credential
36-60

Simple Requisites

Program Requirements

Students are held responsible for meeting requirements as outlined below. It is the student's responsibility to be aware of all requirements and initiate the resolution of apparent inconsistencies.

Degree Verification

A bachelor's degree from an accredited U.S. college or university or a similarly recognized international university is required for admission to and completion of a graduate program.

GPA Requirement

- MSW students are required to maintain a cumulative 3.0 GPA for degree-program courses.
- No credit for "C-" grades or lower will be accepted.

Matriculation Start Semester

A master's degree must be completed within six years of entering the degree program. Additional time may be requested by the student's committee and submitted to the Vice Provost of Graduate Studies for review.

Coursework Validity

- Except in unusual circumstances, only 6 semester credits earned may be transferred into the MSW program at USU. The credits must not have been used for another degree. Credits with grades below "B" cannot be transferred; "P" credit can be transferred from another university, if approved by the Social Work Program and the Graduate Review Committee.
- Transfer credits cannot replace required residency credits. Transfer credits are subject to approval of the MSW Supervisory Committee, MSW Program Coordinator and the Dean of the School of Graduate Studies.
- Transfer credits more than eight years old may not be accepted. Transfer credits will be shown on official USU transcripts upon completion of the degree.
- Students who wish to transfer credits must submit their request in writing to the MSW Program Coordinator. If the request is approved, the request is then forwarded to the Dean of the School of Graduate Studies for final approval and processing.
- The Social Work program does not grant academic credit for life experience or previous work experience in lieu of the field practicum or any courses.
- Coursework over eight years old at the time of degree completion may not be used for a graduate degree unless it is revalidated.
- The program of study for a master's degree cannot include more than 12 semester credits of courses below the 6000 level.

Master's Forms

Approval of the Program of Study is required by the School of Graduate Studies.

Required Practicum Hours

The traditional MSW program includes 974 hours of field education. During the foundation component of the program students complete 426 hours of fieldwork plus 24 hours of professional seminar. The number of required field

hours increases to 500 during the advanced portion of the program plus 24 hours of professional seminar. Advanced Standing students will complete 24 hours of professional seminar and 500 hours of fieldwork required in the advanced portion of the MSW program.

Professional and Ethical Behavior

During academic and field training, students are required to abide by the National Association of Social Workers (NASW) Code of Ethics and demonstrate practice behaviors associated with applicable CSWE EPAS competencies.

Additional requirements regarding expected behavior can be found in the MSW Program and Field Education Manual. Failure to adhere to the behavior expectations outlined as above may result in dismissal from the Social Work program.

Traditional Master of Social Work Degree Requirements (60 credits)

Type
Completion Requirement

Course Requirements

The courses for the traditional MSW degree (2- and 3- year programs) include the following:

Complete ALL of the following Courses:

- SW6000 - Principles and Philosophy of Social Work - 3cr.
- SW6050 - HBSE: Individuals and Families in Their Environment - 3cr.
- SW6100 - Generalist Practice I: SW Practice with Individuals, Families, and Groups - 3cr.
- SW6150 - Generalist Practice II: SW Practice with Groups, Organizations, and Communities - 3cr.
- SW6200 - Social Work Research Methods - 3cr.
- SW6300 - Social Policy Analysis - 3cr.
- SW6400 - Field Practicum I - 4cr.
- SW6450 - Field Practicum II - 5cr.
- SW6600 - Policy and Administration - 3cr.
- SW6650 - Advanced Research Methods - 3cr.
- SW6700 - Advanced Generalist Practice I: Individuals and Families - 3cr.
- SW6725 - Diagnosis and Intervention in Social Work Practice - 3cr.
- SW6750 - Advanced Generalist Practice II: Groups - 3cr.
- SW6900 - Field Practicum III - 6cr.
- SW6950 - Field Practicum IV - 6cr.

- SW Elective-6 credits required (see approved elective courses below).

NOTE:

1. For SW6400 FIELD PRACTICUM I and SW6450 FIELD PRACTICUM II - In rare circumstances, and with the pre-approval of the Program Director, students may take SW6475 FOUNDATION BLOCK FIELD PRACT (9 credits) in in place of SW6400 FIELD PRACTICUM I and SW6450 FIELD PRACTICUM II.
2. For SW6900 FIELD PRACTICUM III and SW6950 FIELD PRACTICUM IV - In rare circumstances, and with the pre-approval of the Program Director, students may take SW6975 ADV BLOCK FIELD PRACTICUM (12 credits) in place of SW6900 FIELD PRACTICUM III and SW6950 FIELD PRACTICUM IV.

Advanced Standing Master of Social Work Program (36 credits)

Type
Completion Requirement

Course Requirements

The courses for the advanced standing MSW degree **(1-year and 5-semester programs)** include the following:

Complete ALL of the following Courses:

- SW6590 - Advanced Standing Seminar I: Social Work Generalist Practice-Theories and Methods - 3cr.
- SW6595 - Advanced Standing Seminar II: Social Work Generalist Practice-Research Policy - 3cr.
- SW6600 - Policy and Administration - 3cr.
- SW6650 - Advanced Research Methods - 3cr.
- SW6700 - Advanced Generalist Practice I: Individuals and Families - 3cr.
- SW6725 - Diagnosis and Intervention in Social Work Practice - 3cr.
- SW6750 - Advanced Generalist Practice II: Groups - 3cr.
- SW6900 - Field Practicum III - 6cr.
- SW6950 - Field Practicum IV - 6cr.

- SW Elective 3 credits required (see approved elective courses below).

NOTE:

For SW6900 FIELD PRACTICUM III and SW6950 FIELD PRACTICUM IV - In rare circumstances, and with the pre-approval of the Program Director, students may take SW6975 ADV BLOCK FIELD PRACTICUM (12 credits) in place of SW6900 FIELD PRACTICUM III and SW6950 FIELD PRACTICUM IV.

Approved Elective Courses

Electives are offered based on faculty expertise, work load, and needs of the program. Graduate level electives from other departments may or may not be approved as a qualifying elective (referred to as an "alternative elective*"). **The following electives may or may not be offered during a student's enrollment in an MSW program.** Choose from the courses below and ensure you meet the elective credit requirement of your program type.

Complete ANY of the following Courses:

- SW6010 - Spanish for Social Services - 3cr.
- SW6040 - Community Justice Advocacy: Debt Navigation - 3cr.
- SW6350 - Emotionally Focused Therapy: Advanced Practice - 3cr.
- SW6370 - Acceptance and Commitment Therapy: Theory and Practice - 3cr.
- SW6480 - Advanced School Social Work Practice - 3cr.
- SW6525 - Aging in the 21st Century - 3cr.
- SW6530 - Social Work and Community Health - 3cr.
- SW6540 - Nonprofit Management for Social Workers - 3cr.
- SW6550 - Advanced Practice with Victims and Perpetrators of Family Violence - 3cr.
- SW6575 - Substance Use Disorders: Approaches to Treatment and Policy - 3cr.
- SW6580 - Grief and Loss in Social Work Practice - 3cr.
- SW6630 - Social Work in the Healthcare Setting - 3cr.
- SW6850 - Psychopharmacology in Advanced Social Work Practice - 3cr.
- SW6905 - I-System Model and Mind-Body Bridging - Foundation - 3cr.
- SW6907 - I-System Model and Mind-Body Bridging - Advanced - 3cr.
- SW6920 - Trauma and Resilience - 3cr.

- SW6925 - Advanced Optional Practicum - 1cr.
- SW6990 - Independent Study - 1cr.
- SW6995 - Special Topics on Social Work Practice - 1cr.

To pursue an alternative elective, students must make a request in writing to the MSW Program Coordinator and Graduate Program Coordinator (GPC) assigned to their campus. The request should include the course number and description. Together, the program coordinators will make a determination to accept or deny the request. Classes taken outside of the social work department are subject to standard tuition rates rather than our per-credit hour rate and can result in higher-than-expected costs.

Program Learning Outcomes

Program Learning Outcomes

https://artsci.usu.edu/assessments/

Spanish - Minor

Program Overview

College
College of Arts & Sciences

Department
World Languages and Cultures

Program Level
Undergraduate

About this Degree

The Spanish minor develops language skills, cultural competence skills, analytical skills, critical thinking skills, and communication skills useful in a wide variety of careers. Course offerings range from language courses, to culture courses, to literature and film courses, to business Spanish, to healthcare Spanish, and beyond. The Spanish section offers many opportunities for cultural activities, student club activities, tutoring, scholarships, outreach practicum, and study abroad programs in Spain (summer) and Argentina (fall semester).

Admission Requirements for this Program

- **Grade Point Average to Declare Spanish Minor: 2.0**

Program Requirements

Total Credits Required In Program Coursework
18

Total Credits Required To Earn This Credential
18

Simple Requisites

Program Requirements

- **Total Credits:** 18
- **Grade Point Average to Declare Spanish Minor:** 2.0
- **USU Credit Requirement**: At least half (50 percent) of the credits earned for this degree must be completed in upper-division USU courses having prefixes of SPAN or LING. All other credits (including transfer and study abroad credits) must be approved by the program's academic advisor in order to be counted toward the minor. Students who have completed Bridge Program Language courses should contact their advisor as Bridge courses may count for credits toward minor or major requirements of courses taken at USU.
- **Minimum Grade Requirement:** All courses taken for the Spanish minor require a minimum grade of **C-** or better. Courses taken for the Spanish minor *may not* be taken on a pass/fail basis (except courses designated as pass/fail, such as SPAN3010 HISPANIC OUTREACH PRACT, SPAN3520 BUSINESS SPANISH PRACT and SPAN4920 SPANISH LANG TUTORING).

Required Courses

Type
Completion Requirement

Required Courses (15 credits)

Fulfill ALL of the following requirements:

Gateway course (3 credits)

Complete at least 1 of the following courses:

- SPAN3040 - Advanced Spanish Grammar - 3cr.
- SPAN3060 - Advanced Spanish Conversation and Composition (CI) - 3cr.
- SPAN3800 - Spanish III Study Abroad - 1cr.

AND

SPAN 34XX or SPAN 35XX-level course (3 credits)

Complete at least 1 of the following courses:

- SPAN3400 - Introduction to Hispanic Cinema - 3cr.
- SPAN3550 - Spanish Culture and Civilization (DHA) - 3cr.
- SPAN3560 - Introduction to U.S. Latino/a Culture - 3cr.
- SPAN3570 - Hispanic American Culture and Civilization (DHA) - 3cr.
- SPAN4800 - Hispanic Culture and Civilization-Study Abroad - 1cr.

AND

Required course (3 credits)

Complete ALL of the following Courses:

- SPAN3300 - Introduction to Hispanic Literature and Literary Analysis - 3cr.

AND

SPAN 36XX-level course (3 credits)

Complete at least 1 of the following courses:

- SPAN3600 - Survey of Spanish Literature I (DHA) - 3cr.
- SPAN3610 - Survey of Spanish Literature II (DHA/CI) - 3cr.
- SPAN3620 - Survey of Hispanic American Literature I (DHA) - 3cr.
- SPAN3630 - Survey of Hispanic American Literature II (DHA) - 3cr.
- SPAN3640 - Introduction to U.S. Latino/a Literature - 3cr.
- SPAN3650 - Spanish Literature-Study Abroad - 1cr.
- SPAN3660 - Hispanic American Literature - Study Abroad - 1cr.

AND

SPAN 49XX-level course (3 credits)

Complete at least 1 of the following courses:

- SPAN4900 - Topics of Spanish Cultural Production - 3cr.
- SPAN4910 - Topics of Hispanic American Cultural Production - 3cr.
- SPAN4920 - Spanish Language Tutoring - 1cr.
- SPAN4930 - Topics of U.S. Latina/o Literature and Culture - 3cr.

Additional Comments:

NOTE:

1. SPAN3660 HISPANIC AMER LIT-STUDY ABROAD, SPAN3650 SPANISH LIT-STUDY ABROAD, and SPAN4800 HISPANIC STUDY ABROAD - Students desiring to apply study abroad credits should meet with the World Languages & Cultures Advisor.

Elective Courses

Type

Completion Requirement

Elective Course (3 credits)

Earn at least 3 credits from the following:

- LING4100 - The Study of Language - 3cr.
- SPAN3010 - Hispanic Outreach Practicum - 1cr.
- SPAN3040 - Advanced Spanish Grammar - 3cr.
- SPAN3060 - Advanced Spanish Conversation and Composition (CI) - 3cr.
- SPAN3100 - Spanish Healthcare - 3cr.
- SPAN3116 - Spanish Pop Culture: Film, Media and Entertainment - 3cr.
- SPAN3117 - Building Identities (Breaking Down Walls, Building Identities) - 3cr.
- SPAN3118 - Literature and Film: Contemporary Issues - 3cr.
- SPAN3400 - Introduction to Hispanic Cinema - 3cr.
- SPAN3510 - Business Spanish - 3cr.
- SPAN3520 - Business Spanish Practicum - 1cr.
- SPAN3550 - Spanish Culture and Civilization (DHA) - 3cr.
- SPAN3560 - Introduction to U.S. Latino/a Culture - 3cr.
- SPAN3570 - Hispanic American Culture and Civilization (DHA) - 3cr.
- SPAN3600 - Survey of Spanish Literature I (DHA) - 3cr.
- SPAN3610 - Survey of Spanish Literature II (DHA/CI) - 3cr.
- SPAN3620 - Survey of Hispanic American Literature I (DHA) - 3cr.
- SPAN3630 - Survey of Hispanic American Literature II (DHA) - 3cr.
- SPAN3640 - Introduction to U.S. Latino/a Literature - 3cr.
- SPAN3650 - Spanish Literature-Study Abroad - 1cr.
- SPAN3660 - Hispanic American Literature - Study Abroad - 1cr.
- SPAN3800 - Spanish III Study Abroad - 1cr.
- SPAN4200 - Introduction to Hispanic Linguistics - 3cr.
- SPAN4800 - Hispanic Culture and Civilization-Study Abroad - 1cr.
- SPAN4880 - Individual Readings - 1cr.
- SPAN4900 - Topics of Spanish Cultural Production - 3cr.
- SPAN4910 - Topics of Hispanic American Cultural Production - 3cr.
- SPAN4920 - Spanish Language Tutoring - 1cr.
- SPAN4930 - Topics of U.S. Latina/o Literature and Culture - 3cr.
- SPAN5060 - Spanish for Professional and Academic Purposes - 3cr.

NOTE:

1. SPAN4200 INTRO TO HISPANIC LINGUISTICS and SPAN4920 SPANISH LANG TUTORING - These courses or practicum are required for a Spanish Teaching Minor.
2. SPAN3650 SPANISH LIT-STUDY ABROAD, SPAN3660 HISPANIC AMER LIT-STUDY ABROAD, SPAN3800 SPANISH III STUDY ABROAD, and SPAN4800 HISPANIC STUDY ABROAD - Students desiring to apply study abroad credits should meet with the World Languages & Cultures Advisor.

Program Learning Outcomes

Program Learning Outcomes

https://chass.usu.edu/languages/assessments

Special Education - Minor

Program Overview

College
College of Education & Human Services

Department
Special Education & Rehab Counseling

Program Level
Undergraduate

About this Degree

This minor is for students who want to work toward the Utah Department of Health and Human Services centennial to serve children with disabilities (0-3) and their families in the Baby Watch Early Intervention Program.

This minor is available to students in any major, providing admission requirements are met. The minor would be especially useful to majors in Speech and Hearing Sciences, Early Childhood Education, Elementary Education, Human Development and Family Studies, Kinesiology, Health Education and Promotion, and Social Work. Students must apply for the Special Education Minor through the Special Education and Rehabilitation Counseling Department.

Admission Requirements for this Program

Admission requirements include a 2.0 GPA and a USBE Educator Background Check.

Program Requirements

Total Credits Required In Program Coursework
24

Total Credits Required To Earn This Credential
24

Simple Requisites

Program Requirements

Students must earn a B- or higher in each required course.

Section 1

Type
Completion Requirement

Prerequisite Human Development

Complete ALL of the following Courses:

- HDFS1500 - Human Development Across the Lifespan (BSS) - 3cr.
  OR PSY1100 - Lifespan Development - 3cr.

Section 2

Type
Completion Requirement

Required Courses (18 credits)

Complete ALL of the following Courses:

- HDFS3500 - Infancy and Childhood - 3cr.
- SPED4000 - Education of Students with Disabilities - 3cr.
- SPED5010 - Applied Behavioral Analysis 1: Principles, Assessment, and Analysis (QI) - 3cr.
- SPED5030 - Assessment in Special Education - 2cr.
- SPED5710 - Young Children with Disabilities: Characteristics and Services - 3cr.
- SPED5810 - Seminar and Field Experiences with Infants and Families - 4cr.

Section 3

Type
Completion Requirement

Elective Credits (3 credits)

Earn at least 3 credits from the following:

- HDFS3100 - Abuse and Neglect in Family Context - 3cr.
- HDFS3550 - Infant Lab - 1cr.
- PSY2300 - Psychological Disorders - 3cr.
- PSY3120 - Abuse, Neglect, and the Psychological Dimensions of Intimate Violence (DSS) - 3cr.
- PSY3400 - Analysis of Behavior: Advanced (DSS) - 4cr.
- SHS3200 - Child Language Development - 3cr.
- SHS3500 - Phonetics and Phonological Development - 3cr.
- SPED5500 - Interdisciplinary Disability Awareness and Community Engaged Learning - 3cr.
- SW4925 - Resilience and Human Flourishing - 3cr.
- SW3350 - Child Welfare - 3cr.
- SW3650 - Mental Health - 3cr.
- ASL1010 - American Sign Language I - 4cr.

Program Learning Outcomes

Program Learning Outcomes

https://www.usu.edu/oda/assessment/

Special Education - AS

Program Overview

College
College of Education & Human Services

Department
Special Education & Rehab Counseling

Program Level
Undergraduate

About this Degree

This degree provides students with a background in special education and accomplishes two purposes. First, as a stand-alone degree, it prepares students to work as teacher's aides, special education paraprofessionals, and direct support professionals providing support to special education and general education teachers through the delivery of specialized curriculum, behavior interventions, and a variety of support activities related to the education and care of students with disabilities. Second, this degree provides a foundation for continued study toward a bachelor's degree in Special Education, Elementary Education or Secondary Education. Students pursuing general education degrees would benefit from instructional and behavioral strategies to meet the needs of students with disabilities in the general education classroom.

Program Requirements

Total Credits Required In Program Coursework
60

Total Credits Required To Earn This Credential
60

Simple Requisites

Program Requirements

Special Education - AS

Type
Completion Requirement

Required Courses

Fulfill ALL of the following requirements:

Required Courses

Complete ALL of the following Courses:

- HDFS1500 - Human Development Across the Lifespan (BSS) - 3cr.
- SPED1010 - Disability and Society (BSS) - 3cr.
- SPED2910 - Early Field Experience in Special Education - 3cr.

Elective Courses

Choose 26-27 credits from the courses below

Earn at least 26 credits from the following:

- ELED1010 - Orientation to Elementary Education - 3cr. **OR** TEAL1010 - Introduction to Education - 3cr.
- ELED2620 - Early Childhood Education Kindergarten Through Grade 3 - 3cr.
- HDFS2520 - Home Visiting and Early Childhood - 3cr.
- HDFS2660 - Parenting and Child Guidance - 3cr.
- MATH2010 - Algebraic Thinking & Number Sense for Elementary Education School Teachers (QI) - 3cr.
- MATH2020 - Euclidean Geometry & Statistics for Elementary Education School Teachers (QI) - 3cr.
- PSY1010 - General Psychology (BSS) - 3cr.
- PSY1400 - Analysis of Behavior: Basic Principles - 3cr.
- PSY1410 - Analysis of Behavior: Basic Principles Lab - 1cr.
- PSY2100 - Developmental Psychology: Adolescence - 3cr.
- REH2010 - Neurodiversity and Society - 3cr.
- REH2060 - Health Promotion for Individuals with Chronic Illness and Disability - 3cr.
- SPED1000 - Principles of Effective Peer Teaching - 2cr.
- TEAL2660 - Educational Psychology for Teachers - 2cr.
- ITLS2500 - Technology Enabled Instruction - 3cr.

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Associate Degrees)

Suggested Degree Maps

Degree Map Name
Suggested Degree Map - Special Education, AS

Total Degree Map Credits
60 - 62

Degree Map Effective Catalog Year
2026 -

Degree Map Narrative

- Following is a sample four-year plan. Please note that student-specific plans may differ.
- Meet with an academic advisor to create a specific plan that best fits your academic needs.
- The student is ultimately responsible for knowing and completing all degree requirements.
- Make sure you meet the registration requirements for each class by clicking the course link and checking any prerequisites or corequisites.
- Consultation with an advisor may result in an altered plan customized for an individual student.
- Check your Degree Works for requirements and completion.

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	15 - 17	0

Requirement Select

- Communications Literacy (CL1) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- SPED1010 - Disability and Society (BSS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- HDFS1500 - Human Development Across the Lifespan (BSS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- GEQL - QUANTITATIVE LITERACY

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 4
Progress Credits	-
Contact Hours	3 - 4
Clinical	-
Criticality	No

Requirement Select

- Elective Credit (suggested PSY 1010) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	15	0

Requirement Select

- Communications Literacy (CL2) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- SPED2910 - Early Field Experience in Special Education

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Breadth Creative Arts (BCA) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Breadth American Institutions (BAI) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Elective (Suggested: ELED 1010 - Orientation to Elementary Education) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	15	0

Requirement Select

- Breadth Life Sciences (BLS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Elective Credit - (Suggested REH2010) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Breadth Humanities (BHU) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Elective Credit - (Suggested MATH2010) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Elective Credit - (Suggested MATH2020) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	15	3

Requirement Select

- Breadth Physical Sciences (BPS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Elective Credit - (Suggested REH2060) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Elective Credit - (Suggested SPED2910) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	3
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Elective Credit (Suggested courses: PSY1400, PSY1410, or TEAL2660) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Program Learning Outcomes

Program Learning Outcomes

https://cehs.usu.edu/about/assessment

Special Education: Birth to 5 Emphasis - BA, BS

Program Overview

College	Department	Program Level
College of Education & Human Services	Special Education & Rehab Counseling	Undergraduate

About this Degree

The program prepares students to work with young children with disabilities. Students are given the opportunity to gain hands-on experience working with local school districts or on-campus programs.

Birth to Age 5 Special Education Emphasis: This emphasis prepares graduates to work with children ages birth to five years who have disabilities. Children ages birth to three years are typically served by early intervention programs in their homes. Children three to five years are taught in public preschool settings within local school districts. Students in this emphasis may choose to combine this emphasis with either the mild/moderate disabilities emphasis or the severe disabilities emphasis. To receive a Bachelor's of Arts (BA) degree, please see Undergraduate Academic Credential Requirements for required language courses.

- For more information about Special Education and Rehabilitation Counseling, see the website.
- Admitted and current students must meet with an academic advisor.
- Log on to Degree Works to check student-specific program progress.
- Students following the recommended schedule should be able to complete degree requirements in four years (eight semesters).
- The highest math requirement for this degree is Quantitative Literacy (QL).

***Dual licensure programs are available on the Logan Main Campus for Special Education Birth to Five Emphasis majors within special education with severe and mild/moderate emphases or with elementary education or early childhood majors in the School of TEAL. See website for more information.*

Admission Requirements for this Program

- New freshmen must be admitted to USU in Good Standing.
- Transfer students from other institutions or other programs at USU must have a 2.0 GPA.
- Grade of C+ or better: Communications Literacy **(CL1)** for General Education Requirements (required for program admission; and can also be met with AP ENGL or an ACT score of 30 or higher).
- Grade of C or better in General Education Requirements of Breadth American Institutions **(BAI)**, Breadth Life Sciences **(BLS)**, Breadth Physical Sciences **(BPS)**, HDFS1500 HUMAN DEV LIFESPAN (BSS) (required for program admission).
- Grade of C- or better for General Education Requirements in Quantitative Literacy **(QL)** (required for program admission).

Program Requirements

Total Credits Required In Program Coursework	Total Credits Required To Earn This Credential
47	120

Simple Requisites

Program Requirements

Minimum Grade Requirements:

- Grade of B- or better: All HDFS, SPED and TEAL courses (except SPED1010 DISABILITY AND SOCIETY (BSS), SPED2910 EARLY FIELD EXPERIENCE IN SPED, SPED5200 STUDENT TEACHING (CI) and SPED5900 INDEPENDENT STUDY).
- Grade of C- or better: All other courses required for the bachelor's degree
- Courses used to fulfill major requirements may *not* be taken pass/fail, except those courses that are only taught on a pass/fail basis.
- 3.0 GPA required in major coursework

Students are required to earn a grade of "B-" or better in all major courses (HDFS, SPED, TEAL prefixes). Students who receive a grade below "B-" must retake the course. Each student will be allowed to repeat a maximum of one course (course is defined as didactic courses, practica and student teaching). Students who receive two grades below "B-" or withdraw from two practica (or one practica two times) will not be permitted to continue in special education. Student teaching may not be repeated without appeal and approval by the appropriate special education program committee.

Special Education: Birth to 5 Emphasis - BA, BS

Type
Completion Requirement

Birth to Age 5 Specialization (47 credits)

Fulfill ALL of the following requirements:

Fall Junior Year: Professional Education (16 credits)

Complete ALL of the following Courses:

- HDFS2600 - Seminar in Early Childhood Education - 2cr.
- HDFS2630 - Early Childhood Education Practicum - 2cr.
- HDFS3500 - Infancy and Childhood - 3cr.
- SPED4000 - Education of Students with Disabilities - 3cr.
- SPED5030 - Assessment in Special Education - 2cr.
- SPED5040 - Foundations of Effective Instructional Practices - 4cr.

AND

Spring Junior Year (16 credits)

Complete ALL of the following Courses:

- SPED5010 - Applied Behavioral Analysis 1: Principles, Assessment, and Analysis (QI) - 3cr.
- SPED5070 - Policies, Procedures, and Collaboration in Special Education - 3cr.
- SPED5310 - Teaching Reading and Language Arts to Students with Disabilities - 1cr.
- SPED5710 - Young Children with Disabilities: Characteristics and Services - 3cr.
- SPED5810 - Seminar and Field Experiences with Infants and Families - 4cr.
- SPED5840 - Practicum: Working with Young Children with Autism - 1cr.

NOTE:

1. SPED5310 TEACH READ/LANG ARTS ST W/DIS - Enroll in 2 credits.

AND

Fall Senior Year (15 credits)

Fulfill ALL of the following requirements:

Required Courses

Complete ALL of the following Courses:

- SPED5050 - Applied Behavioral Analysis 2: Applications - 3cr.
- SPED5530 - Family/Professional Collaboration and Technology for Teaching Exceptional Learners - 3cr.
- SPED5820 - Preschool Practicum with Young Children with Disabilities in Community Environments - 2cr.
- SPED5730 - Intervention Strategies for Young Children with Disabilities - 3cr.

NOTE:

1. SPED5820 PRESCHOOL PRACT W/DISABILITIES - Enroll in 3 credits.

AND

Spring Senior Year: Student Teaching (15 credits)

Fulfill ALL of the following requirements:

Communication Intensive (CI)

Complete ALL of the following Course Sets:

- Communications Intensive (CI) Courses

AND

Required Course

Complete ALL of the following Courses:

- SPED5200 - Student Teaching in Special Education (CI) - 3cr.

NOTE:

1. SPED5200 STUDENT TEACHING (CI) - May fulfill one of the Communications Intensive (CI) requirements.

Teaching Support (15 credits)

Fulfill ANY of the following requirements:

Earn at least 15 credits from the following:

- ELED1010 - Orientation to Elementary Education - 3cr.
- HDFS2400 - Couple and Family Relationships (BSS) - 3cr.
- HDFS2660 - Parenting and Child Guidance - 3cr.
- HEP3000 - Drugs and Human Behavior - 3cr.
- PSY1010 - General Psychology (BSS) - 3cr.
- PSY1400 - Analysis of Behavior: Basic Principles - 3cr.
- PSY1410 - Analysis of Behavior: Basic Principles Lab - 1cr.
- REH2060 - Health Promotion for Individuals with Chronic Illness and Disability - 3cr.
- SPED1010 - Disability and Society (BSS) - 3cr.
- SOC1010 - Introductory Sociology (BSS) - 3cr.
- SPED2910 - Early Field Experience in Special Education - 3cr.
- SW1010 - Introduction to Social Welfare (BSS) - 3cr.
- ASL1010 - American Sign Language I - 4cr.
- SHS3200 - Child Language Development - 3cr.

Open Electives

Complete the following as needed:
Total elective credit is determined by General Education courses taken, degree type selected, additional credits earned, and any additional math or other prerequisite courses needed. Please consult your Academic Advisor for details.

Additional Comments:

Licensure Notification

This program typically leads to licensure and was designed to meet licensing qualifications in the state of Utah. If students wish to work in another state within the United States, they should review the qualifications for that state and the Education Licensure Compliance Table provided by School of Teacher Education and Leadership.

For more information, please contact the School of Teacher Education and Leadership at https://cehs.usu.edu/teal/.

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Bachelor's Degree)

Suggested Degree Maps

Degree Map Name
Suggested Degree Map - Special Education: Birth to 5 Emphasis BA, BS
Total Degree Map Credits
120 - 123
Degree Map Effective Catalog Year
2027 -

Degree Map Narrative

- Following is a sample four-year plan. Please note that student-specific plans may differ.
- Meet with an academic advisor to create a specific plan that best fits your academic needs.
- The student is ultimately responsible for knowing and completing all degree requirements.
- Make sure you meet the registration requirements for each class by clicking the course link and checking any prerequisites or corequisites.
- Consultation with an advisor may result in an altered plan customized for an individual student.
- Check your Degree Works for requirements and completion.

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	14 - 17	0

Requirement Select
- Communications Literacy (CL1) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Breadth American Institutions (BAI) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Breadth Life Sciences (BLS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Quantitative Literacy (QL) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 5
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- USU1010 - University Connections

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	15	0

Requirement Select
- HDFS1500 - Human Development Across the Lifespan (BSS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Breadth Physical Sciences (BPS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- SPED1010 - Disability and Society (BSS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- SPED2910 - Early Field Experience in Special Education

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Breadth Humanities (BHU) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	14	0

Requirement Select
- Communications Literacy (CL2) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Teaching Supports (3 credits) Suggested course: SPED 2910 (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Teaching Support (3 credits) Suggested Course: HDFS 2660 (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Elective (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Elective (2 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	15	0

Requirement Select

- Apply to the Special Education major by February 1 at https://cehs.usu.edu/sperc/sped/undergrad/admission. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Teaching Support course (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Breadth Creative Arts (BCA) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Depth Life and Physical Sciences (DSC) Course
  OR
- Depth Social Sciences (DSS) Course
  OR
- Depth Humanities and Creative Arts (DHA) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Different Category of University Studies. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Depth Life and Physical Sciences (DSC) Course
  OR
- Depth Humanities and Creative Arts (DHA) Course
  OR
- Depth Social Sciences (DSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Elective (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Fall	16	0

Requirement Select

- Must be admitted to SPED major to take these classes. Enroll in 2 credits of HDFS 2630. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- HDFS2600 - Seminar in Early Childhood Education

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select

- HDFS2605 - Early Childhood Education Practicum

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select

- HDFS3500 - Infancy and Childhood

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- SPED4000 - Education of Students with Disabilities

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- SPED5030 - Assessment in Special Education

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select

- SPED5040 - Foundations of Effective Instructional Practices

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Spring	16	0

Requirement Select

- SPED5010 - Applied Behavioral Analysis 1: Principles, Assessment, and Analysis (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- SPED5070 - Policies, Procedures, and Collaboration in Special Education

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Enroll in 2 credits of SPED5310. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- SPED5310 - Teaching Reading and Language Arts to Students with Disabilities

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	1 - 4
Clinical	-
Criticality	No

Requirement Select

- SPED5710 - Young Children with Disabilities: Characteristics and Services

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- SPED5810 - Seminar and Field Experiences with Infants and Families

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- SPED5840 - Practicum: Working with Young Children with Autism

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Fall	15	0

Requirement Select

- Apply for graduation at https://www.usu.edu/registrar/graduation/ and apply to student teaching by October 1 at https://cehs.usu.edu/sperc/sped/undergrad/student-teaching-info. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- SPED5050 - Applied Behavioral Analysis 2: Applications

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- SPED5530 - Family/Professional Collaboration and Technology for Teaching Exceptional Learners

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- SPED5730 - Intervention Strategies for Young Children with Disabilities

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Enroll in 3 credits of SPED5820. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- SPED5820 - Preschool Practicum with Young Children with Disabilities in Community Environments

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	2 - 3
Clinical	-
Criticality	No

Requirement Select

- Communications Intensive (CI) Courses

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- CI course suggestion: SCED3210 (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Spring	15	0

Requirement Select

- Enroll in 15 credits of SPED5200 (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- SPED5200 - Student Teaching in Special Education (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	15
Progress Credits	-
Contact Hours	3 - 15
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Program Learning Outcomes

Program Learning Outcomes

https://cehs.usu.edu/about/assessment

Special Education Online Practical Teacher Training (OPTT): Birth to Age 5 Emphasis - BA, BS

Program Overview

College	Department	Program Level
College of Education & Human Services	Special Education & Rehab Counseling	Undergraduate

About this Degree

This program prepares students to work with young children with disabilities (birth to age five). The Online Practical Teacher Training (OPTT) is an innovative, online special education preparation program specifically designed for individuals currently working in a Utah school as a special education teacher or a special education paraprofessional. Applicants will be fully qualified for preschool special education licensure upon completion of this 5-semester program (fall-spring-summer-fall-spring). The program will be longer for applicants who are completing a first bachelor's degree. To receive a Bachelor's of Arts (BA) degree, please see Undergraduate Academic Credential Requirements for required language courses.

- For more information about Special Education and Rehabilitation Counseling, see the website.
- Admitted and current students must meet with an academic advisor.
- Log on to Degree Works to check student-specific program progress.
- Students following the recommended schedule should be able to complete degree requirements in four years (eight semesters).
- The highest math requirement for this degree is Quantitative Literacy (QL).

Admission Requirements for this Program

- New freshmen must be admitted to USU in Good Standing.
- Transfer students from other institutions or other programs at USU must have a 2.0 GPA.
- Grade of C+ or better: for Communications Literacy **(CL1)** for General Education Requirements (required for program admission; it can also be met with AP ENGL or an ACT score of 30 or higher)
- Grade of C or better in General Education Requirements of Breadth American Institutions **(BAI)**, Breadth Life Sciences **(BLS)**, Breadth Physical Sciences **(BPS)**, HDFS1500 HUMAN DEV LIFESPAN (BSS) (required for program admission).
- Grade of C- or better for General Education Requirements; Quantitative Literacy **(QL)** (required for program admission).

Program Requirements

Total Credits Required In Program Coursework	Total Credits Required To Earn This Credential
57-69	120

Simple Requisites

Program Requirements

Minimum Grade Requirements:

- Grade of B- or better: All SPED and TEAL courses (except SPED1010 DISABILITY AND SOCIETY (BSS), SPED2910 EARLY FIELD EXPERIENCE IN SPED, SPED5230 SPED STUDENT TEACHING (CI), and SPED5900 INDEPENDENT STUDY).

- Grade of C- or better: All other courses required for the bachelor's degree
- Courses used to fulfill major requirements may *not* be taken pass/fail, except those courses that are only taught on a pass/fail basis.
- 3.0 GPA required in major coursework

Students are required to earn a grade of "B-" or better in all major courses (HDFS, SPED, TEAL prefixes). Students who receive a grade below "B-" must retake the course. Each student will be allowed to repeat a maximum of one course (course is defined as didactic courses, practica and student teaching). Students who receive two grades below "B-" or withdraw from two practica (or one practica two times) will not be permitted to continue in special education. Student teaching may not be repeated without appeal and approval by the appropriate special education program committee.

Special Education Online Practical Teacher Training (OPTT): Birth to Age 5 Emphasis - BA, BS

Type

Completion Requirement

Professional Education (8 credits)

These courses must be passed with a grade of B- or higher before starting fall semester.

Earn at least 8 credits from the following:

- HDFS4550 - Preschool Methods and Curriculum - 3cr.
- SPED4000 - Education of Students with Disabilities - 3cr.
- TEAL2660 - Educational Psychology for Teachers - 2cr.

Birth To Age 5 Specialization (34-46 credits)

Fulfill ALL of the following requirements:

OPTT First Year Fall (11 credits)

Earn at least 11 credits from the following:

- SPED5011 - Foundations in Special Education: Instructional Strategies, Behavior Management, and IEPs - 2cr.
- SPED5012 - Basic Behavior Management and Instructional Strategies (QI) - 3cr.
- SPED5311 - Reading and Language Arts Interventions for Students with Disabilities - 1cr.
- SPED5714 - Early Childhood Development and Social Competency: Implications for Intervention - 3cr.
- SPED5715 - Practicum I: Birth to Five Special Education - 2cr.

NOTE:

1. SPED5311 TEACH RDG/LANG ARTS ST W/DIS - Enroll in 1 credit.

AND

OPTT First Year Spring (7 credits)

Earn at least 7 credits from the following:

- SPED5014 - Foundations in Assessment - 2cr.
- SPED5711 - Introduction to Instruction for Preschoolers with Disabilities - 3cr.
- SPED5725 - Practicum II: Birth to Five Special Education - 2cr.

AND

OPTT First Year Summer (6 credits)

Earn at least 6 credits from the following:

- SPED5015 - Law/Policies/Procedures - 3cr.
- SPED5713 - Early Intervention: Services for Infants and Families - 3cr.

AND

OPTT Second Year Fall (7 credits)

Earn at least 7 credits from the following:

- SPED5013 - Advanced Behavior Management and Instructional Strategies - 3cr.
- SPED5016 - Technology and Collaboration for Teaching Exceptional Learners - 3cr.
- SPED5018 - Eligibility Assessment - 1cr.

AND

OPTT Second Year Spring (3-15 credits)

Complete ALL of the following Courses:

- SPED5230 - Special Education Student Teaching (CI) - 3cr.

NOTE:

1. SPED5230 SPED STUDENT TEACHING (CI) - 15 credits for first bachelor's; 3 credits for second bachelor's.

Teaching Support (15 credits)

Fulfill ANY of the following requirements:

Earn at least 15 credits from the following:

- SPED1010 - Disability and Society (BSS) - 3cr.
- ELED1010 - Orientation to Elementary Education - 3cr.
- HDFS2400 - Couple and Family Relationships (BSS) - 3cr.
- HDFS2660 - Parenting and Child Guidance - 3cr.
- HEP3000 - Drugs and Human Behavior - 3cr.
- PSY1400 - Analysis of Behavior: Basic Principles - 3cr.
- PSY1410 - Analysis of Behavior: Basic Principles Lab - 1cr.
- SOC1010 - Introductory Sociology (BSS) - 3cr.
- SPED2910 - Early Field Experience in Special Education - 3cr.
- SW1010 - Introduction to Social Welfare (BSS) - 3cr.
- ASL1010 - American Sign Language I - 4cr.
- SHS3200 - Child Language Development - 3cr.

NOTE:

1. SPED2910 EARLY FIELD EXPERIENCE IN SPED - May repeat for 6 total credits.

Open Electives

Complete the following as needed:

Total elective credit is determined by General Education courses taken, degree type selected, additional credits earned, and any additional math or other prerequisite courses needed. Please consult your Academic Advisor for details.

Additional Comments:

Licensure Notification

This program typically leads to licensure and was designed to meet licensing qualifications in the state of Utah. If students wish to work in another state within the United States, they should review the qualifications for that state and the Education Licensure Compliance Table provided by School of Teacher Education and Leadership.

For more information, please contact the School of Teacher Education and Leadership at https://cehs.usu.edu/teal/.

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Bachelor's Degree)

Suggested Degree Maps

Degree Map Name
Suggested Degree Map - Special Education Online Practical Teacher Training (OPTT): Birth to Age 5 Emphasis BA, BS
Total Degree Map Credits
107 - 122
Degree Map Effective Catalog Year
2027 -

Degree Map Narrative

- Following is a sample four-year plan. Please note that student-specific plans may differ.
- Meet with an academic advisor to create a specific plan that best fits your academic needs.
- The student is ultimately responsible for knowing and completing all degree requirements.
- Make sure you meet the registration requirements for each class by clicking the course link and checking any prerequisites or corequisites.
- Consultation with an advisor may result in an altered plan customized for an individual student.
- Check your Degree Works for requirements and completion.

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	14 - 17	0

Requirement Select
- Communications Literacy (CL1) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Breadth American Institutions (BAI) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Breadth Life Sciences (BLS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Quantitative Literacy (QL) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 5
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Enroll in 2 credits of Elective. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	15	0

Requirement Select

- HDFS1500 - Human Development Across the Lifespan (BSS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Elective (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Breadth Physical Sciences (BPS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- SPED2910 - Early Field Experience in Special Education

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- ELED1010 - Orientation to Elementary Education

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Summer	6	0

Requirement Select

- Breadth Creative Arts (BCA) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Breadth Humanities (BHU) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	15	0

Requirement Select

- Apply to SPED major by October 1st. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Communications Literacy (CL2) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- SPED2910 - Early Field Experience in Special Education

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Teaching support (3 credits). Suggested course REH2060 (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Communications Intensive (CI) Courses

Course Requirement Group	
Course Requirement Group (Free Text)	Suggested course SCED3210
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	14	0

Requirement Select
- HDFS4550 - Preschool Methods and Curriculum

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- TEAL2660 - Educational Psychology for Teachers

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select
- Teaching Support course (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- SPED4000 - Education of Students with Disabilities

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Teaching support (3 credits). Suggested course HDFS2660 (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Summer	9	0

Requirement Select

- University Studies Depth Course (different category) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Electives (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Depth Humanities and Creative Arts (DHA) Course
  OR
- Depth Life and Physical Sciences (DSC) Course
  OR
- Depth Social Sciences (DSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Fall	11	1

Requirement Select

- SPED5011 - Foundations in Special Education: Instructional Strategies, Behavior Management, and IEPs

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select

- SPED5012 - Basic Behavior Management and Instructional Strategies (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- SPED5311 - Reading and Language Arts Interventions for Students with Disabilities

Course Requirement Group	
Course Requirement Group (Free Text)	Enroll in 1 credit of SPED5311
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	1
Contact Hours	1 - 3
Clinical	-
Criticality	No

Requirement Select

- SPED5714 - Early Childhood Development and Social Competency: Implications for Intervention

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- SPED5715 - Practicum I: Birth to Five Special Education

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Spring	7	0

Requirement Select

- SPED5014 - Foundations in Assessment

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select

- SPED5711 - Introduction to Instruction for Preschoolers with Disabilities

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- SPED5725 - Practicum II: Birth to Five Special Education

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Summer	6	0

Requirement Select

- SPED5015 - Law/Policies/Procedures

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- SPED5713 - Early Intervention: Services for Infants and Families

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Fall	7	0

Requirement Select

- Apply to student teaching by October 1 at https://cehs.usu.edu/sperc/sped/undergrad/student-teaching-info and apply for graduation at https://www.usu.edu/registrar/graduation/. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- SPED5013 - Advanced Behavior Management and Instructional Strategies

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- SPED5016 - Technology and Collaboration for Teaching Exceptional Learners

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- SPED5018 - Eligibility Assessment

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Spring	3 - 15	0

Requirement Select

- SPED5230 - Special Education Student Teaching (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	Enroll in 15 credits for first bachelors degree or 3 credits for second bachelors degree
Minimum Grade	-
Area	-
Actual Credits	3 - 15
Progress Credits	-
Contact Hours	3 - 15
Clinical	-
Criticality	No

Total General Education Credits	Total Major Credits
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Program Learning Outcomes

Program Learning Outcomes

https://cehs.usu.edu/about/assessment

Special Education - BA, BS

Program Overview

College	Department	Program Level
College of Education & Human Services	Special Education & Rehab Counseling	Undergraduate

About this Degree

Students graduating from USU with a degree in special education are highly sought after by school districts across Utah and the United States. Utah State has a 100% job placement rate for special education graduates, with many students getting hired before they even graduate.

The department offers a number of unique educational and training opportunities for those interested in working with children and youth with disabilities. The program prepares students to work with individuals who have mild, moderate, and severe disabilities, as well as young children with disabilities. Students are given the opportunity to gain hands-on experience working with local school districts or on-campus programs.

Students receive a first or 2nd BS by completing all required courses in the major. To receive a BA, students must also gain proficiency in one or more foreign languages. See Undergraduate Academic Credential Requirements for required language courses.

- For more information about Special Education and Rehabilitation Counseling, see the website.
- Admitted and current students must meet with an academic advisor.
- Log on to Degree Worksto check student-specific program progress.
- The highest math requirement for this degree is MATH2020 GEOMETRY/STAT ELED TEACH(QI).

Admission Requirements for this Program

- New freshmen must be admitted to USU in Good Standing.
- Transfer students from other institutions or other programs at USU must have a 3.0 GPA.

Program Requirements

Total Credits Required In Program Coursework	Total Credits Required To Earn This Credential
120	120

Simple Requisites

Program Requirements

The Special Education - BA, BS program requires students to choose a program emphasis. Please see the department academic advisor for more details about available emphasis options.

Special Education - BA, BS (must choose an emphasis)

Type
Completion Requirement

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Bachelor's Degree)

Program Learning Outcomes

Program Learning Outcomes

https://cehs.usu.edu/about/assessment

Special Education - EdS

Program Overview

College	Department	Program Level
College of Education & Human Services	Special Education & Rehab Counseling	Graduate

About this Degree

The educational specialist degree is designed for advanced graduate students seeking instruction beyond a master's degree. Programs are individually planned to address specific student needs. Completion of the EdS program is based on completion of required coursework, submission of a research proposal to a supervisory committee, and satisfactory defense of the research project.

Program Requirements

Total Credits Required In Program Coursework	Total Credits Required To Earn This Credential
-	-

Program Learning Outcomes

Program Learning Outcomes

https://cehs.usu.edu/about/assessment

Special Education - MEd

Program Overview

College	Department	Program Level
College of Education & Human Services	Special Education & Rehab Counseling	Graduate

About this Degree

Program Contact:

Kris Wengreen, Graduate Program Coordinator (GPC), kris.wengreen@usu.edu, 435-797-3246

Program Description:

The Master of Education degree program is designed for persons who desire a graduate program that will help them improve their competencies as educators. This includes school personnel, as well as individuals who are involved in education-related activities across a variety of community, work, and clinical settings. The MEd degree focuses on improving instruction and management practices, implementing legal requirements, professional collaboration, and translating research into practice.

Admission Requirements for this Program

Online application, application fee, official transcripts, 3 letters of recommendation, statement of purpose, and resume.

Additional information about the Special Education MEd program may be obtained by contacting the Department of Special Education and Rehabilitation Counseling or by visiting the program website at https://cehs.usu.edu/sperc/sped/masters/master-of-education

Program Requirements

Total Credits Required In Program Coursework	Total Credits Required To Earn This Credential
36	36

Simple Requisites

Program Requirements

School of Graduate Studies Requirements:

- All candidates must complete a creative project which consists of a professional portfolio or a research project. A minimum of 36 credits, including a creative project is required for the MEd degree. Students are not required to complete a particular area of specialization but are encouraged to fill their required elective credits with courses that align with their interests.
- Students interested in the School Leadership Licensure option should indicate that interest on their initial master's application and submit an additional application to the School of Teacher Education and Leadership.
- Degree Verification: A bachelor's degree from an accredited U.S. college or university or a similarly recognized international university is required for admission to and completion of a graduate program.
- Overall Graduate GPA at least 3.0 and no grades of C- or lower: Graduate students are required to maintain at least a 3.0 GPA for degree-program courses. Grades of C- or lower will not be accepted for a graduate degree.
- Course Number Acceptability: The program of study for a master's degree cannot include more than 12 semester credits of courses at the 5000 level. Credits in the following areas are not acceptable in a degree program: foreign languages (unless included in an approved Program of Study), continuing graduate advisement, individual home study, military science, and courses numbered below 5000. The Program of Study for a master's degree must include at least 15 semester credits at the level of 6000 or above.
- Coursework Validity: Coursework over eight years old at the time of degree completion may not be used for a graduate degree unless it is revalidated by the Vice Provost of Graduate Studies.
- Master's forms: Approval of the Program of Study is required by the School of Graduate Studies. Successful defense and submission of the project to the library.

Master's forms:

- Supervisory Committee Form
- Program of Study
- Thesis/Project Approval
- Appointment for Exam
- Plan B Report/Creative Project Submission
- Graduation Application

Master of Education (MEd)

All master's students are required to enroll in courses that support their area(s) of interest. Courses may either be taken in the Department of Special Education and Rehabilitation Counseling or other departments. Coursework taken post bachelor's degree can be applied from licensure or endorsement areas such as:

- School Leadership Licensure option
- Dual Sensory Impairments
- Early Childhood
- English as a Second Language
- Mild/Moderate
- Reading
- Severe Disabilities

Coursework can be applied from a single program or accrued across departments such as:

- Elementary Education
- Family and Human Development
- Instructional Technology
- Psychology
- Program Evaluation
- Secondary Education
- Sociology or Social Work

For more specific information, please visit the department's website: http://cehs.usu.edu/sperc/sped/masters/index

MEd with School Leadership Licensure

The Master of Education with the School Leadership Licensure option is designed for individuals pursuing administrative or supervisory positions in the public school system. The program combines the special education focus on refining school practices in terms of instruction and management practices, legal requirements, and professional collaboration with the knowledge and

competencies of the School Leadership Licensure option. A separate application to the Teacher Education and Leadership department is required for this program. For more information, please visit the department's website.

Program Requirements

Type
Completion Requirement

Special Education - MEd

SPED6060 LEGAL ISSUES IN SPED, SPED6300 EFFECTIVE PRACTICE DIVERSE POP, SPED6700 INTRO TO BEHAVIORAL RESEARCH, and SPED6770 COACHING AND SYSTEMS CHANGE are not offered every semester. Contact advisor for updated information on course offerings. SPED6960 CREATIVE PROJECT is intended to be completed during the last semester or two of the program. Twelve additional elective credits (5000 level or above) are required for program completion; elective courses must be approved by the advisor and relevant to professional interests.

Fulfill ALL of the following requirements:

Courses for all MEd Students (9-12 credits)

Complete ALL of the following Courses:

- SPED6060 - Legal Issues in Special Education - 3cr.
- SPED6900 - Independent Study - 1cr.
- SPED6960 - Creative Project - 1cr.

AND

Special Education MEd Courses (36 credits)

Complete ALL of the following Courses:

- SPED6300 - Effective Practices with Culturally and Linguistically Diverse Populations - 3cr.
- SPED6700 - Introduction to Behavioral Research in Education - 3cr.
- SPED6720 - Educational Applications of Behavior Analysis I - 3cr.
- SPED6770 - Coaching and Systems Change - 3cr.

• Elective credits approved by advisor- 12 credit(s)

Courses for MEd in Special Education with the School Leadership Licensure option

Complete ALL of the following Courses:

- TEAL6050 - Theories of Instructional Supervision - 3cr.
- TEAL6060 - Instructional Leadership: Assessment for Curricular - 3cr.
- TEAL6080 - Leadership and the School Principal - 3cr.
- TEAL6090 - Theories of Organizational Leadership in Education - 3cr.
- TEAL6280 - Instructional Leadership: Instructional Practices for Diverse Learners - 3cr.
- TEAL6330 - Leadership in the School Community - 3cr.
- TEAL6500 - School Finance and Resource Management - 3cr.
- TEAL6740 - School Law - 3cr.
- TEAL6930 - Supervision and Administrative Internship Seminar - 3cr.

Program Learning Outcomes

Program Learning Outcomes
https://cehs.usu.edu/about/assessment

Special Education: Mild/Moderate & Birth to 5 Dual Emphasis - BA, BS

Program Overview

College
College of Education & Human Services

Department
Special Education & Rehab Counseling

Program Level
Undergraduate

About this Degree

The program prepares students to work with individuals who have minimal to moderate support needs, as well as young children with disabilities. Students are given the opportunity to gain hands-on experience working with local school districts or on-campus programs.

This dual-emphasis prepares graduates to work with children ages birth to five years who have disabilities. Children ages birth to three years are typically served by early intervention programs in their homes. Children three to five years are taught in public preschool settings within local school districts. This dual-emphasis also prepares graduates to work with students who have high-incidence disabilities, such as learning disabilities, minimal to moderate intellectual disabilities, behavior and emotional disorders, or communication disorders. Educators work with children in grades K-12 in a resource-room setting or inclusive setting teaching academic skills.

- For more information about Special Education and Rehabilitation, see the website.
- Admitted and current students must meet with an academic advisor.
- Log on to Degree Works to check student-specific program progress.
- Students following the recommended schedule should be able to complete degree requirements in five years (nine semesters). This degree is a dual emphasis degree, so it is not possible to complete in four years.
- The highest math requirement for this degree is MATH2020 GEOMETRY/STAT ELED TEACH(QI).
- For the Bachelor of Arts (BA) see Undergraduate Academic Credential Requirements for language requirements.

Admission Requirements for this Program

Pre-Special Education Major Admission Requirements

- New freshmen must be admitted to USU in Good Standing.
- Transfer students from other institutions or other programs at USU must have a 2.0 GPA.
- Grade of C+ or better: for Communications Literacy **(CL1)** General Education Requirements (required for program admission; it can also be met with AP ENGL or an ACT score of 30 or higher)
- Grade of C or better: General Education Requirements (Breadth American Institutions **(BAI)**, Breadth Life Sciences **(BLS)**, Breadth Physical Sciences **(BPS)**, HDFS1500 HUMAN DEV LIFESPAN (BSS) (required for program admission)
- Grade of C- or better in Quantitative Literacy (QL) (required for program admission)

Program Requirements

Total Credits Required In Program Coursework
77-79

Total Credits Required To Earn This Credential
120

Simple Requisites

Program Requirements

Minimum Grade Requirements:

- Grade of B- or better: All other HDFS, SPED, TEAL courses courses (except SPED1010 DISABILITY AND SOCIETY (BSS), SPED2910 EARLY FIELD EXPERIENCE IN SPED, SPED5200 STUDENT TEACHING (CI), and SPED5900 INDEPENDENT STUDY).
- Grade of C or better in MATH2010 ALG/NUMER FOR ELED TEACH (QI) and MATH2020 GEOMETRY/STAT ELED TEACH(QI)
- Grade of C- or better in all other courses required for the bachelor's degree
- Courses used to fulfill major requirements may not be taken pass/fail, except those courses that are only taught on a pass/fail basis.
- 3. 0 GPA required in major coursework

Students are required to earn a grade of "B-" or better in all major courses (SPED, TEAL, ELED prefixes). Students who receive a grade below "B-" must retake the course. Each student will be allowed to repeat a maximum of one course (course is defined as didactic courses, practica and student teaching). Students who receive two grades below "B-" or withdraw from two practica (or one practica two times) will not be permitted to continue in special education. Student teaching may not be repeated without appeal and approval by the appropriate special education program committee.

Special Education: Mild/Moderate & Birth to 5 Dual Emphasis - BA, BS

Type
Completion Requirement

Math Requirements (9-11 credits)

Fulfill ALL of the following requirements:

Quantitative Literacy (QL)

Complete ALL of the following Course Sets:

- Quantitative Literacy (QL) Course

AND

Courses

Complete ALL of the following Courses:

- MATH2010 - Algebraic Thinking & Number Sense for Elementary Education School Teachers (QI) - 3cr.
- MATH2020 - Euclidean Geometry & Statistics for Elementary Education School Teachers (QI) - 3cr.

Professional Education (20 credits)

Complete ALL of the following Courses:

- ELED3100 - Classroom Reading Instruction - 3cr.
- HDFS2600 - Seminar in Early Childhood Education - 2cr.
- HDFS2605 - Early Childhood Education Practicum - 2cr.
- HDFS3500 - Infancy and Childhood - 3cr.
- SPED4000 - Education of Students with Disabilities - 3cr.
- SPED5030 - Assessment in Special Education - 2cr.
- SPED5040 - Foundations of Effective Instructional Practices - 4cr.
- SPED5920 - Internship in Early Intervention - 1cr.

Mild/Moderate & Birth to 5 Specialization (48 credits)

Fulfill ALL of the following requirements:

Junior Spring (16 credits)

Complete ALL of the following Courses:

- SPED5010 - Applied Behavioral Analysis 1: Principles, Assessment, and Analysis (QI) - 3cr.
- SPED5070 - Policies, Procedures, and Collaboration in Special Education - 3cr.
- SPED5310 - Teaching Reading and Language Arts to Students with Disabilities - 1cr.
- SPED5340 - Teaching Math to Students with Mild/ Moderate Disabilities - 3cr.
- SPED5410 - Practicum I (Elementary) for Mild/Moderate Disabilities - 3cr.

NOTE:

1. SPED5310 TEACH READ/LANG ARTS ST W/DIS - Enroll in 4 credits

AND

Senior Fall (14 credits)

Apply for graduation at https://www.usu.edu/registrar/graduation/

Complete ALL of the following Courses:

- SPED5050 - Applied Behavioral Analysis 2: Applications - 3cr.
- SPED5080 - Transition-Focused Education and Collaboration - 2cr.
- SPED5530 - Family/Professional Collaboration and Technology for Teaching Exceptional Learners - 3cr.
- SPED5730 - Intervention Strategies for Young Children with Disabilities - 3cr.
- SPED5820 - Preschool Practicum with Young Children with Disabilities in Community Environments - 2cr.

NOTE:

1. SPED5820 PRESCHOOL PRACT W/DISABILITIES- Enroll in 3 credits

AND

Senior Spring (3 credits)

Apply to student teaching by March 1 at https://cehs.usu.edu/sperc/sped/undergrad/student-teaching-info

Complete ALL of the following Courses:

- SPED5710 - Young Children with Disabilities: Characteristics and Services - 3cr.

AND

Student Teaching (15 credits)

Complete ALL of the following Courses:

- SPED5200 - Student Teaching in Special Education (CI) - 3cr.

NOTE:

1. SPED5200 STUDENT TEACHING (CI) - Enroll in 15 credits.

Open Electives

Complete the following as needed:

Total elective credit is determined by General Education courses taken, degree type selected, additional credits earned, and any additional math or other prerequisite courses needed. Please consult your Academic Advisor for details.

Additional Comments:

Licensure Notification

This program typically leads to licensure and was designed to meet licensing qualifications in the state of Utah. If students wish to work in another state within the United States, they should review the qualifications for that state and the Education Licensure Compliance Table provided by School of Teacher Education and Leadership.

For more information, please contact the School of Teacher Education and Leadership at https://cehs.usu.edu/teal/.

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Bachelor's Degree)

Suggested Degree Maps

Degree Map Name
Suggested Degree Map - Special Education: Mild/Moderate & Birth to 5 Dual Emphasis BA, BS
Total Degree Map Credits
110 - 113
Degree Map Effective Catalog Year
2027 -

Degree Map Narrative

- Following is a sample four-year plan. Please note that student-specific plans may differ.
- Meet with an academic advisor to create a specific plan that best fits your academic needs.
- The student is ultimately responsible for knowing and completing all degree requirements.
- Make sure you meet the registration requirements for each class by clicking the course link and checking any prerequisites or corequisites.
- Consultation with an advisor may result in an altered plan customized for an individual student.
- Check your Degree Works for requirements and completion.

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	12 - 15	0

Requirement Select
- Communications Literacy (CL1) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Breadth Life Sciences (BLS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Breadth American Institutions (BAI) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Quantitative Literacy (QL) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 5
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	9	0

Requirement Select
- HDFS1500 - Human Development Across the Lifespan (BSS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- MATH2020 - Euclidean Geometry & Statistics for Elementary Education School Teachers (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Breadth Physical Sciences (BPS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	12	0

Requirement Select
- Communications Literacy (CL2) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- MATH2010 - Algebraic Thinking & Number Sense for Elementary Education School Teachers (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Breadth Creative Arts (BCA) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Communications Intensive (CI) and Depth Course suggested course: SCED 3210 - Educational and Multicultural Foundations (CI/DSS) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	10	0

Requirement Select

- Apply to the Special Education major by February 1 at https://cehs.usu.edu/sperc/sped/undergrad/admission. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Breadth Humanities (BHU) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- HDFS2600 - Seminar in Early Childhood Education

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select

- HDFS2605 - Early Childhood Education Practicum

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select

- Elective course (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Fall	15	0

Requirement Select
- ELED3100 - Classroom Reading Instruction

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- HDFS3500 - Infancy and Childhood

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- SPED4000 - Education of Students with Disabilities

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- SPED5030 - Assessment in Special Education

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select
- SPED5040 - Foundations of Effective Instructional Practices

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Spring	16	0

Requirement Select
- SPED5010 - Applied Behavioral Analysis 1: Principles, Assessment, and Analysis (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- SPED5070 - Policies, Procedures, and Collaboration in Special Education

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- SPED5310 - Teaching Reading and Language Arts to Students with Disabilities

Course Requirement Group	
Course Requirement Group (Free Text)	Enroll in 4 credits in SPED5310
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	1 - 4
Clinical	-
Criticality	No

Requirement Select

- SPED5340 - Teaching Math to Students with Mild/ Moderate Disabilities

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- SPED5410 - Practicum I (Elementary) for Mild/Moderate Disabilities

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Fall	14	0

Requirement Select

- SPED5050 - Applied Behavioral Analysis 2: Applications

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- SPED5080 - Transition-Focused Education and Collaboration

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select

- SPED5530 - Family/Professional Collaboration and Technology for Teaching Exceptional Learners

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- SPED5730 - Intervention Strategies for Young Children with Disabilities

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- SPED5820 - Preschool Practicum with Young Children with Disabilities in Community Environments

Course Requirement Group	
Course Requirement Group (Free Text)	Enroll in 3 credits of SPED5820
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	2 - 3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Spring	7	0

Requirement Select

- Apply to student teaching by March 1 at https://cehs.usu.edu/sperc/sped/undergrad/student-teaching-info and apply for graduation at https://www.usu.edu/registrar/graduation/. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- SPED5710 - Young Children with Disabilities: Characteristics and Services

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Depth Life and Physical Sciences (DSC) Course
  OR
- Depth Social Sciences (DSS) Course
  OR
- Depth Humanities and Creative Arts (DHA) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Elective (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 5	Fall	15	0

Requirement Select

- SPED5200 - Student Teaching in Special Education (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	Enroll in 15 credits in SPED5200
Minimum Grade	-
Area	-
Actual Credits	15
Progress Credits	-
Contact Hours	3 - 15
Clinical	-
Criticality	No

Total General Education Credits	Total Major Credits
0	0

Total Minor Credits	Total Elective Credits
0	0

Program Learning Outcomes

Program Learning Outcomes

https://cehs.usu.edu/about/assessment

Special Education: Mild/Moderate Emphasis - BA, BS

Program Overview

College
College of Education & Human Services

Department
Special Education & Rehab Counseling

Program Level
Undergraduate

About this Degree

The program prepares students to work with individuals who have minimal to moderate support needs. Students are given the opportunity to gain hands-on experience working with local school districts or on-campus programs.

Mild/Moderate Disabilities Emphasis: This emphasis prepares graduates to work with students who have high-incidence disabilities, such as learning disabilities, mild/moderate intellectual disabilities, behavior and emotional disorders, or communication disorders. Educators work with children in grades K-12 in a resource-room setting or inclusive setting teaching academic skills. To receive a Bachelor's of Arts (BA) degree, please see Undergraduate Academic Credential Requirements for required language courses.

- For more information about Special Education and Rehabilitation Counseling, see the website.
- Admitted and current students must meet with an academic advisor.
- Log on to Degree Worksto check student-specific program progress.
- Students following the recommended schedule should be able to complete degree requirements in four years (eight semesters).
- The highest math requirement for this degree is MATH2020 GEOMETRY/STAT ELED TEACH(QI).

***Dual licensure programs are available on the Logan Main Campus for Special Education Mild/Moderate majors within special education with severe and birth to five emphases or with elementary education or secondary content majors in the School of TEAL. See website for more information.*

Admission Requirements for this Program

Pre-Special Education Major Admission Requirements

- New freshmen must be admitted to USU in Good Standing.
- Transfer students from other institutions or other programs at USU must have a 2.0 GPA.
- Grade of C+ or better: for Communications Literacy **(CL1)** General Education Requirements (required for program admission; it can also be met with AP ENGL or an ACT score of 30 or higher).
- Grade of C or better: General Education Requirements (Breadth American Institutions **(BAI)**, Breadth Life Sciences **(BLS)**, Breadth Physical Sciences **(BPS)**, HDFS1500 HUMAN DEV LIFESPAN (BSS) (required for program admission).
- Grade of C- or better in Quantitative Literacy (QL) (required for program admission).

Program Requirements

Total Credits Required In Program Coursework
81-83

Total Credits Required To Earn This Credential
120

Simple Requisites

Program Requirements

Minimum Grade Requirements:

- Grade of B- or better: All other HDFS, SPED, TEAL courses courses (except SPED1010 DISABILITY AND SOCIETY (BSS), SPED2910 EARLY FIELD EXPERIENCE IN SPED, SPED5200 STUDENT TEACHING (CI), and SPED5900 INDEPENDENT STUDY).
- Grade of C or better in MATH2010 ALG/NUMER FOR ELED TEACH (QI) and MATH2020 GEOMETRY/STAT ELED TEACH(QI)
- Grade of C- or better in all other courses required for the bachelor's degree
- Courses used to fulfill major requirements may not be taken pass/fail, except those courses that are only taught on a pass/fail basis.
- 3. 0 GPA required in major coursework

Students are required to earn a grade of "B-" or better in all major courses (SPED, TEAL, ELED prefixes). Students who receive a grade below "B-" must retake the course. Each student will be allowed to repeat a maximum of one course (course is defined as didactic courses, practica and student teaching). Students who receive two grades below "B-" or withdraw from two practica (or one practica two times) will not be permitted to continue in special education. Student teaching may not be repeated without appeal and approval by the appropriate special education program committee.

Special Education: Mild/Moderate Emphasis - BA, BS

Type
Completion Requirement

Mild/Moderate Specialization (57 credits)

All courses listed below must be passed with a grade of B- or higher before beginning the next semester of SPED courses.

Fulfill ALL of the following requirements:

Junior Fall: Professional Education (14 credits)

Complete ALL of the following Courses:

- ELED3100 - Classroom Reading Instruction - 3cr.
- SPED4000 - Education of Students with Disabilities - 3cr.
- SPED5030 - Assessment in Special Education - 2cr.
- SPED5040 - Foundations of Effective Instructional Practices - 4cr.
- TEAL2660 - Educational Psychology for Teachers - 2cr.

AND

Junior Spring (16 credits)

Complete ALL of the following Courses:

- SPED5010 - Applied Behavioral Analysis 1: Principles, Assessment, and Analysis (QI) - 3cr.
- SPED5070 - Policies, Procedures, and Collaboration in Special Education - 3cr.
- SPED5310 - Teaching Reading and Language Arts to Students with Disabilities - 1cr.
- SPED5340 - Teaching Math to Students with Mild/Moderate Disabilities - 3cr.
- SPED5410 - Practicum I (Elementary) for Mild/Moderate Disabilities - 3cr.

NOTE:

1. SPED5310 TEACH READ/LANG ARTS ST W/DIS - Enroll in 4 credits.

AND

Senior Fall (12 credits)

Complete ALL of the following Courses:

- SPED5050 - Applied Behavioral Analysis 2: Applications - 3cr.
- SPED5080 - Transition-Focused Education and Collaboration - 2cr.
- SPED5420 - Practicum II (Secondary) for Mild/Moderate Disabilities - 3cr.
- SPED5530 - Family/Professional Collaboration and Technology for Teaching Exceptional Learners - 3cr.

NOTE:

1. SPED5420 PRACT II: SECONDARY MM DISABIL - Enroll in 4 credits.

AND

Senior Spring (15 credits)

Complete ALL of the following Courses:

- SPED5200 - Student Teaching in Special Education (CI) - 3cr.

NOTE:

1. SPED5200 STUDENT TEACHING (CI) - Enroll in 15 credits.

Teaching Support (15 credits)

Earn at least 15 credits from the following:

- SPED1010 - Disability and Society (BSS) - 3cr.
- ELED1010 - Orientation to Elementary Education - 3cr.
- ASL1010 - American Sign Language I - 4cr.
- HDFS2660 - Parenting and Child Guidance - 3cr.
- HDFS2400 - Couple and Family Relationships (BSS) - 3cr.
- HEP2000 - First Aid and Emergency Care - 2cr.
- HEP3000 - Drugs and Human Behavior - 3cr.
- PSY1400 - Analysis of Behavior: Basic Principles - 3cr.
- PSY1410 - Analysis of Behavior: Basic Principles Lab - 1cr.
- SOC1010 - Introductory Sociology (BSS) - 3cr.
- SW1010 - Introduction to Social Welfare (BSS) - 3cr.
- REH2060 - Health Promotion for Individuals with Chronic Illness and Disability - 3cr.
- PSY1010 - General Psychology (BSS) - 3cr.
- SPED2910 - Early Field Experience in Special Education - 3cr.
- SHS3200 - Child Language Development - 3cr.

NOTE:

1. SPED2910 EARLY FIELD EXPERIENCE IN SPED - May repeat this course for credit.

Math Requirements (9-11 credits)

Fulfill ALL of the following requirements:

Quantitative Literacy (QL)

Complete ALL of the following Course Sets:

- Quantitative Literacy (QL) Course

AND

Math Courses

Complete ALL of the following Courses:

- MATH2010 - Algebraic Thinking & Number Sense for Elementary Education School Teachers (QI) - 3cr.
- MATH2020 - Euclidean Geometry & Statistics for Elementary Education School Teachers (QI) - 3cr.

Open Electives

Complete the following as needed:
Total elective credit is determined by General Education courses taken, degree type selected, additional credits earned, and any additional math or other prerequisite courses needed. Please consult your Academic Advisor for details.

Additional Comments:

Licensure Notification

This program typically leads to licensure and was designed to meet licensing qualifications in the state of Utah. If students wish to work in another state within the United States, they should review the qualifications for that state and the Education Licensure Compliance Table provided by School of Teacher Education and Leadership.

For more information, please contact the School of Teacher Education and Leadership at https://cehs.usu.edu/teal/.

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Bachelor's Degree)

Suggested Degree Maps

Degree Map Name
Suggested Degree Map - Special Education: Mild/Moderate Emphasis BA, BS
Total Degree Map Credits
119 - 122
Degree Map Effective Catalog Year
2027 -

Degree Map Narrative

- Following is a sample four-year plan. Please note that student-specific plans may differ.
- Meet with an academic advisor to create a specific plan that best fits your academic needs.
- The student is ultimately responsible for knowing and completing all degree requirements.
- Make sure you meet the registration requirements for each class by clicking the course link and checking any prerequisites or corequisites.
- Consultation with an advisor may result in an altered plan customized for an individual student.
- Check your Degree Works for requirements and completion.

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	14 - 17	0

Requirement Select

- Communications Literacy (CL1) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Quantitative Literacy (QL) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 5
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Suggested Elective: USU1010 - University Connections (2 cr) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Breadth American Institutions (BAI) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Breadth Life Sciences (BLS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	15	0

Requirement Select

- HDFS1500 - Human Development Across the Lifespan (BSS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- MATH2020 - Euclidean Geometry & Statistics for Elementary Education School Teachers (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Breadth Physical Sciences (BPS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Teaching Support (3 credits) Suggested course: SPED 1010 Disability and Society (BSS) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Teaching Support (3 credits) Suggested course: SPED 2910 (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	15	0

Requirement Select

- Communications Literacy (CL2) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- MATH2010 - Algebraic Thinking & Number Sense for Elementary Education School Teachers (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Communications Intensive (CI) Courses

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Breadth Creative Arts (BCA) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Teaching Support Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	15	3

Requirement Select

- Apply to the Special Education major by February 1 at https://cehs.usu.edu/sperc/sped/undergrad/admission. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Breadth Humanities (BHU) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Depth Life and Physical Sciences (DSC) Course
  OR
- Depth Social Sciences (DSS) Course
  OR
- Depth Humanities and Creative Arts (DHA) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	3
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Select a different category of University Studies. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Depth Humanities and Creative Arts (DHA) Course
  OR
- Depth Social Sciences (DSS) Course
  OR
- Depth Humanities and Creative Arts (DHA) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Teaching Support Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Electives (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Fall	14	0

Requirement Select
- SPED4000 - Education of Students with Disabilities

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- SPED5030 - Assessment in Special Education

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select

- SPED5040 - Foundations of Effective Instructional Practices

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- ELED3100 - Classroom Reading Instruction

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- TEAL2660 - Educational Psychology for Teachers

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Spring	16	0

Requirement Select

- SPED5010 - Applied Behavioral Analysis 1: Principles, Assessment, and Analysis (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- SPED5070 - Policies, Procedures, and Collaboration in Special Education

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Enroll in 4 credits of SPED5310 (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- SPED5310 - Teaching Reading and Language Arts to Students with Disabilities

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	1 - 4
Clinical	-
Criticality	No

Requirement Select

- SPED5340 - Teaching Math to Students with Mild/ Moderate Disabilities

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- SPED5410 - Practicum I (Elementary) for Mild/Moderate Disabilities

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Fall	15	0

Requirement Select

- Apply for graduation at https://www.usu.edu/registrar/graduation/ and apply to student teaching by October 1 at https://cehs.usu.edu/sperc/sped/undergrad/student-teaching-info. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- SPED5050 - Applied Behavioral Analysis 2: Applications

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- SPED5080 - Transition-Focused Education and Collaboration

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select

- SPED5530 - Family/Professional Collaboration and Technology for Teaching Exceptional Learners

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Enroll in 4 credits of SPED5420. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- SPED5420 - Practicum II (Secondary) for Mild/Moderate Disabilities

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	3 - 4
Clinical	-
Criticality	No

Requirement Select

- Teaching Support Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Spring	15	0

Requirement Select

- Enroll in 15 credits of SPED5200. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- SPED5200 - Student Teaching in Special Education (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	15
Progress Credits	-
Contact Hours	3 - 15
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Program Learning Outcomes

Program Learning Outcomes

https://cehs.usu.edu/about/assessment

Special Education Online Practical Teacher Training (OPTT): Mild/Moderate Emphasis - BA, BS

Program Overview

College	Department	Program Level
College of Education & Human Services	Special Education & Rehab Counseling	Undergraduate

About this Degree

USU OPTT is an innovative, online special education preparation program specifically designed for individuals currently working in a Utah school as a special education teacher or a special education paraprofessional. Applicants may choose to specialize in either early childhood special education, K-12 complex support needs, or K-12 minimal/moderate support needs, and will be fully qualified for special education licensure upon completion of this 5-semester program (fall-spring-summer-fall-spring). The program will be longer for applicants who are completing a first bachelor's degree. To receive a Bachelor's of Arts (BA) degree, please see Undergraduate Academic Credential Requirements for required language courses.

Mild/Moderate Disabilities Emphasis: This emphasis prepares graduates to work with students who have high-incidence disabilities, such as learning disabilities, minimal/moderate support needs, behavior and emotional disorders, or communication disorders. Educators work with children in grades K-12 in a resource-room setting or inclusive setting teaching academic skills.

- For more information about Special Education and Rehabilitation Counseling, see the website.
- Admitted and current students must meet with an academic advisor.
- Log on to Degree Works to check student-specific program progress.
- Students following the recommended schedule should be able to complete degree requirements in four years (eight semesters).
- The highest math requirement for this degree is MATH2020 GEOMETRY/STAT ELED TEACH(QI).

Admission Requirements for this Program

- New freshmen must be admitted to USU in Good Standing.
- Transfer students from other institutions or other programs at USU must have a 2.0 GPA.
- Grade of C+ or better: Communications Literacy **(CL1)** for General Education Requirements (required for program admission; it can also be met with AP ENGL or an ACT score of 30 or higher)
- Grade of C or better in General Education Requirements of Breadth American Institutions **(BAI)**, Breadth Life Sciences **(BLS)**, Breadth Physical Sciences **(BPS)**, HDFS1500 HUMAN DEV LIFESPAN (BSS) (required for program admission).
- Grade of C- or better for General Education Requirements; Quantitative Literacy **(QL)** (required for program admission).

Program Requirements

Total Credits Required In Program Coursework	Total Credits Required To Earn This Credential
64-78	120

Simple Requisites

Program Requirements

Minimum Grade Requirements:

- Grade of B- or better: All SPED and TEAL courses (except SPED1010 DISABILITY AND SOCIETY (BSS), SPED2910 EARLY FIELD EXPERIENCE IN SPED, SPED5230 SPED STUDENT TEACHING (CI), and SPED5900 INDEPENDENT STUDY).
- Grade of C or higher in MATH2010 ALG/NUMER FOR ELED TEACH (QI) and MATH2020 GEOMETRY/STAT ELED TEACH(QI).
- Grade of C- or better: All other courses required for the bachelor's degree
- Courses used to fulfill major requirements may *not* be taken pass/fail, except those courses that are only taught on a pass/fail basis.
- 3.0 GPA required in major coursework

Students are required to earn a grade of "B-" or better in all major courses (HDFS, SPED, TEAL prefixes). Students who receive a grade below "B-" must retake the course. Each student will be allowed to repeat a maximum of one course (course is defined as didactic courses, practica and student teaching). Students who receive two grades below "B-" or withdraw from two practica (or one practica two times) will not be permitted to continue in special education. Student teaching may not be repeated without appeal and approval by the appropriate special education program committee.

Special Education Online Practical Teacher Training (OPTT): Mild/Moderate Emphasis - BA, BS

Type

Completion Requirement

Math Requirements (9-11 credits)

Fulfill ALL of the following requirements:

Quantitative Literacy (QL)

Complete ALL of the following Course Sets:

- Quantitative Literacy (QL) Course

AND

Required Math Requirements

Complete ALL of the following Courses:

- MATH2010 - Algebraic Thinking & Number Sense for Elementary Education School Teachers (QI) - 3cr.
- MATH2020 - Euclidean Geometry & Statistics for Elementary Education School Teachers (QI) - 3cr.

Professional Education (8 credits)

Must be admitted to Special Education before taking ELED3100 CLASSROOM READING INSTRUCTION and TEAL2660 EDUCATIONAL PSYCH FOR TEACHERS. All of courses listed below must be passed with a grade of B- or higher before beginning the next semester of SPED courses.

Complete ALL of the following Courses:

- ELED3100 - Classroom Reading Instruction - 3cr.
- SPED4000 - Education of Students with Disabilities - 3cr.
- TEAL2660 - Educational Psychology for Teachers - 2cr.

Mild/Moderate Specialization (32-44 credits)

Fulfill ALL of the following requirements:

Junior Year Fall:

Complete ALL of the following Courses:

- SPED5011 - Foundations in Special Education: Instructional Strategies, Behavior Management, and IEPs - 2cr.
- SPED5012 - Basic Behavior Management and Instructional Strategies (QI) - 3cr.
- SPED5311 - Reading and Language Arts Interventions for Students with Disabilities - 1cr.
- SPED5415 - Practicum I for Mild/Moderate Disabilities - 3cr.

NOTE:

1. SPED5311 TEACH RDG/LANG ARTS ST W/DIS - Enroll in 3 credits.

AND

Junior Year Spring:

Complete ALL of the following Courses:

- SPED5014 - Foundations in Assessment - 2cr.
- SPED5312 - MM K-12 Math Content, Applications, and Co-Teaching - 3cr.
- SPED5425 - Practicum II for Mild/Moderate Disabilities - 4cr.

AND

Junior Year Summer

Complete ALL of the following Courses:

- SPED5015 - Law/Policies/Procedures - 3cr.

AND

Senior Year Fall:

Complete ALL of the following Courses:

- SPED5013 - Advanced Behavior Management and Instructional Strategies - 3cr.
- SPED5016 - Technology and Collaboration for Teaching Exceptional Learners - 3cr.
- SPED5018 - Eligibility Assessment - 1cr.

AND

Senior Year Spring

Complete ALL of the following Courses:

- SPED5017 - Transition Planning and Collaboration for Exceptional Learners - 3cr.
- SPED5230 - Special Education Student Teaching (CI) - 3cr.

NOTE:

1. SPED5230 SPED STUDENT TEACHING (CI) - **15 credits for first bachelor's; 3 credits for a second bachelor's.**

Teaching Support (15 credits)

Earn at least 15 credits from the following:

- ASL1010 - American Sign Language I - 4cr.
- ELED1010 - Orientation to Elementary Education - 3cr.
- HDFS2400 - Couple and Family Relationships (BSS) - 3cr.
- HDFS2660 - Parenting and Child Guidance - 3cr.

- HDFS3100 - Abuse and Neglect in Family Context - 3cr.
- HEP2000 - First Aid and Emergency Care - 2cr.
- HEP3000 - Drugs and Human Behavior - 3cr.
- PSY1010 - General Psychology (BSS) - 3cr.
- PSY1400 - Analysis of Behavior: Basic Principles - 3cr.
- PSY1410 - Analysis of Behavior: Basic Principles Lab - 1cr.
- REH2060 - Health Promotion for Individuals with Chronic Illness and Disability - 3cr.
- SHS3200 - Child Language Development - 3cr.
- SOC1010 - Introductory Sociology (BSS) - 3cr.
- SPED1010 - Disability and Society (BSS) - 3cr.
- SPED2910 - Early Field Experience in Special Education - 3cr.
- SW1010 - Introduction to Social Welfare (BSS) - 3cr.

NOTE:

1. SPED2910 EARLY FIELD EXPERIENCE IN SPED - Up to six credits.

Open Electives

Complete the following as needed:
Total elective credit is determined by General Education courses taken, degree type selected, additional credits earned, and any additional math or other prerequisite courses needed. Please consult your Academic Advisor for details.

Additional Comments:

Licensure Notification

This program typically leads to licensure and was designed to meet licensing qualifications in the state of Utah. If students wish to work in another state within the United States, they should review the qualifications for that state and the Education Licensure Compliance Table provided by School of Teacher Education and Leadership.

For more information, please contact the School of Teacher Education and Leadership at https://cehs.usu.edu/teal/

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Bachelor's Degree)

Suggested Degree Maps

Degree Map Name
Suggested Degree Map - Special Education Online Practical Teacher Training (OPTT): Mild/Moderate Emphasis BA, BS
Total Degree Map Credits
107 - 122
Degree Map Effective Catalog Year
2027 -

Degree Map Narrative

- Following is a sample four-year plan. Please note that student-specific plans may differ.
- Meet with an academic advisor to create a specific plan that best fits your academic needs.
- The student is ultimately responsible for knowing and completing all degree requirements.
- Make sure you meet the registration requirements for each class by clicking the course link and checking any prerequisites or corequisites.
- Consultation with an advisor may result in an altered plan customized for an individual student.
- Check your Degree Works for requirements and completion.

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	15 - 18	0

Requirement Select
- Communications Literacy (CL1) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Breadth American Institutions (BAI) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Breadth Life Sciences (BLS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Quantitative Literacy (QL) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 5
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	15	0

Requirement Select
- HDFS1500 - Human Development Across the Lifespan (BSS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- MATH2020 - Euclidean Geometry & Statistics for Elementary Education School Teachers (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Breadth Physical Sciences (BPS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Breadth Humanities (BHU) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Teaching Support (3 credits) Suggested Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- SPED2910 - Early Field Experience in Special Education

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Summer	6	0

Requirement Select

- Breadth Creative Arts (BCA) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Teaching Support (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	15	0

Requirement Select

- Apply to the Special Education major by October 1 at https://cehs.usu.edu/sperc/sped/undergrad/admission. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Communications Literacy (CL2) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- MATH2010 - Algebraic Thinking & Number Sense for Elementary Education School Teachers (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Communications Intensive (CI) Courses
  OR
- Communications Intensive (CI) and Depth Course suggested course: SCED 3210 - Educational and Multicultural Foundations (CI/DSS) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Depth Humanities and Creative Arts (DHA) Course
  OR
- Depth Life and Physical Sciences (DSC) Course
  OR
- Depth Social Sciences (DSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Teaching Support Course (3 credits) suggestion: (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- SPED1010 - Disability and Society (BSS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	14	0

Requirement Select

- ELED3100 - Classroom Reading Instruction

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- TEAL2660 - Educational Psychology for Teachers

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select

- SPED4000 - Education of Students with Disabilities

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Teaching Support (3 credits) Course Suggestion: SPED2910 (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Teaching Support (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Summer	6	0

Requirement Select

- Choose a different category for the Depth University Studies. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Depth Social Sciences (DSS) Course
  OR
- Depth Humanities and Creative Arts (DHA) Course
  OR
- Depth Life and Physical Sciences (DSC) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Fall	11	0

Requirement Select
- SPED5011 - Foundations in Special Education: Instructional Strategies, Behavior Management, and IEPs

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select
- SPED5012 - Basic Behavior Management and Instructional Strategies (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- SPED5311 - Reading and Language Arts Interventions for Students with Disabilities

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	1 - 3
Clinical	-
Criticality	No

Requirement Select
- Enroll in 3 credits of SPED5311 (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- SPED5415 - Practicum I for Mild/Moderate Disabilities

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Spring	9	0

Requirement Select
- SPED5014 - Foundations in Assessment

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select
- SPED5312 - MM K-12 Math Content, Applications, and Co-Teaching

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- SPED5425 - Practicum II for Mild/Moderate Disabilities

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Summer	3	0

Requirement Select

- SPED5015 - Law/Policies/Procedures

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Fall	7	0

Requirement Select

- Apply for graduation at https://www.usu.edu/registrar/graduation/ and apply to student teaching by October 1 at https://cehs.usu.edu/sperc/sped/undergrad/student-teaching-info. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- SPED5013 - Advanced Behavior Management and Instructional Strategies

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- SPED5016 - Technology and Collaboration for Teaching Exceptional Learners

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- SPED5018 - Eligibility Assessment

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Spring	6 - 18	0

Requirement Select

- Enroll in 15 credits of SPED 5230 for first bachelors degree or 3 credits for second bachelors degree. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- SPED5017 - Transition Planning and Collaboration for Exceptional Learners

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select	• SPED5230 - Special Education Student Teaching (CI)
Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 15
Progress Credits	-
Contact Hours	3 - 15
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Program Learning Outcomes

Program Learning Outcomes

https://cehs.usu.edu/about/assessment

Special Education: Mild/Moderate & Severe Dual Emphasis - BA, BS

Program Overview

College	Department	Program Level
College of Education & Human Services	Special Education & Rehab Counseling	Undergraduate

About this Degree

The program prepares students to work with individuals who have minimal to moderate support needs and complex support needs. Students are given the opportunity to gain hands-on experience working with local school districts or on-campus programs.

This dual-emphasis prepares graduates to work with students who have high-incidence disabilities, such as learning disabilities, minimal to moderate support needs, behavior and emotional disorders, or communication disorders. Educators work with children in grades K-12 in a resource-room setting or inclusive setting teaching academic skills. This dual-emphasis also prepares graduates to work with students who have low-incidence disabilities, such as intellectual disabilities, physical disabilities, autism spectrum disorder, traumatic and acquired brain injury, and multiple disabilities. Graduates typically teach academic and life skills in a K-12 classroom or in a post-secondary setting (students age 18-21).

- For more information about Special Education and Rehabilitation, see the website.
- Admitted and current students must meet with an academic advisor.
- Log on to Degree Works to check student-specific program progress.
- The highest math requirement for this degree is MATH2020 GEOMETRY/STAT ELED TEACH(QI).

Admission Requirements for this Program

Pre-Special Education Major Admission Requirements

- New freshmen must be admitted to USU in Good Standing.
- Transfer students from other institutions or other programs at USU must have a 2.0 GPA.
- Grade of C+ or better: Communications Literacy **(CL1)** for General Education Requirements (required for program admission; it can also be met with AP ENGL or an ACT score of 30 or higher)
- Grade of C or better: General Education Requirements; **BAI, BLS, BPS**, HDFS1500 HUMAN DEV LIFESPAN (BSS), (required for program admission)
- Grade of C- or better in Quantitative Literacy (QL) required for program admission)

Program Requirements

Total Credits Required In Program Coursework	Total Credits Required To Earn This Credential
70-72	120

Simple Requisites

Program Requirements

Minimum Grade Requirements:

- Grade of B- or better: All SPED, TEAL and ELED courses (except SPED1010 DISABILITY AND SOCIETY (BSS), SPED2910 EARLY FIELD EXPERIENCE IN SPED, SPED5200 STUDENT TEACHING (CI), SPED5900 INDEPENDENT STUDY)
- Grade of C or better in MATH2010 ALG/NUMER FOR ELED TEACH (QI) and MATH2020 GEOMETRY/STAT ELED TEACH(QI)
- Grade of C- or better: All other courses required for the bachelor's degree
- Courses used to fulfill major requirements may not be taken pass/fail, except those courses that are only taught on a pass/fail basis.
- 3.0 GPA required in major coursework
- For Bachelor of Arts (BA) degree see Undergraduate Academic Credential Requirements for language requirements.

Students are required to earn a grade of "B-" or better in all major courses (SPED, TEAL, ELED prefixes). Students who receive a grade below "B-" must retake the course. Each student will be allowed to repeat a maximum of one course (course is defined as didactic courses, practica and student teaching). Students who receive two grades below "B-" or withdraw from two practica (or one practica two times) will not be permitted to continue in special education. Student teaching may not be repeated without appeal and approval by the appropriate special education program committee.

Special Education: Mild/Moderate & Severe Dual Emphasis - BA, BS

Type

Completion Requirement

Math Requirements (9-11 credits)

Fulfill ALL of the following requirements:

Quantitative Literacy (QL)

Complete ALL of the following Course Sets:

- Quantitative Literacy (QL) Course

AND

Courses

Complete ALL of the following Courses:

- MATH2010 - Algebraic Thinking & Number Sense for Elementary Education School Teachers (QI) - 3cr.
- MATH2020 - Euclidean Geometry & Statistics for Elementary Education School Teachers (QI) - 3cr.

Professional Education (14 credits)

Complete ALL of the following Courses:

- ELED3100 - Classroom Reading Instruction - 3cr.
- SPED4000 - Education of Students with Disabilities - 3cr.
- SPED5030 - Assessment in Special Education - 2cr.
- SPED5040 - Foundations of Effective Instructional Practices - 4cr.
- TEAL2660 - Educational Psychology for Teachers - 2cr.

Mild/Moderate & Severe Specializations (40 credits)

Fulfill ALL of the following requirements:

Spring:

Complete ALL of the following Courses:

- SPED5010 - Applied Behavioral Analysis 1: Principles, Assessment, and Analysis (QI) - 3cr.
- SPED5070 - Policies, Procedures, and Collaboration in Special Education - 3cr.
- SPED5310 - Teaching Reading and Language Arts to Students with Disabilities - 1cr.
- SPED5340 - Teaching Math to Students with Mild/Moderate Disabilities - 3cr.
- SPED5410 - Practicum I (Elementary) for Mild/Moderate Disabilities - 3cr.
- SPED5510 - Curriculum and Assessment for Students with Severe Disabilities I - 2cr.

NOTE:

1. SPED5310 TEACH READ/LANG ARTS ST W/DIS 0 Enroll in 4 credits.

AND

Fall:

Complete ALL of the following Courses:

- SPED5050 - Applied Behavioral Analysis 2: Applications - 3cr.
- SPED5080 - Transition-Focused Education and Collaboration - 2cr.
- SPED5520 - Curriculum and Assessment for Students with Severe Disabilities II - 3cr.
- SPED5530 - Family/Professional Collaboration and Technology for Teaching Exceptional Learners - 3cr.
- SPED5610 - Practicum II Severe - 2cr.

AND

Spring:

Complete ALL of the following Courses:

- SPED5200 - Student Teaching in Special Education (CI) - 3cr.

NOTE:

1. SPED5200 STUDENT TEACHING (CI) - Enroll in 15 credits.

Additional Course Requirements (3 credits)

Complete ALL of the following Courses:

- HDFS1500 - Human Development Across the Lifespan (BSS) - 3cr.

Open Electives

Complete the following as needed:

Total elective credit is determined by General Education courses taken, degree type selected, additional credits earned, and any additional math or other prerequisite courses needed. Please consult your Academic Advisor for details.

Additional Comments:

Licensure Notification

This program typically leads to licensure and was designed to meet licensing qualifications in the state of Utah. If students wish to work in another state within the United States, they should review the qualifications for that state and the Education Licensure Compliance Table provided by School of Teacher Education and Leadership.

For more information, please contact the School of Teacher Education and Leadership at https://cehs.usu.edu/teal/.

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Bachelor's Degree)

Suggested Degree Maps

Degree Map Name
Suggested Degree Map - Special Education: Mild/Moderate & Severe Dual Emphasis BA, BS
Total Degree Map Credits
124 - 127
Degree Map Effective Catalog Year
2027 -

Degree Map Narrative

- Following is a sample four-year plan. Please note that student-specific plans may differ.
- Meet with an academic advisor to create a specific plan that best fits your academic needs.
- The student is ultimately responsible for knowing and completing all degree requirements.
- Make sure you meet the registration requirements for each class by clicking the course link and checking any prerequisites or corequisites.
- Consultation with an advisor may result in an altered plan customized for an individual student.
- Check your Degree Works for requirements and completion.

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	14 - 17	0

Requirement Select
- Communications Literacy (CL1) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Breadth Life Sciences (BLS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Breadth American Institutions (BAI) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Quantitative Literacy (QL) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 5
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective: Suggested course: USU 1010 - University Connections (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	15	0

Requirement Select

- HDFS1500 - Human Development Across the Lifespan (BSS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- MATH2020 - Euclidean Geometry & Statistics for Elementary Education School Teachers (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Breadth Physical Sciences (BPS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- SPED1010 - Disability and Society (BSS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Elective (1 credit) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	15	0

Requirement Select

- Communications Literacy (CL2) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- MATH2010 - Algebraic Thinking & Number Sense for Elementary Education School Teachers (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Breadth Creative Arts (BCA) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Elective (1 credit) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- SPED2910 - Early Field Experience in Special Education

Course Requirement Group	
Course Requirement Group (Free Text)	Suggested elective credit
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	15	0

Requirement Select

- Apply to the Special Education major by February 1 at https://cehs.usu.edu/sperc/sped/undergrad/admission. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Suggested Elective: ASL1010 (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Depth Life and Physical Sciences (DSC) Course
  OR
- Depth Humanities and Creative Arts (DHA) Course
  OR
- Depth Social Sciences (DSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Different Category of University Studies. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Depth Life and Physical Sciences (DSC) Course
  OR
- Depth Humanities and Creative Arts (DHA) Course
  OR
- Depth Social Sciences (DSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Elective credit (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Breadth Humanities (BHU) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Fall	14	0

Requirement Select
- ELED3100 - Classroom Reading Instruction

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- SPED4000 - Education of Students with Disabilities

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- SPED5030 - Assessment in Special Education

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select
- SPED5040 - Foundations of Effective Instructional Practices

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- TEAL2660 - Educational Psychology for Teachers

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Spring	18	0

Requirement Select
- SPED5010 - Applied Behavioral Analysis 1: Principles, Assessment, and Analysis (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- SPED5070 - Policies, Procedures, and Collaboration in Special Education

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- SPED5310 - Teaching Reading and Language Arts to Students with Disabilities

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	1 - 4
Clinical	-
Criticality	No

Requirement Select

- SPED5510 - Curriculum and Assessment for Students with Severe Disabilities I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select

- SPED5340 - Teaching Math to Students with Mild/ Moderate Disabilities

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- SPED5410 - Practicum I (Elementary) for Mild/Moderate Disabilities

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Fall	18	0

Requirement Select

- Apply to student teaching by October 1 at https://cehs.usu.edu/sperc/sped/undergrad/student-teaching-info and apply for graduation at https://www.usu.edu/registrar/graduation/. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- SPED5050 - Applied Behavioral Analysis 2: Applications

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- SPED5080 - Transition-Focused Education and Collaboration

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select

- SPED5420 - Practicum II (Secondary) for Mild/Moderate Disabilities

Course Requirement Group	
Course Requirement Group (Free Text)	Enroll in 4 credits.
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	3 - 4
Clinical	-
Criticality	No

Requirement Select

- SPED5520 - Curriculum and Assessment for Students with Severe Disabilities II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- SPED5530 - Family/Professional Collaboration and Technology for Teaching Exceptional Learners

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- SPED5610 - Practicum II Severe

Course Requirement Group	
Course Requirement Group (Free Text)	Enroll in 3 credits.
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	2 - 3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Spring	15	0

Requirement Select

- SPED5200 - Student Teaching in Special Education (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	15
Progress Credits	-
Contact Hours	3 - 15
Clinical	-
Criticality	No

Total General Education Credits	Total Major Credits
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Program Learning Outcomes

Program Learning Outcomes

https://cehs.usu.edu/about/assessment

Special Education - MS

Program Overview

College	Department	Program Level
College of Education & Human Services	Special Education & Rehab Counseling	Graduate

About this Degree

Program Contact:

Kris Wengreen, Graduate Program Coordinator (GPC), kris.wengreen@usu.edu, 435-797-3246

Program Description:

The Master of Science degree program is designed for persons who desire a graduate program that will help them improve their competencies as educators while also gaining expertise in educational research. This includes school personnel, as well as individuals who are involved in education-related activities across a variety of community, work, and clinical settings. The MS degree focuses on acquiring the knowledge and skills needed to evaluate and conduct educational research, improving instruction and management practices, implementing legal requirements, professional collaboration, and translating research into practice.

Admission Requirements for this Program

Online application, application fee, official transcripts, 3 letters of recommendation, statement of purpose, and resume.

Additional information about the Special Education MS program may be obtained by contacting the Department of Special Education and Rehabilitation Counseling or by visiting the program website at https://cehs.usu.edu/sperc/sped/masters/master-of-science

Program Requirements

Total Credits Required In Program Coursework	Total Credits Required To Earn This Credential
30	30-36

Simple Requisites

Program Requirements

Program Requirements:

All candidates must complete a thesis project. A minimum of 30-36 credits (depending on the specific program), including a thesis project is required for the MS degree. Students in the SPED MS Program are not required to complete a particular area of specialization but are encouraged to fill their required elective credits with courses that align with their particular interests. Students in the SPED MS with Applied Behavior Analysis (ABA) focus must complete a required course sequence (no elective credits).

All master's students are required to enroll in courses that support their area(s) of interest. Courses may either be taken in the Department of Special Education and Rehabilitation Counseling or in other departments. Coursework taken post bachelor's degree can be applied from licensure or endorsement areas such as:

- Administrative/Supervisory
- Dual Sensory Impairments
- Early Childhood
- English as a Second Language
- Mild/Moderate
- Reading
- Severe Disabilities

Coursework can be applied from a single program or accrued across departments such as:

- Elementary Education
- Family and Human Development
- Instructional Technology
- Program Evaluation
- Psychology
- Secondary Education
- Sociology or Social Work

For more specific information, please visit the department's website: https://cehs.usu.edu/sperc/sped/masters/master-of-science.

Degree Requirements

- A bachelor's degree from an accredited U.S. college or university or a similarly recognized international university is required for admission to and completion of a graduate program.
- Graduate students are required to maintain at least a 3.0 GPA for degree-program courses. Grades of C- or lower will not be accepted for a graduate degree.
- The Program of Study for a master's degree must include at least 15 semester credits at the level of 6000 or above.The program of study for a master's degree cannot include more than 12 semester credits of courses at the 5000 level. Credits in the following areas are not acceptable in a degree program: foreign languages (unless included in an approved Program of Study), continuing graduate advisement, individual home study, military science, and courses numbered below 5000.
- Coursework Validity: Coursework over eight years old at the time of degree completion may not be used for a graduate degree unless it is revalidated by the Vice Provost of Graduate Studies.
- Approval of academic forms required for master's students by the School of Graduate Studies.
- Successful defense and submission of the project to the library.

Master's forms:

- Supervisory Committee Form
- Program of Study
- Thesis Proposal Approval
- Appointment for Exam
- Authorship & Copyright
- Format and Style
- Title Page
- Graduation Application

M.S. with Applied Behavior Analysis Coursework

In the M.S. with Applied Behavior Analysis (ABA) concentration, students complete coursework that meets eligibility requirements to take the Behavior Analyst Certification Board Exam. Individuals already possessing a master's degree can apply to take only the ABA courses. Students will gain valuable conceptual knowledge and clinical and research experience that will strengthen their professional skills and/or prepare them for further graduate study. For more specific information, please visit the department's website: https://cehs.usu.edu/sperc/sped/masters/ms-with-aba

MS Transition Concentration

The Master of Science Transition Concentration degree program will prepare special education teachers licensed at the bachelor's level and other eligible graduate students to (a) provide transition services preparing individuals with disabilities for adult living, and (b) support and monitor individuals with disabilities in post-secondary education and supported/competitive employment. Students will take "core" master's courses along with transition-related courses.

Special Education - MS (30-36 credits)

Type
Completion Requirement

Special Education MS Core Courses

Complete ALL of the following Courses:

- SPED6060 - Legal Issues in Special Education - 3cr.
- SPED6700 - Introduction to Behavioral Research in Education - 3cr.
- SPED6720 - Educational Applications of Behavior Analysis I - 3cr.
- SPED6770 - Coaching and Systems Change - 3cr.
- SPED6970 - Thesis - 1cr.

NOTE:

SPED6970 THESIS - Minimum of 6 Thesis credits required. May be completed in one semester or spread across multiple semesters.

SPED MS - No Specialization (36 total credits)

All SPED MS (no specialization required) must complete these core courses.

Complete ALL of the following Courses:

- SPED6300 - Effective Practices with Culturally and Linguistically Diverse Populations - 3cr.
- SPED6900 - Independent Study - 1cr.

• Elective credits approved by advisor- 12 credit(s)

NOTE:

SPED6900 INDEPENDENT STUDY - Enroll in 3 credits.

SPED MS with ABA Coursework (30 total credits)

Complete ALL of the following Courses:

- SPED6710 - Concepts and Principles of Behavior Analysis in Education - 3cr.
- SPED6730 - Educational Applications of Behavior Analysis II - 3cr.
- SPED6780 - Ethics & Professional Behavior in Behavior Analysis - 3cr.
- SPED6790 - Special Topics - 1cr.

NOTE:

1. SPED6790 SPECIAL TOPICS - enroll in ST: Conceptual Framework of Beh Analysis/Exper Beh Analysis

Program Learning Outcomes

Program Learning Outcomes
https://cehs.usu.edu/about/assessment

Special Education: Severe & Birth to 5 Dual Emphasis - BA, BS

Program Overview

College	Department	Program Level
College of Education & Human Services	Special Education & Rehab Counseling	Undergraduate

About this Degree

The program prepares students to work with individuals who have complex support needs, as well as young children with disabilities. Students are allowed to gain hands-on experience working with local school districts or on-campus programs. This dual emphasis prepares graduates to work with children ages birth to five years who have disabilities. Children ages birth to three years are typically served by early intervention programs in their homes. Children three to five years old are taught in public preschool settings within local school districts. Students in this emphasis combine this emphasis with the complex support needs emphasis. This dual emphasis also prepares graduates to work with students who have low-incidence disabilities, such as intellectual disabilities, physical disabilities, autism spectrum disorder, traumatic and acquired brain injury, and multiple disabilities. Graduates typically teach academic and life skills in a K-12 classroom or in a post-secondary setting (students aged 18-21).

- For more information about Special Education and Rehabilitation Counseling, see the department website.
- Admitted and current students must meet with an academic advisor.
- Log on to Degree Works to check student-specific program progress.
- Students following the recommended schedule should be able to complete degree requirements in four years (eight semesters).
- The highest math requirement for this degree is MATH2020 GEOMETRY/STAT ELED TEACH(QI).

Admission Requirements for this Program

Pre-Special Education Major Admission Requirements

- New freshmen must be admitted to USU in Good Standing.
- Transfer students from other institutions or other programs at USU must have a 2.0 GPA.
- Grade of C+ or better: for Communications Literacy **(CL1)** General Education Requirements (required for program admission; it can also be met with AP ENGL or an ACT score of 30 or higher)
- Grade of C or better: General Education Requirements (Breadth American Institutions **(BAI)**, Breadth Life Sciences **(BLS)**, Breadth Physical Sciences **(BPS)**, HDFS1500 HUMAN DEV LIFESPAN (BSS) (required for program admission)
- Grade of C- or better in Quantitative Literacy (QL) (required for program admission)

Program Requirements

Total Credits Required In Program Coursework	Total Credits Required To Earn This Credential
88-90	124

Simple Requisites

Program Requirements

Minimum Grade Requirements:

- Grade of B- or better: All other HDFS, SPED, TEAL courses courses (except SPED1010 DISABILITY AND SOCIETY (BSS), SPED2910 EARLY FIELD EXPERIENCE IN SPED, SPED5200 STUDENT TEACHING (CI), and SPED5900 INDEPENDENT STUDY).
- Grade of C or better in MATH2010 ALG/NUMER FOR ELED TEACH (QI) and MATH2020 GEOMETRY/STAT ELED TEACH(QI)
- Grade of C- or better in all other courses required for the bachelor's degree
- Courses used to fulfill major requirements may not be taken pass/fail, except those courses that are only taught on a pass/fail basis.
- 3. 0 GPA required in major coursework

Students are required to earn a grade of "B-" or better in all major courses (SPED, TEAL, ELED prefixes). Students who receive a grade below "B-" must retake the course. Each student will be allowed to repeat a maximum of one course (course is defined as didactic courses, practica and student teaching). Students who receive two grades below "B-" or withdraw from two practica (or one practica two times) will not be permitted to continue in special education. Student teaching may not be repeated without appeal and approval by the appropriate special education program committee.

Special Education: Severe & Birth to 5 Dual Emphasis - BA, BS

Type

Completion Requirement

Math Requirements (9-11 credits)

Fulfill ALL of the following requirements:

Quantitative Literacy (QL)

Complete ALL of the following Course Sets:

- Quantitative Literacy (QL) Course

AND

Courses

Complete ALL of the following Courses:

- MATH2010 - Algebraic Thinking & Number Sense for Elementary Education School Teachers (QI) - 3cr.
- MATH2020 - Euclidean Geometry & Statistics for Elementary Education School Teachers (QI) - 3cr.

Professional Education (14 credits)

Students must be officially admitted to the Special Education program before taking any Professional Education or Specialization Coursework.

Earn at least 14 credits from the following:

- ELED3100 - Classroom Reading Instruction - 3cr.
- HDFS2600 - Seminar in Early Childhood Education - 2cr.
- HDFS2630 - Early Childhood Education Practicum - 2cr.
- HDFS3500 - Infancy and Childhood - 3cr.
- SPED4000 - Education of Students with Disabilities - 3cr.
- SPED5030 - Assessment in Special Education - 2cr.
- SPED5040 - Foundations of Effective Instructional Practices - 4cr.
- SPED5920 - Internship in Early Intervention - 1cr.

Severe & Birth to Five Specializations (65 credits)

Fulfill ALL of the following requirements:

Junior Spring (14 credits)

Complete ALL of the following Courses:

- SPED5010 - Applied Behavioral Analysis 1: Principles, Assessment, and Analysis (QI) - 3cr.
- SPED5070 - Policies, Procedures, and Collaboration in Special Education - 3cr.
- SPED5310 - Teaching Reading and Language Arts to Students with Disabilities - 1cr.
- SPED5510 - Curriculum and Assessment for Students with Severe Disabilities I - 2cr.
- SPED5600 - Practicum I Severe - 3cr.

NOTE:

1. SPED5310 TEACH READ/LANG ARTS ST W/DIS - Enroll in 2 credits.
2. SPED5600 PRACTICUM I SEVERE - Enroll in 3 credits.

AND

Senior Fall (18 credits)

Complete ALL of the following Courses:

- SPED5050 - Applied Behavioral Analysis 2: Applications - 3cr.
- SPED5080 - Transition-Focused Education and Collaboration - 2cr.
- SPED5520 - Curriculum and Assessment for Students with Severe Disabilities II - 3cr.
- SPED5530 - Family/Professional Collaboration and Technology for Teaching Exceptional Learners - 3cr.
- SPED5610 - Practicum II Severe - 2cr.
- SPED5730 - Intervention Strategies for Young Children with Disabilities - 3cr.
- SPED5820 - Preschool Practicum with Young Children with Disabilities in Community Environments - 2cr.

NOTE:

1. SPED5610 PRACTICUM II SEVERE - Enroll in 2 credits.
2. SPED5820 PRESCHOOL PRACT W/DISABILITIES - Enroll in 2 credits.

AND

Senior Spring (18 credits)

Complete ALL of the following Courses:

- SPED5710 - Young Children with Disabilities: Characteristics and Services - 3cr.
- SPED5810 - Seminar and Field Experiences with Infants and Families - 4cr.
- SPED5840 - Practicum: Working with Young Children with Autism - 1cr.

AND

Student Teaching (15 credits)

Complete ALL of the following Courses:

- SPED5200 - Student Teaching in Special Education (CI) - 3cr.

NOTE:

1. SPED5200 STUDENT TEACHING (CI) - Enroll in 15 credits.

Open Electives

Complete the following as needed:
Total elective credit is determined by General Education courses taken, degree type selected, additional credits earned, and any additional math or other prerequisite courses needed. Please consult your Academic Advisor for details.

Additional Comments:

Licensure Notification

This program typically leads to licensure and was designed to meet licensing qualifications in the state of Utah. If students wish to work in another state within the United States, they should review the qualifications for that state and the Education Licensure Compliance Table provided by School of Teacher Education and Leadership.

For more information, please contact the School of Teacher Education and Leadership at https://cehs.usu.edu/teal/.

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Bachelor's Degree)

Suggested Degree Maps

Degree Map Name
Suggested Degree Map - Special Education: Severe & Birth to 5 Dual Emphasis BA, BS
Total Degree Map Credits
120 - 121
Degree Map Effective Catalog Year
2027 -

Degree Map Narrative

- Following is a sample four-year plan. Please note that student-specific plans may differ.
- Meet with an academic advisor to create a specific plan that best fits your academic needs.
- The student is ultimately responsible for knowing and completing all degree requirements.
- Make sure you meet the registration requirements for each class by clicking the course link and checking any prerequisites or corequisites.
- Consultation with an advisor may result in an altered plan customized for an individual student.
- Check your Degree Works for requirements and completion.

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	11 - 12	0

Requirement Select
- Communications Literacy (CL1) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Quantitative Literacy (QL) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Breadth Life Sciences (BLS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Electives (need 2 credits for semester) suggested course: USU 1010 (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	12	0

Requirement Select

- HDFS1500 - Human Development Across the Lifespan (BSS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- MATH2020 - Euclidean Geometry & Statistics for Elementary Education School Teachers (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Breadth Physical Sciences (BPS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Breadth American Institutions (BAI) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	12	0

Requirement Select

- Communications Literacy (CL2) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- MATH2010 - Algebraic Thinking & Number Sense for Elementary Education School Teachers (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Breadth Humanities (BHU) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Breadth Creative Arts (BCA) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	12	0

Requirement Select

- Apply to the Special Education major by February 1 at https://cehs.usu.edu/sperc/sped/undergrad/admission. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Depth Social Sciences (DSS) Course
  OR
- Depth Humanities and Creative Arts (DHA) Course
  OR
- Depth Life and Physical Sciences (DSC) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Depth Humanities and Creative Arts (DHA) Course
  OR
- Depth Life and Physical Sciences (DSC) Course
  OR
- Depth Social Sciences (DSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	Select a different category of depth class.
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- SPED4000 - Education of Students with Disabilities

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Teaching Support Suggested Course: ASL1010 (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Fall	16	0

Requirement Select

- ELED3100 - Classroom Reading Instruction

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- HDFS3500 - Infancy and Childhood

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- SPED5030 - Assessment in Special Education

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select

- SPED5040 - Foundations of Effective Instructional Practices

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- HDFS2600 - Seminar in Early Childhood Education

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select

- HDFS2605 - Early Childhood Education Practicum

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Spring	13	0

Requirement Select

- SPED5010 - Applied Behavioral Analysis 1: Principles, Assessment, and Analysis (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- SPED5070 - Policies, Procedures, and Collaboration in Special Education

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- SPED5310 - Teaching Reading and Language Arts to Students with Disabilities

Course Requirement Group	
Course Requirement Group (Free Text)	Enroll in 2 credits of SPED5310
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	1 - 4
Clinical	-
Criticality	No

Requirement Select

- SPED5510 - Curriculum and Assessment for Students with Severe Disabilities I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select
- SPED5600 - Practicum I Severe

Course Requirement Group	
Course Requirement Group (Free Text)	Enroll in 3 credits of SPED5600
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Fall	18	0

Requirement Select
- SPED5050 - Applied Behavioral Analysis 2: Applications

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- SPED5080 - Transition-Focused Education and Collaboration

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select
- SPED5520 - Curriculum and Assessment for Students with Severe Disabilities II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- SPED5530 - Family/Professional Collaboration and Technology for Teaching Exceptional Learners

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- SPED5610 - Practicum II Severe

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2 - 3
Clinical	-
Criticality	No

Requirement Select
- SPED5730 - Intervention Strategies for Young Children with Disabilities

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- SPED5820 - Preschool Practicum with Young Children with Disabilities in Community Environments

Course Requirement Group	
Course Requirement Group (Free Text)	Enroll in 2 credits of SPED5820
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2 - 3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Spring	11	0

Requirement Select

- Apply to student teaching by March 1 at https://cehs.usu.edu/sperc/sped/undergrad/student-teaching-info and apply for graduation at https://www.usu.edu/registrar/graduation/. (Generic) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- SPED5710 - Young Children with Disabilities: Characteristics and Services

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- SPED5840 - Practicum: Working with Young Children with Autism

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- SPED5810 - Seminar and Field Experiences with Infants and Families

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- Teaching Support (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 5	Fall	15	0

Requirement Select

- SPED5200 - Student Teaching in Special Education (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	Enroll in 15 credits of SPED5200
Minimum Grade	-
Area	-
Actual Credits	15
Progress Credits	-
Contact Hours	3 - 15
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Program Learning Outcomes

Program Learning Outcomes

https://cehs.usu.edu/about/assessment

Special Education: Severe Emphasis - BA, BS

Program Overview

College
College of Education & Human Services

Department
Special Education & Rehab Counseling

Program Level
Undergraduate

About this Degree

This program prepares students to work with individuals who have complex support needs. Students are given the opportunity to gain hands-on experience working with local school districts or on-campus programs.

Severe Emphasis: This emphasis prepares graduates to work with students who have low-incidence disabilities, such as intellectual disabilities, physical disabilities, autism spectrum disorder, traumatic and acquired brain injury, and multiple disabilities. Graduates typically teach academic and life skills in a K-12 classroom or in a post-secondary setting (students age 18-21).

- For more information about Special Education and Rehabilitation, see the website.
- Admitted and current students must meet with an academic advisor.
- Log on to Degree Works to check student-specific program progress.
- Students following the recommended schedule should be able to complete degree requirements in four years (eight semesters).
- The highest math requirement for this degree is MATH2020 GEOMETRY/STAT ELED TEACH(QI).

***Dual licensure programs are available on the Logan Main Campus for Special Education Severe Emphasis majors within special education with mild/moderate and birth to 5 emphases or with elementary education or secondary education content majors in the School of TEAL See website for more information.*

Admission Requirements for this Program

Pre-Special Education Major Admission Requirements

- New freshmen must be admitted to USU in Good Standing.
- Transfer students from other institutions or other programs at USU must have a 2.0 GPA.
- Grade of C+ or better: for Communications Literacy **(CL1)** General Education Requirements (required for program admission; it can also be met with AP ENGL or an ACT score of 30 or higher).
- Grade of C or better: General Education Requirements (Breadth American Institutions **(BAI)**, Breadth Life Sciences **(BLS)**, Breadth Physical Sciences **(BPS)**, HDFS1500 HUMAN DEV LIFESPAN (BSS) (required for program admission).
- Grade of C- or better in Quantitative Literacy (QL) (required for program admission).

Program Requirements

Total Credits Required In Program Coursework
79-81

Total Credits Required To Earn This Credential
120

Simple Requisites

Program Requirements

Minimum Grade Requirements:

- Grade of B- or better: All other HDFS, SPED, TEAL courses courses (except SPED1010 DISABILITY AND SOCIETY (BSS), SPED2910 EARLY FIELD EXPERIENCE IN SPED, SPED5200 STUDENT TEACHING (CI), and SPED5900 INDEPENDENT STUDY).
- Grade of C or better in MATH2010 ALG/NUMER FOR ELED TEACH (QI) and MATH2020 GEOMETRY/STAT ELED TEACH(QI)
- Grade of C- or better in all other courses required for the bachelor's degree
- Courses used to fulfill major requirements may not be taken pass/fail, except those courses that are only taught on a pass/fail basis.
- 3. 0 GPA required in major coursework

Students are required to earn a grade of "B-" or better in all major courses (SPED, TEAL, ELED prefixes). Students who receive a grade below "B-" must retake the course. Each student will be allowed to repeat a maximum of one course (course is defined as didactic courses, practica and student teaching). Students who receive two grades below "B-" or withdraw from two practica (or one practica two times) will not be permitted to continue in special education. Student teaching may not be repeated without appeal and approval by the appropriate special education program committee.

Special Education: Severe Emphasis - BA, BS

Type
Completion Requirement

Math Requirements (9-11 credits)

Fulfill ALL of the following requirements:

Quantitative Literacy (QL)

Complete ANY of the following Course Sets:

- Quantitative Literacy (QL) Course

AND

Math Courses

Complete ALL of the following Courses:

- MATH2010 - Algebraic Thinking & Number Sense for Elementary Education School Teachers (QI) - 3cr.
- MATH2020 - Euclidean Geometry & Statistics for Elementary Education School Teachers (QI) - 3cr.

Junior Fall: Professional Education (14 credits)

Complete ALL of the following Courses:

- ELED3100 - Classroom Reading Instruction - 3cr.
- SPED4000 - Education of Students with Disabilities - 3cr.
- SPED5030 - Assessment in Special Education - 2cr.
- SPED5040 - Foundations of Effective Instructional Practices - 4cr.
- TEAL2660 - Educational Psychology for Teachers - 2cr.

Severe Specialization (41 credits)

Fulfill ALL of the following requirements:

Junior Spring (13 credits)

Complete ALL of the following Courses:

- SPED5010 - Applied Behavioral Analysis 1: Principles, Assessment, and Analysis (QI) - 3cr.
- SPED5070 - Policies, Procedures, and Collaboration in

Special Education - 3cr.
- SPED5310 - Teaching Reading and Language Arts to Students with Disabilities - 1cr.
- SPED5510 - Curriculum and Assessment for Students with Severe Disabilities I - 2cr.
- SPED5600 - Practicum I Severe - 3cr.

NOTE:

1. SPED5310 TEACH READ/LANG ARTS ST W/DIS - Enroll in 2 credits.

AND

Senior Fall (13 credits)

Complete ALL of the following Courses:
- SPED5050 - Applied Behavioral Analysis 2: Applications - 3cr.
- SPED5080 - Transition-Focused Education and Collaboration - 2cr.
- SPED5520 - Curriculum and Assessment for Students with Severe Disabilities II - 3cr.
- SPED5530 - Family/Professional Collaboration and Technology for Teaching Exceptional Learners - 3cr.
- SPED5610 - Practicum II Severe - 2cr.

AND

Student Teaching (15 credits)

Complete ALL of the following Courses:
- SPED5200 - Student Teaching in Special Education (CI) - 3cr.

NOTE:

1. SPED5200 STUDENT TEACHING (CI) - Enroll in 15 credits.

Teaching Support (15 credits)

Fulfill ANY of the following requirements:

Complete ANY of the following Courses:
- ASL1010 - American Sign Language I - 4cr.
- ELED1010 - Orientation to Elementary Education - 3cr.
- HDFS2400 - Couple and Family Relationships (BSS) - 3cr.
- HDFS2660 - Parenting and Child Guidance - 3cr.
- HEP3000 - Drugs and Human Behavior - 3cr.
- PSY1400 - Analysis of Behavior: Basic Principles - 3cr.
- PSY1010 - General Psychology (BSS) - 3cr.
- PSY1410 - Analysis of Behavior: Basic Principles Lab - 1cr.
- REH2060 - Health Promotion for Individuals with Chronic Illness and Disability - 3cr.
- SOC1010 - Introductory Sociology (BSS) - 3cr.
- SPED1010 - Disability and Society (BSS) - 3cr.
- SPED2910 - Early Field Experience in Special Education - 3cr.
- SW1010 - Introduction to Social Welfare (BSS) - 3cr.

NOTE:

1. SPED2910 EARLY FIELD EXPERIENCE IN SPED - Up to 6 credits.

Open Electives

Complete the following as needed:
Total elective credit is determined by General Education courses taken, degree type selected, additional credits earned, and any additional math or other prerequisite courses needed. Please consult your Academic Advisor for details.

Additional Comments:

Licensure Notification

This program typically leads to licensure and was designed to meet licensing qualifications in the state of Utah. If students wish to work in another state within the United States, they should review the qualifications for that state and the Education Licensure Compliance Table provided by School of Teacher Education and Leadership.

For more information, please contact the School of Teacher Education and Leadership at https://cehs.usu.edu/teal/

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Bachelor's Degree)

Suggested Degree Maps

Degree Map Name
Suggested Degree Map - Special Education: Severe Emphasis BA, BS
Total Degree Map Credits
118 - 120
Degree Map Effective Catalog Year
2027 -

Degree Map Narrative

- Following is a sample four-year plan. Please note that student-specific plans may differ.
- Meet with an academic advisor to create a specific plan that best fits your academic needs.
- The student is ultimately responsible for knowing and completing all degree requirements.
- Make sure you meet the registration requirements for each class by clicking the course link and checking any prerequisites or corequisites.
- Consultation with an advisor may result in an altered plan customized for an individual student.
- Check your Degree Works for requirements and completion.

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	14 - 15	0

Requirement Select

- Communications Literacy (CL1) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Quantitative Literacy (QL) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Elective (suggested Course: USU 1010 - University Connections) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Breadth American Institutions (BAI) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Breadth Life Sciences (BLS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	15	0

Requirement Select

- HDFS1500 - Human Development Across the Lifespan (BSS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- MATH2020 - Euclidean Geometry & Statistics for Elementary Education School Teachers (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Breadth Physical Sciences (BPS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Teaching Support Course (suggested: SPED 1010 - Disability and Society (BSS) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Teaching Support Course (Suggested: ELED 1010 - Orientation to Elementary Education) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	15	0

Requirement Select

- Communications Literacy (CL2) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- MATH2010 - Algebraic Thinking & Number Sense for Elementary Education School Teachers (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Teaching Support Course (Suggested: SPED 2910 - Early Field Experience in Special Education) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Breadth Creative Arts (BCA) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Elective (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	15	0

Requirement Select

- Apply to the Special Education major by February 1 at https://cehs.usu.edu/sperc/sped/undergrad/admission. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Breadth Humanities (BHU) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Teaching Support Suggested Course: ASL1010 (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Teaching Support (3 credits) Suggested Course: HDFS 2660 (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Depth Life and Physical Sciences (DSC) Course
  OR
- Depth Social Sciences (DSS) Course
  OR
- Depth Humanities and Creative Arts (DHA) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Enroll in a different category of University Studies. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Depth Life and Physical Sciences (DSC) Course
  OR
- Depth Social Sciences (DSS) Course
  OR
- Depth Humanities and Creative Arts (DHA) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Fall	15	0

Requirement Select

- SPED4000 - Education of Students with Disabilities

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- SPED5030 - Assessment in Special Education

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select

- SPED5040 - Foundations of Effective Instructional Practices

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- ELED3100 - Classroom Reading Instruction

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- TEAL2660 - Educational Psychology for Teachers

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select

- Eelctive (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Spring	15	0

Requirement Select

- SPED5010 - Applied Behavioral Analysis 1: Principles, Assessment, and Analysis (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- SPED5070 - Policies, Procedures, and Collaboration in Special Education

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Enroll in 2 credits of SPED5310 (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- SPED5310 - Teaching Reading and Language Arts to Students with Disabilities

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	1 - 4
Clinical	-
Criticality	No

Requirement Select

- SPED5510 - Curriculum and Assessment for Students with Severe Disabilities I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select

- Enroll in 3 credits of SPED5600 (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- SPED5600 - Practicum I Severe

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Electives (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Fall	14 - 15	0

Requirement Select

- Apply for graduation at https://www.usu.edu/registrar/graduation/ and apply to student teaching by October 1 at https://cehs.usu.edu/sperc/sped/undergrad/student-teaching-info. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- SPED5050 - Applied Behavioral Analysis 2: Applications

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- SPED5080 - Transition-Focused Education and Collaboration

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select

- SPED5520 - Curriculum and Assessment for Students with Severe Disabilities II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- SPED5530 - Family/Professional Collaboration and Technology for Teaching Exceptional Learners

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- SPED5610 - Practicum II Severe

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2 - 3
Progress Credits	-
Contact Hours	2 - 3
Clinical	-
Criticality	No

Requirement Select

- Elective (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Spring	15	0

Requirement Select

- Enroll in 15 credits of SPED5200. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- SPED5200 - Student Teaching in Special Education (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	15
Progress Credits	-
Contact Hours	3 - 15
Clinical	-
Criticality	No

Total General Education Credits	Total Major Credits
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Program Learning Outcomes

Program Learning Outcomes

https://cehs.usu.edu/about/assessment

Special Education Online Practical Teacher Training (OPTT): Severe Emphasis - BA, BS

Program Overview

College	Department	Program Level
College of Education & Human Services	Special Education & Rehab Counseling	Undergraduate

About this Degree

USU OPTT is an innovative, online special education preparation program specifically designed for individuals currently working in a Utah school as a special education teacher or a special education paraprofessional. Applicants may choose to specialize in K-12 complex support needs and will be fully qualified for special education licensure upon completion of this 5-semester program (fall-spring-summer-fall-spring). The program will be longer for applicants who are completing a first bachelor's degree. To receive a Bachelor's of Arts (BA) degree, please see Undergraduate Academic Credential Requirements for required language courses.

Severe Disabilities Emphasis: This emphasis prepares graduates to work with students who have low-incidence disabilities, such as intellectual disabilities, physical disabilities, autism spectrum disorder, traumatic and acquired brain injury, and multiple disabilities. Graduates typically teach academic and life skills in a K-12 classroom or in a post-secondary setting (students age 18-21).

- For more information about Special Education and Rehabilitation Counseling, see the website.
- Admitted and current students must meet with an academic advisor.
- Log on to Degree Works to check student-specific program progress.
- Students following the recommended schedule should be able to complete degree requirements in four years (eight semesters).
- The highest math requirement for this degree is MATH2020 GEOMETRY/STAT ELED TEACH(QI).

Admission Requirements for this Program

- New freshmen must be admitted to USU in Good Standing.
- Transfer students from other institutions or other programs at USU must have a 2.0 GPA.
- Grade of C+ or better: for Communications Literacy **(CL1)** for General Education Requirements (required for program admission; it can also be met with AP ENGL or an ACT score of 30 or higher).
- Grade of C or better in General Education Requirements of Breadth American Institutions **(BAI)**, Breadth Life Sciences **(BLS)**, Breadth Physical Sciences **(BPS)**, HDFS1500 HUMAN DEV LIFESPAN (BSS) (required for program admission).
- Grade of C- or better for General Education Requirements; Quantitative Literacy **(QL)** (required for program admission).

Program Requirements

Total Credits Required In Program Coursework	Total Credits Required To Earn This Credential
79-81	120

Simple Requisites

Program Requirements

- **Minimum Grade Requirements:**
  - Grade of B- or better: All SPED and TEAL courses (except SPED1010 DISABILITY AND SOCIETY (BSS), SPED2910 EARLY FIELD EXPERIENCE IN SPED, SPED5230 SPED STUDENT TEACHING (CI), and SPED5900 INDEPENDENT STUDY).
  - Grade of C or higher in MATH2010 ALG/NUMER FOR ELED TEACH (QI) and MATH2020 GEOMETRY/STAT ELED TEACH(QI).
  - Grade of C- or better: All other courses required for the bachelor's degree
  - Courses used to fulfill major requirements may *not* be taken pass/fail, except those courses that are only taught on a pass/fail basis.
  - 3.0 GPA required in major coursework

Students are required to earn a grade of "B-" or better in all major courses (SPED, TEAL prefixes). Students who receive a grade below "B-" must retake the course. Each student will be allowed to repeat a maximum of one course (course is defined as didactic courses, practica and student teaching). Students who receive two grades below "B-" or withdraw from two practica (or one practica two times) will not be permitted to continue in special education. Student teaching may not be repeated without appeal and approval by the appropriate special education program committee.

Special Education Online Practical Teacher Training (OPTT): Severe Emphasis - BA, BS

Type
Completion Requirement

Math Requirements (9-11 credits)

Fulfill ALL of the following requirements:

Quantitative Literacy (QL)

Complete ALL of the following Course Sets:

- Quantitative Literacy (QL) Course

AND

Math Requirements

Complete ALL of the following Courses:

- MATH2010 - Algebraic Thinking & Number Sense for Elementary Education School Teachers (QI) - 3cr.
- MATH2020 - Euclidean Geometry & Statistics for Elementary Education School Teachers (QI) - 3cr.

Professional Education (8 credits)

Complete ALL of the following Courses:

- ELED3100 - Classroom Reading Instruction - 3cr.
- SPED4000 - Education of Students with Disabilities - 3cr.
- TEAL2660 - Educational Psychology for Teachers - 2cr.

Severe Specialization (47 credits)

Fulfill ALL of the following requirements:

Junior Year Fall (11 credits)

Complete ALL of the following Courses:

- SPED5011 - Foundations in Special Education: Instructional Strategies, Behavior Management, and IEPs - 2cr.
- SPED5012 - Basic Behavior Management and Instructional Strategies (QI) - 3cr.
- SPED5311 - Reading and Language Arts Interventions for Students with Disabilities - 1cr.
- SPED5511 - Effective Instruction and Curriculum for Students with Severe Disabilities I - 2cr.
- SPED5615 - Practicum I for Severe Disabilities - 3cr.

NOTE:

1. SPED5311 TEACH RDG/LANG ARTS ST W/DIS - Enroll in 1 credit.

AND

Junior Year Spring (8 credits)

Complete ALL of the following Courses:

- SPED5014 - Foundations in Assessment - 2cr.
- SPED5512 - Effective Instruction and Curriculum for Students with Severe Disabilities II - 3cr.
- SPED5625 - Practicum II for Severe Disabilities - 3cr.

AND

Junior Year Summer (3 credits)

Complete ALL of the following Courses:

- SPED5015 - Law/Policies/Procedures - 3cr.

AND

Senior Year Fall (7 credits)

Complete ALL of the following Courses:

- SPED5013 - Advanced Behavior Management and Instructional Strategies - 3cr.
- SPED5016 - Technology and Collaboration for Teaching Exceptional Learners - 3cr.
- SPED5018 - Eligibility Assessment - 1cr.

AND

Senior Year Spring (18 credits)

Complete ALL of the following Courses:

- SPED5017 - Transition Planning and Collaboration for Exceptional Learners - 3cr.
- SPED5230 - Special Education Student Teaching (CI) - 3cr.

NOTE:

1. SPED5230 SPED STUDENT TEACHING (CI) - 15 credits for first bachelor's degree or 3 credits for second bachelor's degree.

Teaching Support (15 credits)

Fulfill ANY of the following requirements:

Earn at least 15 credits from the following:

- ASL1010 - American Sign Language I - 4cr.
- ELED1010 - Orientation to Elementary Education - 3cr.
- HDFS2400 - Couple and Family Relationships (BSS) - 3cr.
- HDFS3100 - Abuse and Neglect in Family Context - 3cr.
- HDFS2660 - Parenting and Child Guidance - 3cr.
- HEP3000 - Drugs and Human Behavior - 3cr.
- PSY1400 - Analysis of Behavior: Basic Principles - 3cr.
- PSY1410 - Analysis of Behavior: Basic Principles Lab - 1cr.
- SOC1010 - Introductory Sociology (BSS) - 3cr.
- SPED1010 - Disability and Society (BSS) - 3cr.
- SPED2910 - Early Field Experience in Special Education - 3cr.
- SW1010 - Introduction to Social Welfare (BSS) - 3cr.

NOTE:

SPED2910 EARLY FIELD EXPERIENCE IN SPED - Up to 6 credits.

Open Electives

Complete the following as needed:
Total elective credit is determined by General Education courses taken, degree type selected, additional credits earned, and any additional math or other prerequisite courses needed. Please consult your Academic Advisor for details.

Additional Comments:

Licensure Notification

This program typically leads to licensure and was designed to meet licensing qualifications in the state of Utah. If students wish to work in another state within the United States, they should review the qualifications for that state and the Education Licensure Compliance Table provided by School of Teacher Education and Leadership.

For more information, please contact the School of Teacher Education and Leadership at https://cehs.usu.edu/teal/

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Bachelor's Degree)

Suggested Degree Maps

Degree Map Name
Suggested Degree Map - Special Education Online Practical Teacher Training (OPTT): Severe Emphasis BA, BS
Total Degree Map Credits
106 - 121
Degree Map Effective Catalog Year
2027 -

Degree Map Narrative

- Following is a sample four-year plan. Please note that student-specific plans may differ.
- Meet with an academic advisor to create a specific plan that best fits your academic needs.
- The student is ultimately responsible for knowing and completing all degree requirements.

- Make sure you meet the registration requirements for each class by clicking the course link and checking any prerequisites or corequisites.
- Consultation with an advisor may result in an altered plan customized for an individual student.
- Check your Degree Works for requirements and completion.

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	15 - 18	0

Requirement Select
- Communications Literacy (CL1) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Quantitative Literacy (QL) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 5
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Breadth American Institutions (BAI) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Breadth Life Sciences (BLS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	15	0

Requirement Select
- HDFS1500 - Human Development Across the Lifespan (BSS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- MATH2020 - Euclidean Geometry & Statistics for Elementary Education School Teachers (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Breadth Physical Sciences (BPS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Breadth Humanities (BHU) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Teaching Support course (3 credits) Suggested: SPED2910 (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Summer	6	0

Requirement Select

- Teaching Support (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Breadth Creative Arts (BCA) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	15	0

Requirement Select

- Apply to the Special Education major by October 1 at https://cehs.usu.edu/sperc/sped/undergrad/admission. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Communications Literacy (CL2) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- MATH2010 - Algebraic Thinking & Number Sense for Elementary Education School Teachers (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Depth Humanities and Creative Arts (DHA) Course
  OR
- Depth Life and Physical Sciences (DSC) Course
  OR
- Depth Social Sciences (DSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Elective (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Teaching Support course (3 credits) suggested: REH2660 (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	14	0

Requirement Select

- ELED3100 - Classroom Reading Instruction

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- TEAL2660 - Educational Psychology for Teachers

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select

- SPED4000 - Education of Students with Disabilities

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Teaching Support Course suggested: SPED1010 (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Teaching Support Course suggested: ASL1010 (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Summer	6	0

Requirement Select
- Elective (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- University Studies Depth Course (different category) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Fall	11	0

Requirement Select
- SPED5011 - Foundations in Special Education: Instructional Strategies, Behavior Management, and IEPs

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select
- SPED5012 - Basic Behavior Management and Instructional Strategies (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- SPED5511 - Effective Instruction and Curriculum for Students with Severe Disabilities I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select
- SPED5311 - Reading and Language Arts Interventions for Students with Disabilities

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1 - 3
Clinical	-
Criticality	No

Requirement Select
- Enroll in 1 credit of SPED5311 (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- SPED5615 - Practicum I for Severe Disabilities

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Spring	8	0

Requirement Select

- SPED5014 - Foundations in Assessment

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select

- SPED5512 - Effective Instruction and Curriculum for Students with Severe Disabilities II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- SPED5625 - Practicum II for Severe Disabilities

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Summer	3	0

Requirement Select

- SPED5015 - Law/Policies/Procedures

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Fall	7	0

Requirement Select

- SPED5016 - Technology and Collaboration for Teaching Exceptional Learners

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- SPED5013 - Advanced Behavior Management and Instructional Strategies

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- SPED5018 - Eligibility Assessment

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- Apply to student teaching by October 1 at https://cehs.usu.edu/sperc/sped/undergrad/student-teaching-info and apply for graduation at https://www.usu.edu/registrar/graduation/. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Spring	6 - 18	0

Requirement Select

- SPED 5230 - Enroll in 15 credits for first bachelors degree or 3 credits for second bachelors degree. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- SPED5017 - Transition Planning and Collaboration for Exceptional Learners

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- SPED5230 - Special Education Student Teaching (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 15
Progress Credits	-
Contact Hours	3 - 15
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Program Learning Outcomes

Program Learning Outcomes

https://cehs.usu.edu/about/assessment

Special Education: Visual Impairments Emphasis - BA, BS

Program Overview

College	Department	Program Level
College of Education & Human Services	Special Education & Rehab Counseling	Undergraduate

About this Degree

The visual impairments emphasis allows teachers to teach students who are blind or have visual impairments kindergarten to twelfth grade. This program is a Multi-University Consortium Teacher Preparation Program in Sensory Impairments with the Special Education Departments at Utah State University and the University of Utah. Once admitted to the major, students will take courses both at USU (fall and spring terms) and at the University of Utah in the summers. This Consortium is one of only 35 programs in visual impairments in the United States.

Courses address characteristics of disabilities, inclusion of students in general education, behavioral interventions, assessment, effective instruction, consulting with parents and teachers, assistive technology, Literary Braille, Nemeth Braille, orientation and mobility, and policies and procedures.

Admission Requirements for this Program

New freshmen must be admitted to USU in Good Standing.

Transfer students from other institutions or other programs at USU must have a 2.0 GPA.

Program Requirements

Total Credits Required In Program Coursework	Total Credits Required To Earn This Credential
87	120

Simple Requisites

Program Requirements

Minimum Grade Requirements:

- Required for program admission: A grade of C+ or better: ENGL1010 WRITING AS INQUIRY (CL1) (ENGL1010 WRITING AS INQUIRY (CL1) may also be met with AP English score or an ACT score of 30 or higher)
- Required for program admission: A grade of C or better in General Education Requirements of Breadth American Institutions (BAI), Breadth Life Sciences (BLS), Breadth Physical Sciences (BPS), HDFS 1500 (required for program admission)
- Required for program admission: A grade of C- or better for General Education Requirements; Quantitative Literacy (QL)
- Grade of B- or better: All SPED, TEAL, and ELED courses (except SPED1010 DISABILITY AND SOCIETY (BSS), SPED2910 EARLY FIELD EXPERIENCE IN SPED, SPED5200 STUDENT TEACHING (CI), and SPED5900 INDEPENDENT STUDY)
- Grade of C or higher in MATH2010 ALG/NUMER FOR ELED TEACH (QI) and MATH2020 GEOMETRY/STAT ELED TEACH(QI)
- Grade of C- or better: All other courses required for the bachelor's degree
- Courses used to fulfill major requirements may *not* be taken pass/fail, except those courses that are only taught on a pass/fail basis

Students are required to earn a grade of "B-" or better in all major courses (SPED, TEAL, ELED prefixes).

Students who receive a grade below "B-" must retake the course. Each student will be allowed to repeat a maximum of one course (course is defined as didactic courses, practica, and student teaching). Students who receive two grades below "B-" or withdraw from two practica (or one practica two times) will not be permitted to continue in special education. Student teaching may not be repeated without appeal and approval by the appropriate special education program committee.

Major Courses that fulfill General Education Requirements **or** University Studies Requirements**.**

- HDFS1500 HUMAN DEV LIFESPAN (BSS) - Breadth Social Sciences (BSS)
- SPED5010 ABA 1: PRIN/ASSMNT/ANALY (QI) - Quantitative Intensive (QI)
- SPED5200 STUDENT TEACHING (CI) - Communications Intensive (CI)

Special Education: Visual Impairments - BA, BS

Type
Completion Requirement

Math Requirements

Fulfill ALL of the following requirements:

Quantitative Literacy (QL)

Complete ALL of the following Course Sets:

- Quantitative Literacy (QL) Course

AND

Math Courses

Complete ALL of the following Courses:

- MATH2010 - Algebraic Thinking & Number Sense for Elementary Education School Teachers (QI) - 3cr.
- MATH2020 - Euclidean Geometry & Statistics for Elementary Education School Teachers (QI) - 3cr.

Professional Education (14 credits)

Complete ALL of the following Courses:

- ELED3100 - Classroom Reading Instruction - 3cr.
- SPED4000 - Education of Students with Disabilities - 3cr.
- SPED5030 - Assessment in Special Education - 2cr.
- SPED5040 - Foundations of Effective Instructional Practices - 4cr.
- TEAL2660 - Educational Psychology for Teachers - 2cr.

Visual Impairment (63 credits)

Fulfill ALL of the following requirements:

Sophomore Summer:

Complete ALL of the following Courses:

- SPED5105 - Introduction to Visual Impairments - 1cr.

AND

Junior Fall:

Complete ALL of the following Courses:

- SPED5120 - Ocular Disorders and Examination Techniques - 2cr.
- SPED5122 - Educational Implications for Students with Low Vision - 2cr.
- SPED5130 - Literary Braille Codes - 3cr.
- SPED5190 - Understanding the Brain, Damage to the Brain and Cerebral/Cortical Visual Impairment - 2cr.

AND

Junior Spring:

Complete ALL of the following Courses:

- SPED5010 - Applied Behavioral Analysis 1: Principles, Assessment, and Analysis (QI) - 3cr.
- SPED5070 - Policies, Procedures, and Collaboration in Special Education - 3cr.
- SPED5140 - Advanced Braille Codes & Abacus Instruction - 3cr.
- SPED5170 - Instructional Management for Students with Visual Impairments (0-21) - 3cr.
- SPED5175 - Early Literacy for Young Children with Visual Impairment, Birth to Five - 2cr.
- SPED5310 - Teaching Reading and Language Arts to Students with Disabilities - 1cr.
- SPED5510 - Curriculum and Assessment for Students with Severe Disabilities I - 2cr.

NOTE:

1. SPED5310 TEACH READ/LANG ARTS ST W/DIS - Enroll in 2 credits.

AND

Junior Summer:

Complete ALL of the following Courses:

- SPED5110 - Social and Psychological Implications of Visual Impairments - 2cr.
- SPED5135 - Assistive Technology for Students with Visual Impairments - 3cr.
- SPED5150 - Teaching Children with Dual Sensory Impairments (Deaf/Blind) - 3cr.
- SPED5160 - Introduction to Orientation and Mobility - 2cr.

AND

Senior Fall:

Complete ALL of the following Courses:

- SPED5050 - Applied Behavioral Analysis 2: Applications - 3cr.
- SPED5080 - Transition-Focused Education and Collaboration - 2cr.
- SPED5530 - Family/Professional Collaboration and Technology for Teaching Exceptional Learners - 3cr.

AND

Senior Spring:

Complete ALL of the following Courses:

- SPED5200 - Student Teaching in Special Education (CI) - 3cr.

NOTE:

1. SPED5200 STUDENT TEACHING (CI) - Enroll in 15 credits.

Additional Course Requirement (6 credits)

Complete ALL of the following Courses:

- SPED1010 - Disability and Society (BSS) - 3cr.
- HDFS1500 - Human Development Across the Lifespan (BSS) - 3cr.

Additional Comments:

Licensure Notification

This program typically leads to licensure and was designed to meet licensing qualifications in the state of Utah. If students wish to work in another state within the United States, they should review the qualifications for that state and the Education Licensure Compliance Table provided by School of Teacher Education and Leadership.

For more information, please contact the School of Teacher Education and Leadership at https://cehs.usu.edu/teal/

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Bachelor's Degree)

Suggested Degree Maps

Degree Map Name
Suggest Degree Map - Special Education: Visual Impairments BA, BS
Total Degree Map Credits
97 - 124
Degree Map Effective Catalog Year
2026 -

Degree Map Narrative

- Following is a sample four-year plan. Please note that student-specific plans may differ.
- Meet with an academic advisor to create a specific plan that best fits your academic needs.
- The student is ultimately responsible for knowing and completing all degree requirements.
- Make sure you meet the registration requirements for each class by clicking the course link and checking any prerequisites or corequisites.
- Consultation with an advisor may result in an altered plan customized for an individual student.
- Check your Degree Works for requirements and completion.

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	12 - 14	0

Requirement Select

- ENGL1010 - Writing as Inquiry (CL1)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Quantitative Literacy (QL) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Breadth American Institutions (BAI) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Breadth Life Sciences (BLS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	12 - 16	0

Requirement Select

- HDFS1500 - Human Development Across the Lifespan (BSS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- MATH2020 - Euclidean Geometry & Statistics for Elementary Education School Teachers (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- SPED1010 - Disability and Society (BSS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Breadth Physical Sciences (BPS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	0 - 4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Breadth Humanities (BHU) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	9 - 13	0

Requirement Select

- Communications Literacy (CL2) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- MATH2010 - Algebraic Thinking & Number Sense for Elementary Education School Teachers (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Breadth Creative Arts (BCA) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Depth Humanities and Creative Arts (DHA) Course
  OR
- Depth Life and Physical Sciences (DSC) Course
  OR
- Depth Social Sciences (DSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	Must enroll in separate depth categories
Minimum Grade	-
Area	-
Actual Credits	0 - 4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	10 - 12	0

Requirement Select

- Depth Humanities and Creative Arts (DHA) Course
  OR
- Depth Social Sciences (DSS) Course
  OR
- Depth Life and Physical Sciences (DSC) Course

Course Requirement Group	
Course Requirement Group (Free Text)	Must enroll in separate depth categories.
Minimum Grade	-
Area	-
Actual Credits	2 - 4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- SPED4000 - Education of Students with Disabilities

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- TEAL2660 - Educational Psychology for Teachers

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select

- ELED3100 - Classroom Reading Instruction

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Apply to the Special Education major by February 1 at https://cehs.usu.edu/sperc/sped/undergrad/admission. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Summer	1	0

Requirement Select

- SPED5105 - Introduction to Visual Impairments

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Fall	15	0

Requirement Select

- SPED5040 - Foundations of Effective Instructional Practices

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- SPED5030 - Assessment in Special Education

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select

- SPED5120 - Ocular Disorders and Examination Techniques

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select

- SPED5122 - Educational Implications for Students with Low Vision

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select

- SPED5130 - Literary Braille Codes

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- SPED5190 - Understanding the Brain, Damage to the Brain and Cerebral/Cortical Visual Impairment

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Spring	17 - 20	2

Requirement Select

- SPED5010 - Applied Behavioral Analysis 1: Principles, Assessment, and Analysis (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- SPED5070 - Policies, Procedures, and Collaboration in Special Education

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Enroll in 2 credits of SPED 5310 (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	Register for 2 credits
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	2
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- SPED5310 - Teaching Reading and Language Arts to Students with Disabilities

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1 - 4
Progress Credits	-
Contact Hours	1 - 4
Clinical	-
Criticality	No

Requirement Select

- SPED5510 - Curriculum and Assessment for Students with Severe Disabilities I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select

- SPED5170 - Instructional Management for Students with Visual Impairments (0-21)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- SPED5140 - Advanced Braille Codes & Abacus Instruction

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- SPED5175 - Early Literacy for Young Children with Visual Impairment, Birth to Five

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Summer	10	0

Requirement Select

- SPED5110 - Social and Psychological Implications of Visual Impairments

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select

- SPED5150 - Teaching Children with Dual Sensory Impairments (Deaf/Blind)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- SPED5160 - Introduction to Orientation and Mobility

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select
- SPED5135 - Assistive Technology for Students with Visual Impairments

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Fall	8	0

Requirement Select
- SPED5050 - Applied Behavioral Analysis 2: Applications

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- SPED5080 - Transition-Focused Education and Collaboration

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select
- SPED5530 - Family/Professional Collaboration and Technology for Teaching Exceptional Learners

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Spring	3 - 15	0

Requirement Select
- Enroll in 15 credits of SPED5200. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	Must register for 15 credits
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- SPED5200 - Student Teaching in Special Education (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 15
Progress Credits	-
Contact Hours	3 - 15
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Program Learning Outcomes

Program Learning Outcomes

1. Demonstrate an understanding of learner development and individual learning differences, including an understanding of the development of the human visual system, most prevalent causes of blindness and low vision in children, implications of visual impairments and the impact on sociocultural/psychoemotional development.
2. Demonstrate an ability to assess students who are blind or have low vision, including students with concurring disabilities, while considering specialized assessment materials, individualized needs of each student and federal/state requirements for eligibility.

3. Demonstrate the ability to create, implement and assess instructional planning and strategies to support students who are blind or have low vision.
4. Demonstrate an understanding of the importance of on-going professional learning and professional/ethical practices specific to the role and responsibilities of a teacher of students with visual impairments.
5. Demonstrate an understanding of the importance of collaboration with families and other professions to support the needs of students who are blind or have low vision.

Special Function Officer - Technical Certificate

Program Overview

College
College of Agriculture & Natural Resources

Department
Technology, Design & Technical Ed

Program Level
Undergraduate

About this Degree

Federal Gainful Employment Information

The Basic Corrections Officer program builds upon skills and knowledge gained in the Special Function Officer program and provides basic training required for employment in the field of corrections. Areas of study include constitutional and correctional law, offender supervision strategies, critical incident responses, and other correctional-related topics.

Admission Requirements for this Program

- Be a United States citizen; a United States National; or, for at least five (5) years continuous, be a legal permanent resident (LPR).
- Be at least 19 years of age at the time of certification as a special function officer.
- Be a high school graduate or furnish evidence of successful completion of an examination indicating an equivalent achievement.
- Pass the physical fitness test as outlined by POST and the academy director.
- Not convicted of a crime for which the applicant could have been punished by imprisonment in a federal penitentiary or by imprisonment in the penitentiary of this or another state.
- Demonstrated good moral character, as determined by a background investigation; and
- Be free of any physical, emotional, or mental condition that might adversely affect the performance of the applicant's duties as a peace officer.

An application for admission to a peace officer training program shall be accompanied by a criminal history background check of local, state, and national criminal history files and a background investigation. A fee of $50 shall be paid at the time of fingerprinting to cover the costs of the background check and investigation. See advisor for details.

Program Requirements

Total Credits Required In Program Coursework
9

Total Credits Required To Earn This Credential
9

Simple Requisites

Program Requirements

Section 1

Type
Completion Requirement

Technical Education Required Courses

Complete ALL of the following Courses:

- TELE1010 - Special Function Officer - 9cr.

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Undergraduate Academic or Technical Certificates)

Program Learning Outcomes

Program Learning Outcomes

- Identify and demonstrate key ethical standards in corrections culture.
- Apply concepts of constitutional and correctional law to practical situations.
- Interact professionally with incarcerated offenders.
- Apply basic skills to avoid offender manipulation.
- Demonstrate competency in less-lethal options such as pepper spray.
- Demonstrate competency in critical incident and forced cell response actions.

Sports Management - MSM

Program Overview

College
College of Education & Human Services

Department
Kinesiology and Health Science

Program Level
Graduate

About this Degree

The Sports Management program is a professional degree offered fully online, focusing on administration and management within the sports industry. Our curriculum delivers a comprehensive, industry-ready education that prepares students through integrated approaches and hands-on experiences. Students gain experience in finance, marketing, legal issues, event and facility management, data analytics, fundraising and sponsorship, digital media, ethics and leadership–applying these disciplines directly to real-world sport settings. Graduates develop the strategic planning, organizational, and decision-making skills needed to excel in the sport industry.

Admission Requirements for this Program

For more information, including admission requirements and deadlines, visit the program page on the department website at http://cehs.usu.edu/khs/graduate/master-sports-management.

Program Requirements

Total Credits Required In Program Coursework
30

Total Credits Required To Earn This Credential
30

Simple Requisites

Program Requirements

School of Graduate Studies Requirements

- **Degree Verification:** A bachelor's degree from an accredited U.S. college or university or a similarly recognized international university is required for admission to and completion of a graduate program.
- **Overall Graduate GPA at least 3.0 and no grades of C- or lower:** Graduate students are required to maintain at least a 3.0 GPA for degree-program courses. Grades of C- or lower will not be accepted for a graduate degree.
- **Course Number Acceptability:** The Program of Study for a master's degree must include at least 18 semester credits at the level of 6000 or above. Credits in the following areas are not acceptable in a degree program: foreign languages (unless included in an approved Program of Study), continuing graduate advisement, individual home study, military science, and courses numbered below 6000. The program of study for a master's degree cannot include more than 12 semester credits of courses at the 5000 level. Credits in the following areas are not acceptable in a degree program: foreign languages (unless included in an approved Program of Study), continuing graduate advisement, individual home study, military science, and courses numbered below 5000.
- **Matriculation Start Semester:** A master's degree must be completed within six years of entering the degree program. Additional time may be requested by the student's committee and submitted to the Vice Provost of Graduate Studies for review.
- **Coursework Validity:** Coursework over eight years old at the time of degree completion may not be used for a graduate degree unless it is revalidated by the School of Graduate Studies.

- **Thesis Research Credits:** Professional/Plan C students cannot use any thesis credits.
- **Master's forms:** Approval of academic forms required for master's students by the School of Graduate Studies. This includes the Supervisory Committee Approval Form (SCAF), Program of Study (POS), and USU Graduation Application.

Sports Management - MSM (30 Credits)

Type
Completion Requirement

Master of Sports Management students must complete the following courses:

Fulfill ALL of the following requirements:

Required Courses (27 Credits)

Complete ALL of the following Courses:

- KIN6025 - Intercollegiate Athletics Administration - 3cr.
- KIN6030 - Sports Marketing and Public Relations - 3cr.
- KIN6040 - Sport Event and Facility Management - 3cr.
- KIN6060 - Legal Issues in Sports - 3cr.
- KIN6080 - Financial Management of Sports - 3cr.
- KIN6085 - Sport Fundraising and Sponsorship - 3cr.
- KIN6090 - Sports Sales - 3cr.
- KIN6120 - Leadership and Organizational Behavior in Sport - 3cr.
- KIN6130 - Data Analytics and Data Driven Decision Making in Sports - 3cr.

AND

Internship Requirement (3 Credits)

Students are required to complete 3 credits of internship to fulfill the program requirements.

Complete ALL of the following Courses:

- KIN6650 - Advanced Practicum in Sport Management - 1cr.

Program Learning Outcomes

Program Learning Outcomes
https://cehs.usu.edu/khs/assessment

Spanish Teaching Emphasis - Minor

Program Overview

College
College of Arts & Sciences

Department
World Languages and Cultures

Program Level
Undergraduate

Program Requirements

Total Credits Required To Earn This Credential
44 (25+29)

Simple Requisites

Program Requirements

- **Total Credits:** 44 (25 + 29 STEP credits)
- **Grade Point Average to Declare Spanish Teaching Emphasis Minor:** 3.0 Overall GPA
- **Grade Point Average to Graduate with Spanish Teaching Emphasis Minor:** 3.0 GPA within minor coursework
- **USU Credit Requirement**: At least half (50 percent) of the credits earned for this degree must be completed in upper-division USU courses having prefixes of SPAN or LING. All other credits (including transfer and study abroad credits) must be approved by the program's academic advisor in order to be counted toward the minor. Students who have completed Bridge Program Language courses should contact their advisor as these courses may count toward elective credits and credits toward minor requirements.
- **Minimum Grade Requirement:** All courses taken for the minor require a minimum grade of **C** or better. Courses *may not* be taken on a pass/fail basis (except for courses designated as pass/fail, such as SCED3300 CLINICAL EXPERIENCE I, SCED5630 STUDENT TEACHING SEC SCHOOL, SPAN3010 HISPANIC OUTREACH PRACT, SPAN3520 BUSINESS SPANISH PRACT, and SPAN4920 SPANISH LANG TUTORING).
- **Note:** Students with prior language credit or language experience should take the department placement test before admission to the Spanish major or minor. Credits obtained in lower-division Spanish courses cannot be applied toward the Spanish major or minor programs.

Section 1

Type
Completion Requirement

Spanish and Linguistics Courses (12 credits)

Complete ALL of the following Courses:

- SPAN3040 - Advanced Spanish Grammar - 3cr.
  OR SPAN3800 - Spanish III Study Abroad - 1cr.
- SPAN4200 - Introduction to Hispanic Linguistics - 3cr.
- SPAN4920 - Spanish Language Tutoring - 1cr.
- SCED3300 - Clinical Experience I - 1cr.
- LING5400 - Teaching Modern Languages - 3cr.

Section 2

Type
Completion Requirement

Elective Courses (3 credits)

Earn at least 3 credits from the following:

- SPAN3010 - Hispanic Outreach Practicum - 1cr.
- SPAN3061 - Fundamentals of Translation and Interpretation - 3cr.
- SPAN3081 - Healthcare Translation - 3cr.
- SPAN3082 - Legal and Business Translation - 3cr.
- SPAN3116 - Spanish Pop Culture: Film, Media and Entertainment - 3cr.
- SPAN3117 - Building Identities (Breaking Down Walls, Building Identities) - 3cr.
- SPAN3118 - Literature and Film: Contemporary Issues - 3cr.
- SPAN3300 - Introduction to Hispanic Literature and Literary Analysis - 3cr.
- SPAN3550 - Spanish Culture and Civilization (DHA) - 3cr.
- SPAN3560 - Introduction to U.S. Latino/a Culture - 3cr.
- SPAN3570 - Hispanic American Culture and Civilization (DHA) - 3cr.
- SPAN3600 - Survey of Spanish Literature I (DHA) - 3cr.
- SPAN3610 - Survey of Spanish Literature II (DHA/CI) - 3cr.
- SPAN3620 - Survey of Hispanic American Literature I (DHA) - 3cr.
- SPAN3630 - Survey of Hispanic American Literature II (DHA) - 3cr.
- SPAN3640 - Introduction to U.S. Latino/a Literature - 3cr.
- SPAN3650 - Spanish Literature-Study Abroad - 1cr.
- SPAN3660 - Hispanic American Literature - Study Abroad - 1cr.
- SPAN3800 - Spanish III Study Abroad - 1cr.
- SPAN4071 - Simultaneous and Consecutive Healthcare Interpretation - 3cr.
- SPAN4072 - Simultaneous and Consecutive Legal Interpretation - 3cr.
- SPAN4081 - Medical Interpretation Training (BTG) - 3cr.
- SPAN4082 - Advanced Legal Translation and Interpretation - 3cr.
- SPAN4800 - Hispanic Culture and Civilization-Study Abroad - 1cr.

Section 3

Type

Completion Requirement

Secondary Teacher Education Program (STEP) - Languages, Philosophy, and Communication Studies (29 credits)

Several of the courses listed below count for both the teaching emphasis and the teaching minor.

Complete ALL of the following Courses:

- ITLS2500 - Technology Enabled Instruction - 3cr.
- SCED3210 - Educational and Multicultural Foundations (DSS/CI) - 3cr.
- LING5400 - Teaching Modern Languages - 3cr.
- SCED3300 - Clinical Experience I - 1cr.
- SPED4000 - Education of Students with Disabilities - 3cr.
- SCED5100 - Motivation and Classroom Management - 3cr.
- SCED5200 - Language, Literacy, and Learning in the Content Areas (CI) - 3cr.
- SCED5210 - Learning Theory, Curriculum, and Assessment - 3cr.
- LING5500 - Student Teaching Seminar - 2cr.
- SCED5630 - Student Teaching in Secondary Schools - 10cr.

NOTE:

1. The Special Methods II course is taught under course number 5400.
2. SCED3300 CLINICAL EXPERIENCE I and LING5400 TEACHING MODERN LANGUAGES must be taken during the same semester, and should be the last courses taken for the minor. These courses should be taken the fall semester before student teaching. SCED3300 CLINICAL EXPERIENCE I and LING5400 TEACHING MODERN LANGUAGES are listed in both the STEP and minor requirements for those seeking the Spanish Teaching minor/non-licensure so the non-licensure minors understand the complete list of minor requirements. See non-licensure information below.

*Courses may be subject to change, and students should contact the Secondary Education Advising Office for a current course list of STEP requirements.

Section 4

Type

Completion Requirement

Additional Comments:

Spanish Teaching Emphasis Minor without Secondary School Licensure (Minor 19 credits)

Total Credits: 19

(2.5 GPA required in minor classes)

It is possible to have a teaching emphasis within a major or minor in Spanish without receiving secondary school teaching licensure. However, unless the student is an elementary education major, he or she would not be able to teach in Utah public schools (nor at many private ones). Graduating without licensure may allow employment at community colleges and universities.

In order to complete the Spanish Teaching Emphasis Minor without Secondary School Licensure, students must fulfill all of the requirements listed under Section I (Spanish and Linguistics Courses) of the Spanish Teaching Emphasis Minor with Secondary School Licensure (20 credits), except for SCED3300 CLINICAL EXPERIENCE I, for a total of 19 credits.

Related Programs

- Spanish Teaching Emphasis Minor without Licensure: 19 credits
- Spanish Minor: 15 credits
- Spanish Major: 33 credits
- Spanish Major with Teaching Emphasis: 67 credits
- Spanish Major with Teaching Emphasis without Licensure: 37 credits

LIcensure Notification

This program typically leads to licensure and was designed to meet licensing qualifications in the state of Utah. If students wish to work in another state within the United States, they should review the qualifications for that state and the Education Licensure Compliance Table provided by School of Teacher Education and Leadership.

For more information, please contact the School of Teacher Education and Leadership at https://cehs.usu.edu/teal/

Program Learning Outcomes

Program Learning Outcomes

https://chass.usu.edu/languages/assessments

Secondary Science Composite Teaching - BA, BS

Program Overview

College
College of Arts & Sciences

Department
College of Arts & Sciences

Program Level
Undergraduate

About this Degree

Secondary Science Educators cover a wide range of science disciplines such as Life Sciences, Physical Sciences, Earth Sciences and Computer Science. The Science field develops constantly, and it is important for Secondary Science teachers to stay current. The College of Science helps students do this by incorporating recent research results into the classroom, providing research opportunities, and inviting them to participate in research seminars and presentations.

Students will receive a **BS** by completing all required courses in their major. To receive a **BA**, students must also gain proficiency in one or more foreign languages. See Undergraduate Academic Credential Requirements for language requirements. A bachelor's degree in the Secondary Science Teaching major includes: University Studies and coursework, as required by the College of Science; the Teaching major; and the Secondary Teacher Education Program (STEP). Students majoring in the Secondary Science Teaching major will complete courses which provide an in-depth understanding of Scientific principles.

All major and STEP requirements may *not* be taken as a pass/fail grade. A minimum grade of C or better is required in all major course work.

The Secondary Science Teaching program is fully accredited by the Utah State Office of Education.

For further information, students should contact their academic advisor.

Program Requirements

Total Credits Required In Program Coursework

Total Credits Required To Earn This Credential
120

Simple Requisites

Program Requirements

Secondary Science Composite Teaching - BA, BS

Type
Completion Requirement

Required Science Core

Fulfill ALL of the following requirements:

Earth Science Content Knowledge

Complete at least 1 of the following courses:

- GEO1010 - Introduction to Geology (BPS) - 3cr.
- GEO1110 - Physical Geology (BPS) - 3cr.
- GEO1360 - Planet Earth (BPS) - 3cr.
- GEO2200 - The Earth Through Time - 3cr.
- PSC2000 - The Atmosphere and Weather (BPS) - 3cr.
- PHYS1040 - Introductory Astronomy (BPS) - 3cr.

AND

Life Science Content Knowledge

Complete at least 1 of the following courses:

- BIOL1010 - Biology and the Citizen (BLS) - 3cr.
- BIOL1610 - Biology I - 3cr.

AND

Chemistry Content Knowledge

Minimum 3 credits required.

Complete at least 1 of the following courses:

- CHEM1210 - Principles of Chemistry I - 4cr.
- CHEM1215 - Chemical Principles Laboratory I - 1cr.
- CHEM1220 - Principles of Chemistry II (BPS) - 4cr.
- CHEM1225 - Chemical Principles Laboratory II - 1cr.
- CHEM2300 - Principles of Organic Chemistry - 3cr.

AND

Physics Content Knowledge

Complete at least 1 of the following courses:

- PHYS2110 - General Physics—Life Sciences I - 4cr.
- PHYS2210 - Physics for Scientists and Engineers I (QI/BPS) - 4cr.

AND

Mathematics Content Knowledge

Complete ALL of the following Courses:

- MATH1210 - Calculus I (QL) - 4cr.

Complete at a minimum 3 different Teaching Content Areas

Each teaching area will earn a level 1 licensure endorsement in that content area except computer science, which will earn a Computer Science teaching minor and certificates in Intro to Computer Science, Programming and Software Development and Web Development.

Complete at a minimum 3 different Level 1 Endorsements, ***or*** 2 different Level 1 Endorsements ***and*** the Computer Science Teaching Minor.

Fulfill ANY of the following requirements:

Earth Science Content Area

Complete ALL of the following Courses:

- ENVS4020 - Foundations of Environmental Thought (DHA/CI) - 3cr.
- GEO2200 - The Earth Through Time - 3cr.
- PHYS1040 - Introductory Astronomy (BPS) - 3cr.
- PSC2000 - The Atmosphere and Weather (BPS) - 3cr.
- WILD2200 - Ecology of Our Changing World (BLS) - 3cr.

OR

Life Science Content Area

Complete ALL of the following Courses:

- BIOL1620 - Biology II (BLS) - 3cr.
- BIOL1625 - Biology II Laboratory - 1cr.
- BIOL2220 - General Ecology - 3cr.
- BIOL3020 - Evolutionary Biology - 3cr.
- BIOL3060 - Principles of Genetics (QI) - 3cr.
- BIOL3090 - Molecular, Cellular, and Developmental Biology - 3cr.

OR

Chemistry Content Area

Complete ALL of the following Courses:

- CHEM1210 - Principles of Chemistry I - 4cr.
- CHEM1215 - Chemical Principles Laboratory I - 1cr.
- CHEM1220 - Principles of Chemistry II (BPS) - 4cr.
- CHEM1225 - Chemical Principles Laboratory II - 1cr.
- CHEM2300 - Principles of Organic Chemistry - 3cr.

OR

Physics Content Area

Complete ALL of the following Courses:

- MATH1220 - Calculus II (QL) - 4cr.
- PHYS2210 - Physics for Scientists and Engineers I (QI/BPS) - 4cr.
- PHYS2215 - Physics for Scientists and Engineers Lab I - 1cr.
- PHYS2220 - Physics for Scientists and Engineers II (BPS/QI) - 4cr.
- PHYS2225 - Physics for Scientists and Engineers Lab II - 1cr.
- PHYS2710 - Introductory Modern Physics - 3cr.

OR

Computer Science Content Area

Complete ALL of the following Courses:

- CS1400 - Introduction to Computer Science--CS 1 - 4cr.
- CS1410 - Introduction to Computer Science--CS 2 (QI) - 3cr.
- CS2410 - Introduction to Event Driven Programming and GUI's - 3cr.
- CS2420 - Algorithms and Data Structures--CS 3 (QI) - 3cr.
- CS2610 - Developing Dynamic, Database-Driven Web Applications - 3cr.
- CS4350 - Computer Science Teaching Methods - 3cr.

Computer Science Teaching Minor - Following Endorsements

Intro to Computer Science; Programming Software Development

Complete ALL of the following Courses:

- CS1400 - Introduction to Computer Science--CS 1 - 4cr.
- CS1410 - Introduction to Computer Science--CS 2 (QI) - 3cr.
- CS2410 - Introduction to Event Driven Programming and GUI's - 3cr.
- CS2420 - Algorithms and Data Structures--CS 3 (QI) - 3cr.
- CS2610 - Developing Dynamic, Database-Driven Web Applications - 3cr.
- CS4350 - Computer Science Teaching Methods - 3cr.

Secondary Teacher Education Program (STEP) Required Courses (37 credits)

To begin the admission process to the STEP, students should see their advisor at least two semesters before they begin Level I coursework. STEP admission deadlines are March 1 for fall and October 1 for spring. For more information about secondary education requirements, visit the Secondary Education website.

For advising, please contact the Secondary Science Teaching Advisor or an Education and Leadership (TEAL) Secondary Education Advisor: advising.usu.edu

Complete ALL of the following Courses:

- ITLS2500 - Technology Enabled Instruction - 3cr.
- SCED3210 - Educational and Multicultural Foundations (DSS/CI) - 3cr.
- SCED3300 - Clinical Experience I - 1cr.
- SCED5100 - Motivation and Classroom Management - 3cr.
- SCED5200 - Language, Literacy, and Learning in the Content Areas (CI) - 3cr.
- SCED5210 - Learning Theory, Curriculum, and Assessment - 3cr.
- SCED5500 - Student Teaching Seminar - 2cr.
- SCED5630 - Student Teaching in Secondary Schools - 10cr.
- SCED5820 - Science Education Teaching and Dispositions Knowledge - 3cr.
- SCED5821 - Three-Dimensional Science and Engineering Pedagogical Knowledge - 3cr.
- SPED4000 - Education of Students with Disabilities - 3cr.

● USBE approved Flinn Scientific Online Lab Safety Course: http://USBE approved Flinn Scientific Online Lab Safety.

NOTE:

1. ITLS2500 TECHNOLOGY ENABLED INSTRUCTION and SCED3210 ED/MULTICULTR FOUND (DSS)(CI) - May be taken prior to STEP Admission.

Open Electives

Complete the following as needed:
Total elective credit is determined by General Education courses taken, degree type selected, additional credits earned, and any additional math or other prerequisite courses needed. Please consult your Academic Advisor for details.

Additional Comments:

Licensure Notification

This program typically leads to licensure and was designed to meet licensing qualifications in the state of Utah. If students wish to work in another state within the United States, they should review the qualifications for that state and the Education Licensure Compliance Table provided by School of Teacher Education and Leadership.

For more information, please contact the School of Teacher Education and Leadership at https://cehs.usu.edu/teal/.

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Bachelor's Degree)

Suggested Degree Maps

Degree Map Name
Suggested Degree Map - Secondary Science Composite Teaching - BA, BS
Total Degree Map Credits
124 - 125
Degree Map Effective Catalog Year
2026 -

Degree Map Narrative

- Following is a sample four-year plan. Please note that student-specific plans may differ.
- Meet with an academic advisor to create a specific plan that best fits your academic needs.
- The student is ultimately responsible for knowing and completing all degree requirements.
- Make sure you meet the registration requirements for each class by clicking the course link and checking any prerequisites or corequisites.
- Consultation with an advisor may result in an altered plan customized for an individual student.
- Check your Degree Works for requirements and completion.

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	15	0

Requirement Select

- BIOL1610 - Biology I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- BIOL1615 - Biology I Laboratory

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- CHEM1210 - Principles of Chemistry I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- CHEM1215 - Chemical Principles Laboratory I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- ENGL1010 - Writing as Inquiry (CL1)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Breadth Social Sciences (BSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	15	0

Requirement Select
- BIOL1620 - Biology II (BLS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- BIOL1625 - Biology II Laboratory

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- CHEM1220 - Principles of Chemistry II (BPS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- CHEM1225 - Chemical Principles Laboratory II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- ENGL2010 - Research and Argument Across Perspectives (CL2)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Breadth Humanities (BHU) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	16	0

Requirement Select
- GEO1110 - Physical Geology (BPS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- GEO1115 - Physical Geology Laboratory

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- PHYS1040 - Introductory Astronomy (BPS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- MATH1210 - Calculus I (QL)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- Breadth American Institutions (BAI) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	20	0

Requirement Select
- ITLS2500 - Technology Enabled Instruction

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- GEO2200 - The Earth Through Time

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- GEO2205 - Earth Through Time Laboratory

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- STAT2000 - Statistical Methods (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- Breadth Creative Arts (BCA) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- PSC2000 - The Atmosphere and Weather (BPS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Breadth Creative Arts (BCA) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Fall	15 - 16	0

Requirement Select
- CHEM2300 - Principles of Organic Chemistry

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- SCED3300 - Clinical Experience I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- SCED5820 - Science Education Teaching and Dispositions Knowledge

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- PHYS2110 - General Physics—Life Sciences I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- ENVS4020 - Foundations of Environmental Thought (DHA/CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Elective (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1 - 2
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Spring	16	0

Requirement Select

- BIOL2220 - General Ecology

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- BIOL3090 - Molecular, Cellular, and Developmental Biology

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- SCED3210 - Educational and Multicultural Foundations (DSS/CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- SCED5821 - Three-Dimensional Science and Engineering Pedagogical Knowledge

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- SCED4300 - Clinical Experience II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- SCED5100 - Motivation and Classroom Management

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Fall	15	0

Requirement Select
- BIOL3020 - Evolutionary Biology

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- BIOL3060 - Principles of Genetics (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- SCED5200 - Language, Literacy, and Learning in the Content Areas (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- SCED5210 - Learning Theory, Curriculum, and Assessment

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- SPED4000 - Education of Students with Disabilities

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Spring	12	0

Requirement Select
- SCED5500 - Student Teaching Seminar

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select
- SCED5630 - Student Teaching in Secondary Schools

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	10
Progress Credits	-
Contact Hours	10
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Program Learning Outcomes

Program Learning Outcomes
https://www.usu.edu/oda/assessment/

Social Studies (Composite Teaching) - BA, BS

Program Overview

College
College of Education & Human Services

Department
School of Teacher Education & Leadership

Program Level
Undergraduate

About this Degree
The social studies (composite teaching) major is provides teaching endorsement in history, geography, psychology, sociology, economics, and political science. Students who graduate with this degree are "highly qualified" to teach all of these subject areas, based on federal standards for "No Child Left Behind".

- For more information about Social Studies Composite Teaching, see the website.
- Admitted and current students must meet with an advisor (435-797-0391).
- Log on to Degree Works to check student-specific program progress.
- The highest Math Requirement for this degree is STAT1040 INTRO TO STATISTICS (QL) **OR** MATH1050 COLLEGE ALGEBRA (QL) **OR** STAT1080 FOUNDATIONS OF DATA SCI (QL).

For Bachelor of Arts degree (BA) language requirements, see Undergraduate Academic Credential Requirements.

Admission Requirements for this Program
- New freshmen: Admitted to USU in Good Standing
- Transfer students from other institutions or other programs at USU: 2.0 GPA

Program Requirements

Total Credits Required In Program Coursework
101

Total Credits Required To Earn This Credential
120

Simple Requisites

Program Requirements

Social Studies (Composite Teaching) - BA, BS

Type
Completion Requirement

I. History (24 credits)

All courses C or better need for STEP.

Fulfill ALL of the following requirements:

World History (9 credits)

Earn at least 9 credits from the following:
- HIST1100 - European History to 1500 (BHU) - 3cr. **OR** HIST1110 - European History from 1500 (BHU) - 3cr.
- HIST1500 - Pre-Modern World (BHU) - 3cr.
- HIST1510 - The Modern World (BHU) - 3cr.

AND

American History (9 credits)

Earn at least 9 credits from the following:

- HIST2700 - United States to 1877 (BAI) - 3cr.
- HIST2710 - United States 1877-Present (BAI) - 3cr.
- HIST3850 - History of Utah (DHA/CI) - 3cr.
  OR HIST4600 - The History of the American West (DHA/CI) - 3cr.

AND

History Elective (3 credits)

Complete the following:

- Course at 3000-level or higher.

AND

History of Traditionally Underrepresented Communities Elective (3 credits)

Complete the following:

- Choose from approved list. See advisor for current options.

II. Geography (9 Credits)

All courses C or better needed for STEP.

Earn at least 9 credits from the following:

- GEOG1000 - Physical Geography (BPS) - 3cr.
- GEOG1300 - World Geography: Human and Environmental Dynamics (BSS) - 3cr.
- GEOG4210 - Geography of Utah - 3cr.

III. Economics (6 Credits)

All course C or better need for STEP.

Earn at least 6 credits from the following:

- ECON2010 - Introduction to Microeconomics (BSS) - 3cr.
  OR ECON3550 - Law and Economics - 3cr.
  OR ECON3610 - Sports Economics - 3cr.
- ECON2020 - Introduction to Macroeconomics (BAI) - 3cr.

IV. Political Science (9 Credits)

All courses C or better needed for STEP.

Earn at least 9 credits from the following:

- POLS1100 - United States Government and Politics (BAI) - 3cr.
- POLS3000 - Introduction to Political Research (QI) - 3cr.
- POLS2100 - Introduction to International Relations (BSS) - 3cr.
  OR POLS2200 - Comparative Politics (BSS) - 3cr.

V. Anthropology and Sociology (6 credits)

All courses require a C or better for STEP.

Earn at least 6 credits from the following:

- ANTH1010 - Cultural Anthropology (BSS) - 3cr.
- SOC1010 - Introductory Sociology (BSS) - 3cr.
  OR SOC1020 - Social Problems (BSS) - 3cr.

VI. Psychology (6 Credits)

All courses C or better needed for STEP.

Earn at least 6 credits from the following:

- PSY1010 - General Psychology (BSS) - 3cr.
- PSY1100 - Lifespan Development - 3cr.
  OR PSY2100 - Developmental Psychology: Adolescence - 3cr.
  OR PSY4240 - Multicultural Psychology (DSS) - 3cr.

VII. Secondary Teacher Education Program (STEP) (41 credits)

To begin the admission process to STEP, students should see their advisor at least two semesters before they begin Level 1 coursework. Minimum 2.0 overall GPA is required for admission. A 3.0 GPA must be maintained in the major courses. STEP admission deadlines are March 1 for fall and October 1 for spring. See all application requirements at https://teal.usu.edu/htm/undergraduate-programs/seced/adstep

All courses C or better needed to continue in STEP. These courses may be taken before admission to STEP:

Complete ALL of the following Courses:

- HIST3000 - History Research Methods - 3cr.
- ITLS2500 - Technology Enabled Instruction - 3cr.
- SCED3210 - Educational and Multicultural Foundations (DSS/CI) - 3cr.
- SCED3300 - Clinical Experience I - 1cr.
- SCED3500 - Teaching Social Studies - 3cr.
- SCED3550 - Teaching Social Studies in the Middle Grades - 3cr.
- SCED4300 - Clinical Experience II - 1cr.
- SCED5100 - Motivation and Classroom Management - 3cr.
- SCED5200 - Language, Literacy, and Learning in the Content Areas (CI) - 3cr.
- SCED5210 - Learning Theory, Curriculum, and Assessment - 3cr.
- SCED5500 - Student Teaching Seminar - 2cr.
- SCED5630 - Student Teaching in Secondary Schools - 10cr.
- SPED4000 - Education of Students with Disabilities - 3cr.

Open Electives

Complete the following as needed:
Total elective credit is determined by General Education courses taken, degree type selected, additional credits earned, and any additional math or other prerequisite courses needed. Please consult your Academic Advisor for details.

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Bachelor's Degree)

Suggested Degree Maps

Degree Map Name
Suggested Degree Map - Social Studies (Composite Teaching) BA, BS
Total Degree Map Credits
121 - 123
Degree Map Effective Catalog Year
2027 -

Degree Map Narrative

- Following is a sample four-year plan. Please note that student-specific plans may differ.
- Meet with an academic advisor to create a specific plan that best fits your academic needs.

- The student is ultimately responsible for knowing and completing all degree requirements.
- Make sure you meet the registration requirements for each class by clicking the course link and checking any prerequisites or corequisites.
- Consultation with an advisor may result in an altered plan customized for an individual student.
- Check your Degree Works for requirements and completion.

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	15 - 17	0

Requirement Select
- ENGL1010 - Writing as Inquiry (CL1)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- PSY1010 - General Psychology (BSS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- STAT1040 - Introduction to Statistics (QL)
  OR
- STAT1045 - Introduction to Statistics with Elements with Algebra (QL)
  OR
- STAT1080 - Foundations of Data Science (QL)
  OR
- MATH1050 - College Algebra (QL)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 5
Progress Credits	-
Contact Hours	3 - 5
Clinical	-
Criticality	No

Requirement Select
- USU1330 - Civilization: Creative Arts (BCA)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- USU1350 - Integrated Life Science (BLS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	15	0

Requirement Select
- HIST1100 - European History to 1500 (BHU)
  OR
- HIST1110 - European History from 1500 (BHU)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- HIST1510 - The Modern World (BHU)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- HIST2710 - United States 1877-Present (BAI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- POLS1100 - United States Government and Politics (BAI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- GEOG1300 - World Geography: Human and Environmental Dynamics (BSS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	15	0

Requirement Select
- ECON2020 - Introduction to Macroeconomics (BAI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- GEOG1000 - Physical Geography (BPS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- ANTH1010 - Cultural Anthropology (BSS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- HIST2700 - United States to 1877 (BAI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Political Science Elective (must be 3000-level or higher) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	15	0

Requirement Select

- ENGL2010 - Research and Argument Across Perspectives (CL2)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- PSY1100 - Lifespan Development

OR

- PSY2100 - Developmental Psychology: Adolescence

OR

- PSY4240 - Multicultural Psychology (DSS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- HIST1500 - Pre-Modern World (BHU)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- SOC1010 - Introductory Sociology (BSS)

OR

- SOC1020 - Social Problems (BSS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- ECON elective (see advisor for options) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Fall	15	0

Requirement Select

- Apply to the STEP program. See advisor for details. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- HIST1510 - The Modern World (BHU)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- GEOG4210 - Geography of Utah

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- SCED3210 - Educational and Multicultural Foundations (DSS/CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Depth Life and Physical Sciences (DSC) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- History elective (must be 3000-level or higher) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Spring	16	0

Requirement Select

- SPED4000 - Education of Students with Disabilities

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- HIST3850 - History of Utah (DHA/CI)

  OR
- HIST4600 - The History of the American West (DHA/CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- ITLS2500 - Technology Enabled Instruction

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- SCED3300 - Clinical Experience I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- SCED3500 - Teaching Social Studies

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- History elective (must be 3000-level or above; see advisor for options) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Fall	15	0

Requirement Select

- POLS3000 - Introduction to Political Research (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- SCED5100 - Motivation and Classroom Management

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- SCED5200 - Language, Literacy, and Learning in the Content Areas (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- SCED5210 - Learning Theory, Curriculum, and Assessment

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- HIST3000 - History Research Methods

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Spring	15	0

Requirement Select

- SCED5500 - Student Teaching Seminar

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select

- SCED5630 - Student Teaching in Secondary Schools

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	10
Progress Credits	-
Contact Hours	10
Clinical	-
Criticality	No

Requirement Select

- TEAL3780 - History of American Education (DSS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Program Learning Outcomes

Program Learning Outcomes

https://cehs.usu.edu/about/assessment

Space Systems Engineering (ECE) - MS

Program Overview

College	Department	Program Level
College of Engineering	Electrical & Computer Engineering	Graduate

About this Degree

The MS in Space Systems Engineering is a joint effort that is administered and delivered by the USU Electrical and Computer Engineering (ECE) Department and the USU Mechanical and Aerospace Engineering (MAE) Department. The program is primarily a MS Plan-C program (coursework only) and requires a total of 33 credit hours of coursework (12 core credit hours, and 21 elective credit hours) with a minimum of 18 credit hours at the 6000-level or higher. The program offers coursework in space systems engineering, space environment, space instruments, spacecraft controls, spacecraft navigation, astrodynamics, propulsion, aerodynamics, flight dynamics, and associated supporting coursework. The goal of the program is to provide early- and mid-career professionals with post-graduate education and an opportunity to develop an understanding of system engineering from the perspective of the space engineering discipline.

Admission Requirements for this Program

- GPA of 3.3

Program Requirements

Total Credits Required In Program Coursework	Total Credits Required To Earn This Credential
33	33

Simple Requisites

Program Requirements

School of Graduate Studies Requirements

- A bachelor's degree from an accredited U.S. college or university or a similarly recognized international university is required for admission to and completion of a graduate program.
- Graduate students are required to maintain at least a 3.0 GPA for degree-program courses. Grades of C- or lower will not be accepted for a graduate degree.
- The Program of Study for master's degree must include at least 18-semester credits at the level of 6000 or above.
- A master's degree must be completed within six years of entering the program. Additional time may be requested by the student's committee and submitted to the Vice Provost of Graduate Studies for review.
- Coursework over eight years old at the time of degree completion may not be used for a graduate degree unless it is revalidated.

Space Systems Engineering (ECE) - MS

- A minimum of 18 credits hours must be at the 6000-level or higher.
- Must receive a grade of "C" or better in each course while maintaining a graduate cumulative GPA of 3.0 or higher.
- School of Graduate Studies form: Program of Study

Space Systems Engineering (ECE) - MS

Type
Completion Requirement

Core Requirements

12 credits of core coursework (students must take all of the following courses):

Complete ALL of the following Courses:

- ECE5230 - Spacecraft Systems Engineering - 3cr.
- ECE5310 - Control Systems - 4cr.
  OR MAE5310 - Control Systems - 4cr.
- MAE5560 - Dynamics of Space Flight - 3cr.
- ECE6240 - Space Environment and Engineering - 3cr.

Electives

Students must complete 21 credits of elective coursework (choose 7 of the following courses):

Earn at least 21 credits from the following:

- ECE5235 - Space System Design - 3cr.
- ECE5320 - Mechatronics - 4cr.
  OR MAE5320 - Mechatronics - 4cr.
- ECE6010 - Stochastic Processes in Electronic Systems - 3cr.
- ECE6030 - Mathematical Methods for Signals and Systems - 3cr.
- ECE6040 - Convex Optimization - 3cr.
- ECE6320 - Linear Multivariable Control - 3cr.
  OR MAE6320 - Linear Multivariable Control - 3cr.
- ECE6340 - Spacecraft Attitude Control Theory - 3cr.
  OR MAE6340 - Spacecraft Attitude Control Theory - 3cr.
- ECE6560 - Spacecraft Navigation - 3cr.
  OR MAE6560 - Spacecraft Navigation - 3cr.
- ECE7030 - Detection and Estimation Theory - 3cr.
- ECE7210 - Spacecraft Instrumentation - 3cr.
- ECE7330 - Nonlinear and Adaptive Control - 3cr.
  OR MAE7330 - Nonlinear and Adaptive Control - 3cr.
- ECE7560 - Optimal Estimation for Aerospace Systems - 3cr.
  OR MAE7560 - Optimal Estimation for Aerospace Systems - 3cr.
- MAE5370 - Optimization for Engineers - 3cr.
- MAE5420 - Compressible Fluid Flow - 3cr.
- MAE5500 - Aerodynamics - 3cr.
- MAE5510 - Dynamics of Atmospheric Flight - 3cr.
- MAE5540 - Propulsion Systems - 3cr.
- MAE6540 - Cislunar Astrodynamics and Distributed Space Systems - 3cr.
- MAE6570 - Optimal Spacecraft Guidance - 3cr.
- MAE7540 - Astrodynamic Perturbations and Propagation - 3cr.
- MATH5410 - Methods of Applied Mathematics - 3cr.

Program Learning Outcomes

Program Learning Outcomes

https://engineering.usu.edu/

Space Systems Engineering (MAE) - MS

Program Overview

College
College of Engineering

Department
Mechanical & Aerospace Engineering

Program Level
Graduate

About this Degree

The Department of Mechanical and Aerospace Engineering provides each graduate with a foundation of knowledge and experience upon which to build successful careers in mechanical engineering, aerospace engineering, composite materials and structures or space systems engineering.

Space Systems Engineering MS-C degree is a joint effort between Mechanical and Aerospace Engineering (MAE) and Electrical and Computer Engineering (ECE). The goal of the program is to provide early- and mid-career professionals with post-graduate education and an opportunity to develop an understanding of system engineering from the perspective of the space engineering discipline. Space Systems engineers focus on the systems associated with space flight including propulsion, flight dynamics, navigation, controls, instrumentation and astrodynamics.

Admission Requirements for this Program

- Official transcript indicating a bachelor's degree in an accredited U.S. college or university or a similarly recognized international university in mechanical or aerospace engineering, or a closely related engineering discipline
- GPA of 3.3
- GRE scores are used by some faculty in choosing students and in funding decisions and are therefore strongly encouraged
- 3 letters of recommendation
- International students-proof of English proficiency (TOEFL or IELTS)

Program Requirements

Total Credits Required In Program Coursework
33

Total Credits Required To Earn This Credential
33

Simple Requisites

Program Requirements

- Must maintain a minimum 3.0 GPA
- A cumulative GPA of 3.0 is required for graduation
- Grades of C- or lower are not permitted on the program of study
- All graduate students must submit School of Graduate Studies forms and requirements for their chosen plan
- A master's degree must be completed within six years of entering the degree program. Additional time may be requested by the student's committee and submitted to the Vice Provost of Graduate Studies for review
- Coursework over eight years old at the time of degree completion may not be used for a graduate degree unless it is revalidated

One program plan is available for the Space Systems Engineering MS degree.

The **Plan C Coursework Only** requires 33 credits (minimum):

- 12 credits of Space core courses

- 21 credits of approved MAE technical electives
- Only 12 credits of approved 5000-level courses allowed
- Credits in the following areas are not acceptable: foreign languages, continuing graduate advisement, individual home study, military science, thesis research, and courses numbered below 5000
- Approval of academic forms required for master's students by the School of Graduate Studies
    - Program of Study

Course Requirements

Type
Completion Requirement

Complete required core courses

Complete ALL of the following Courses:

- ECE5230 - Spacecraft Systems Engineering - 3cr.
- ECE5310 - Control Systems - 4cr.
  OR MAE5310 - Control Systems - 4cr.
- MAE5560 - Dynamics of Space Flight - 3cr.
- ECE6240 - Space Environment and Engineering - 3cr.

Choose 21 credits of approved courses:

Earn at least 21 credits from the following:

- ECE5235 - Space System Design - 3cr.
  OR MAE5530 - Space System Design - 3cr.
- ECE5320 - Mechatronics - 4cr.
  OR MAE5320 - Mechatronics - 4cr.
- ECE6010 - Stochastic Processes in Electronic Systems - 3cr.
- ECE6030 - Mathematical Methods for Signals and Systems - 3cr.
- ECE6320 - Linear Multivariable Control - 3cr.
  OR MAE6320 - Linear Multivariable Control - 3cr.
- ECE6340 - Spacecraft Attitude Control Theory - 3cr.
  OR MAE6340 - Spacecraft Attitude Control Theory - 3cr.
- ECE6345 - Spacecraft Attitude Control Applications - 3cr.
- ECE6560 - Spacecraft Navigation - 3cr.
  OR MAE6560 - Spacecraft Navigation - 3cr.
- ECE6930 - Special Topics in Electrical Engineering - 1cr.
- ECE7030 - Detection and Estimation Theory - 3cr.
- ECE7210 - Spacecraft Instrumentation - 3cr.
- ECE7330 - Nonlinear and Adaptive Control - 3cr.
  OR MAE7330 - Nonlinear and Adaptive Control - 3cr.
- ECE7560 - Optimal Estimation for Aerospace Systems - 3cr.
  OR MAE7560 - Optimal Estimation for Aerospace Systems - 3cr.
- MAE5370 - Optimization for Engineers - 3cr.
- MAE5420 - Compressible Fluid Flow - 3cr.
- MAE5500 - Aerodynamics - 3cr.
- MAE5510 - Dynamics of Atmospheric Flight - 3cr.
- MAE5540 - Propulsion Systems - 3cr.
- MAE6540 - Cislunar Astrodynamics and Distributed Space Systems - 3cr.
- MAE6570 - Optimal Spacecraft Guidance - 3cr.
- MAE7540 - Astrodynamic Perturbations and Propagation - 3cr.
- MATH5410 - Methods of Applied Mathematics - 3cr.

ECE6930 ST: ELECTRICAL ENGINEERING with section topic "Electromagnetic Compatibility"

Program Learning Outcomes

Program Learning Outcomes
https://engineering.usu.edu/

Soils and Sustainable Land Systems - Environmental Soil Science Option - BS

Program Overview

College
College of Agriculture & Natural Resources

Department
Plants, Soils and Climate

Program Level
Undergraduate

About this Degree

The Soils and Sustainable Land Systems major provides students with an understanding of the physical, chemical, and biological processes that occur in the soil-water-atmosphere zone at the earth's surface.

Environmental Soil Science Emphasis: This emphasis features a core curriculum of math and science courses and introductory soil science courses. Students then choose electives that are more in-depth and specific to soil science.

- For more information about Soils and Sustainable Land Systems, see the website.
- Admitted and current students must meet with an advisor.
- Log on to Degree Works to check student-specific program progress.
- Can also have an emphasis in Sustainable Food Production
- The highest math requirement for this degree is STAT2000 STATISTICAL METHODS (QI) or STAT3000 STATISTICS FOR SCIENTISTS (QI)

Admission Requirements for this Program

- New freshmen: Admitted to USU in Good Standing
- Transfer students from other institutions or other programs at USU: 2.5 GPA

Program Requirements

Total Credits Required In Program Coursework
84

Total Credits Required To Earn This Credential
120

Simple Requisites

Program Requirements

This major requires a minimum GPA of 2.5 in program coursework. Courses for the program may not be taken on a pass/fail basis.

Contact Abby Macbeth, abby.macbeth@usu.edu, 435-797-0454 for advising.

Major Requirements (84 credits)

Type
Completion Requirement

Preparatory Core Requirements (47 credits)

Complete ALL of the following Courses:

- BIOL1610 - Biology I - 3cr.
- BIOL1615 - Biology I Laboratory - 1cr.
- CHEM1110 - General Chemistry I (BPS) - 4cr.
- CHEM1120 - General Chemistry II (BPS) - 4cr.
- CHEM1125 - General Chemistry II Laboratory - 1cr.
- GEO1110 - Physical Geology (BPS) - 3cr.
- GEO1115 - Physical Geology Laboratory - 1cr.
- MATH1050 - College Algebra (QL) - 4cr.
- MATH1060 - Trigonometry - 2cr.
- PSC1050 - Plants, Soils, and Climate Orientation - 1cr.
- PSC2000 - The Atmosphere and Weather (BPS) - 3cr.
- PSC3000 - Fundamentals of Soil Science - 4cr.
- PSC3500 - Structure and Function of Plants - 3cr.
- PSC5760 - Climate and Climate Change (DSC)(QI) - 3cr.
- PHYS2110 - General Physics—Life Sciences I - 4cr.
- STAT2000 - Statistical Methods (QI) - 4cr.
  OR STAT3000 - Statistics for Scientists (QI) - 3cr.
- WILD2200 - Ecology of Our Changing World (BLS) - 3cr.

Required Professional Core (22 credits)

Complete ALL of the following Courses:

- APEC3012 - Introduction to Natural Resource Economics (DSS) - 3cr.
- PSC5050 - Principles of Environmental Soil Chemistry - 3cr.
- PSC5130 - Soil Genesis, Morphology, and Classification - 4cr.
- PSC5530 - Soil Health and Fertility (QI) - 3cr.
- PSC5560 - Analytical Techniques for the Soil Environment - 3cr.
- PSC5670 - Environmental Soil Physics - 4cr.
- PSC5740 - Environmental Quality: Soil and Water (CI) - 2cr.

Further Discipline Courses (15 credits)

Choose 15 credits from the following courses.

Earn at least 15 credits from the following:

- ASTE5260 - Environmental Impacts of Agricultural Systems (CI) - 3cr.
- BIOL4400 - Plant Physiology (QI) - 4cr.
- BIOL4410 - Plant Structure - 3cr.
- BIOL4430 - Introduction to Plant Pathology - 4cr.
- BIOL4500 - Applied Entomology - 3cr.
- BIOL5310 - Soil Microbiology - 3cr.
- CEE3430 - Engineering Hydrology - 3cr.
- CEE5000 - Irrigation and Drainage of Agricultural Lands - 3cr.
- CEE5003 - Remote Sensing of Land Surfaces - 3cr.
- CEE5190 - Geographic Information Systems for Civil Engineers - 3cr.
- CHEM3000 - Quantitative Analysis (QI) - 3cr.
- GEO2800 - Minerals and Rocks - 4cr.
- GEO3150 - Energy in the Twenty-first Century (DSC/QI) - 3cr.
- GEO3550 - Sedimentation and Stratigraphy - 4cr.
- GEO3600 - Geomorphology - 4cr.
- GEO5150 - Fluvial Geomorphology - 3cr.
- GEO5510 - Groundwater Geology (QI) - 3cr.
- GEO5520 - Techniques of Groundwater Investigations (CI) - 3cr.
- GEO5600 - Geochemistry - 4cr.
- GEO5630 - Remote Sensing for Geoscientists - 3cr.
- GEOG5500 - Advanced Geographic Information Sciences (GIS) - 3cr.
- GEO5680 - Paleoclimatology - 3cr.
- PSC1800 - Introduction to Horticulture (BLS) - 3cr.
- PSC2600 - Herbaceous Plant Materials - 3cr.
- PSC2620 - Woody Plant Materials: Trees and Shrubs for the Landscape - 3cr.
- PSC2700 - Climate Change Impacts (BPS) - 3cr.
- PSC3100 - Soils and Civilization (DSC) - 3cr.
- PSC3400 - Arboriculture - 3cr.
- PSC3600 - An Introduction to Plant Breeding and Heredity - 3cr.
- PSC3800 - Fundamentals of Organic Agriculture - 3cr.
  AND PSC3801 - Fundamentals of Organic Agriculture Lab I -

1cr.
AND PSC3802 - Fundamentals of Organic Agriculture Fall Lab 2 - 1cr.
- PSC3810 - Turfgrass Management - 3cr.
- PSC4070 - Agroecology - 3cr.
- PSC4280 - Field and Food Cropping Systems - 3cr.
- PSC4320 - Forage Production and Pasture Management - 3cr.
- PSC4400 - Modern Vegetable Production - 3cr.
- PSC4500 - Urban Soil Management and Reclamation - 3cr.
- PSC4970 - Undergraduate Research - 1cr.
- PSC5710 - Irrigated Soils - 3cr.
- PSC5003 - Remote Sensing of Land Surfaces - 3cr.
- PSC5222 - Temperate Zone Fruit Production - 3cr.
- PSC5270 - Environmental Plant Physiology - 2cr.
- PSC5310 - Soil Microbiology - 3cr.
- PSC5350 - Wildland Soils - 3cr.
- PSC5430 - Plant Nutrition - 2cr.
- PSC5500 - Environmental Physics of Land Ecosystems & Climate - 3cr.
- PSC5530 - Soil Health and Fertility (QI) - 3cr.
- PSC5550 - Fundamentals of Integrated Weed Management - 4cr.
- PSC6100 - Professional Turf and Urban Landscape Water Management - 3cr.
- WATS3700 - Fundamentals of Watershed Science (CI) - 3cr.
- WATS4510 - Aquatic Ecology Methods - 2cr.
- WATS5003 - Remote Sensing of Land Surfaces - 4cr.
- WATS5150 - Fluvial Geomorphology - 3cr.
- WATS5640 - Riparian Ecology and Management - 3cr.
- WILD3800 - Wildland Plants and Ecosystems - 4cr.
- WILD4750 - Monitoring and Assessment in Natural Resource and Environmental Management - 4cr.
- WILD4910 - Vegetation Resource Management and Planning (CI) - 3cr.
- WILD5350 - Wildland Soils - 3cr.
- WATS5500 - Limnology: Ecology of Inland Waters - 3cr.
- WATS5530 - Water Quality and Pollution - 3cr.
- WILD5750 - Applied Remote Sensing - 3cr.

Open Electives

Complete the following as needed:
Total elective credit is determined by General Education courses taken, degree type selected, additional credits earned, and any additional math or other prerequisite courses needed. Please consult your Academic Advisor for details.

Minimum University Requirements

Minimum University Requirements
Minimum University Requirements (Bachelor's Degree)

Suggested Degree Maps

Degree Map Name
Suggested Degree Map - Soils and Sustainable Land Systems: Environmental Soil Science Option BA, BS
Total Degree Map Credits
120 - 122
Degree Map Effective Catalog Year
2027 -

Degree Map Narrative
- Following is a sample four-year plan. Please note that student-specific plans may differ.
- Meet with an academic advisor to create a specific plan that best fits your academic needs.
- The student is ultimately responsible for knowing and completing all degree requirements.
- Make sure you meet the registration requirements for each class by clicking the course link and checking any prerequisites or corequisites.
- Consultation with an advisor may result in an altered plan customized for an individual student.
- Check your Degree Works for requirements and completion.

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	16	0

Requirement Select
- BIOL1610 - Biology I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- BIOL1615 - Biology I Laboratory

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- GEO1110 - Physical Geology (BPS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- GEO1115 - Physical Geology Laboratory

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- MATH1050 - College Algebra (QL)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- Communications Literacy (CL1) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- PSC1050 - Plants, Soils, and Climate Orientation

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	15	0

Requirement Select
- CHEM1110 - General Chemistry I (BPS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- MATH1060 - Trigonometry

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select
- WILD2200 - Ecology of Our Changing World (BLS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Breadth Social Sciences (BSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Communications Literacy (CL2) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	13 - 14	0

Requirement Select
- LAEP1030 - Introduction to Landscape Architecture (BCA)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- PSC3000 - Fundamentals of Soil Science

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- Breadth American Institutions (BAI) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- LAEP1030 is recommended to fulfill the BCA requirement; USU1300 is recommended to fulfill the BAI requirement (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Quantitative Literacy (QL) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	15	0

Requirement Select
- CHEM1120 - General Chemistry II (BPS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- CHEM1125 - General Chemistry II Laboratory

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- PSC2000 - The Atmosphere and Weather (BPS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- PSC3500 - Structure and Function of Plants

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Breadth Humanities (BHU) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Elective course (1 credit) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Fall	14 - 15	0

Requirement Select

- PSC5130 - Soil Genesis, Morphology, and Classification

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- STAT2000 - Statistical Methods (QI)

  OR
- STAT3000 - Statistics for Scientists (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 4
Progress Credits	-
Contact Hours	3 - 4
Clinical	-
Criticality	No

Requirement Select

- Discipline Courses (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Elective course (1 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- PHYS2110 - General Physics—Life Sciences I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Spring	15	0

Requirement Select

- PSC5530 - Soil Health and Fertility (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- PSC5050 - Principles of Environmental Soil Chemistry

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- PSC5560 - Analytical Techniques for the Soil Environment

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Discipline Courses (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- PSC5050 and PSC5560 are taught odd years only (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Breadth Physical Sciences (BPS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Fall	16	0

Requirement Select

- PSC5670 - Environmental Soil Physics

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- APEC3012 - Introduction to Natural Resource Economics (DSS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- PSC5760 - Climate and Climate Change (DSC)(QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Communications Intensive (CI) Courses

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Discipline Courses (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- PSC5670 is taught even years only (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Spring	16	0

Requirement Select

- PSC5740 - Environmental Quality: Soil and Water (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select

- Depth Humanities and Creative Arts (DHA) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Communications Intensive (CI) Courses

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Discipline Courses (6 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Elective (2 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Program Learning Outcomes

Program Learning Outcomes

https://www.usu.edu/oda/assessment/

Soils and Sustainable Land Systems - Sustainable Food Production Option - BS

Program Overview

College
College of Agriculture & Natural Resources

Department
Plants, Soils and Climate

Program Level
Undergraduate

About this Degree

The Soils and Sustainable Land Systems major provides students with an understanding of the physical, chemical, and biological processes that occur in the soil-water-atmosphere zone at the earth's surface.

Sustainable Food Production Emphasis: This emphasis features a core curriculum of math, science and some introductory soil science courses. Students will choose electives that are more specific to agriculture and human systems.

Contact Abby Macbeth, abby.macbeth@usu.edu, 435-797-0454 for advising.

- For more information about Soils and Sustainable Land Systems, see the website.
- Admitted and current students must meet with an advisor.
- Log on to Degree Works to check student-specific program progress.
- Can also have an emphasis in Environmental Soil Science.
- The highest math requirement for this degree is MATH1050 COLLEGE ALGEBRA (QL)

Admission Requirements for this Program

- New freshmen: Admitted to USU in Good Standing
- Transfer students from other institutions or other programs at USU: 2.5 GPA

Program Requirements

Total Credits Required In Program Coursework
78-81

Total Credits Required To Earn This Credential
120

Simple Requisites

Program Requirements

This major requires a minimum GPA of 2.5 in program coursework. Courses for the program may not be taken on a pass/fail basis.

Soils and Sustainable Land Systems: Sustainable Food Production Option - BA, BS Course Requirements

Type
Completion Requirement

Preparatory Core Requirements (49-52 credits)

Complete ALL of the following Courses:

- BIOL1610 - Biology I - 3cr.
- BIOL1615 - Biology I Laboratory - 1cr.
- BIOL4430 - Introduction to Plant Pathology - 4cr.
- BIOL4500 - Applied Entomology - 3cr.
- CHEM1110 - General Chemistry I (BPS) - 4cr.
- MATH1050 - College Algebra (QL) - 4cr.
- PSC1050 - Plants, Soils, and Climate Orientation - 1cr.
- PSC2700 - Climate Change Impacts (BPS) - 3cr.

- PSC3000 - Fundamentals of Soil Science - 4cr.
- PSC3500 - Structure and Function of Plants - 3cr.
- PSC3600 - An Introduction to Plant Breeding and Heredity - 3cr.
- PSC3800 - Fundamentals of Organic Agriculture - 3cr.
- PSC3801 - Fundamentals of Organic Agriculture Lab I - 1cr.
- PSC3802 - Fundamentals of Organic Agriculture Fall Lab 2 - 1cr.
- PSC4250 - Internship in Plants, Soils, and/or Climate - 1cr.
- PSC5070 - Agroecology - 3cr.
- PSC5530 - Soil Health and Fertility (QI) - 3cr.
- PSC5550 - Fundamentals of Integrated Weed Management - 4cr.

Agricultural Coursework (18 credits)

Earn at least 18 credits from the following:

- ADVS1100 - Small-Scale and Specialty Animal Production - 3cr.
- ADVS5030 - Sustainable Agricultural Production Systems with Animals - 3cr.
- ASTE1130 - Agricultural Machinery Systems: Planting, Tillage, and Harvest Technologies - 3cr.
- ASTE3080 - Compact Power Units for Agricultural and Turfgrass Applications - 3cr.
- BIOL1620 - Biology II (BLS) - 3cr.
- BIOL1625 - Biology II Laboratory - 1cr.
- PSC4050 - Greenhouse Management and Crop Production - 4cr.
- PSC4280 - Field and Food Cropping Systems - 3cr.
- PSC4320 - Forage Production and Pasture Management - 3cr.
- PSC4400 - Modern Vegetable Production - 3cr.
- PSC5222 - Temperate Zone Fruit Production - 3cr.
- PSC5420 - Landscape Irrigation Design (QI) - 2cr.
- PSC5710 - Irrigated Soils - 3cr.
- PSC5760 - Climate and Climate Change (DSC)(QI) - 3cr.
- WILD4000 - Principles of Rangeland Management - 3cr.
- WILD4500 - Principles of Wildlife Management - 3cr.

Human Systems Coursework (12 credits)

Earn at least 12 credits from the following:

- ENVS2340 - Environment, Natural Resources, and Society (BSS) - 3cr.
- ENVS3300 - Fundamentals of Natural Resource Recreation Management - 3cr.
- ENVS4700 - Communicating Sustainability (CI) - 3cr.
- ENVS5550 - Sustainability: Concepts and Measurement - 3cr.
- IS5700 - User Interface/User Experience Web Design - 3cr.
- LAEP2039 - Foundations of Sustainable Systems - 3cr.
- MSLE3500 - Fundamentals of Marketing - 3cr.
- PHIL3530 - Environmental Ethics (DHA) - 3cr.
- SOC3610 - Rural People and Places (DSS) - 3cr.
- SOC4620 - Sociology of the Environment and Natural Resources (DSS) - 3cr.
- SOC5640 - Managing Community Conflict (CI) - 3cr.
- WATS1200 - The Natural World and Our Place Within It (BLS) - 3cr.

Open Electives

Complete the following as needed:
Total elective credit is determined by General Education courses taken, degree type selected, additional credits earned, and any additional math or other prerequisite courses needed. Please consult your Academic Advisor for details.

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Bachelor's Degree)

Suggested Degree Maps

Degree Map Name
Suggested Degree Map - Soils and Sustainable Land Systems: Sustainable Food Production Option BA, BS
Total Degree Map Credits
121
Degree Map Effective Catalog Year
2027 -

Degree Map Narrative

- Following is a sample four-year plan. Please note that student-specific plans may differ.
- Meet with an academic advisor to create a specific plan that best fits your academic needs.
- The student is ultimately responsible for knowing and completing all degree requirements.
- Make sure you meet the registration requirements for each class by clicking the course link and checking any prerequisites or corequisites.
- Consultation with an advisor may result in an altered plan customized for an individual student.
- Check your Degree Works for requirements and completion.

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	16	0

Requirement Select

- CHEM1110 - General Chemistry I (BPS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- CHEM1115 - General Chemistry I Laboratory

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- MATH1050 - College Algebra (QL)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- Breadth Creative Arts (BCA) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Communications Literacy (CL1) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- USU1330 is recommended to fulfill the BCA requirement (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- PSC1050 - Plants, Soils, and Climate Orientation

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	15	0

Requirement Select
- APEC1600 - Natural Resources and American Economic Institutions (BAI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- ASTE2900 - Food Matters: Ethics, Economics, and the Environment (BSS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Breadth Humanities (BHU) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Communications Literacy (CL2) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Agricultural coursework (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- APEC1600 is recommended to fulfill the BAI requirement; ASTE2900 is strongly recommended to fulfill the BSS requirement; PHIL1120 is recommended to fulfill the BHU requirement (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	15	0

Requirement Select
- APEC2010 - Introduction to Microeconomics (BSS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- BIOL1610 - Biology I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- BIOL1615 - Biology I Laboratory

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- Agricultural coursework (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective course (5 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- PSC3000 - Fundamentals of Soil Science

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	16	0

Requirement Select
- APEC3010 - Agricultural Economics (DSS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Human Systems coursework (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- PSC3800 - Fundamentals of Organic Agriculture

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Breadth Life Sciences (BLS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- PSC3500 - Structure and Function of Plants

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- PSC3801 - Fundamentals of Organic Agriculture Lab I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Fall	14	0

Requirement Select
- BIOL4500 - Applied Entomology

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- PSC3802 - Fundamentals of Organic Agriculture Fall Lab 2

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- PSC5550 - Fundamentals of Integrated Weed Management

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- Depth Humanities and Creative Arts (DHA) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Communications Intensive (CI) Courses

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Spring	15	0

Requirement Select

- PSC3600 - An Introduction to Plant Breeding and Heredity

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Communications Intensive (CI) Courses

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Agricultural coursework (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Human Systems coursework (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- PSC 3600 is only taught even years. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Fall	15	0

Requirement Select

- BIOL4430 - Introduction to Plant Pathology

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- PSC4250 - Internship in Plants, Soils, and/or Climate

Course Requirement Group	
Course Requirement Group (Free Text)	Up to 4 credits can be taken
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1 - 4
Clinical	-
Criticality	No

Requirement Select

- WILD2200 - Ecology of Our Changing World (BLS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Agricultural coursework (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Human Systems coursework (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Elective Course (1 credit) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Spring	15	0

Requirement Select

- PSC5070 - Agroecology

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- PSC2700 - Climate Change Impacts (BPS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- PSC5530 - Soil Health and Fertility (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Human Systems Coursework (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- PSC5070 is taught spring semester of even years (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Human Systems Coursework (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Program Learning Outcomes

Program Learning Outcomes

https://www.usu.edu/oda/assessment/

Statistics - Minor

Program Overview

College
College of Arts & Sciences

Department
Mathematics & Statistics

Program Level
Undergraduate

Program Requirements

Total Credits Required In Program Coursework
15

Total Credits Required To Earn This Credential
15

Simple Requisites

Program Requirements

All grades for MATH and STAT courses applied toward a departmental major or minor must be C- or better. A minimum of 15 credits are required.

Section 1

Type
Completion Requirement

Required Courses (9 credits)

Complete ALL of the following Courses:

- STAT2000 - Statistical Methods (QI) - 4cr.
  OR STAT3000 - Statistics for Scientists (QI) - 3cr.
- STAT5100 - Modern Regression Methods (CI/QI) - 3cr.
- STAT5200 - Analysis of Designed Experiments - 3cr.

Section 2

Type
Completion Requirement

Elective Courses (6 credits)

Select 6 credits from STAT courses numbered above 5000, or from the following MATH courses:

Earn at least 6 credits from the following:

- MATH5710 - Introduction to Probability - 3cr.
- MATH5720 - Introduction to Mathematical Statistics - 3cr.
- MATH5760 - Applied Stochastic Processes - 3cr.

● STAT 5000 level course or higher.

Program Learning Outcomes

Program Learning Outcomes

https://www.usu.edu/math/assessment/Mathematics

Statistics: Actuarial Science Emphasis - BA, BS

Program Overview

College
College of Arts & Sciences

Department
Mathematics & Statistics

Program Level
Undergraduate

About this Degree

Statistics is the science of characterizing uncertainty and extracting information from numerical data.

Statistics majors at USU receive a solid education in areas like probability, linear regression/ time series, experiment design, quality control, and various areas in statistical analysis.

Essentially, statisticians can work in any career or for any company where data is collected or analyzed. Because of this, and the fact that not enough people graduate in statistics to meet the current career demand, USU statistics majors have an extremely high job placement after graduation. The Mathematics and Statistics Department is a close-knit unit where students receive individual attention from faculty mentors and the opportunity to pursue undergraduate research.

Students receive a degree by completing all required courses in the major. To receive a BA, students must also gain proficiency in one or more foreign languages. See Undergraduate Academic Credential Requirements for language requirements.

Actuarial Science: An actuary is a business professional who uses mathematical skills to define, analyze, and solve financial and social problems. USU is one of the only universities where students can complete the full undergraduate program in actuarial science required for job placement as an actuary. USU graduates in actuarial science require no further education in graduate school and receive 100% job placement in a career that is consistently rated as one of the top two careers in terms of job satisfaction, opportunities for advancement, and pay. This emphasis is also available through the mathematics degree, but it is essentially the same.

- For more information about Statistics, Actuarial Science Emphasis, see the website.
- Admitted and current students must meet with their advisor, Linda Skabelund.
- Log on to Degree Works to check student-specific program progress.
- The highest math requirement for this degree is MATH5580 ACTUARIAL MATH II (CI).

Admission Requirements for this Program

- New freshmen: Admitted to USU in Good Standing
- Transfer students from other institutions or other programs at USU: 2.75 GPA

Program Requirements

Total Credits Required In Program Coursework
65-68

Total Credits Required To Earn This Credential
120

Simple Requisites

Program Requirements

All mathematics and statistics courses require a grade of C- or better. Program coursework *may not* be taken on a pass/fail basis.

Statistics: Actuarial Science Emphasis - BA, BS

Type
Completion Requirement

Statistics Major Requirements (56-57 credits)

Complete ALL of the following Courses:

- ACCT2010 - Financial Accounting Principles - 3cr.
- ECON2010 - Introduction to Microeconomics (BSS) - 3cr.
- ECON2020 - Introduction to Macroeconomics (BAI) - 3cr.
- MATH1210 - Calculus I (QL) - 4cr.
- MATH1220 - Calculus II (QL) - 4cr.
- MATH2210 - Multivariable Calculus (QI) - 3cr.
- MATH2270 - Linear Algebra (QI) - 3cr.
  OR DSAI2275 - Linear Algebra for Data Science - 4cr.
- MATH2280 - Ordinary Differential Equations (QI) - 3cr.
- MATH3310 - Discrete Mathematics - 3cr.
- MATH4200 - Foundations of Analysis (CI) - 3cr.
- MATH5560 - Actuarial Financial Mathematics - 3cr.
- MATH5570 - Actuarial Math I - 3cr.
- MATH5580 - Actuarial Math II (CI) - 3cr.
- MATH5710 - Introduction to Probability - 3cr.
- MATH5720 - Introduction to Mathematical Statistics - 3cr.
- STAT3000 - Statistics for Scientists (QI) - 3cr.
- STAT5100 - Modern Regression Methods (CI/QI) - 3cr.
- STAT5200 - Analysis of Designed Experiments - 3cr.

• 3 credits of STAT electives at the 5000-level

Science Sequence (6-8 credits)

Choose **one** of the following sequences:

Fulfill ANY of the following requirements:

Biology Sequence

Complete ALL of the following Courses:

- BIOL1610 - Biology I - 3cr.
- BIOL1620 - Biology II (BLS) - 3cr.

OR

Chemistry Sequence

Complete ALL of the following Courses:

- CHEM1210 - Principles of Chemistry I - 4cr.
- CHEM1220 - Principles of Chemistry II (BPS) - 4cr.

OR

Geology Sequence

Complete ALL of the following Courses:

- GEO1110 - Physical Geology (BPS) - 3cr.
  AND GEO1115 - Physical Geology Laboratory - 1cr.
- GEO2200 - The Earth Through Time - 3cr.

OR

Physics Sequence

Choose one of the following course sets:

Complete ANY of the following Courses:

- PHYS2110 - General Physics—Life Sciences I - 4cr.
  AND PHYS2120 - General Physics - Life Sciences II (BPS) - 4cr.
- PHYS2210 - Physics for Scientists and Engineers I (QI/ BPS) - 4cr.
  AND PHYS2220 - Physics for Scientists and Engineers II (BPS/QI) - 4cr.

OR

Computer Science Sequence

Complete ALL of the following Courses:

- CS1400 - Introduction to Computer Science--CS 1 - 4cr.
- CS1410 - Introduction to Computer Science--CS 2 (QI) - 3cr.
  OR CS1440 - Software Engineering Fundamentals - 3cr.

Open Electives

Complete the following as needed:
Total elective credit is determined by General Education courses taken, degree type selected, additional credits earned, and any additional math or other prerequisite courses needed. Please consult your Academic Advisor for details.

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Bachelor's Degree)

Suggested Degree Maps

Degree Map Name
Suggested Degree Map - Statistics: Actuarial Science Emphasis - BA, BS
Total Degree Map Credits
91 - 93
Degree Map Effective Catalog Year
2027 -

Degree Map Narrative

- Following is a sample four-year plan. Please note that student-specific plans may differ.
- Meet with an academic advisor to create a specific plan that best fits your academic needs.
- The student is ultimately responsible for knowing and completing all degree requirements.
- Make sure you meet the registration requirements for each class by clicking the course link and checking any prerequisites or corequisites.
- Consultation with an advisor may result in an altered plan customized for an individual student.
- Check your Degree Works for requirements and completion.

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	14 - 15	0

Requirement Select
- Communications Literacy (CL1) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- ECON2020 - Introduction to Macroeconomics (BAI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- MATH1210 - Calculus I (QL)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- Science Sequence Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	17	0

Requirement Select
- ECON2010 - Introduction to Microeconomics (BSS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Communications Literacy (CL2) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- MATH1220 - Calculus II (QL)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- STAT3000 - Statistics for Scientists (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Science Sequence Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	12 - 13	0

Requirement Select

- ACCT2010 - Financial Accounting Principles

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- MATH2210 - Multivariable Calculus (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- MATH2270 - Linear Algebra (QI)

  OR
- DSAI2275 - Linear Algebra for Data Science

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 4
Progress Credits	-
Contact Hours	3 - 4
Clinical	-
Criticality	No

Requirement Select

- Breadth Physical Sciences (BPS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	12	0

Requirement Select

- MATH2280 - Ordinary Differential Equations (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- MATH3310 - Discrete Mathematics

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- STAT5100 - Modern Regression Methods (CI/QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Breadth Humanities (BHU) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Fall	12	0

Requirement Select
- MATH5710 - Introduction to Probability

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- STAT5200 - Analysis of Designed Experiments

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Breadth Life Sciences (BLS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Breadth Creative Arts (BCA) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Spring	12	0

Requirement Select
- MATH4200 - Foundations of Analysis (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- MATH5560 - Actuarial Financial Mathematics

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- MATH5720 - Introduction to Mathematical Statistics

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- STAT 5XXX Elective course (if Statistics Actuary) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Fall	6	0

Requirement Select

- MATH5570 - Actuarial Math I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Depth Humanities and Creative Arts (DHA) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Spring	6	0

Requirement Select

- MATH5580 - Actuarial Math II (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Depth Social Sciences (DSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	Total Major Credits
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Program Learning Outcomes

Program Learning Outcomes

https://artsci.usu.edu/math-stats/assessment/Mathematics

Statistics - BA, BS

Program Overview

College
College of Arts & Sciences

Department
Mathematics & Statistics

Program Level
Undergraduate

About this Degree

Statistics is the science of characterizing uncertainty and extracting information from numerical data.

Statistics majors at USU receive a solid education in areas like probability, linear regression/ time series, experiment design, quality control, and various areas in statistical analysis.

Essentially, statisticians can work in any career or for any company where data is collected or analyzed. Because of this, and the fact that not enough people graduate in statistics to meet the current career demand, USU statistics majors have an extremely high job placement after graduation. The Mathematics and Statistics Department is a close-knit unit where students receive individual attention from faculty mentors and the opportunity to pursue undergraduate research.

Students receive a degree by completing all required courses in the major. To receive a BA, students must also gain proficiency in one or more foreign languages. See Undergraduate Academic Credential Requirements for language requirements.

- For more information about Statistics, see the website.
- Admitted and current students must meet with their advisor, Linda Skabelund.
- Log on to Degree Works to check student-specific program progress.
- The highest math requirement for this degree is MATH5720 INTRO TO MATH STATISTICS.

Admission Requirements for this Program

- New freshmen: Admitted to USU in Good Standing
- Transfer students from other institutions or other programs at USU: 2.75 GPA

Program Requirements

Total Credits Required In Program Coursework

Total Credits Required To Earn This Credential
120

Simple Requisites

Program Requirements

Additional Information

Some major coursework will fulfill General Education Requirements and University Studies Requirements.

- CHEM1120 GENERAL CHEMISTRY II (BPS) or GEO1110 PHYSICAL GEOLOGY (BPS) will fulfill the Breadth Physical Sciences (BPS) requirement.
- MATH4200 FOUNDATIONS OF ANALYSIS (CI), MATH4310 INTRO ALGEBRAIC STRC (CI) , MATH5580 ACTUARIAL MATH II (CI), and STAT5100 MODERN REGRESSION METH(CI)(QI) will meet the Communications Intensive (CI) requirement.
- MATH2210 MULTIVARIABLE CALCULUS (QI), MATH2210 MULTIVARIABLE CALCULUS (QI), MATH2250 LINEAR ALG/DIFF EQUATIONS (QI), MATH2270 LINEAR ALGEBRA (QI), MATH2280 ORD DIFFRNTIAL EQUATIONS (QI), STAT2000 STATISTICAL METHODS (QI), STAT2300 BUSINESS STATISTICS (QL) or STAT3000 STATISTICS FOR SCIENTISTS (QI) will meet the Quantitative Intensive (QI) requirement.

Program Requirements

All mathematics and statistics courses require a grade of C- or better. Program coursework *may not* be taken on a pass/fail basis.

Statistics - BA, BS

Type
Completion Requirement

Statistics Major Requirements (32 credits)

Complete ALL of the following Courses:

- MATH1210 - Calculus I (QL) - 4cr.
- MATH1220 - Calculus II (QL) - 4cr.
- MATH2210 - Multivariable Calculus (QI) - 3cr.
- MATH2270 - Linear Algebra (QI) - 3cr.
  OR DSAI2275 - Linear Algebra for Data Science - 4cr.
- MATH4200 - Foundations of Analysis (CI) - 3cr.
- MATH5710 - Introduction to Probability - 3cr.
- MATH5720 - Introduction to Mathematical Statistics - 3cr.
- STAT3000 - Statistics for Scientists (QI) - 3cr.
- STAT5100 - Modern Regression Methods (CI/QI) - 3cr.
- STAT5200 - Analysis of Designed Experiments - 3cr.

Requirements (7 credits)

Complete ALL of the following Courses:

- CS1400 - Introduction to Computer Science--CS 1 - 4cr.
- MATH3310 - Discrete Mathematics - 3cr.

Statistics Electives (12 credits)

Students must complete 12 credits in any STAT 5000 or above, or the following MATH courses:

Earn at least 12 credits from the following:

- MATH5570 - Actuarial Math I - 3cr.
- MATH5610 - Introduction to Numerical Analysis - 3cr.
- MATH5760 - Applied Stochastic Processes - 3cr.

• STAT 5000 level course or higher.

College of Science Sequence (6-8 credits)

Choose **one** of the following sequences:

Fulfill ANY of the following requirements:

Biology Sequence

Complete ALL of the following Courses:

- BIOL1610 - Biology I - 3cr.
- BIOL1620 - Biology II (BLS) - 3cr.

OR

Chemistry Sequence

Complete ALL of the following Courses:

- CHEM1210 - Principles of Chemistry I - 4cr.
- CHEM1220 - Principles of Chemistry II (BPS) - 4cr.

OR

Geology Sequence

Complete ALL of the following Courses:

- GEO1110 - Physical Geology (BPS) - 3cr.
  AND GEO1115 - Physical Geology Laboratory - 1cr.
- GEO2200 - The Earth Through Time - 3cr.

OR

Physics Sequence

Complete one of the following course sets:

Complete ANY of the following Courses:

- PHYS2110 - General Physics—Life Sciences I - 4cr.
  AND PHYS2120 - General Physics - Life Sciences II (BPS) - 4cr.
- PHYS2210 - Physics for Scientists and Engineers I (QI/BPS) - 4cr.
  AND PHYS2220 - Physics for Scientists and Engineers II (BPS/QI) - 4cr.

OR

Computer Science Sequence

Complete ALL of the following Courses:

- CS1400 - Introduction to Computer Science--CS 1 - 4cr.
- CS1410 - Introduction to Computer Science--CS 2 (QI) - 3cr.
  OR CS1440 - Software Engineering Fundamentals - 3cr.

Open Electives

Complete the following as needed:
Total elective credit is determined by General Education courses taken, degree type selected, additional credits earned, and any additional math or other prerequisite courses needed. Please consult your Academic Advisor for details.

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Bachelor's Degree)

Suggested Degree Maps

Degree Map Name
Suggested Degree Map - Statistics - BA, BS
Total Degree Map Credits
87 - 90
Degree Map Effective Catalog Year
2026 -

Degree Map Narrative

- Following is a sample four-year plan. Please note that student-specific plans may differ.
- Meet with an academic advisor to create a specific plan that best fits your academic needs.
- The student is ultimately responsible for knowing and completing all degree requirements.
- Make sure you meet the registration requirements for each class by clicking the course link and checking any prerequisites or corequisites.
- Consultation with an advisor may result in an altered plan customized for an individual student.
- Check your Degree Works for requirements and completion.

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	14	0

Requirement Select

- ENGL1010 - Writing as Inquiry (CL1)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- MATH1210 - Calculus I (QL)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- Breadth Creative Arts (BCA) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- College of Science course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	14	0

Requirement Select

- MATH1220 - Calculus II (QL)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- STAT3000 - Statistics for Scientists (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- ENGL2010 - Research and Argument Across Perspectives (CL2)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- College of Science course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	12 - 13	0

Requirement Select

- MATH2210 - Multivariable Calculus (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- MATH2270 - Linear Algebra (QI)

  OR
- DSAI2275 - Linear Algebra for Data Science

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 4
Progress Credits	-
Contact Hours	3 - 4
Clinical	-
Criticality	No

Requirement Select

- STAT5200 - Analysis of Designed Experiments

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Breadth Social Sciences (BSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	16	0

Requirement Select
- CS1400 - Introduction to Computer Science--CS 1

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- STAT5100 - Modern Regression Methods (CI/QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- MATH3310 - Discrete Mathematics

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Breadth American Institutions (BAI) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Breadth Humanities (BHU) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Fall	8	0

Requirement Select
- MATH4200 - Foundations of Analysis (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- MATH5710 - Introduction to Probability

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- STAT 5XXX Elective course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Spring	10	0

Requirement Select
- MATH5720 - Introduction to Mathematical Statistics

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Breadth Physical Sciences (BPS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- STAT 5XXX Elective course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- STAT 5XXX Elective course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Fall	7 - 8	0

Requirement Select
- STAT 5XXX Elective course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Breadth Life Sciences (BLS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Depth Social Sciences (DSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2 - 3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Spring	6 - 7	0

Requirement Select

- STAT 5XXX Elective course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- STAT 5XXX Elective course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Depth Social Sciences (DSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2 - 3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Program Learning Outcomes

Program Learning Outcomes

https://artsci.usu.edu/math-stats/assessment/Statistics

Statistics - MS

Program Overview

College	Department	Program Level
College of Arts & Sciences	Mathematics & Statistics	Graduate

About this Degree

The MS Statistics program prepares students for positions in industry or government, while providing them with the necessary applied and theoretical background to pursue PhD programs in statistics or biostatistics. Students may apply with an undergraduate degree in statistics, mathematics, or a wide variety of other disciplines, including the biological and social sciences. An advanced undergraduate class in probability and mathematical statistics and some programming experience (particularly in R) is desirable; classes in linear algebra and multivariable calculus are necessary. MS Stat students conduct research in areas such as Big Data, time series, statistical genetics, bioinformatics, computational statistics, data visualization, experimental design and biostatistics. Nearly all MS Statistics projects involve collaboration with researchers in other fields, including ecology, agriculture, genetics, cancer, finance, public health, nutrition, education and engineering.

Admission Requirements for this Program

Admission requirements can be found on the USU School of Graduate Studies website (https://gradschool.usu.edu/admissions/policies). Applicants are also expected to have a GPA in math/stat coursework of at least 3.5. Applicants must submit either Official GRE scores (GRE-Q at least 70th percentile, GRE-V of at least 40th percentile) or a research portfolio, consisting of (1) a research statement of no more than 2 pages including references, and (2) (optional) supplemental materials, such as abstracts, paper summaries, of no more than 3 pages. Papers can be provided in the form of web pages, DOIs, or arXiv preprints, but not the full documents.

Program Requirements

Total Credits Required In Program Coursework	Total Credits Required To Earn This Credential
30	30

Simple Requisites

Program Requirements

- Graduate students are required to maintain at least a 3.0 GPA for degree-program courses. Grades of C- or lower will not be accepted for a graduate degree.
- A master's degree must be completed within six years of entering the degree program. Additional time may be requested by the student's committee and submitted to the Vice Provost of Graduate Studies for review.
- This degree requires 30 credits of coursework. At least 18 credits must be at 6000 level or above, excluding STAT6990 CONT GRAD ADVISEMENT and STAT7990 CONT GRAD ADVISEMENT (Continuing Graduate Advisement) with no more than 12 credits allowed at the 5000 level. Credits below the 5000 level are not acceptable for a graduate degree.
- No more than 12 transfer credits may be used toward a graduate degree.
- Supervisory Committee Approval by the end of the second semester
- Program of Study submitted by the end of the second semester

- Thesis/Project Approval Form by the third semester (Plan A students)
- Appointment for examination form submitted 10 days before defense and during defense semester must be registered for credit
- Record of Examination Form
- Thesis/Dissertation format and Style and Electronic Publication Form (Plan A students)
- Authorship and Copyright form (Plan A students)
- Plan B Report/Creative Project form (Plan B students)
- Graduation application

Plan A option:

The Plan A option for a master's degree requires the preparation and defense of a thesis. Students are required to complete 6 semester credits of thesis research (STAT6970 THESIS AND RESEARCH). Successful defense and submission of the thesis to the library is required.

Plan B option:

A Plan B option requires the production and defense of a research project which can be conveyed in a technical report or journal-manuscript format. Students are required to complete 3 semester credits of thesis research (STAT6970 THESIS AND RESEARCH). Successful defense and submission of the paper/ project to the library is required.

There is no Plan C option for this program.

Statistics - MS

Type
Completion Requirement

Core Requirements

Complete ALL of the following Courses:

- MATH6910 - Directed Reading and Conference - 1cr.
- STAT6970 - Thesis and Research - 1cr.

NOTE:

1. MATH6910 DIRECTED READING - 1 credit required. Students should take the MATH6910 DIRECTED READING - DR: Modern Research in MATH/STATS the first fall semester.
2. STAT6970 THESIS AND RESEARCH - Plan A students must take 6 credits, Plan B students must take 3 credits.

Qualifying Requirement

Select one of the following options below:

Fulfill ANY of the following requirements:

Option 1

Earn a minimum grade of B in the following:

- MATH5710 - Introduction to Probability - 3cr.
  AND MATH5720 - Introduction to Mathematical Statistics - 3cr.

OR

Option 2

Earn a minimum grade of B in the following:

- STAT6710 - Mathematical Statistics I - 3cr.
  AND STAT6720 - Mathematical Statistics II - 3cr.

Elective Credit

Complete the following with advisement of Program Coordinator
At least 18 credits at the 6000 level with no more than 12 credits at the 5000 level. Most coursework will be in Statistics, but the student's supervisory committee may approve courses in mathematics, biology, economics, or any other discipline if appropriate for the student's program of study.

Program Learning Outcomes

Program Learning Outcomes
https://www.usu.edu/math/assessment/Statistics

Survey Methods - Post Bachelor's Certificate

Program Overview

College
College of Arts & Sciences

Department
School of Social Sciences

Program Level
Graduate

About this Degree

The certificate will be available to graduate students across USU (approximately 3,100 students) and professionals engaged survey research or evaluation. This certificate consists entirely of existing courses in the Sociology program and other departments and colleges across USU.

Program Requirements

Total Credits Required In Program Coursework
9

Total Credits Required To Earn This Credential
9

Simple Requisites

Program Requirements

The required 9 credits will consist of one required course, one elective statistics course, and 3 credits of directed learning or thesis/dissertation credits that include analysis of survey data and writing of survey results for academic and non-academic audiences.

Survey Methods - Post-Bachelor's Certificate

Type
Completion Requirement

Required Courses (6 credits)

Complete ALL of the following Courses:

- SOC7100 - Advanced Survey Techniques - 3cr.

• Directed Study, Dissertation, or Thesis course (3 credits)

Elective Courses (3 credits)

Complete at least 1 of the following courses:

- SOC6150 - Social Statistics II - 3cr.
- SOC7110 - Advanced Quantitative Analysis - 3cr.
- EDUC6050 - Applied Statistical Analysis - 3cr.
- EDUC6600 - Statistical Foundations - 3cr.
- EDUC7610 - Regression Analysis - 3cr.
- POLS5000 - Political Analysis (QI) - 3cr.
- WILD6500 - Design and Analysis of Ecological Research Using R - 3cr.

Program Learning Outcomes

Program Learning Outcomes

Students who complete this certificate will be knowledgeable about and prepared to conduct their own survey research and analyze their own or secondary survey data and disseminate findings to a variety of audiences. They will possess the skills necessary to work in academic, government nonprofit, research, and corporate positions. According to the Utah DWS Occupation Information Data Viewer, (https://jobs.utah.gov/jsp/utalmis/#/) survey research is used in occupations with current job openings including data scientists, natural sciences managers, social science research assistants, statisticians, and more.

Sustainable Systems - Minor

Program Overview

College
College of Agriculture & Natural Resources

Department
Environment & Society, Landscape Architecture & Environmental Planning

Program Level
Undergraduate

Program Requirements

Total Credits Required In Program Coursework
16-19

Total Credits Required To Earn This Credential
16-19

Simple Requisites

Program Requirements

Students can make an appointment with an academic advisor in the S.J. and Jessie E. Quinney College of Agriculture and Natural Resources to add this minor: qanr.usu.edu/advising/.

Sustainable Systems Minor Requirements

Type
Completion Requirement

A. Required Courses (6 credits)

Complete ALL of the following Courses:

- ENVS4700 - Communicating Sustainability (CI) - 3cr.
- LAEP2039 - Foundations of Sustainable Systems - 3cr.

B. Agriculture, Food and Environment Systems (3 credits)

Earn at least 3 credits from the following:

- ASTE2900 - Food Matters: Ethics, Economics, and the Environment (BSS) - 3cr.
- ASTE5260 - Environmental Impacts of Agricultural Systems (CI) - 3cr.
- LAEP1040 - Introduction to Environmental Planning and Sustainable Development (BLS) - 3cr.
- NDFS1240 - Food Literacy - 3cr.
- PSC3800 - Fundamentals of Organic Agriculture - 3cr.
- PSC5070 - Agroecology - 3cr.
- PSC4400 - Modern Vegetable Production - 3cr.
- PSC5350 - Wildland Soils - 3cr.
  OR WILD5350 - Wildland Soils - 3cr.
- WATS1200 - The Natural World and Our Place Within It (BLS) - 3cr.
- WILD2200 - Ecology of Our Changing World (BLS) - 3cr.
- WILD3500 - Introduction to Rangeland Management - 3cr.

C. Energy and Earth Systems (3 credits)

Earn at least 3 credits from the following:

- CCA3070 - Unveiling the Anthropocene (DSC/QI) - 3cr.
- GEO3100 - Natural Disasters (DSC) - 3cr.
- GEO3150 - Energy in the Twenty-first Century (DSC/QI) - 3cr.
  OR PHYS3150 - Energy in the Twenty-first Century (DSC/QI) - 3cr.
- ENVS4200 - Sustainability Metrics - 3cr.
- GEOG5400 - Natural Hazards and Society - 3cr.
- LAEP1030 - Introduction to Landscape Architecture (BCA) - 3cr.

- PHYS1020 - Energy (BPS) - 3cr. (Inactive)
- PSC4810 - Climate and Climate Change (DSC)(QI) - 3cr.
- PSC5880 - Earth System Science - 3cr.

D. Water Systems (2-4 credits)

Earn at least 2 credits from the following:

- LAEP5090 - Sustainable Low Water Landscaping - 3cr.
  OR PSC5090 - Sustainable Low Water Landscaping - 3cr.
- PSC2010 - Soils, Waters, and the Environment (BPS) - 3cr.
- WATS3700 - Fundamentals of Watershed Science (CI) - 3cr.
- WATS5490 - Small Watershed Hydrology (QI) - 4cr.
- WATS5530 - Water Quality and Pollution - 3cr.
- WATS5621 - Science and Case Studies of Low-Tech Process-Based Restoration of Riverscapes - 1cr.
- WATS5622 - Planning Low-Tech Process-Based Restoration of Riverscapes - 1cr.
- WATS5623 - Designing Low-Tech Process-Based Restoration of Riverscapes - 1cr.
- WATS5624 - Implementation of Low-Tech Process-Based Restoration of Riverscapes - 1cr.

E. Social Systems (2-3 credits)

Earn at least 2 credits from the following:

- APEC3012 - Introduction to Natural Resource Economics (DSS) - 3cr.
- ENVS2340 - Environment, Natural Resources, and Society (BSS) - 3cr.
- ENVS3010 - Natural Resource and Environmental Policy - 3cr.
- ENVS4030 - Building Community Environmental Resilience - 3cr.
- ENVS5350 - Ecological Economics - 3cr.
- ENVS5550 - Sustainability: Concepts and Measurement - 3cr.
- GEOG3100 - Human-Environment Geography (CI) - 3cr.
- MSLE3855 - Sustainability Marketing - 2cr.
- PHIL3530 - Environmental Ethics (DHA) - 3cr.
- SOC3300 - Sociology of Climate Change - 3cr.
- SOC3310 - Environmental Justice - 3cr.
- SOC4620 - Sociology of the Environment and Natural Resources (DSS) - 3cr.

Program Learning Outcomes

Program Learning Outcomes

https://qanr.usu.edu/envs/about/assessment

https://qanr.usu.edu/laep/assessment/

Surgical Technology - AAS

Program Overview

College
College of Agriculture & Natural Resources

Department
Technology, Design & Technical Ed

Program Level
Undergraduate

About this Degree

The Surgical Technology program is an Associate of Applied Science degree program that can be completed in four semesters, after completing one semester of prerequisites. The prerequisites must be completed prior to the student applying for and being accepted into the Surgical Technology (ST) program. In addition, during clinical rotations and externship, students are required to complete a minimum of 120 surgical cases as outlined in the Association of Surgical Technologists Core Curriculum, 7th Edition once competency is demonstrated in the laboratory. Surgical technologists assist in operations under the supervision of surgeons, registered nurses and other surgical personnel. They must be knowledgeable in preparing the operating room, establishing and maintaining the sterile field, aseptic technique, and setting up surgical equipment, supplies and solutions. During surgery, the surgical technologist passes instruments, fluids, medications, and supplies to the surgeon and anticipates the needs of the surgeon for any given surgical procedure. Students receive an Associate of Applied Science degree in Surgical Technology from Utah State University upon completion of academic coursework and clinical experience.

The Surgical Technology program is offered on the Blanding, Moab and Price campuses via a blended delivery system. Students attending the Moab campus have to travel to the Blanding campus for their lab experience. The program will try to schedule clinical rotations for Moab students in their area.

The USU Blanding and USU Price programs are currently accredited through the accrediting bureau of Health Education Schools (ABHES). Upon the successful completion of coursework, students will be eligible to sit for the Certified Surgical Technologist (CST) certification exam administered by the National Board of Surgical Technology and Surgical Assisting (NBSTSA). If the student successfully passes this national board, they will be conferred the title of Certified Surgical Technologist (CST). The USU Surgical Technology curriculum was developed utilizing the curriculum recommendations of the Association of Surgical Technologist (AST) Core Curriculum, 7th Edition. Students successfully completing the program will be well prepared for a career as an entry-level (advanced beginner) surgical technologist. Student relocation to any state outside of Utah may adversely affect the student's ability to complete the Surgical Technology Program. Graduation from the surgical technology program does not guarantee employment.

Michele Lyman, M.S., PA-C - Director of Health Professions Programs

Utah State University Blanding, Moab, and Price campuses

John Redfield, BA, CST - Program Director, Instructor, and Clinical Coordinator (john.redfield@usu.edu, 435-613-5830)

Teryn Lyman - Health Professions Programs Coordinator/Student Advisor (teryn.lyman@usu.edu, 435-678-8208)

Admission Requirements for this Program

Surgical Technology Entrance Requirements

Utah State University has an open admission policy. Applicants will be admitted without regard to race, color, religion, sex, national origin, age, disability, or veteran's status. In addition, discrimination on the basis of sexual orientation for employees in all aspects of employment and for students in academic programs and activities is prohibited.

High school graduation or GED is required. A GPA of 3.0 or higher is required to be accepted into the program. Throughout the curriculum, the student must maintain an overall GPA of 3.0 or higher. No pass/fail grades are accepted for program

coursework. Acceptance into this program will be by the selection process. Please note that distance education students enrolled in the Surgical Technology - AAS program will have no additional admission requirements or fees.

General Admissions Procedures

To be officially admitted to the college as a full-time matriculated student, an applicant must submit the following:

1. A completed Application for Admission to Utah State University.
2. A $50 nonrefundable application fee to Utah State University.
3. Official transcripts of all previous high school and/or their GED and college work if the student is a transfer student.
4. Placement and evaluation exam: ACT (American College Test), or Accuplacer Exam for English and ALEKS Exam for math.

Notification of acceptance and resident status will be sent from the Health Professions Department Chairperson. If a student's application is incomplete at the time of registration, the student will not be admitted to the program. Students applying for financial aid must be a high school graduate or GED recipient, and be matriculated before receiving aid.

A declaration of a major is accomplished through the Application for Admission. Students desiring to change their majors after acceptance are required to complete a "Change of Major" form at the Admissions and Registrar's Office.

Returning Students

A student who has been away for more than two semesters must submit a new application for admission along with a $20.00 reapplication admission fee. Those who have attended other colleges or universities in the interim will be asked to submit transcripts of all college credits.

Enrollment Prior to High School Graduation

An academically qualified high school student who wishes to enroll at USU Eastern or USU Blanding must fill out a Concurrent Enrollment-Early College form as well as a Student Acknowledgement & Parental Consent Agreement form. **Students may work concurrently on high school classes and the college courses required for acceptance into the ST program while still in high school.**

Transfer Students

A transfer student from another college or university must submit the following:

1. A completed Application for Admission to Utah State University.
2. A $50 one-time nonrefundable application fee to Utah State University.
3. Official transcripts of all previous college work. (Official transcripts must be sent directly from the previous school. Hand carried transcripts will not be accepted.)
4. ACT or Accuplacer test scores. If a transfer student has completed 20 hours and has taken an English course equivalent to our English 1010, they will not be required to take the above tests.
5. A transfer student cannot transfer credits with D or E (F) grades or credits from developmental or remedial courses. **Grades of C or better will be allowed for all classes required for the program. Credits from remedial classes will not be accepted.**
6. The student must be in good standing and eligible to re-enroll at the college or university where they were most recently registered.
7. Transfer students will not be matriculated until official transcripts of all high school, previous college or university work are submitted to USU Eastern Blanding.

Program Requirements

Total Credits Required To Earn This Credential

63

Simple Requisites

Program Requirements

- Students interested in the Surgical Technology program should visit with an advisor prior to registration.
- Background checks and drug screen results are now processed online through the CastleBranch Compliance Tracking System. Students are required to pay a fee for this service. Vaccination records and the CPR requirement must be attached to the application. Students attending the Blanding campus will complete their drug screen on campus. Fees will be paid to the cashier. All information must be on file at the campus the student is attending. Students are advised to keep a copy of all records.

Immunizations and Background Check Requirements

All immunizations below are required. The program reserves the right to require additional vaccines as stipulated by teaching health care facilities. All records must be complete and on file with the program director **PRIOR** to beginning the program:

Hepatitis B: One of the following must be performed:

- Provide written evidence from your healthcare provider or immunization record documenting the three (3) Hepatitis B vaccinations and blood test with "Reactive" result.
- Documentation of three (3) Hepatitis B vaccinations given more than 8 weeks prior to start date with no documented blood test results (*no blood test required, but a baseline titer should be run immediately if the person has a significant exposure to blood or body fluids).*
- Provide written documentation of titer results as "Reactive."
- Documentation of six (6) Hepatitis B vaccinations with blood test result of "Not Reactive" (this person is considered a "Non-Responder").

Tuberculosis

- 2-step TST (two separate Tuberculin Skin Tests, aka PPD) is placed no sooner than seven (7) days apart. The 2-step TST must be completed at the time the student begins ST program; **OR**
- One (1) QuantiFERON Gold blood test with negative result; **OR**
- One (1) T-SPOT blood test with negative result.
- If there is history of a positive TB skin test, the student must see a physician for evaluation of risk AND have a chest x-ray report showing no evidence of active disease.

Tdap

- One (1) adult dose Tdap is required for USU Surgical Technology program. A tetanus/diphtheria (Td) booster is required if 10 years have elapsed since the last booster.

The *CDC Advisory Committee on Immunization Practices* recommends that all healthcare personnel, regardless of age, should receive a single dose of Tdap as soon as feasible if they have not previously received Tdap, regardless of the time since last Td dose.

Measles, Mumps and Rubella (MMR)

- Students must provide written evidence of the required two (2) vaccines; **OR**

- Provide written documentation of titer results (blood test). Verbal history of disease is NOT reliable and will not be accepted.

Varicella (Chicken Pox)

- Proof of two (2) Varicella vaccinations; **OR**
- Proof of immunity to Varicella through a blood test.

Flu (Influenza)

- Students must provide written evidence of having received the seasonal flu vaccine by October of current year.
- Students must maintain compliance with annual flu vaccinations during their enrollment in the Surgical Technology program.
- If students refuse to obtain this vaccine, they are required to wear a mask **AT ALL TIMES** when in the clinical facility.

Background Check/Drug Screen: Students are required to order and pay for a background check and drug screen through CastleBranch prior to being accepted into the Surgical Technology program.

CPR Requirement: Students must take a Healthcare Provider CPR course and receive CPR certification to meet the CPR requirement. Periodically, courses are offered on campus. Please make arrangements to attend (including notifying other instructors). This must be completed by the end of the first semester. CPR certification is valid for two years.

Students will be required to turn in a packet to the Health Professions staff assistant with all of the required records, including a copy of high school/GED documentation, any college transcripts, and the program application. On the first day of class, the Surgical Technician Student Contractual Agreement should be completed and turned in to the instructor. Students should keep a copy of all records for their own files.

Surgical Externship Orientation: Prior to initiating any surgical externship, students are required to complete an orientation with the sites that they will be attending for their surgical experience. At times this may require students who are completing externships at more than one surgical facility to attend orientations for each worksite.

Clinical Orientation: Prior to initiating any clinical or externship experience, students are required to attend an orientation with the appropriate sites that they will be attending for their surgical experience.

Surgical Technology Surgical Clinical and Externship: Our ST students train in various surgical settings. After students demonstrate proficiency in assigned skills in the surgical lab, students may begin practicing skills in the clinical setting under the direct supervision of an experienced surgical technologist or registered nurse. These clinical rotations are an important part of the program. Students must commit to attending all surgical rotations in which they are scheduled to participate in order to attain the required case completions for this degree.

Application Packet: Students will be required to turn in a completed Application Packet to the Health Professions staff assistant with all required records on the application admission checklist.

National Accreditation

Utah State University Eastern and Utah State University Blanding campuses are programmatically accredited by The Accrediting Bureau of Health Education Schools (ABHES). ABHES is listed by the U.S. Department of Education as a nationally recognized accrediting agency under the provision of Chapter 33, Title 38 of the U.S. Code and subsequent legislation. ABHES provides Utah State University Eastern programmatic accreditation for the delivery of Certificate of Completion level degrees.

Accrediting Bureau of Health Education Schools (ABHES)

6116 Executive Blvd., Suite 730

North Bethesda, MD 20852

(301) 291-7550

www.abhes.org

Surgical Technology - AAS Course Requirements

Type

Completion Requirement

Required Prerequisite Courses

The following courses are required prior to admission to the Surgical Technology (ST) program:

Complete ALL of the following Courses:

- ENGL1010 - Writing as Inquiry (CL1) - 3cr.
- HEAL1008 - Medical Terminology - 2cr.
- HEAL1500 - Anatomy and Physiology (BLS) - 4cr.

Students may take available courses during high school by following the Concurrent Enrollment Pathway if concurrent enrollment procedures are followed.

Health Professions Math Prerequisite Options

Complete ALL of the following Courses:

- MATH1050 - College Algebra (QL) - 4cr.
  OR STAT1040 - Introduction to Statistics (QL) - 3cr.
- STAT1045 - Introduction to Statistics with Elements with Algebra (QL) - 5cr.

Required Program Courses

The following courses are required for the Associate of Applied Sciences degree in Surgical Technology:

Fulfill ALL of the following requirements:

Semester One

Complete ALL of the following Courses:

- BIOL2060 - Elementary Microbiology - 4cr.
- SURG1030 - Surgical Technology I - 6cr.
- SURG1035 - Surgical Technology Lab I - 4cr.
- SURG1600 - Surgical Technology Clinical Competencies I - 2cr.

AND

Semester Two

Complete ALL of the following Courses:

- SURG1040 - Surgical Technology II - 6cr.
- SURG1045 - Surgical Technology Lab II - 2cr.
- SURG1700 - Surgical Technology Clinical Competencies II - 4cr.

AND

Semester Three

Complete ALL of the following Courses:

- SURG1050 - Surgical Technology III - 6cr.
- SURG1055 - Surgical Technology III Laboratory - 2cr.
- SURG1800 - Surgical Technology III Clinical Competency - 6cr.

AND

Semester Four

Complete ALL of the following Courses:

- SURG1060 - Surgical Technology IV - 6cr.
- SURG1065 - Surgical Technology IV Lab - 2cr.
- SURG1900 - Surgical Technology IV Clinical Competency Externship - 6cr.

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Associate Degrees)

Program Learning Outcomes

Program Learning Outcomes

https://www.usu.edu/oda/assessment/

Technology and Design - AAS

Program Overview

College
College of Agriculture & Natural Resources

Department
Technology, Design & Technical Ed

Program Level
Undergraduate

About this Degree

The **Associate of Applied Science (A.A.S.) in Technology and Design** is a flexible, stackable degree designed for students with a variety of educational backgrounds. Whether beginning their studies at **Utah State University (USU)** or transferring in with a certificate from a **Utah technical college**, students can build a customized degree that combines hands-on training with academic coursework. This program helps students earn a college credential while gaining the skills needed to succeed in today's workforce.

Degree Structure

Students may apply up to **30 credits of approved coursework from a Utah Technical College certificate** toward the A.A.S. in Technology and Design.

Students who apply technical college credit will complete an additional **10 credits of specialized electives**. In consultation with an academic advisor, students will select courses aligned with an emphasis area that supports their **career goals and academic interests**.

Available emphasis areas include:

- **Technology and Design: Health Sciences Emphasis (A.A.S.)**
- **Technology and Design: Design and Creative Arts Emphasis (A.A.S.)**
- **Technology and Design: General Business Emphasis (A.A.S.)**
- **Technology and Design: Technology Systems Emphasis (A.A.S.)**

Approved courses for all emphasis areas are listed in the program requirements.

Students who **do not have technical college credit** will complete their degree coursework through **advisor-guided course selection** at USU. Working closely with an academic advisor, students will select courses that align with their **career interests, professional goals, and academic objectives**. Coursework is intentionally chosen to help students develop relevant skills, explore areas of interest, and prepare for employment or future educational opportunities.

Pathway to a Bachelor's Degree

This degree sets students up to finish a bachelor's in Technology Systems with just two more years of study—fast-tracking their path to advanced skills and career growth.

Admission Requirements for this Program

Students are admitted into this program through the university's regular admission process.

1. New freshmen admitted to USU in good standing qualify for admission to this major.

2. Transfer students from other institutions and from other USU majors need a 2.20 overall GPA for admission to this major in good standing.

3. Students who have attended a Utah Technical College and earned or worked towards a certificate may apply to USU for admission to this program.

For additional information, or to complete an online application, visit: usu.edu/admissions/applyonline/.

Program Requirements

Total Credits Required In Program Coursework
63

Total Credits Required To Earn This Credential
63

Simple Requisites

Program Requirements

A student must have an overall GPA of at least 2.0 in order to graduate and 20 USU credits.

To complete the AAS in Technology and Design, students must earn **at least 63 total credits**, structured as follows:

Technology and Design Course Requirements (63 credits)

Type
Completion Requirement

General Education (15 credits)

Complete ALL of the following Course Sets:

- Breadth American Institutions (BAI) Course
- Breadth Creative Arts (BCA) Course
  OR Breadth Humanities (BHU) Course
- Breadth Life Sciences (BLS) Course
  OR Breadth Physical Sciences (BPS) Course
- Communications Literacy (CL1) Course
- Quantitative Literacy (QL) Course

Core Requirements (8 credits)

Complete ALL of the following Courses:

- BUSN2200 - Professional Communications - 3cr.
  OR ENGL2020 - Professional Communication (CL2) - 3cr.
- BUSN2720 - Introduction to Project Management - 3cr.
- TESY1000 - Introduction to Technology and Design - 2cr.

Specialized Elective Requirements

Students who apply **30 credits from a Utah Technical College** toward the Associate of Applied Science (A.A.S.) in Technology and Design will complete **10 credits of specialized electives** aligned with an emphasis area that supports their **career goals**.

In consultation with an academic advisor, students will select courses from the list below aligned with **one of the following emphasis areas**, based on the student's professional interests and goals:

- **General Business** (e.g., accounting, finance, marketing, management)
- **Design and Creative Arts** (e.g., digital media, photography, design)
- **Technology Systems** (e.g., networking, programming, cybersecurity, web design)
- **Health Sciences** (e.g., biology, anatomy, physiology, medical terminology)

Approved courses for all emphasis areas are listed below. Course selection is determined in consultation with an academic advisor and may also support future educational opportunities for students who choose to continue their studies.

Complete ANY of the following Courses:

- ACCT2010 - Financial Accounting Principles - 3cr.
- ACCT2020 - Managerial Accounting Principles - 3cr.
- ART1010 - Exploring Art (BCA) - 3cr.
- ART1050 - Introduction to Photography - 3cr.
- ASTE2100 - Personal and Team Leadership - 3cr.
- BIOL1010 - Biology and the Citizen (BLS) - 3cr.
- BIOL2320 - Human Anatomy - 4cr.
- BIOL2420 - Human Physiology - 4cr.
- BCIS1040 - Introduction to Programming - 3cr.
- BCIS1050 - Career and Workplace Relations - 1cr.
- BCIS1100 - Introduction to Networking - 1cr.
- BCIS1250 - A+ Core 1 - 3cr.
- BCIS1260 - A+ Core 2 - 3cr.
- BCIS1300 - Website Design - 3cr.
- BCIS1310 - Digital Image Basics - 2cr.
- BCIS1320 - Linux Foundations - 2cr.
- BCIS1540 - Introduction to Cloud - 2cr.
- BCIS2631 - Network+ - 4cr.
- BCIS2651 - Cybersecurity/Security+ - 4cr.
- BUSN1010 - Business Principles (BSS) - 3cr.
- BUSN1410 - Spreadsheet (Excel) - 2cr.
- BUSN2010 - Financial Accounting - 4cr.
- BUSN2020 - Managerial Accounting - 4cr.
- BUSN2050 - Business Law - 3cr.
- BUSN2160 - Introduction to Business Finance - 3cr.
- BUSN2320 - Small Business Management - CTE - 3cr.
- BUSN2390 - Organizational Behavior - 3cr.
- BUSN2620 - Digital Marketing - 3cr.
- BUSN2800 - Computerized Accounting - 3cr.
- BUSN2988 - Special Problems - 1cr.
- CMST1020 - Public Speaking (BHU) - 3cr.
- CMST1330 - Introduction to Global Communication (BSS) - 3cr.
- DATA1100 - Excel for Business Analysis - 1cr.
- DATA2100 - Data and Information in Business - 3cr.
- HDFS1500 - Human Development Across the Lifespan (BSS) - 3cr.
- HEAL1008 - Medical Terminology - 2cr.
- HEAL2020 - Emergency First Response - 3cr.
- HEP2500 - Health and Wellness - 2cr.
- IAD1750 - Design in Everyday Living (BCA) - 3cr.
- LAEP1030 - Introduction to Landscape Architecture (BCA) - 3cr.
- MSLE1800 - Leadership and Human Flourishing - 3cr.
- MSLE2500 - Business for Good: Making an Impact through Social Entrepreneurship - 2cr.
- MSLE2600 - Introduction to Entrepreneurship - 3cr.
- MSLE2650 - Adobe Graphic Design - 3cr.
- MSLE2700 - 7-Habits of Highly Effective People - 2cr.
- MSLE2750 - Enhancing Happiness in Your Life and Career - 3cr.
- NDFS1020 - Science and Application of Human Nutrition (BLS) - 3cr.
- OPDD1000 - Product Concept Sketching - 3cr.
- OPDD1100 - Introduction to Product Creation - 3cr.
- OPDD1750 - History of Outdoor Products (BHU) - 3cr.
- OPDD2710 - Outdoor Product Design& Development Professional Seminar - 1cr.
- TESY1200 - Computer-Aided Drafting and Design - 3cr.
- TESY1020 - Energy, Power, Transportation Systems Control Technology - 3cr.
- TESY1030 - Material Processing Systems - 3cr.

Students without Utah Technical College credit will complete their remaining degree requirements through **intentional, advisor-guided course selection** focused on career preparation and skill development.

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Associate Degrees)

Suggested Degree Maps

Degree Map Name
Suggested Degree Map: Technology and Design - AAS
Total Degree Map Credits
33
Degree Map Effective Catalog Year
2027 -

Degree Map Narrative

- Following is a sample two-year plan. Please note that student-specific plans may differ.
- Meet with an academic advisor to create a specific plan that best fits your academic needs.
- The student is ultimately responsible for knowing and completing all degree requirements.
- Consultation with an advisor may result in an altered plan customized for an individual student.
- Check your Degree Works for requirements and completion.

Students fulfill their **first-year** requirements by completing 30 articulated technical credits from a Utah Technical College, a USU certificate, or advisor-approved technical coursework at USU.

Tip: Be sure to **meet with your academic advisor** to confirm what courses you may need and to create a personalized plan for year one.

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	17	0

Requirement Select
- Communications Literacy (CL1) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Breadth American Institutions (BAI) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Breadth Creative Arts (BCA) Course

OR
- Breadth Humanities (BHU) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Breadth Life Sciences (BLS) Course

OR
- Breadth Physical Sciences (BPS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- BUSN2720 - Introduction to Project Management

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- TESY1000 - Introduction to Technology and Design

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	16	0

Requirement Select
- BUSN2200 - Professional Communications

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Quantitative Literacy (QL) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Technical Elective (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Technical Elective (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Technical Elective (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Program Learning Outcomes

Program Learning Outcomes

Students will engage with industry professionals through guest lectures to explore how these systems operate in real-world scenarios.

Students will identify concepts, terminology, and roles of project management, gaining a foundational understanding of the field. They will become familiar with various tools and systems associated with project management, enabling them to effectively navigate and utilize these resources. Additionally, students will describe the Agile framework along with various other methodologies used in project management, broadening their knowledge of different approaches to managing projects. Finally, they will analyze the steps central to task management, equipping themselves with the skills necessary to efficiently organize and execute project tasks.

Students will be able to demonstrate proficiency in specific technical skills that are currently in demand by business and industry, as identified through advisory board recommendations and state employment needs.

Technology and Design: Health Sciences Emphasis - AAS

Program Overview

College
College of Agriculture & Natural Resources

Department
Technology, Design & Technical Ed

Program Level
Undergraduate

About this Degree

The **Associate of Applied Science (A.A.S.) in Technology and Design** is a flexible, stackable degree designed for students with a variety of educational backgrounds. Whether beginning their studies at **Utah State University (USU)** or transferring in with a certificate from a **Utah technical college**, students can build a customized degree that combines hands-on training with academic coursework. This program helps students earn a college credential while gaining the skills needed to succeed in today's workforce.

Pathway Options

Pathway to Associates Degree

For students who have completed a certificate at a Utah Technical College, this pathway allows them to apply their certificate toward an associate degree. Emphasis areas include:

- Technology and Design: Health Sciences Emphasis (Technology and Design: Health Sciences Emphasis - AAS)
- Technology and Design: Design and Creative Arts Emphasis - AAS (Technology and Design: Design and Creative Arts Emphasis - AAS)
- Technology and Design: General Business Emphasis - AAS (Technology and Design: General Business Emphasis - AAS)
- Technology and Design: Technology Systems Emphasis - AAS (Technology and Design: Technology Systems Emphasis - AAS)

Pathway to a Bachelor's Degree

This degree sets students up to finish a bachelor's in Technology Systems with just two more years of study—fast-tracking their path to advanced skills and career growth.

Admission Requirements for this Program

Students are admitted into this program through the university's regular admission process.

1. New freshmen admitted to USU in good standing qualify for admission to this major.

2. Transfer students from other institutions and from other USU majors need a 2.20 overall GPA for admission to this major in good standing.

3. Students who have attended a Utah Technical College and earned or worked towards a certificate may apply to USU for admission to this program.

For additional information, or to complete an online application, visit: usu.edu/admissions/applyonline/.

Program Requirements

Total Credits Required In Program Coursework
63

Total Credits Required To Earn This Credential
63

Simple Requisites

Program Requirements

A student must have an overall GPA of at least 2.0 in order to graduate and 20 USU credits.

To complete the AAS in Technology and Design, students must earn **at least 63 total credits**, structured as follows:

Technology and Design: Health Sciences Emphasis Course Requirements (63 credits)

Type
Completion Requirement

General Education (15 credits)

Complete ALL of the following Course Sets:

- Breadth American Institutions (BAI) Course
- Breadth Creative Arts (BCA) Course
  OR Breadth Humanities (BHU) Course
- Breadth Life Sciences (BLS) Course
  OR Breadth Physical Sciences (BPS) Course
- Communications Literacy (CL1) Course
- Quantitative Literacy (QL) Course

Core Courses (8 credits)

Complete ALL of the following Courses:

- BUSN2200 - Professional Communications - 3cr.
  OR ENGL2020 - Professional Communication (CL2) - 3cr.
- BUSN2720 - Introduction to Project Management - 3cr.
- TESY1000 - Introduction to Technology and Design - 2cr.

Technical Foundation (30 credits)

Students must complete 30 articulated or advisor-approved technical credits. These credits may come from a Utah Technical College certificate, a USU certificate of proficiency/completion, or equivalent coursework or training verified in consultation with an academic advisor. These credits usually represent the first year of the degree.

Health Science Emphasis (10 credits)

After fulfilling the 30-credit technical foundation, students complete **10 credits in the Health Sciences emphasis** to build on their applied skills.

Earn at least 10 credits from the following:

- BIOL1010 - Biology and the Citizen (BLS) - 3cr.
- BIOL2320 - Human Anatomy - 4cr.
- BIOL2420 - Human Physiology - 4cr.
- CHEM1110 - General Chemistry I (BPS) - 4cr.
- CHEM1120 - General Chemistry II (BPS) - 4cr.
- CHEM2310 - Organic Chemistry I - 4cr.
- CMST1020 - Public Speaking (BHU) - 3cr.
- CMST2110 - Interpersonal Communication (BHU) - 3cr.
- HDFS1500 - Human Development Across the Lifespan (BSS) - 3cr.
- HEAL1008 - Medical Terminology - 2cr.
- HEAL2020 - Emergency First Response - 3cr.
- HEP2500 - Health and Wellness - 2cr.
- NDFS1020 - Science and Application of Human Nutrition (BLS) - 3cr.

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Associate Degrees)

Suggested Degree Maps

Degree Map Name
Suggested Degree Map: Technology and Design: Health Sciences Emphasis - AAS
Total Degree Map Credits
33
Degree Map Effective Catalog Year
2027 -

Degree Map Narrative

- Following is a sample two-year plan. Please note that student-specific plans may differ.
- Meet with an academic advisor to create a specific plan that best fits your academic needs.
- The student is ultimately responsible for knowing and completing all degree requirements.
- Consultation with an advisor may result in an altered plan customized for an individual student.
- Check your Degree Works for requirements and completion.

Students fulfill their **first-year** requirements by completing 30 articulated technical credits from a Utah Technical College, a USU certificate, or advisor-approved technical coursework at USU.

Tip: Be sure to **meet with your academic advisor** to confirm what courses you may need and to create a personalized plan for year one.

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	17	0

Requirement Select
- Communications Literacy (CL1) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Breadth American Institutions (BAI) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Breadth Creative Arts (BCA) Course

OR
- Breadth Humanities (BHU) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Breadth Life Sciences (BLS) Course

OR
- Breadth Physical Sciences (BPS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- BUSN2720 - Introduction to Project Management

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- TESY1000 - Introduction to Technology and Design

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	16	0

Requirement Select

- BUSN2200 - Professional Communications
  OR
- ENGL2020 - Professional Communication (CL2)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Quantitative Literacy (QL) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Technical Elective (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Technical Elective (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Technical Elective (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Program Learning Outcomes

Program Learning Outcomes

Students will engage with industry professionals through guest lectures to explore how these systems operate in real-world scenarios.

Students will identify concepts, terminology, and roles of project management, gaining a foundational understanding of the field. They will become familiar with various tools and systems associated with project management, enabling them to effectively navigate and utilize these resources. Additionally, students will describe the Agile framework along with various other methodologies used in project management, broadening their knowledge of different approaches to managing projects. Finally, they will analyze the steps central to task management, equipping themselves with the skills necessary to efficiently organize and execute project tasks.

Students will be able to demonstrate proficiency in specific technical skills that are currently in demand by business and industry, as identified through advisory board recommendations and state employment needs.

Technology and Design: Design and Creative Arts Emphasis - AAS

Program Overview

College
College of Agriculture & Natural Resources

Department
Technology, Design & Technical Ed

Program Level
Undergraduate

About this Degree

The **Associate of Applied Science (A.A.S.) in Technology and Design** is a flexible, stackable degree designed for students with a variety of educational backgrounds. Whether beginning their studies at **Utah State University (USU)** or transferring in with a certificate from a **Utah technical college**, students can build a customized degree that combines hands-on training with academic coursework. This program helps students earn a college credential while gaining the skills needed to succeed in today's workforce.

Pathway Options

Pathway to Associates Degree

For students who have completed a certificate at a Utah Technical College, this pathway allows them to apply their certificate toward an associate degree. Emphasis areas include:

- Technology and Design: Health Sciences Emphasis (Technology and Design: Health Sciences Emphasis - AAS)
- Technology and Design: Design and Creative Arts Emphasis - AAS (Technology and Design: Design and Creative Arts Emphasis - AAS)
- Technology and Design: General Business Emphasis - AAS (Technology and Design: General Business Emphasis - AAS)
- Technology and Design: Technology Systems Emphasis - AAS (Technology and Design: Technology Systems Emphasis - AAS)

Pathway to a Bachelor's Degree

This degree sets students up to finish a bachelor's in Technology Systems with just two more years of study—fast-tracking their path to advanced skills and career growth.

Admission Requirements for this Program

Students are admitted into this program through the university's regular admission process.

1. New freshmen admitted to USU in good standing qualify for admission to this major.

2. Transfer students from other institutions and from other USU majors need a 2.20 overall GPA for admission to this major in good standing.

3. Students who have attended a Utah Technical College and earned or worked towards a certificate may apply to USU for admission to this program.

For additional information, or to complete an online application, visit: usu.edu/admissions/applyonline/.

Program Requirements

Total Credits Required In Program Coursework
63

Total Credits Required To Earn This Credential
63

Simple Requisites

Program Requirements

A student must have an overall GPA of at least 2.0 in order to graduate and 20 USU credits.

To complete the AAS in Technology and Design, students must earn **at least 63 total credits**, structured as follows:

Technology and Design: Design and Creative Arts Emphasis Course Requirements (63 credits)

Type
Completion Requirement

General Education (15 credits)

Complete ALL of the following Course Sets:

- Breadth American Institutions (BAI) Course
- Breadth Creative Arts (BCA) Course
  OR Breadth Humanities (BHU) Course
- Breadth Physical Sciences (BPS) Course
  OR Breadth Life Sciences (BLS) Course
- Communications Literacy (CL1) Course
- Quantitative Literacy (QL) Course

Core Courses (8 credits)

Complete ALL of the following Courses:

- BUSN2200 - Professional Communications - 3cr.
  OR ENGL2020 - Professional Communication (CL2) - 3cr.
- BUSN2720 - Introduction to Project Management - 3cr.
- TESY1000 - Introduction to Technology and Design - 2cr.

Technical Foundation (30 credits)

Students must complete 30 articulated or advisor-approved technical credits. These credits may come from a Utah Technical College certificate, a USU certificate of proficiency/completion, or equivalent coursework or training verified in consultation with an academic advisor. These credits usually represent the first year of the degree.

Design and Creative Arts Emphasis (10 credits)

After fulfilling the 30-credit technical foundation, students complete **10 credits in the Design and Creative Arts emphasis** to build on their applied skills.

Earn at least 10 credits from the following:

- ART1010 - Exploring Art (BCA) - 3cr.
- ART1050 - Introduction to Photography - 3cr.
- BCIS1310 - Digital Image Basics - 2cr.
- IAD1750 - Design in Everyday Living (BCA) - 3cr.
- LAEP1030 - Introduction to Landscape Architecture (BCA) - 3cr.
- MSLE3200 - Adobe Graphic Design - 3cr.
- OPDD1000 - Product Concept Sketching - 3cr.
- OPDD1050 - Fundamentals of Design - 3cr.
- OPDD1100 - Introduction to Product Creation - 3cr.
- OPDD1750 - History of Outdoor Products (BHU) - 3cr.
- OPDD2710 - Outdoor Product Design& Development Professional Seminar - 1cr.
- TEE1010 - Graphic Communication Technologies - 3cr.
- TESY1030 - Material Processing Systems - 3cr.
- TESY1200 - Computer-Aided Drafting and Design - 3cr.
- TESY2200 - Intermediate CAD - 3cr.

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Associate Degrees)

Suggested Degree Maps

Degree Map Name
Suggested Degree Map - Technology and Design: Design and Creative Arts Emphasis - AAS
Total Degree Map Credits
30
Degree Map Effective Catalog Year
2027 -

Degree Map Narrative

- Following is a sample two-year plan. Please note that student-specific plans may differ.
- Meet with an academic advisor to create a specific plan that best fits your academic needs.
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- Check your Degree Works for requirements and completion.

Students fulfill their **first-year** requirements by completing 30 articulated technical credits from a Utah Technical College, a USU certificate, or advisor-approved technical coursework at USU.

Tip: Be sure to **meet with your academic advisor** to confirm what courses you may need and to create a personalized plan for year one.

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	17	0

Requirement Select
- Communications Literacy (CL1) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Breadth American Institutions (BAI) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Breadth Creative Arts (BCA) Course

OR
- Breadth Humanities (BHU) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Breadth Life Sciences (BLS) Course

OR
- Breadth Physical Sciences (BPS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- BUSN2720 - Introduction to Project Management

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- TESY1000 - Introduction to Technology and Design

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	13	0

Requirement Select

- BUSN2200 - Professional Communications
  OR
- ENGL2020 - Professional Communication (CL2)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Quantitative Literacy (QL) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Technical Elective (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Technical Elective (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Program Learning Outcomes

Program Learning Outcomes

Students will engage with industry professionals through guest lectures to explore how these systems operate in real-world scenarios.

Students will identify concepts, terminology, and roles of project management, gaining a foundational understanding of the field. They will become familiar with various tools and systems associated with project management, enabling them to effectively navigate and utilize these resources. Additionally, students will describe the Agile framework along with various other methodologies used in project management, broadening their knowledge of different approaches to managing projects. Finally, they will analyze the steps central to task management, equipping themselves with the skills necessary to efficiently organize and execute project tasks.

Students will be able to demonstrate proficiency in specific technical skills that are currently in demand by business and industry, as identified through advisory board recommendations and state employment needs.

Technology and Design: General Business Emphasis - AAS

Program Overview

College
College of Agriculture & Natural Resources

Department
Technology, Design & Technical Ed

Program Level
Undergraduate

About this Degree

The **Associate of Applied Science (A.A.S.) in Technology and Design** is a flexible, stackable degree designed for students with a variety of educational backgrounds. Whether beginning their studies at **Utah State University (USU)** or transferring in with a certificate from a **Utah technical college**, students can build a customized degree that combines hands-on training with academic coursework. This program helps students earn a college credential while gaining the skills needed to succeed in today's workforce.

Pathway Options

Pathway to Associates Degree

For students who have completed a certificate at a Utah Technical College, this pathway allows them to apply their certificate toward an associate degree. Emphasis areas include:

- Technology and Design: Health Sciences Emphasis (Technology and Design: Health Sciences Emphasis - AAS)
- Technology and Design: Design and Creative Arts Emphasis - AAS (Technology and Design: Design and Creative Arts Emphasis - AAS)
- Technology and Design: General Business Emphasis - AAS (Technology and Design: General Business Emphasis - AAS)
- Technology and Design: Technology Systems Emphasis - AAS (Technology and Design: Technology Systems Emphasis - AAS)

Pathway to a Bachelor's Degree

This degree sets students up to finish a bachelor's in Technology Systems with just two more years of study—fast-tracking their path to advanced skills and career growth.

Admission Requirements for this Program

Students are admitted into this program through the university's regular admission process.

1. New freshmen admitted to USU in good standing qualify for admission to this major.

2. Transfer students from other institutions and from other USU majors need a 2.20 overall GPA for admission to this major in good standing.

3. Students who have attended a Utah Technical College and earned or worked towards a certificate may apply to USU for admission to this program.

For additional information, or to complete an online application, visit: usu.edu/admissions/applyonline/.

Program Requirements

Total Credits Required In Program Coursework
63

Total Credits Required To Earn This Credential
63

Simple Requisites

Program Requirements

A student must have an overall GPA of at least 2.0 in order to graduate and 20 USU credits.

To complete the AAS in Technology and Design, students must earn **at least 63 total credits**, structured as follows:

Technology and Design: General Business Emphasis Course Requirements (63 credits)

Type
Completion Requirement

General Education (15 credits)

Complete ALL of the following Course Sets:

- Breadth American Institutions (BAI) Course
- Breadth Creative Arts (BCA) Course
  OR Breadth Humanities (BHU) Course
- Breadth Physical Sciences (BPS) Course
  OR Breadth Life Sciences (BLS) Course
- Communications Literacy (CL1) Course
- Quantitative Literacy (QL) Course

Core Courses (8 credits)

Complete ALL of the following Courses:

- BUSN2200 - Professional Communications - 3cr.
  OR ENGL2020 - Professional Communication (CL2) - 3cr.
- BUSN2720 - Introduction to Project Management - 3cr.
- TESY1000 - Introduction to Technology and Design - 2cr.

Technical Foundation (30 credits)

Students must complete 30 articulated or advisor-approved technical credits. These credits may come from a Utah Technical College certificate, a USU certificate of proficiency/completion, or equivalent coursework or training verified in consultation with an academic advisor. These credits usually represent the first year of the degree.

General Business (10 credits)

After fulfilling the 30-credit technical foundation, students complete **10 credits in the General Business emphasis** to build on their applied skills.

Earn at least 10 credits from the following:

- ACCT2010 - Financial Accounting Principles - 3cr.
- ACCT2020 - Managerial Accounting Principles - 3cr.
- APEC2010 - Introduction to Microeconomics (BSS) - 3cr.
- APEC2120 - Small Firm Accounting Basics - 3cr.
- APEC2310 - Small Firm Management - 3cr.
- ASTE2100 - Personal and Team Leadership - 3cr.
- BCIS1300 - Website Design - 3cr.
- BCIS1320 - Linux Foundations - 2cr.
- BCIS2631 - Network+ - 4cr.
- BUSN1010 - Business Principles (BSS) - 3cr.
- BUSN1020 - Digital Literacy - 2cr.
- BUSN1021 - Personal Finance - 3cr.
- BUSN1410 - Spreadsheet (Excel) - 2cr.
- BUSN2010 - Financial Accounting - 4cr.
- BUSN2020 - Managerial Accounting - 4cr.
- BUSN2050 - Business Law - 3cr.
- BUSN2160 - Introduction to Business Finance - 3cr.
- BUSN2320 - Small Business Management - CTE - 3cr.
- BUSN2390 - Organizational Behavior - 3cr.
- BUSN2620 - Digital Marketing - 3cr.
- BUSN2800 - Computerized Accounting - 3cr.
- BUSN2988 - Special Problems - 1cr.
- CMST1020 - Public Speaking (BHU) - 3cr.

- CMST1330 - Introduction to Global Communication (BSS) - 3cr.
- DATA1100 - Excel for Business Analysis - 1cr.
- DATA2100 - Data and Information in Business - 3cr.
- MSLE1800 - Leadership and Human Flourishing - 3cr.
- MSLE2500 - Business for Good: Making an Impact through Social Entrepreneurship - 2cr.
- MSLE2600 - Introduction to Entrepreneurship - 3cr.
- MSLE2650 - Adobe Graphic Design - 3cr.
- MSLE2700 - 7-Habits of Highly Effective People - 2cr.
- MSLE2750 - Enhancing Happiness in Your Life and Career - 3cr.

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Associate Degrees)

Suggested Degree Maps

Degree Map Name
Suggested Degree Map - Technology and Design: General Business Emphasis - AAS
Total Degree Map Credits
33
Degree Map Effective Catalog Year
2027 -

Degree Map Narrative

- Following is a sample two-year plan. Please note that student-specific plans may differ.
- Meet with an academic advisor to create a specific plan that best fits your academic needs.
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- Consultation with an advisor may result in an altered plan customized for an individual student.
- Check your Degree Works for requirements and completion.

Students fulfill their **first-year** requirements by completing 30 articulated technical credits from a Utah Technical College, a USU certificate, or advisor-approved technical coursework at USU.

Tip: Be sure to **meet with your academic advisor** to confirm what courses you may need and to create a personalized plan for year one.

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	17	0

Requirement Select
- Communications Literacy (CL1) Course

Course Requirement Group

Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Breadth American Institutions (BAI) Course

Course Requirement Group

Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Breadth Creative Arts (BCA) Course
  OR
- Breadth Humanities (BHU) Course

Course Requirement Group

Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Breadth Life Sciences (BLS) Course
  OR
- Breadth Physical Sciences (BPS) Course

Course Requirement Group

Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- BUSN2720 - Introduction to Project Management

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- TESY1000 - Introduction to Technology and Design

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	16	0

Requirement Select

- BUSN2200 - Professional Communications

  OR
- ENGL2020 - Professional Communication (CL2)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Quantitative Literacy (QL) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Technical Elective (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Technical Elective (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Technical Elective (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Program Learning Outcomes

Program Learning Outcomes

Students will engage with industry professionals through guest lectures to explore how these systems operate in real-world scenarios.

Students will identify concepts, terminology, and roles of project management, gaining a foundational understanding of the field. They will become familiar with various tools and systems associated with project management, enabling them to effectively navigate and utilize these resources. Additionally, students will describe the Agile framework along with various other methodologies used in project management, broadening their knowledge of different approaches to managing projects. Finally, they will analyze the steps central to task management, equipping themselves with the skills necessary to efficiently organize and execute project tasks.

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Technology and Design: Technology Systems Emphasis - AAS

Program Overview

College
College of Agriculture & Natural Resources

Department
Technology, Design & Technical Ed

Program Level
Undergraduate

About this Degree

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Program Requirements

Total Credits Required In Program Coursework
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Total Credits Required To Earn This Credential
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Simple Requisites

Program Requirements

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Technology and Design: Technology Systems Emphasis Course Requirements (63 credits)

Type
Completion Requirement

General Education (15 credits)

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- Breadth Physical Sciences (BPS) Course
  OR Breadth Life Sciences (BLS) Course
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- Quantitative Literacy (QL) Course

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Technology Systems Emphasis (10 credits)

After fulfilling the 30-credit technical foundation, students complete **10 credits in the Technology Systems emphasis** to build on their applied skills.

Earn at least 10 credits from the following:

- BCCM2240 - Construction Estimating - 3cr.
- TEE1040 - Construction and Estimating - 3cr.
- TEE2030 - Wood-Based Manufacturing Systems - 3cr.
- TEE2200 - Aquaponic Systems (BPS) - 3cr.
- TESY1020 - Energy, Power, Transportation Systems Control Technology - 3cr.
- TESY1030 - Material Processing Systems - 3cr.
- TESY1200 - Computer-Aided Drafting and Design - 3cr.
- TESY2200 - Intermediate CAD - 3cr.

Emphasis
Total Degree Map Credits
33
Degree Map Effective Catalog Year
2027 -

Degree Map Narrative

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Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	17	0

Requirement Select

- Communications Literacy (CL1) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Breadth American Institutions (BAI) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Minimum University Requirements

Minimum University Requirements
Minimum University Requirements (Associate Degrees)

Suggested Degree Maps

Degree Map Name
Suggested Degree Map - Technology and Design: Technology Systems

Requirement Select

- Breadth Creative Arts (BCA) Course
  OR
- Breadth Humanities (BHU) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Breadth Life Sciences (BLS) Course
  OR
- Breadth Physical Sciences (BPS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- BUSN2720 - Introduction to Project Management

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- TESY1000 - Introduction to Technology and Design

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	16	0

Requirement Select

- BUSN2200 - Professional Communications
  OR
- ENGL2020 - Professional Communication (CL2)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Quantitative Literacy (QL) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Technical Elective (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Technical Elective (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Technical Elective (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Program Learning Outcomes

Program Learning Outcomes
Students will engage with industry professionals through guest lectures to explore how these systems operate in real-world scenarios.

Students will identify concepts, terminology, and roles of project management, gaining a foundational understanding of the field. They will become familiar with various tools and systems associated with project management, enabling them to effectively navigate and utilize these resources. Additionally, students will describe the Agile framework along with various other methodologies used in project management, broadening their knowledge of different approaches to managing projects. Finally, they will analyze the steps central to task management, equipping themselves with the skills necessary to efficiently organize and execute project tasks.

Students will be able to demonstrate proficiency in specific technical skills that are currently in demand by business and industry, as identified through advisory board recommendations and state employment needs.

Technology and Engineering Education - Minor

Program Overview

College
College of Agriculture & Natural Resources

Department
Applied Sciences, Technology and Education

Program Level
Undergraduate

About this Degree
This minor allows students involved in education programs the opportunity to add an additional endorsement area to their credentials. The Utah State Office of Education has made changes in the requirements for endorsements. They have created a separate content area for middle school Technology and Engineering Education with fewer education requirements for endorsement. The required course experience is covered in 5 courses taught in the Technology and Engineering Education program at USU. The minor in Technology and Engineering Education provides students in other fields of education the opportunity to expand their marketability while addressing the shortage of technology and engineering teachers in Utah. Students who successfully complete this minor will qualify to apply for the Technology endorsement (aka, the “middle school” endorsement for TEE). This endorsement attaches to secondary licenses only, not to CTE licenses

Admission Requirements for this Program
In order to declare this minor, a student must be in a teaching major, earn a grade of C or better in their minor coursework, and maintain an overall minor GPA of 3.0 or above.

To contact the Technology and Engineering Education advisor, schedule an appointment online at caasam.usu.edu, or contact the CAAS advising office at (435) 797-2282.

Program Requirements

Total Credits Required In Program Coursework
15

Total Credits Required To Earn This Credential
15

Simple Requisites

Program Requirements

Section 1

Type
Completion Requirement

Required Classes (15 credits)

Complete ALL of the following Courses:
- TEE1010 - Graphic Communication Technologies - 3cr.
- TEE1020 - Principles of Engineering Design - 3cr.
- TEE1040 - Construction and Estimating - 3cr.
- TEE2030 - Wood-Based Manufacturing Systems - 3cr.
- TESY1200 - Computer-Aided Drafting and Design - 3cr.

Program Learning Outcomes

Program Learning Outcomes
https://caas.usu.edu/aste/assessment/

Technology and Engineering Education - BS

Program Overview

College
College of Agriculture & Natural Resources

Department
Applied Sciences, Technology and Education

Program Level
Undergraduate

About this Degree

A degree in Technology and Engineering Education prepares students to become qualified instructors who can help students develop the technological literacy and technical skills that are increasingly necessary in our changing world. The ever-increasing rate of technological development and the impacts of globalization have created a strong demand for individuals who are technologically literate, skilled, innovative, and capable of working in teams. The world looks toward specialized educators to meet this demand.

A degree in Technology and Engineering Education with an emphasis in Technology and Engineering Education is designed to prepare students for careers in teaching Career and Technical Education (CTE) courses in the area of Technology and Engineering at the middle school and high school levels. Students in Technology & Engineering Education will develop their ability to use technological tools, processes, and systems safely and effectively in a laboratory setting by taking classes engaging them in multiple technological contexts. Students will prepare to apply these skills and teach technological literacy in a classroom setting by completing coursework in teaching methods, assessment and evaluation, teaching and learning theory, and classroom/lab management. Students will be exposed to extensive practical classroom experience through in-class role-playing, clinical experience, and student teaching. Students will also be required to complete leadership and professional development activities as part of the degree requirements.

Students choosing this major must be admitted to and complete the Secondary Teacher Education Program (STEP) administered by the Emma Eccles Jones College of Education and Human Services to complete their degree. For admission to STEP, students must have an overall GPA of 3.0, have earned a grade of C+ or better in ENGL 1010 or ENGL 2010, have earned a grade of C or better in at least three general education breadth courses, and have completed a background check

- For more information about Technology and Engineering Education, see the website.
- Admitted and current students must meet with an advisor. Advising appointments can be made at caas.usu.edu/advising or by calling (435) 797-2282.
- Log on to Degree Works to check student-specific program progress.
- The highest math requirement for this degree is MATH1050 COLLEGE ALGEBRA (QL) and MATH1060 TRIGONOMETRY

Admission Requirements for this Program

New freshmen: Admitted to USU in Good Standing
Transfer students from other institutions or other programs at USU: 2.75 GPA

Program Requirements

Total Credits Required In Program Coursework
102

Total Credits Required To Earn This Credential
120

Simple Requisites

Program Requirements

Please note that all Foundation and Required Core Courses must be passed with the following: ENGL 1010 or ENGL 2010 must pass one with a grade of C+ or better. Breadth Courses need a minimum a grade of C or better. All STEP courses must be passed with a grade of C or better.

Technology and Engineering Education Major (102 credits)

Type
Completion Requirement

University Foundations (16 credits)

Complete ALL of the following Courses:

- ENGL1010 - Writing as Inquiry (CL1) - 3cr.
- ENGL2010 - Research and Argument Across Perspectives (CL2) - 3cr.
  OR ENGL2020 - Professional Communication (CL2) - 3cr.
- MATH1050 - College Algebra (QL) - 4cr.
- MATH1060 - Trigonometry - 2cr.
- PHYS1800 - Physics of Technology (BPS) - 4cr.
  OR PHYS1200 - Introduction to Physics by Hands-on Exploration (BPS) - 4cr.
  OR PHYS2210 - Physics for Scientists and Engineers I (QI/BPS) - 4cr.

Student must earn a grade of C+ or better in one of the following courses: ENGL1010 WRITING AS INQUIRY (CL1), ENGL2010 RSRCH&ARGUMENT PRSPCTVES (CL2), or ENGL2020 PROFESSNL COMMUNICATION (CL2)

Students must have a C or better in MATH1050 COLLEGE ALGEBRA (QL), MATH1060 TRIGONOMETRY, and in PHYS1800 PHYSICS OF TECHNOLOGY (BPS), PHYS1200 INTRO PHYS BY EXPLORATION(BPS), or PHYS2210 PHYS SCI AND ENGR I (QI)(BPS)

Technology and Engineering Foundations (30 credits)

Students complete all of the courses in this section with a final grade of C or better to receive a composite teaching endorsement in Technology & Engineering Education upon program completion and licensure with the Utah State Board of Education.

-OR-

Students may submit for substitution and approved certificate from a Utah technical college to receive and associated Career and Technical Education teaching endorsement upon program completion and licensure with the Utah State Board of Education. Up to 30 credits of technical college credit may be substituted for an equivalent number of Technology and Engineering Foundations course credits. For this option, the endorsement received after graduation and licensure depends on the technical college certificates applied.

All students entering the Technology & Engineering Education program should consult with their academic advisor to determine which option is best for their goals.

Complete ALL of the following Courses:

- ASTE1640 - Introduction to Welding - 3cr.
- ETEC1010 - Engineering Technology Principles - 3cr.
- ETEC2020 - Introduction to Automation - 3cr.
  OR TESY3030 - Computer-Integrated Manufacturing Systems - 3cr.
- ETEC2310 - Electronics Systems - 3cr.
- TEE1040 - Construction and Estimating - 3cr.
  OR ASTE4100 - Agricultural Structures and Environment (QI) - 3cr.
- TEE2030 - Wood-Based Manufacturing Systems - 3cr.
- TEE2220 - Civil Engineering and Architecture - 3cr.

OR EDDT1100 - Residential Architectural Drafting - 3cr.
- TEE2300 - Electronic Fundamentals (QI) - 3cr.
- TESY1030 - Material Processing Systems - 3cr.
- TESY1200 - Computer-Aided Drafting and Design - 3cr.

Leadership and Professional Foundations (9 credits)

Complete ALL of the following Courses:
- TEE1000 - Orientation to Technology and Engineering Education - 1cr.
- TEE2000 - Seminar in Leadership and Professional Development - 1cr.
- ASTE3440 - Science, Technology, and Modern Society (DSC) - 3cr.
- PUBH3310 - Occupational Health and Safety - 3cr.
  OR TESY3000 - Hazard Recognition & Control - 3cr.

Two credits of TEE 2000 are required. TEE 2000 is repeatable for credit.

Content Area Enhancement Courses (9 credits)

Some Content Area Enhancement courses may help meet requirements for additional teaching endorsements after receiving a teaching license. Please consult with your academic advisor for details when selecting these courses.

Earn at least 9 credits from the following:
- ASTE3030 - Metal Fabrication for Agriculture and Natural Resource Industries - 3cr.
- AV4200 - Composite Manufacturing Processes and Repair - 3cr.
- CS1030 - Foundations of Computer Science (BPS) - 3cr.
- CS1400 - Introduction to Computer Science--CS 1 - 4cr.
- CS1410 - Introduction to Computer Science--CS 2 (QI) - 3cr.
- CS1440 - Software Engineering Fundamentals - 3cr.
- ETEC2200 - Engineering Technology Communications - 3cr.
- ETEC3010 - Materials Sciences for Engineering Technology - 3cr.
- ETEC3020 - Energy Systems - 3cr.
- ETEC3130 - Manufacturing and Quality Systems - 3cr.
- ETEC3850 - Statics and Strengths of Materials - 3cr.
- OPDD1100 - Introduction to Product Creation - 3cr.
- TEE4320 - Advanced Applications in Woods and Composites - 3cr.
- TESY2200 - Intermediate CAD - 3cr.
- TESY3040 - Design for Additive Manufacturing - 3cr.
- TESY3200 - Additive Manufacturing I - 3cr.
- TESY3210 - Additive Manufacturing II - 3cr.
- TESY3270 - Advanced Computer-Aided Drafting - 3cr.
- TESY4230 - Advanced Materials and Processing Systems - 3cr.
- TESY4330 - Product Innovation Processes, Tools, and Strategies - 3cr.
- TESY4500 - Quality Management Systems - 3cr.
- TESY4510 - Quality Root Cause Analysis Methods and Applications - 3cr.
- TESY4530 - Principles of Lean Manufacturing - 3cr.
- UAS1010 - Unmanned Aircraft Systems - Remote Pilot - 3cr.
- UAS1100 - Introduction to Unmanned Aircraft Systems - 1cr.
- UAS3010 - Unmanned Aircraft System Introduction to Remote Pilot Certification - 3cr.
- UAS3050 - Unmanned Aircraft Systems Pilot in Command Introduction - 3cr.

Secondary Teacher Education Program (STEP) Requirements (38 credits)

For admission to STEP, students must have an overall GPA of 2.0 or higher, a major GPA of 3.0 or higher, have earned a grade of C+ or better in ENGL1010 WRITING AS INQUIRY (CL1) or ENGL2010 RSRCH&ARGUMENT PRSPCTVES (CL2), have earned a grade of C or better in at least three general education breadth courses as well as all major required courses, and have completed a background check.

STEP courses must be passed with a grade of C or better, or a P if the course is offered Pass/Fail only. An overall GPA of 3.0 is required for graduation.

Complete ALL of the following Courses:
- SCED3210 - Educational and Multicultural Foundations (DSS/CI) - 3cr.
- SCED5100 - Motivation and Classroom Management - 3cr.
- SCED5200 - Language, Literacy, and Learning in the Content Areas (CI) - 3cr.
- SPED4000 - Education of Students with Disabilities - 3cr.
- TEE3200 - Methods of Teaching Engineering and Technology Education I - 3cr.
- TEE3300 - Clinical Experience I - 1cr.
- TEE4210 - Cognition and Evaluation of Student Learning in Career and Technical Education - 3cr.
  OR SCED5210 - Learning Theory, Curriculum, and Assessment - 3cr.
- TEE4300 - Clinical Experience II - 1cr.
- TEE4400 - Methods of Teaching Engineering and Technology Education II - 3cr.
- TEE5500 - Student Teaching Seminar - 2cr.
- TEE5630 - Student Teaching in Secondary Schools - 10cr.
- ITLS2500 - Technology Enabled Instruction - 3cr.

Open Electives

Complete the following as needed:
Total elective credit is determined by General Education courses taken, degree type selected, additional credits earned, and any additional math or other prerequisite courses needed. Please consult your Academic Advisor for details.

Additional Comments:

Licensure Notification

This program typically leads to licensure and was designed to meet licensing qualifications in the state of Utah. If students wish to work in another state within the United States, they should review the qualifications for that state and the Education Licensure Compliance Table provided by School of Teacher Education and Leadership.

For more information, please contact the School of Teacher Education and Leadership at https://cehs.usu.edu/teal/

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Bachelor's Degree)

Suggested Degree Maps

Degree Map Name
Suggested Degree Map - Technology and Engineering Education - BS
Total Degree Map Credits
109 - 112
Degree Map Effective Catalog Year

2027 -

Degree Map Narrative

- Following is a sample four-year plan. Please note that student-specific plans may differ.
- Meet with an academic advisor to create a specific plan that best fits your academic needs.
- The student is ultimately responsible for knowing and completing all degree requirements.
- Make sure you meet the registration requirements for each class by clicking the course link and checking any prerequisites or corequisites.
- Consultation with an advisor may result in an altered plan customized for an individual student.
- Check your Degree Works for requirements and completion.

Must have 3.0 GPA to be admitted to STEP program

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	15	0

Requirement Select
- MATH1050 - College Algebra (QL)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- TEE1000 - Orientation to Technology and Engineering Education

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- TESY1030 - Material Processing Systems

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- TESY1200 - Computer-Aided Drafting and Design

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- ASTE1640 - Introduction to Welding

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- TEE2000 - Seminar in Leadership and Professional Development

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	16	0

Requirement Select
- ENGL1010 - Writing as Inquiry (CL1)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- MATH1060 - Trigonometry

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select

- TEE1040 - Construction and Estimating

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- TEE2000 - Seminar in Leadership and Professional Development

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- PHYS1200 - Introduction to Physics by Hands-on Exploration (BPS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- ETEC1010 - Engineering Technology Principles

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- A minimum grade of C+ is required in ENGL 1010 (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	12	0

Requirement Select

- TEE2030 - Wood-Based Manufacturing Systems

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Breadth Creative Arts (BCA) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Breadth Life Sciences (BLS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Breadth Humanities (BHU) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	15 - 16	0

Requirement Select
- ENGL2010 - Research and Argument Across Perspectives (CL2)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- TEE2220 - Civil Engineering and Architecture

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- TEE2300 - Electronic Fundamentals (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Breadth American Institutions (BAI) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Breadth Social Sciences (BSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- A minimum grade of C+ is required in ENGL 2010 (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Fall	15	0

Requirement Select
- TEE3440 - Science, Technology, and Modern Society (DSC)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- ETEC2310 - Electronics Systems

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- ITLS2500 - Technology Enabled Instruction

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- PUBH3310 - Occupational Health and Safety

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- SPED4000 - Education of Students with Disabilities

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Spring	13	0

Requirement Select
- SCED3210 - Educational and Multicultural Foundations (DSS/CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- SCED5100 - Motivation and Classroom Management

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- TEE3200 - Methods of Teaching Engineering and Technology Education I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- TEE3300 - Clinical Experience I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- ETEC2020 - Introduction to Automation

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Fall	11 - 13	0

Requirement Select
- SCED5200 - Language, Literacy, and Learning in the Content Areas (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- TEE4210 - Cognition and Evaluation of Student Learning in Career and Technical Education

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- TEE4300 - Clinical Experience II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- TEE4400 - Methods of Teaching Engineering and Technology Education II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Depth Humanities and Creative Arts (DHA) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1 - 3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Spring	12	0

Requirement Select
- TEE5500 - Student Teaching Seminar

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select

- TEE5630 - Student Teaching in Secondary Schools

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	10
Progress Credits	-
Contact Hours	10
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Program Learning Outcomes

Program Learning Outcomes

https://www.usu.edu/oda/assessment/

Technology and Engineering Education - MS

Program Overview

College	Department	Program Level
College of Agriculture & Natural Resources	Applied Sciences, Technology and Education	Graduate

About this Degree

Website: https://caas.usu.edu/degrees/aste/graduate/tee

This degree emphasizes research, leadership, and teaching. Students are provided with coursework to gain research skills, engage in mentoring and organizational management, and improve their pedagogical approaches to teaching and learning in formal or nonformal educational settings. This degree program does not lead to licensure and requires a thesis. The completion of a thesis prepares students with the skills and experiences needed to read, interpret, and conduct research. This degree program also prepares students for a future Ph.D. program.

The program can be completed on campus or at a distance as all coursework (30 credits) is available online. Four courses are required (12 credits), remaining electives are chosen by students. Most students in the program take two classes (6 credits) per semester. Students who follow this will be able complete the program in approximately 2 years (5 semesters).

Admission Requirements for this Program

The required documentation for the application package and admissions requirements are noted on the ASTE Graduate Admission and Application webpage, aste.usu.edu/degrees/graduate-program-admission.

Program Requirements

Total Credits Required In Program Coursework	Total Credits Required To Earn This Credential
30	30

Simple Requisites

Program Requirements

School of Graduate Studies General Graduation Guidelines:

Degree Verification

A bachelor's degree from an accredited U. S. college or university or a similarly recognized international university is required for admission to and completion of a graduate program.

Overall Graduate GPA

At least 3. 0 and no grades of C- or lower. Graduate students are required to maintain at least a 3. 0 GPA for degree-program courses. Grades of C- or lower will not be accepted for a graduate degree.

Course Number Acceptability

The Program of Study for a master's degree must include at least 18 semester credits at the level of 6000 or above. A maximum of 12 credits from courses at the level of 5000 may be used on an approved program of study.

Matriculation Start Semester

A master's degree must be completed within six years of entering the degree program. Additional time may be requested and submitted to the Vice Provost of Graduate Studies for review.

Coursework Validity

Coursework over eight years old at the time of degree completion may not be used for a graduate degree unless it is revalidated.

Plan Type

Plan A - The Plan A option for a master's degree requires preparation and defense of a thesis.

Required Master's forms:

Approval of academic forms required for master's students by the School of Graduate Studies

- Supervisory Committee
- Program of Study
- Thesis/Project Approval
- Appointment for Examination
- Record of Examination
- Authorship & Copyright
- Format & Style
- Title Page
- SGS and library review & approval
- Graduation Application

Course Requirements

Type
Completion Requirement

Foundation Research (15 credits)

Complete ALL of the following Courses:

- ASTE6750 - Research Methods and Design - 3cr.
- ASTE6800 - Analysis of Social Research Data - 3cr.
- ASTE6100 - Research and Academic Writing - 3cr.
- ASTE6970 - Research and Thesis - 1cr.

A minimum of 6 credits is required in ASTE6970 RESEARCH AND THESIS

Electives (15 credits)

Earn at least 15 credits from the following:

- ASTE6090 - Curriculum Design - 3cr.
- ASTE6150 - Evaluation and Assessment - 3cr.
- ASTE6160 - Foundations of Adult Education - 3cr.
- ASTE6170 - Program Planning and Evaluation - 3cr.
- ASTE6180 - Administration and Leadership - 3cr.
- ASTE6220 - Volunteer Programs and Partnerships - 3cr.
- ASTE6300 - Advanced Teaching Strategies - 3cr.
- ASTE6315 - Career and Technical Student Organization Development - 3cr.
- ASTE6320 - Classroom Management, Student Motivation, and Guidance - 3cr.
- ASTE6350 - Safety and Risk Management for CTE Experential Learning Opportunities - 3cr.
- ASTE6360 - History, Philosophy, and Policy Development in Career and Technical Education - 3cr.
- ASTE6370 - Grant Writing and Management - 3cr.
- ASTE6380 - Mentoring and Supervision - 3cr.
- ASTE6460 - Integrating Career and Tech Educ Curriculum with Science, Technology, Engineering, and Mathematics - 3cr.
- ASTE6470 - Digital Tools for Learning - 3cr.
- ASTE6900 - Graduate Independent Study in Career and Technical Education - 1cr.
- ASTE6910 - Design Thinking for Career and Technical Education - 3cr.
- ASTE6950 - Graduate Internship - 1cr.

Program Learning Outcomes

Program Learning Outcomes
https://caas.usu.edu/aste/assessment/

Teaching English to Speakers of Other Languages (TESOL) - Certificate

Program Overview

College
College of Arts & Sciences

Department
World Languages and Cultures

Program Level
Undergraduate

About this Degree

The TESOL certificate prepares students to teach English to speakers of other languages and develops professional teaching skills and intercultural competence skills. It offers the opportunity for hands-on practicum experience working with English Language Leaners (ELLs). The courses in this certificate focus on the application of pedagogic, linguistic, and cultural knowledge in the second language/ESL classroom, and adhere to the *TESOL International Association* standards. The certificate enables students to more easily obtain language teaching positions overseas or remote teaching positions. It may also qualify students to teach in the US, but does NOT qualify certificate holders to teach in the Utah K-12 school system. Courses may not be taken on a pass/fail basis. Courses are offered in the USU Connect mode where classes are held in-person at pre-scheduled meeting times with some students connecting virtually from other locations.

Admission Requirements for this Program

2.0 GPA

Program Requirements

Total Credits Required In Program Coursework
11

Total Credits Required To Earn This Credential
11

Simple Requisites

Program Requirements

There are four required courses including a hands-on practicum course.

Teaching English to Speakers of Other Languages (TESOL) - Certificate

Type
Completion Requirement

Required Courses

Complete ALL of the following Courses:

- LANG3100 - A Linguistic Introduction to English - 3cr.
- LANG3110 - Language Learning Pedagogy - 3cr.
- LANG3120 - Introduction to English Language Assessment - 3cr.
- LANG3150 - TESOL Practicum - 2cr.

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Undergraduate Academic or Technical Certificates)

Program Learning Outcomes

Program Learning Outcomes

https://artsci.usu.edu/assessments/

Technology Systems - BS

Program Overview

College
College of Agriculture & Natural Resources

Department
Technology, Design & Technical Ed

Program Level
Undergraduate

About this Degree

The **Bachelor of Science in Technology Systems** is a flexible, career-focused degree designed to build on technical training and applied learning. Many students begin with a **technical college certificate** that **stacks into the Associate of Applied Science (AAS) in Technology and Design**. The AAS provides the first two years of the bachelor's degree, integrating technical coursework, general education, and foundational professional skills to support success in advanced study and career preparation.

In the final two years, students gain the technical, managerial, and leadership skills employers value most, apply their learning through an internship or senior project, and customize their degree by **choosing one of three** emphasis areas:

- **Computer Technology Emphasis:** Build expertise in IT and cybersecurity while developing leadership skills to manage complex systems..
- **Manufacturing Emphasis:** Learn how to design, produce, and improve processes with practical skills that drive modern manufacturing.
- **Technical Management Emphasis:** Gain the leadership and problem-solving skills to manage people, projects, and processes across technical fields.

Each emphasis integrates a certificate or minor tailored to students' career goals, providing specialized, industry-relevant skills. This **stackable** design lets students earn progressive credentials that strengthen both their academic preparation and career advancement.

Advising and Support

- For more information, visit the Department of Technology, Design and Technical Education website.
- All admitted and current students are required to meet with an academic advisor.
- Schedule an appointment through the TDTE Advising Scheduler.
- Use Degree Works to track your academic progress.

Admission Requirements for this Program

New Freshman: Admitted to USU in Good Standing

Transfer students from other institutions or other programs at USU: 2.20 GPA

Program Requirements

Total Credits Required In Program Coursework
85-86

Total Credits Required To Earn This Credential
120

Simple Requisites

Program Requirements

The Bachelor of Science in Technology Systems is designed as a stackable degree pathway. Students begin with the Technology and Design AAS, **or** an approved equivalent, which serves as the foundation for the bachelor's degree. In the final two years, students build on this foundation by completing an

emphasis area that includes a certificate or minor aligned with their career goals. All students must also complete either an internship or a senior project as a culminating experience.

Technology Systems - BS

Type
Completion Requirement

Foundational Technical Requirement

Fulfill ALL of the following requirements:

Technical Foundation (30 credits)

Students must complete 30 articulated or advisor-approved technical credits. These credits may come from a Utah Technical College certificate, a USU certificate of proficiency/completion, or equivalent coursework or training verified in consultation with an academic advisor. These credits usually represent the first year of the degree.

AND

Specialized Elective Credits (10 credits)

Students must complete 10 credits of lower-division electives to complement their certificate and general education coursework.

Course options vary by emphasis area. Students should consult with their academic advisor to select electives that align with their goals.

Required Core Courses (18 credits)

Complete ALL of the following Courses:

- BUSN2200 - Professional Communications - 3cr.
  OR ENGL2020 - Professional Communication (CL2) - 3cr.
- BUSN2720 - Introduction to Project Management - 3cr.
- TESY1000 - Introduction to Technology and Design - 2cr.
- TESY3000 - Hazard Recognition & Control - 3cr.
  OR PUBH3310 - Occupational Health and Safety - 3cr.
- TESY3020 - Strategic Human Skills Development (CI) - 3cr.
- TESY4000 - Technology Systems Seminar - 1cr.
- TESY4500 - Quality Management Systems - 3cr.

Required Capstone Experience (3 credits)

Complete ANY of the following Courses:

- TESY4250 - Internship in Technology Systems - 1cr.
  OR TESY4900 - Senior Project in Technology Systems - 1cr.

*Enroll in 3 credits of TESY4250 INTERNSHIP **or** TESY4900 SENIOR PROJECT TECH SYSTEMS.*

Emphasis Areas and Certificates (15 credits)

While not required, these emphases can be fulfilled by completing one of the following certificates or minors. Students must declare and be accepted into the certificate program or minor to have it reflected on their academic record.

Other courses may also be used to fulfill the 15-credit upper-division requirements; please see advisor for further options.

Emphasis Areas
Computer Technology Emphasis

- Cybersecurity - Certificate *(online)*
- Information and Computer Technology - Certificate *(online)*

Manufacturing Emphasis

- Quality and Reliability - Institutional Certificate of Proficiency *(online)*

Technical Management Emphasis

- Applied Economics - Minor *(100% online)*
- Data Analytics - Minor
- Entrepreneurship - Minor *(100% online)*
- Finance - Minor
- Leadership and Management - Minor
- Marketing - Minor
- Marketing and Design - Minor *(100% online)*
- Operations and Supply Chain Management - Minor
- People and Organizations - Minor *(100% online)*
- Quality and Reliability - Institutional Certificate of Proficiency *(100% online)*
- Technical Sales Management

Recommended Courses to Fulfill University Studies

Fulfill ANY of the following requirements:
Recommended course: MSLE3110 MANAGING ORGANIZ/PEOPLE (DSS) for (DSS) requirement.

Minimum University Requirements

Minimum University Requirements
Minimum University Requirements (Bachelor's Degree)

Suggested Degree Maps

Degree Map Name
Suggested Degree Map: Technology Systems - BS
Total Degree Map Credits
120
Degree Map Effective Catalog Year
2027 -

Degree Map Narrative

- Following is a sample four-year plan. Please note that student-specific plans may differ.
- Meet with an academic advisor to create a specific plan that best fits your academic needs.
- The student is ultimately responsible for knowing and completing all degree requirements.
- Make sure you meet the registration requirements for each class by clicking the course link and checking any prerequisites or corequisites.
- Consultation with an advisor may result in an altered plan customized for an individual student.
- Check your Degree Works for requirements and completion.

Students complete their first-year coursework in one of two ways:

- **Option 1: Utah Technical College**
  Students who attended a Utah Technical College may have their first year of coursework fulfilled through **transfer credits**.
- **Option 2: Utah State University (USU)**
  Students who did **not** attend a technical college will complete their first year of coursework **at USU**. Working with their advisor to customize their path.

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	15	0

Requirement Select
- Technical College Credit or USU Credits (see advisor) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	15
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	15	0

Requirement Select
- Technical College Credit or USU Credits (see advisor) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	15
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	17	0

Requirement Select
- BUSN2720 - Introduction to Project Management

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- ENGL1010 - Writing as Inquiry (CL1)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- TESY1000 - Introduction to Technology and Design

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select
- Breadth Creative Arts (BCA) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Lower-Level Emphasis Credits (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Lower-Level Emphasis Credits (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	16	0

Requirement Select

- BUSN2200 - Professional Communications

OR

- ENGL2020 - Professional Communication (CL2)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Breadth American Institutions (BAI) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Breadth Life Sciences (BLS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Quantitative Literacy (QL) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Lower-Level Emphasis Credits (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Fall	15	0

Requirement Select

- ENGL2020 - Professional Communication (CL2)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- TESY3000 - Hazard Recognition & Control

OR

- PUBH3310 - Occupational Health and Safety

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Breadth Physical Sciences (BPS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Upper-Division Elective Credits (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Quantitative Intensive (QI) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Spring	14	0

Requirement Select
- TESY3020 - Strategic Human Skills Development (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Breadth Humanities (BHU) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Breadth Social Sciences (BSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Depth Humanities and Creative Arts (DHA) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Upper-Division Elective Credits (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Fall	16	0

Requirement Select
- TESY4000 - Technology Systems Seminar

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- Upper-Division Elective Credits (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- TESY4500 - Quality Management Systems

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Communications Intensive (CI) Courses

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Depth Social Sciences (DSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Upper-Division Elective Credits (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- DATA3400 is recommended to fulfill the CI requirement; MSLE3110 is recommended to fulfill the DSS requirement (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Spring	12	0

Requirement Select
- TESY4250 - Internship in Technology Systems
  OR
- TESY4900 - Senior Project in Technology Systems

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	1 - 12
Clinical	-
Criticality	No

Requirement Select

- Upper-Division Elective Credits (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Upper-Division Elective Credits (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Upper-Division Elective Credits (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Program Learning Outcomes

Program Learning Outcomes

Apply project management principles and tools to effectively plan, execute, and lead technical projects across diverse industries.

Demonstrate proficiency in specialized technical skills aligned with one of three emphasis areas—Computer Technology, Manufacturing, or Technical Management.

Identify and mitigate safety hazards in technological environments using industry-standard risk management strategies.

Communicate and collaborate effectively in professional settings, demonstrating leadership, teamwork, and interpersonal skills.

Integrate academic and industry knowledge through experiential learning (e.g., internships or senior projects) to solve real-world problems and prepare for career advancement.

Technology Systems: Computer Technology Emphasis - BS

Program Overview

College
College of Agriculture & Natural Resources

Department
Technology, Design & Technical Ed

Program Level
Undergraduate

About this Degree

The Computer Technology emphasis prepares students for careers in cybersecurity, IT support, systems administration, and network management. Students build skills in ethical hacking, digital forensics, cloud computing, and hardware/software integration. This emphasis is ideal for those who want to protect digital infrastructure and support secure, efficient technology systems across industries. The program also includes experiential learning through internships or senior projects, helping students apply their skills in real-world settings.

Students choose one certificate—either Cybersecurity or Information & Computer Technology—to build specialized skills and earn credentials along the way to a bachelor's degree. Those who prefer a customized path can work with their advisor to select relevant coursework.

Advising and Support

- For more information, visit the Department of Technology, Design and Technical Education website.
- All admitted and current students are required to meet with an academic advisor.
- Schedule an appointment through the TDTE Advising Scheduler.
- Use Degree Works to track your academic progress.

Admission Requirements for this Program

New Freshman: Admitted to USU in Good Standing

Transfer students from other institutions or other programs at USU: 2.20 GPA

Program Requirements

Total Credits Required In Program Coursework
85-86

Total Credits Required To Earn This Credential
120

Simple Requisites

Program Requirements

The Bachelor of Science in Technology Systems is designed as a stackable degree pathway. Students begin with the Technology and Design AAS, **or** an approved equivalent, which serves as the foundation for the bachelor's degree. In the final two years, students build on this foundation by completing an emphasis area that includes a certificate or minor aligned with their career goals. All students must also complete either an internship or a senior project as a culminating experience.

Technology Systems: Computer Technology Emphasis - BS Course Requirements

Type
Completion Requirement

Foundational Technical Requirement

Fulfill ALL of the following requirements:

Technical Foundation (30 credits)

Students must complete 30 articulated or advisor-approved technical credits. These credits are most often earned through the *Networking and Cybersecurity* certificate offered at Utah Technical Colleges, which stacks into USU's IT Support and Web Development AAS degrees and then into the Computer Technology TESY bachelor's degree. Equivalent training may also be accepted with advisor approval.

The following courses are commonly included in the Networking and Cybersecurity certificate pathway.

Complete ALL of the following Courses:

- BCIS1050 - Career and Workplace Relations - 1cr.
  OR TEIT1050 - Career and Workplace Relations - 1cr.
- BCIS1100 - Introduction to Networking - 1cr.
  OR TEIT1100 - Introduction to Networking - 1cr.
- TEIT1170 - Computer Networks I - 2cr.
- BCIS1250 - A+ Core 1 - 3cr.
  OR TEIT1200 - A+ Core 1 - 3cr.
- BCIS1260 - A+ Core 2 - 3cr.
  OR TEIT1210 - A+ Core 2 - 3cr.
- BCIS1300 - Website Design - 3cr.
  OR TEIT1310 - Website Design - 3cr.
- BCIS1320 - Linux Foundations - 2cr.
  OR TEIT1300 - Linux Foundations - 2cr.
- BCIS1540 - Introduction to Cloud - 2cr.
  OR TEIT1400 - Introduction to Cloud - 2cr.
- BCIS1550 - Introduction to Python - 3cr.
  OR TEIT1550 - Practical Python - 3cr.
- BCIS2631 - Network+ - 4cr.
  OR TEIT2170 - Computer Networks II - 3cr.
- BCIS2651 - Cybersecurity/Security+ - 4cr.
  OR TEIT2200 - Security + - 4cr.

Cybersecurity – (Prerequisites Courses include BCIS 1320, BCIS 2631,BCIS 2651 with a minimum grade of D)

Information and Computer Technology – (Prerequisites Courses include BCIS 1250, BCIS 1260, BCIS 1320, BCIS 1500, BCIS 1540, BCIS 2631, BCIS 2651 with minimum grade of D)

AND

Specialized Elective Credits (10 credits)

Students must complete 10 credits from the following courses. For additional options, contact the academic advisor.

Earn at least 10 credits from the following:

- ACCT2010 - Financial Accounting Principles - 3cr.
- ACCT2020 - Managerial Accounting Principles - 3cr.
- APEC2010 - Introduction to Microeconomics (BSS) - 3cr.
- BUSN1111 - Accounting Principles - 3cr.
- BUSN2050 - Business Law - 3cr.
- BUSN2320 - Small Business Management - CTE - 3cr.
- CMST2110 - Interpersonal Communication (BHU) - 3cr.
- CS1400 - Introduction to Computer Science--CS 1 - 4cr.
- CS1410 - Introduction to Computer Science--CS 2 (QI) - 3cr.
- DATA1100 - Excel for Business Analysis - 1cr.
- MSLE2500 - Business for Good: Making an Impact through Social Entrepreneurship - 2cr.
- MSLE2550 - Entrepreneur Leadership Series - 1cr.
- MSLE2700 - 7-Habits of Highly Effective People - 2cr.
- MSLE2750 - Enhancing Happiness in Your Life and Career - 3cr.
- USU1010 - University Connections - 2cr.

Required Core Courses (18 credits)

Complete ALL of the following Courses:

- BUSN2200 - Professional Communications - 3cr.
  OR ENGL2020 - Professional Communication (CL2) - 3cr.
- BUSN2720 - Introduction to Project Management - 3cr.
- TESY1000 - Introduction to Technology and Design - 2cr.
- TESY3000 - Hazard Recognition & Control - 3cr.
  OR PUBH3310 - Occupational Health and Safety - 3cr.
- TESY3020 - Strategic Human Skills Development (CI) - 3cr.
- TESY4000 - Technology Systems Seminar - 1cr.
- TESY4500 - Quality Management Systems - 3cr.

Required Capstone Experience (3 credits)

Complete ANY of the following Courses:

- TESY4250 - Internship in Technology Systems - 1cr.
  OR TESY4900 - Senior Project in Technology Systems - 1cr.

*Students are only required to take a minimum of 3 credits in either TESY4250 INTERNSHIP **or** TESY4900 SENIOR PROJECT TECH SYSTEMS.*

Computer Technology Emphasis (15 credits)

Students complete **15 credits of upper-division coursework** in Computer Technology. Students will choose either the **Cybersecurity** Certificate or the I**nformation and Computer Technology** Certificate. Students must declare and be formally accepted into the certificate or minor for it to appear on their academic record.

Earn at least 15 credits from the following:

- TESY4760 - Information Technology Management - 3cr.
- TESY4810 - Computer Server Defense - 3cr.
- TESY4820 - Penetration Testing - 3cr.
- TESY4830 - Network Defense and Traffic Analysis - 3cr.
- TESY4840 - Security and Digital Forensics - 3cr.
- TESY4730 - Cloud Computing Architecture - 3cr.
- TESY4750 - Network Administration - 3cr.
- TESY4760 - Information Technology Management - 3cr.
- TESY4770 - Database Administration - 3cr.
- TESY4850 - Scripting for IT and Cybersecurity - 3cr.

Cybersecurity - Certificate *(Courses include in TESY 4760, TESY 4810, TESY 4820, TESY 4830, TESY 4840)*

Information and Computer Technology - Certificate *(Courses include TESY 4730, TESY 4750, TESY 4760, TESY 4770, TESY 4850).*

Recommended Courses to Fulfill University Studies

Fulfill ANY of the following requirements:
Recommended course: MSLE3110 MANAGING ORGANIZ/PEOPLE (DSS) for (DSS) requirement.

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Bachelor's Degree)

Suggested Degree Maps

Degree Map Name

Suggested Degree Map: Technology Systems - Computer Technology Emphasis - BS

Total Degree Map Credits
120

Degree Map Effective Catalog Year
2027 -

Degree Map Narrative

- Following is a sample four-year plan. Please note that student-specific plans may differ.
- Meet with an academic advisor to create a specific plan that best fits your academic needs.
- The student is ultimately responsible for knowing and completing all degree requirements.
- Make sure you meet the registration requirements for each class by clicking the course link and checking any prerequisites or corequisites.
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- Check your Degree Works for requirements and completion.

Students complete their first-year coursework in one of two ways:

- **Option 1: Utah Technical College**
  Students who attended a Utah Technical College may have their first year of coursework fulfilled through **transfer credits**.
- **Option 2: Utah State University (USU)**
  Students who did **not** attend a technical college will complete their first year of coursework **at USU**. Working with their advisor to customize their path.

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	15	0

Requirement Select
- Technical College Credit or USU Credits (see advisor) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	15
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	15	0

Requirement Select
- Technical College Credit or USU Credits (see advisor) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	15
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	17	0

Requirement Select
- BUSN2720 - Introduction to Project Management

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- ENGL1010 - Writing as Inquiry (CL1)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- TESY1000 - Introduction to Technology and Design

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select
- Breadth Creative Arts (BCA) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Lower-Level Emphasis Credits (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Lower-Level Emphasis Credits (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	16	0

Requirement Select
- BUSN2200 - Professional Communications

OR
- ENGL2020 - Professional Communication (CL2)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Breadth American Institutions (BAI) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Breadth Life Sciences (BLS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Quantitative Literacy (QL) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Lower-Level Emphasis Credits (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Fall	15	0

Requirement Select

- ENGL2020 - Professional Communication (CL2)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- TESY3000 - Hazard Recognition & Control

OR

- PUBH3310 - Occupational Health and Safety

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Breadth Physical Sciences (BPS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Upper-Division Elective Credits (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Quantitative Intensive (QI) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Spring	14	0

Requirement Select

- TESY3020 - Strategic Human Skills Development (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Breadth Humanities (BHU) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Breadth Social Sciences (BSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Depth Humanities and Creative Arts (DHA) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Upper-Division Elective Credits (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Fall	16	0

Requirement Select
- TESY4000 - Technology Systems Seminar

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- Upper-Division Elective Credits (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- TESY4500 - Quality Management Systems

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Communications Intensive (CI) Courses

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Depth Social Sciences (DSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Upper-Division Elective Credits (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- DATA3400 is recommended to fulfill the CI requirement; MSLE3110 is recommended to fulfill the DSS requirement (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Spring	12	0

Requirement Select

- TESY4250 - Internship in Technology Systems
  OR
- TESY4900 - Senior Project in Technology Systems

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	1 - 12
Clinical	-
Criticality	No

Requirement Select

- Upper-Division Elective Credits (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Upper-Division Elective Credits (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Upper-Division Elective Credits (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	Total Major Credits
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Program Learning Outcomes

Program Learning Outcomes

- Apply project management tools to lead IT and cybersecurity initiatives, including systems administration and network security.
- Demonstrate proficiency in digital forensics, ethical hacking, cloud computing, and hardware/software integration.
- Identify and mitigate cybersecurity threats using industry-standard risk management and ethical frameworks.
- Communicate technical concepts effectively across teams and stakeholders, fostering collaboration in digital environments.
- Integrate academic and industry knowledge through experiential learning (e.g., internships or senior projects) to solve real-world IT and cybersecurity challenges.

Technology Systems: Manufacturing Emphasis - BS

Program Overview

College
College of Agriculture & Natural Resources

Department
Technology, Design & Technical Ed

Program Level
Undergraduate

About this Degree

The **Manufacturing Technology emphasis** equips students with the skills needed to succeed in quality, reliability, and modern manufacturing environments. Students develop hands-on experience with **quality management systems, lean manufacturing, root cause analysis, and statistical quality control**.

Students are **highly encouraged** to complete the **Quality and Reliability Certificate**, which aligns closely with the emphasis and enhances career readiness. While the certificate is *not required*, students who choose not to complete it must work closely with their academic advisor to identify an approved set of alternative courses to fulfill emphasis requirements.

Advising and Support

- For more information, visit the Department of Technology, Design and Technical Education website.
- All admitted and current students are required to meet with an academic advisor.
- Schedule an appointment through the TDTE Advising Scheduler.
- Use Degree Works to track your academic progress.

Admission Requirements for this Program

New Freshman: Admitted to USU in Good Standing

Transfer students from other institutions or other programs at USU: 2.20 GPA

Program Requirements

Total Credits Required In Program Coursework
85-86

Total Credits Required To Earn This Credential
120

Simple Requisites

Program Requirements

The Bachelor of Science in Technology Systems is designed as a stackable degree pathway. Students begin with the b5eKx0I7rjZ4cFTmp5mb - Missing program, **or** an approved equivalent, which serves as the foundation for the bachelor's degree. In the final two years, students build on this foundation by completing an emphasis area that includes a certificate or minor aligned with their career goals. All students must also complete either an internship or a senior project as a culminating experience.

Technology Systems: Manufacturing Emphasis - BS Course Requirements

Type
Completion Requirement

Foundational Technical Requirement

Fulfill ALL of the following requirements:

Technical Foundation (30 credits)

Students must complete 30 articulated or advisor-approved technical credits. These credits may come from a Utah Technical College certificate, a USU certificate of proficiency/completion, or equivalent coursework or training verified in consultation with an academic advisor. These credits usually represent the first year of the degree.

AND

Specialized Elective Credits (10 credits)

Students must complete 10 credits from the following courses. For additional options, contact the academic advisor.

Earn at least 10 credits from the following:

- BUSN1410 - Spreadsheet (Excel) - 2cr.
- OPDD1000 - Product Concept Sketching - 3cr.
- OPDD1050 - Fundamentals of Design - 3cr.
- MSLE2650 - Adobe Graphic Design - 3cr.
- TEE1010 - Graphic Communication Technologies - 3cr.
- TEE1040 - Construction and Estimating - 3cr.
- TEE1640 - Introduction to Welding - 3cr.
- TEE2030 - Wood-Based Manufacturing Systems - 3cr.
- TEE2220 - Civil Engineering and Architecture - 3cr.
- TESY1030 - Material Processing Systems - 3cr.
- TESY1020 - Energy, Power, Transportation Systems Control Technology - 3cr.
- TESY1200 - Computer-Aided Drafting and Design - 3cr.
- TESY2200 - Intermediate CAD - 3cr.

Required Core Courses (18 credits)

Complete ALL of the following Courses:

- BUSN2200 - Professional Communications - 3cr.
  OR ENGL2020 - Professional Communication (CL2) - 3cr.
- BUSN2720 - Introduction to Project Management - 3cr.
- TESY1000 - Introduction to Technology and Design - 2cr.
- TESY3000 - Hazard Recognition & Control - 3cr.
  OR PUBH3310 - Occupational Health and Safety - 3cr.
- TESY3020 - Strategic Human Skills Development (CI) - 3cr.
- TESY4000 - Technology Systems Seminar - 1cr.
- TESY4500 - Quality Management Systems - 3cr.

Required Capstone Experience (3 credits)

Complete ANY of the following Courses:

- TESY4250 - Internship in Technology Systems - 1cr.
  OR TESY4900 - Senior Project in Technology Systems - 1cr.

*Students are only required to take a minimum of 3 credits in either TESY4250 INTERNSHIP **or** TESY4900 SENIOR PROJECT TECH SYSTEMS.*

Manufacturing Emphasis (15 credits)

Students complete **15 credits of upper-division coursework** in Manufacturing. While not required, this emphasis **may be fulfilled through the Quality and Reliability certificate**. Students must declare and be formally accepted into the certificate or minor for it to appear on their academic record.

Earn at least 15 credits from the following:

- MGT3600 - Project Management - 2cr.
- MGT3700 - Operations Management - 3cr.
- MGT4760 - Services Management - 2cr.
- MGT5730 - Lean Continuous Improvement - 3cr.
- MSLE3110 - Managing Organizations and People (DSS) - 3cr.
- MSLE3710 - Leading Teams - 2cr.

- MSLE3800 - Leadership - 2cr.
- MSLE4550 - New Product Ideation and Brand Growth - 2cr.
- MSLE4531 - Critical Thinking and Competitive Intelligence - 2cr.
- TESY4510 - Quality Root Cause Analysis Methods and Applications - 3cr.
- TESY4520 - Statistical Quality Control w/SPC - 3cr.
- TESY4530 - Principles of Lean Manufacturing - 3cr.
- TESY4540 - Quality Management Systems II - 3cr.

Recommended Courses to Fulfill University Studies

Fulfill ANY of the following requirements:
Recommended course: MSLE3110 MANAGING ORGANIZ/PEOPLE (DSS) for (DSS) requirement.

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Bachelor's Degree)

Suggested Degree Maps

Degree Map Name
Suggested Degree Map: Technology Systems - Manufacturing Emphasis - BS
Total Degree Map Credits
120
Degree Map Effective Catalog Year
2027 -

Degree Map Narrative

- Following is a sample four-year plan. Please note that student-specific plans may differ.
- Meet with an academic advisor to create a specific plan that best fits your academic needs.
- The student is ultimately responsible for knowing and completing all degree requirements.
- Make sure you meet the registration requirements for each class by clicking the course link and checking any prerequisites or corequisites.
- Consultation with an advisor may result in an altered plan customized for an individual student.
- Check your Degree Works for requirements and completion.

Students complete their first-year coursework in one of two ways:

- **Option 1: Utah Technical College**
  Students who attended a Utah Technical College may have their first year of coursework fulfilled through **transfer credits**.
- **Option 2: Utah State University (USU)**
  Students who did **not** attend a technical college will complete their first year of coursework **at USU**. Working with their advisor to customize their path.

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	15	0

Requirement Select
- Technical College Credit or USU Credits (see advisor) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	15
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	15	0

Requirement Select
- Technical College Credit or USU Credits (see advisor) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	15
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	17	0

Requirement Select
- BUSN2720 - Introduction to Project Management

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- ENGL1010 - Writing as Inquiry (CL1)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- TESY1000 - Introduction to Technology and Design

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select

- Breadth Creative Arts (BCA) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Lower-Level Emphasis Credits (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Lower-Level Emphasis Credits (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	16	0

Requirement Select

- BUSN2200 - Professional Communications

OR

- ENGL2020 - Professional Communication (CL2)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Breadth American Institutions (BAI) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Breadth Life Sciences (BLS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Quantitative Literacy (QL) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Lower-Level Emphasis Credits (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Fall	15	0

Requirement Select

- ENGL2020 - Professional Communication (CL2)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- TESY3000 - Hazard Recognition & Control

OR

- PUBH3310 - Occupational Health and Safety

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Breadth Physical Sciences (BPS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Quantitative Intensive (QI) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Upper-Division Elective Credits (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Spring	14	0

Requirement Select

- TESY3020 - Strategic Human Skills Development (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Breadth Humanities (BHU) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Breadth Social Sciences (BSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Depth Humanities and Creative Arts (DHA) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Upper-Division Elective Credits (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Fall	16	0

Requirement Select
- TESY4000 - Technology Systems Seminar

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- TESY4500 - Quality Management Systems

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Communications Intensive (CI) Courses

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Depth Social Sciences (DSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Upper-Division Elective Credits (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Upper-Division Elective Credits (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- DATA3400 is recommended to fulfill the CI requirement; MSLE3110 is recommended to fulfill the DSS requirement (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Spring	12	0

Requirement Select
- TESY4250 - Internship in Technology Systems
  OR
- TESY4900 - Senior Project in Technology Systems

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	1 - 12
Clinical	-
Criticality	No

Requirement Select
- Upper Division Elective Credits (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Upper Division Elective Credits (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Upper-Division Elective Credits (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	Total Major Credits
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Program Learning Outcomes

Program Learning Outcomes

- Apply project management principles to oversee manufacturing workflows, product development cycles, and quality assurance systems.
- Demonstrate proficiency in additive manufacturing, CAD, lean manufacturing, and statistical quality control.
- Identify and mitigate safety hazards in production environments using industry-standard safety and risk protocols.
- Collaborate effectively in cross-functional teams, demonstrating leadership in innovation and continuous improvement.
- Integrate academic and industry knowledge through experiential learning to address challenges in advanced manufacturing, food production or other areas.

Technology Systems: Technical Management Emphasis - BS

Program Overview

College
College of Agriculture & Natural Resources

Department
Technology, Design & Technical Ed

Program Level
Undergraduate

About this Degree

The Technical Management emphasis is designed for students who want to lead teams, manage operations, and drive innovation in technical environments. Students develop skills in project management, data analytics, supply chain logistics, and organizational leadership.

Students choose one certificate or minor—such as Leadership & Management, Operations and Supply Chain, or Entrepreneurship—to focus their studies. Those seeking a more personalized path can collaborate with their advisor to select courses that align with their goals. Through hands-on learning and real-world projects, students graduate ready to take on leadership roles in dynamic industries.

Advising and Support

- For more information, visit the Department of Technology, Design and Technical Education website.
- All admitted and current students are required to meet with an academic advisor.
- Schedule an appointment through the TDTE Advising Scheduler.
- Use Degree Works to track your academic progress.

Admission Requirements for this Program

New Freshman: Admitted to USU in Good Standing

Transfer students from other institutions or other programs at USU: 2.20 GPA

Program Requirements

Total Credits Required In Program Coursework
85-86

Total Credits Required To Earn This Credential
120

Simple Requisites

Program Requirements

The Bachelor of Science in Technology Systems is designed as a stackable degree pathway. Students begin with the Technology and Design AAS, **or** an approved equivalent, which serves as the foundation for the bachelor's degree. In the final two years, students build on this foundation by completing an emphasis area that includes a certificate or minor aligned with their career goals. All students must also complete either an internship or a senior project as a culminating experience.

Technology Systems: Technical Management Emphasis - BS Course Requirements

Type
Completion Requirement

Foundational Technical Requirement

Fulfill ALL of the following requirements:

Technical Foundation (30 credits)

Students must complete 30 articulated or advisor-approved technical credits. These credits may come from a Utah Technical College certificate, a USU certificate of proficiency/completion, or equivalent coursework or training verified in consultation with an academic advisor. These credits usually represent the first year of the degree.

AND

Specialized Elective Credits (10 credits)

Collaborate with your advisor to select the right courses that align with your intended bachelor's degree.

Earn at least 10 credits from the following:

- ACCT2010 - Financial Accounting Principles - 3cr.
- ACCT2020 - Managerial Accounting Principles - 3cr.
- APEC2010 - Introduction to Microeconomics (BSS) - 3cr.
- APEC2120 - Small Firm Accounting Basics - 3cr.
- APEC2310 - Small Firm Management - 3cr.
- ASTE2100 - Personal and Team Leadership - 3cr.
- BCIS1300 - Website Design - 3cr.
- BCIS1320 - Linux Foundations - 2cr.
- BCIS2631 - Network+ - 4cr.
- BUSN1010 - Business Principles (BSS) - 3cr.
- BUSN1020 - Digital Literacy - 2cr.
- BUSN1021 - Personal Finance - 3cr.
- BUSN1410 - Spreadsheet (Excel) - 2cr.
- BUSN2010 - Financial Accounting - 4cr.
- BUSN2020 - Managerial Accounting - 4cr.
- BUSN2050 - Business Law - 3cr.
- BUSN2160 - Introduction to Business Finance - 3cr.
- BUSN2320 - Small Business Management - CTE - 3cr.
- BUSN2390 - Organizational Behavior - 3cr.
- BUSN2620 - Digital Marketing - 3cr.
- BUSN2800 - Computerized Accounting - 3cr.
- BUSN2988 - Special Problems - 1cr.
- CMST1020 - Public Speaking (BHU) - 3cr.
- CMST1330 - Introduction to Global Communication (BSS) - 3cr.
- DATA1100 - Excel for Business Analysis - 1cr.
- DATA2100 - Data and Information in Business - 3cr.
- MSLE1800 - Leadership and Human Flourishing - 3cr.
- MSLE2500 - Business for Good: Making an Impact through Social Entrepreneurship - 2cr.
- MSLE2600 - Introduction to Entrepreneurship - 3cr.
- MSLE2650 - Adobe Graphic Design - 3cr.
- MSLE2700 - 7-Habits of Highly Effective People - 2cr.
- MSLE2750 - Enhancing Happiness in Your Life and Career - 3cr.

Required Core Courses (18 credits)

Complete ALL of the following Courses:

- BUSN2200 - Professional Communications - 3cr.
  OR ENGL2020 - Professional Communication (CL2) - 3cr.
- BUSN2720 - Introduction to Project Management - 3cr.
- TESY1000 - Introduction to Technology and Design - 2cr.
- TESY3000 - Hazard Recognition & Control - 3cr.
  OR PUBH3310 - Occupational Health and Safety - 3cr.
- TESY3020 - Strategic Human Skills Development (CI) - 3cr.
- TESY4000 - Technology Systems Seminar - 1cr.
- TESY4500 - Quality Management Systems - 3cr.

Required Capstone Experience (3 credits)

Complete ANY of the following Courses:

- TESY4250 - Internship in Technology Systems - 1cr.
  OR TESY4900 - Senior Project in Technology Systems - 1cr.

*Students are only required to take a minimum of 3 credits in either TESY4250 INTERNSHIP **or** TESY4900 SENIOR PROJECT TECH SYSTEMS.*

Technical Management Emphasis (15 credits)

Students complete **15 credits of upper-division coursework** in Technical Management. While not required, this emphasis **may be fulfilled through an approved USU certificate or minor**. Students must declare and be formally accepted into the certificate or minor for it to appear on their academic record.

Eligible Minor & Certificate Options Include:

- Applied Economics - Minor *(100% online)*
- Data Analytics - Minor
- Entrepreneurship - Minor *(100% online)*
- Finance - Minor
- Leadership and Management - Minor
- Marketing - Minor
- Marketing and Design - Minor (*100% online*)
- Operations and Supply Chain Management - Minor
- People and Organizations - Minor *(100% online)*
- Quality and Reliability - Institutional Certificate of Proficiency *(100% online)*
- Technical Sales Management

Earn at least 15 credits from the following:

- APEC3310 - Analytical Methods in Applied Economics (QI) - 3cr.
- APEC4010 - Intermediate Microeconomics - 3cr.
- APEC5000 - International Trade and Finance - 3cr.
- APEC5010 - Firm Marketing and Price Analysis (QI) - 3cr.
- APEC5015 - Applied Economics for Decision Making (QI) - 3cr.
- APEC5020 - Strategic Firm Management (CI) - 3cr.
- APEC5560 - Natural Resource and Environmental Economics - 3cr.
- APEC5700 - Regional and Community Economic Development - 3cr.
- DATA3300 - Introduction to Modern Data Analytics (QI) - 3cr.
- DATA4330 - Advanced Database and Database Analytics - 3cr.
- DATA5400 - Data Visualization with Tableau (CI) - 3cr.
- DATA5480 - Data Mining - 3cr.
- DATA5500 - Python Programming for Analytics - 3cr.
- DATA5600 - Introduction to Regression and Machine Learning for Analytics - 3cr.
- DATA5610 - Advanced Machine Learning for Analytics - 3cr.
- FIN3200 - Corporate Finance (QI) - 3cr.
- FIN3300 - Investments - 3cr.
- FIN4200 - Intermediate Corporate Finance - 3cr.
- FIN4410 - Financial Institutions - 3cr.
- ITLS3110 - Design Perspectives and Processes I - 3cr.
- ITLS3130 - How People Learn - 3cr.
- ITLS3120 - Design Perspectives and Processes II - 3cr.
- ITLS4110 - Project and Product Management - 3cr.
- ITLS5215 - Video and Audio Design and Production I - 3cr.
- ITLS5265 - Internet Design and Development - 3cr.
- ITLS5270 - Digital Making and Learning - 3cr.
- MGT3100 - Organizational Behavior - 2cr.
- MGT3150 - Critical Thinking for Managerial Decision Making - 2cr.
- MGT3250 - Managing Human Capital - 3cr.
- MGT3600 - Project Management - 2cr.
- MGT3700 - Operations Management - 3cr.
- MGT4250 - Management Internship - 1cr.
- MGT4600 - Negotiations - 2cr.
- MGT4720 - Sales and Operations Planning - 2cr.
- MGT4740 - Quality Management - 2cr.
- MGT4760 - Services Management - 2cr.
- MGT4790 - Managing Global Value Chains - 2cr.
- MGT5730 - Lean Continuous Improvement - 3cr.
- MSLE3110 - Managing Organizations and People (DSS) - 3cr.
- MSLE3500 - Fundamentals of Marketing - 3cr.
- MSLE3510 - New Venture Creation - 3cr.
- MSLE3530 - New Venture Marketing - 3cr.
- MSLE3540 - New Venture Finance - 3cr.
- MSLE3580 - New Venture Execution - 3cr.
- MSLE3590 - Small Business Consulting - 2cr.
- MSLE3710 - Leading Teams - 2cr.
- MSLE3800 - Leadership - 2cr.
- MSLE3820 - International Business (DSS) - 3cr.
- MSLE3855 - Sustainability Marketing - 2cr.
- MSLE4250 - Marketing-Strategy-Leadership-Entrepreneurship Internship - 2cr.
- MSLE4510 - Consumer Behavior - 2cr.
- MSLE4531 - Critical Thinking and Competitive Intelligence - 2cr.
- MSLE4533 - Marketing Research and Analytics - 2cr.
- MSLE4534 - Survey Research - 2cr.
- MSLE4535 - Promotional Strategy - 2cr.
- MSLE4550 - New Product Ideation and Brand Growth - 2cr.
- MSLE4555 - Pricing & B2B Buyer-Seller Decisions - 2cr.
- MSLE4560 - Strategic Sales (CI) - 2cr.
- MSLE4562 - Sales and Marketing Practicum - 2cr.
- MSLE4565 - Sales Management - 2cr.
- MSLE4575 - Customer Success Strategy - 2cr.
- MSLE4590 - Marketing Strategy - 3cr.
- MSLE4895 - Consulting Skills - 3cr.
- TESY4510 - Quality Root Cause Analysis Methods and Applications - 3cr.
- TESY4520 - Statistical Quality Control w/SPC - 3cr.
- TESY4530 - Principles of Lean Manufacturing - 3cr.
- TESY4540 - Quality Management Systems II - 3cr.

See your advisor for other possible course options.

Recommended Courses to Fulfill University Studies

Fulfill ANY of the following requirements:
Recommended course: MSLE3110 MANAGING ORGANIZ/PEOPLE (DSS) for (DSS) requirement.

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Undergraduate Academic or Technical Certificates)

Suggested Degree Maps

Degree Map Name
Suggested Degree Map: Technology Systems - Technical Management - BS
Total Degree Map Credits
120
Degree Map Effective Catalog Year
2027 -

Degree Map Narrative

- Following is a sample four-year plan. Please note that student-specific plans may differ.
- Meet with an academic advisor to create a specific plan that best fits your academic needs.
- The student is ultimately responsible for knowing and completing all degree requirements.
- Make sure you meet the registration requirements for each class by clicking the course link and checking any prerequisites or corequisites.
- Consultation with an advisor may result in an altered plan customized for an individual student.
- Check your Degree Works for requirements and completion.

Students complete their first-year coursework in one of two ways:

- **Option 1: Utah Technical College**
  Students who attended a Utah Technical College may have their first year of coursework fulfilled through **transfer credits**.
- **Option 2: Utah State University (USU)**
  Students who did **not** attend a technical college will complete their first year of coursework **at USU**. Working with their advisor to customize their path.

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	15	0

Requirement Select
- Technical College Credit or USU Credits (see advisor) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	15
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	15	0

Requirement Select
- Technical College Credit or USU Credits (see advisor) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	15
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	17	0

Requirement Select
- BUSN2720 - Introduction to Project Management

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- ENGL1010 - Writing as Inquiry (CL1)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- TESY1000 - Introduction to Technology and Design

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select
- Breadth Creative Arts (BCA) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Lower-Level Emphasis Credits (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Lower-Level Emphasis Credits (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	16	0

Requirement Select
- BUSN2200 - Professional Communications

OR
- ENGL2020 - Professional Communication (CL2)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Breadth American Institutions (BAI) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Breadth Life Sciences (BLS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Quantitative Literacy (QL) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Lower-Level Emphasis Credits (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Fall	15	0

Requirement Select

- ENGL2020 - Professional Communication (CL2)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- TESY3000 - Hazard Recognition & Control

OR

- PUBH3310 - Occupational Health and Safety

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Breadth Physical Sciences (BPS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Upper-Division Elective Credits (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Quantitative Intensive (QI) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Spring	14	0

Requirement Select

- TESY3020 - Strategic Human Skills Development (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Breadth Humanities (BHU) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Breadth Social Sciences (BSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Depth Humanities and Creative Arts (DHA) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Upper-Division Elective Credits (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Fall	16	0

Requirement Select
- TESY4000 - Technology Systems Seminar

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- Upper-Division Elective Credits (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- TESY4500 - Quality Management Systems

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Communications Intensive (CI) Courses

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Depth Social Sciences (DSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Upper-Division Elective Credits (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- DATA3400 is recommended to fulfill the CI requirement; MSLE3110 is recommended to fulfill the DSS requirement (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Spring	12	0

Requirement Select

- TESY4250 - Internship in Technology Systems
  OR
- TESY4900 - Senior Project in Technology Systems

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	1 - 12
Clinical	-
Criticality	No

Requirement Select

- Upper-Division Elective Credits (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Upper-Division Elective Credits (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Upper-Division Elective Credits (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	Total Major Credits
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Program Learning Outcomes

Program Learning Outcomes

- Apply project management strategies to lead operations, supply chain initiatives, and/or organizational development projects.
- Demonstrate proficiency in business analytics, leadership, marketing, HR, and entrepreneurship within technical environments.
- Identify and mitigate organizational risks using ethical decision-making and strategic planning.
- Communicate and collaborate effectively in professional settings, demonstrating leadership and interpersonal skills across departments.
- Integrate academic and industry knowledge through experiential learning to drive innovation and efficiency in technical organizations.

Theatre Arts: Acting - BFA

Program Overview

College
College of Arts & Sciences

Department
Theatre Arts

Program Level
Undergraduate

About this Degree

The acting emphasis is for students desiring to become professional performers. Coursework for this emphasis covers acting, voice, movement, and directing fundamentals. It also provides an understanding of the technical and design responsibilities of any production.

The Acting Emphasis BFA at USU prepares students for performance careers in major-market cities or admission to an MFA training program. The curriculum includes ten acting courses covering all the major genres, such as musical theater, Shakespeare, and acting for the camera, as well as voice, movement and dance courses. Acceptance into the acting program is competitive and requires an audition, application and interview. The program functions on a cohort system, accepting between eight and twelve students per year. Retention must be earned by personal growth and commitment, along with the faculty's biannual evaluation of satisfactory progress. The training culminates in a capstone project.

- For more information about Theatre Arts, see the department website.
- Admitted and current students must meet with an acting area advisor as well as the Caine School of the Arts advisor before registering for courses.
- The highest math requirement for this degree is the Quantitative Literacy (QL) of the student's choice.

Admission Requirements for this Program

- Students are considered for admission to the department and BFA degree program through application referral from USU Admissions and submission of supporting materials to the department https://artsci.usu.edu/theatre-arts/areas-of-study/acting-bfa.
- Acceptance is not guaranteed.
- Transfer students must verify transfer credit acceptance prior to application to USU.
- **Major Expectations:** Students are expected to develop proper attitudes, habits, work standards and professionalism to move on to graduate studies or directly into the professional world of theatre. Students are expected to audition for all department productions and be available to accept any role.
- **Minimum Overall GPA for Admission**: 2.75

Program Requirements

Total Credits Required In Program Coursework
78

Total Credits Required To Earn This Credential
120

Simple Requisites

Program Requirements

- Minimum GPA for Admission: 2.75 overall
- Minimum GPA for continuance in the program and for graduation: 2.75
- Minimum grade accepted in all major courses: B-
- Major requirements may not be taken on a pass/fail basis unless only offered as pass/fail

Departmental Requirements:

- Students are required to attend all production strikes.

Theatre Arts: Acting - BFA

Type
Completion Requirement

Required Core (15 credits)

Earn at least 15 credits from the following:

- THEA1513 - Stagecraft (BCA) - 3cr.
- THEA1713 - Playscript Analysis (BHU) - 3cr.
- THEA2203 - Costume Construction and Technology - 3cr.
- THEA3710 - Theatre History and Literature I (DHA)(CI) - 3cr.
- THEA3720 - Theatre History and Literature II (CI/DHA) - 3cr.

Theatre Practicum Requirement (5 credits)

Complete ALL of the following Courses:

- THEA2555 - Production Practicum - 1cr.

NOTE:

1. THEA2555 PRODUCTION PRACTICUM - Take a total of 5 credits of production practicum.

Note: Students should complete THEA1513 STAGECRAFT (BCA) and THEA2203 COSTUME CONSTRUCTION/TECH before taking THEA2555 PRODUCTION PRACTICUM.

- Register for Practicum in the following areas:
  - Costume
  - Paint & Props
  - Scenic
  - Run Crew

*Lighting/Sound Practicum is available by special permission

Required Acting Courses (29 credits)

Earn at least 29 credits from the following:

- THEA1000 - Acting I: Introduction to Acting (BCA) - 3cr.
- THEA1010 - Acting II: Audition Preparation - 2cr.
- THEA2000 - Acting III: Scene Study-Text as Action - 3cr.
- THEA2010 - Acting IV: Shakespeare - 3cr.
- THEA3000 - Acting V: Acting for Musical Theatre - 3cr.
- THEA3010 - Acting VI: Classical Comedy - 3cr.
- THEA3030 - Acting VII: Contemporary Playwrights - 3cr.
- THEA4000 - Acting VIII: Acting for the Camera - 3cr.
- THEA4010 - Acting IX - Modern Masters: Chekhov/Ibsen/Shaw - 3cr.
- THEA4020 - Acting X-Modern American Masters: O'Neill, Williams, and Miller - 3cr.

Required Voice Courses (9 credits)

Earn at least 9 credits from the following:

- THEA1113 - Voice for Actors I - 2cr.
- THEA2100 - Voice for ActorsII: Speech and IPA - 3cr.
- THEA2110 - Voice for Actors III: Dialects - 2cr.
- THEA3100 - Voice for Actors IV: Vocal Challenges/Voice Over/Microphone Technique - 2cr.

Required Movement Courses (12 credits)

Earn at least 12 credits from the following:

- THEA1210 - Movement for Actors - 2cr.
- THEA2200 - Ballet - 2cr.
- THEA2210 - Jazz Dance I - 2cr.
- THEA3200 - Stage Combat - 2cr.
- THEA3210 - Musical Theatre Dance I - 2cr.
- THEA4200 - Period and Social Dance - 2cr.

Required Literature Courses (6 credits)

Fulfill ALL of the following requirements:

Required Literature Courses

Complete ANY of the following Courses:

- ENGL2300 - Introduction to Shakespeare (BHU) - 3cr.
  OR ENGL4300 - Shakespeare - 3cr.

AND

Additional Required Literature Courses

Complete at least 1 of the following courses:

- HIST3160 - Classical Drama and Society - 3cr.
- THEA4350 - Theatre for Young Audiences - 3cr.
- THEA4710 - Contemporary Theatre (CI/DHA) - 3cr.
- THEA4720 - Musical Theatre History and Literature: Roots through the Golden Age - 3cr.
- THEA4730 - Musical Theatre History and Literature II: New Directions - 3cr.
- THEA4760 - Playwriting - 3cr.
- THEA5720 - Special Topics in Theatre History and Literature - 3cr.

Capstone Project Requirements (2 credits)

All students must complete a capstone project during their senior year. BFA Acting students put together a showcase which they take to New York to present to representatives from invited talent agencies. Students must enroll in THEA5910 CAPSTONE PROJECT during the semester in which the Mountain West: BFA Actor Showcase is presented.

Complete ALL of the following Courses:

- THEA5910 - Capstone Project - 2cr.

Open Electives

Complete the following as needed:
Total elective credit is determined by General Education courses taken, degree type selected, additional credits earned, and any additional math or other prerequisite courses needed. Please consult your Academic Advisor for details.

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Bachelor's Degree)

Suggested Degree Maps

Degree Map Name
Suggested Degree Map - Theatre Arts: Acting - BFA

Total Degree Map Credits
118 - 121
Degree Map Effective Catalog Year
2027 -

Degree Map Narrative

- Following is a sample four-year plan. Please note that student-specific plans may differ.
- Meet with an academic advisor to create a specific plan that best fits your academic needs.
- The student is ultimately responsible for knowing and completing all degree requirements.
- Make sure you meet the registration requirements for each class by clicking the course link and checking any prerequisites or co-requisites.
- Consultation with an advisor may result in an altered plan customized for an individual student.
- Check your Degree Works for requirements and completion.

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	15 - 16	0

Requirement Select

- THEA1000 - Acting I: Introduction to Acting (BCA)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- THEA1513 - Stagecraft (BCA)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- THEA1713 - Playscript Analysis (BHU)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Communications Literacy (CL1) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Breadth Life Sciences (BLS) Course

OR
- Breadth Physical Sciences (BPS) Course

OR
- Breadth Social Sciences (BSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	15 - 17	0

Requirement Select
- THEA1010 - Acting II: Audition Preparation

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select
- THEA1113 - Voice for Actors I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select
- THEA1210 - Movement for Actors

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select
- THEA2203 - Costume Construction and Technology

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Communications Literacy (CL2) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Quantitative Literacy (QL) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 5
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	15	0

Requirement Select

- THEA2000 - Acting III: Scene Study-Text as Action

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- THEA2100 - Voice for ActorsII: Speech and IPA

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- THEA2200 - Ballet

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select

- THEA2555 - Production Practicum

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- Breadth Life Sciences (BLS) Course

  OR
- Breadth Physical Sciences (BPS) Course

  OR
- Breadth Social Sciences (BSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Breadth American Institutions (BAI) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	15	0

Requirement Select

- THEA2010 - Acting IV: Shakespeare

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- THEA2110 - Voice for Actors III: Dialects

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select
- THEA2210 - Jazz Dance I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select
- THEA2555 - Production Practicum

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- ENGL2300 - Introduction to Shakespeare (BHU)

  OR
- ENGL4300 - Shakespeare

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Breadth Life Sciences (BLS) Course

  OR
- Breadth Physical Sciences (BPS) Course

  OR
- Breadth Social Sciences (BSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- General Elective PE course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Fall	16	0

Requirement Select
- THEA2555 - Production Practicum

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- THEA3000 - Acting V: Acting for Musical Theatre

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- THEA3100 - Voice for Actors IV: Vocal Challenges/Voice Over/Microphone Technique

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select

- THEA3200 - Stage Combat

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select

- THEA3210 - Musical Theatre Dance I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select

- THEA3710 - Theatre History and Literature I (DHA)(CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Quantitative Intensive (QI) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Spring	16	0

Requirement Select

- THEA2555 - Production Practicum

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- THEA3010 - Acting VI: Classical Comedy

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- THEA3030 - Acting VII: Contemporary Playwrights

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- THEA3720 - Theatre History and Literature II (CI/DHA)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Depth Life and Physical Sciences (DSC) Course
  OR
- Depth Social Sciences (DSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- General Electives (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Fall	13	0

Requirement Select

- THEA2555 - Production Practicum

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- THEA4000 - Acting VIII: Acting for the Camera

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- THEA4010 - Acting IX - Modern Masters: Chekhov/Ibsen/ Shaw

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Depth Life and Physical Sciences (DSC) Course
  OR
- Depth Social Sciences (DSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- General Electives (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Spring	13	0

Requirement Select

- THEA4020 - Acting X-Modern American Masters: O'Neill, Williams, and Miller

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- THEA4200 - Period and Social Dance

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select

- THEA5910 - Capstone Project

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select

- Literature course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- General Electives (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- General Electives are used to meet the university requirement of 120 total credits. These may be any courses, including additional theatre courses. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Program Learning Outcomes

Program Learning Outcomes

https://www.usu.edu/oda/assessment/

Theatre Arts - BA

Program Overview

College
College of Arts & Sciences

Department
Theatre Arts

Program Level
Undergraduate

About this Degree

Students pursuing the BA receive a degree in general theatre arts. This is a four-year program designed for students who want a more comprehensive liberal arts background in theatre. This emphasis prepares students for graduate study and is also appropriate for those entering the field of stage directing. This program provides students with the flexibility to pursue an additional major. The BA degree requires foreign language training and the completion of additional related study courses.

Students must apply for the Bachelor of Arts degree program as part of their separate application to the department and have an interview with the BA faculty. Acceptance is competitive and not guaranteed.

- For more information about Theatre, see the department website.
- Admitted and current students must meet with an advisor.
- Log on to Degree Works to check student-specific program progress.
- The highest math requirement for this degree is the Quantitative Literacy (QL) of the student's choice.

Admission Requirements for this Program

- Students are considered for admission to the department and BA degree program through application referral from USU Admissions and submission of supporting materials to the department https://artsci.usu.edu/theatre-arts/areas-of-study/theatre-arts-ba.
- Acceptance is not guaranteed.
- Transfer students must verify transfer credit acceptance prior to application to USU.
- Major Expectations: Students are expected to develop proper attitudes, habits, work standards and professionalism to move on to graduate studies or directly into the professional world of theatre. Students are expected to assist with all department productions and be available to accept any production assignment.
- Minimum Overall GPA for Admission: 2.75

Program Requirements

Total Credits Required In Program Coursework
42-44

Total Credits Required To Earn This Credential
120

Simple Requisites

Program Requirements

- Minimum GPA for Admission: 2.75 overall
- Minimum GPA for continuance in the program and for graduation: 2.75
- Minimum grade accepted in all major courses: B-
- Major requirements may not be taken on a pass/fail basis unless only offered as pass/fail

Departmental Requirements:

- Students are required to attend all production strikes.

Language Requirements:

In addition to completion of the requirements for a bachelor's degree, a Bachelor of Arts (BA) degree signifies proficiency in one or more foreign languages. Please see Minimum University Requirements (Bachelor's Degree) for details for required language credit.

Theatre Arts - BA

Type
Completion Requirement

Required Theatre Arts Core Courses (21 credits)

Required Theatre Arts courses for all emphases and concentrations in the Department of Theatre Arts except those with an Acting emphasis. Acting students have a slight modification in their required core.

Earn at least 21 credits from the following:

- THEA1033 - Beginning Acting (BCA) - 3cr.
- THEA1513 - Stagecraft (BCA) - 3cr.
- THEA1713 - Playscript Analysis (BHU) - 3cr.
- THEA2203 - Costume Construction and Technology - 3cr.
- THEA2610 - Directing I - 3cr.
- THEA3710 - Theatre History and Literature I (DHA)(CI) - 3cr.
- THEA3720 - Theatre History and Literature II (CI/DHA) - 3cr.

Theatre Practicum Requirement (6 credits)

Earn at least 6 credits from the following:

- THEA2555 - Production Practicum - 1cr.

NOTE:

1. THEA2555 PRODUCTION PRACTICUM - Take a total of 6 credits of production practicum.

Note: Students should complete THEA1513 STAGECRAFT (BCA) and THEA2203 COSTUME CONSTRUCTION/TECH before taking THEA2555 PRODUCTION PRACTICUM.

- Register for Practicum in the following areas:
  - Costume
  - Paint & Props
  - Scenic
  - Run Crew

*Lighting/Sound Practicum is available by special permission

Literature/History Electives (9 credits)

Fulfill ALL of the following requirements:

Required Course Option

Complete at least 1 of the following courses:

- ENGL2300 - Introduction to Shakespeare (BHU) - 3cr. **OR** ENGL4300 - Shakespeare - 3cr.

AND

Additional Course Options

Complete at least 2 of the following courses:

- ANTH2210 - Introduction to Folklore (BHU) - 3cr.
- ARTH3210 - Classical Mythology - 3cr.
- ENGL2230 - Introduction to Film (BHU) - 3cr.
- ENGL2720 - Survey of American Folklore - 3cr.

- ENGL3420 - Fiction Writing - 3cr.
- ENGL3700 - Regional Folklore (DHA) - 3cr.
- ENGL4360 - Studies in Drama - 3cr.
- ENGL4370 - Native American Literature - 3cr.
- ENGL4375 - U.S. Latinx Literature - 3cr.
- ENGL4380 - African American Literature - 3cr.
- HIST3160 - Classical Drama and Society - 3cr.
- THEA4350 - Theatre for Young Audiences - 3cr.
- THEA4710 - Contemporary Theatre (CI/DHA) - 3cr.
- THEA4720 - Musical Theatre History and Literature: Roots through the Golden Age - 3cr.
- THEA4730 - Musical Theatre History and Literature II: New Directions - 3cr.
- THEA4760 - Playwriting - 3cr.
- THEA5720 - Special Topics in Theatre History and Literature - 3cr.

Theatre Design/Technology Electives (3 credits)

Earn at least 3 credits from the following:

- THEA1223 - Stage Makeup - 2cr. (Inactive)
- THEA2510 - Scene Painting - 3cr.
- THEA2520 - Costume Design I - 3cr.
- THEA2540 - Lighting Design I - 3cr.
- THEA2570 - Theatre Props & Crafts - 3cr.
- THEA2560 - Scene Design I - 3cr.
- THEA3550 - Advanced Stage Management - 3cr.
- THEA3560 - Period Styles/Historic Interiors (DHA) - 3cr.
- THEA3570 - Historic Clothing (DHA) - 3cr.

Theatre Electives (4-6 credits)

Two courses minimum.

Any additional theatre electives from the lists above, with the THEA prefix, may be applied here.

Complete ANY of the following Courses:

- THEA2033 - Scene Study - 3cr. (Inactive)
- THEA5610 - Directing II - 3cr.

Open Electives

Complete the following as needed:
Total elective credit is determined by General Education courses taken, degree type selected, additional credits earned, and any additional math or other prerequisite courses needed. Please consult your Academic Advisor for details.

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Bachelor's Degree)

Suggested Degree Maps

Degree Map Name
Suggested Degree Map - Theatre Arts - BA
Total Degree Map Credits
110 - 114
Degree Map Effective Catalog Year
2027 -

Degree Map Narrative

- Following is a sample four-year plan. Please note that student-specific plans may differ.
- Meet with an academic advisor to create a specific plan that best fits your academic needs.
- The student is ultimately responsible for knowing and completing all degree requirements.
- Make sure you meet the registration requirements for each class by clicking the course link and checking any prerequisites or corequisites.
- Consultation with an advisor may result in an altered plan customized for an individual student.
- Check your Degree Works for requirements and completion.

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	15 - 17	0

Requirement Select

- THEA1033 - Beginning Acting (BCA)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- THEA2203 - Costume Construction and Technology

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- THEA1713 - Playscript Analysis (BHU)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Communications Literacy (CL1) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Quantitative Literacy (QL) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	15 - 16	0

Requirement Select

- THEA1513 - Stagecraft (BCA)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Breadth American Institutions (BAI) Course

OR

- Breadth Life Sciences (BLS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Communications Literacy (CL2) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Breadth American Institutions (BAI) Course

OR

- Breadth Physical Sciences (BPS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Quantitative Intensive (QI) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	15	0

Requirement Select

- THEA2555 - Production Practicum

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- THEA2610 - Directing I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Theatre Elective (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Language 1010 course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- General Elective (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Breadth Social Sciences (BSS) Course

OR
- Breadth Life Sciences (BLS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	14 - 15	0

Requirement Select
- THEA2555 - Production Practicum

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- Theatre Design/Technology Elective (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Language 1010 course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- ENGL2300 - Introduction to Shakespeare (BHU)
  OR
- ENGL4300 - Shakespeare

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Breadth Life Sciences (BLS) Course
  OR
- Breadth Social Sciences (BSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Fall	16	0

Requirement Select

- THEA2555 - Production Practicum

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- THEA3710 - Theatre History and Literature I (DHA)(CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Theatre Elective (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Language 2010 course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- General Elective (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Depth Life and Physical Sciences (DSC) Course
  OR
- Depth Social Sciences (DSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Spring	14	0

Requirement Select

- THEA2555 - Production Practicum

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- THEA3720 - Theatre History and Literature II (CI/DHA)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- General Electives (upper-division) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Language 2020 course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Depth Life and Physical Sciences (DSC) Course

OR

- Depth Social Sciences (DSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Fall	7	0

Requirement Select

- THEA2555 - Production Practicum

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- Literature/History Elective (upper-division) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- General Elective (upper-division) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Spring	14	0

Requirement Select

- THEA2555 - Production Practicum

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- Literature/History Elective (upper-division) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- General Elective (upper-division) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	7
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- General Elective (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- NOTE: General Electives are used to meet the university requirement of 120 total credits. These may be any courses, including additional theatre courses. (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Program Learning Outcomes

Program Learning Outcomes

https://www.usu.edu/oda/assessment/

Theatre Arts - MFA

Program Overview

College
College of Arts & Sciences

Department
Theatre Arts

Program Level
Graduate

About this Degree

The Theatre Arts Master of Fine Arts (MFA) degree is a theatre design program. This is a hands-on degree with production shop work as well as course and show production work. This program is only offered on the USU Logan campus and is designed for the student to be in residency on campus.

The primary design area specializations offered are: Scenic Design, Lighting Design and Costume Design. The degree includes a secondary design specialization, chosen by the student in conjunction with their committee and program advisor. Secondary options include an additional primary design area, or course and production work in the areas of costume construction/management, projection design, properties design, or technical direction.

Committee members work with students to craft a program that is uniquely tailored to each individual's career goals. Students learn how to work in a collaborative environment with directors, designers and performers. All students in the Theatre Arts MFA program complete the Plan B option instead of a Thesis.

Admission Requirements for this Program

Admission requirements can be found on the USU School of Graduate Studies website (gradschool.usu.edu/admissions/policies). Applicants who have received their undergraduate training in a discipline other than theatre will be expected to meet a proficiency equivalent to that of USU Theatre Arts graduates. This may require the student to complete undergraduate level courses as deemed appropriate by the students committee, with a minimum accepted grade of B-. These courses do not count towards the graduate degree and are not covered by assistantship money.

Additional information about the Master of Fine Arts (MFA) in Theatre Arts program may be obtained by contacting the Theatre Arts Department or by visiting the program website (https://artsci.usu.edu/theatre-arts)

Program Requirements

Total Credits Required In Program Coursework
60

Total Credits Required To Earn This Credential
60

Simple Requisites

Program Requirements

Department of Theatre Arts

Total Required Graduate Credits: 60

Committee Requirements

Total Required Graduate Credits: 60

Degree Verification

A bachelor's degree from an accredited U.S. college or university or a similarly recognized international university is required for admission to and completion of a graduate program. An official transcript must be sent directly to the School of Graduate Studies.

Overall Graduate GPA at least 3.0 and no grades of B- or lower;

Graduate students are required to maintain at least a 3.0 GPA for degree-program courses. Grades of B- or lower will not be accepted for a graduate degree.

Matriculation Start Semester

A master's of fine arts degree must be completed within six years of entering the degree program. Additional time may be requested by the student's committee and submitted to the Vice Provost of Graduate Studies for review.

Coursework Validity

The program of study for a master's degree cannot include more than 12 semester credits of courses below the 6000 level, or courses numbered below 5000. Coursework over eight years old at the time of degree completion may not be used for a graduate degree unless it is re-validated.

Credits in the following areas are not acceptable in a degree program: foreign languages (unless included in an approved Program of Study), continuing graduate advisement, individual home study, military science, and courses numbered below 5000.

USU Residency Requirement

Master's of Fine Arts

At least 30 semester credits for a Master's of Fine Arts degree must be taken from Utah State University and be part of an approved Program of Study. At least three semesters, two of which must be consecutive, of full-time registration in residence at Utah State University, is required.

Committee Requirements

During (or upon the completion of) the first semester of this degree, the student will:

- Select an MFA Supervisory Committee of at least three members (one from outside of the Theatre Design area) and submit the list of members to the Department Head for approval.
- Submit the Department Head approved Committee to the Theatre Graduate Program Coordinator.
- Schedule a Supervisory Committee meeting.
- Develop a 3-year Program of Study with the approval of the Supervisory Committee.
- Plan B Approval

Plan B students:

The Plan B option requires the production and defense of a paper or project, depending on the department and program. A minimum of two credits of thesis research (6970) are required, but no more than three thesis research credits can be included in an approved Program of Study. Some degree programs require creative project credits in addition to or in place of research.

Prior to graduation, the student will:

- Complete all courses and requirements as determined by the Supervisory Committee.
- Earn successful MFA Continuance Evaluation ratings.
- Successfully complete an MFA Plan-B Defense process with the Supervisory Committee.
- Successfully complete Appointment for Examination.
- Submit successful Record of Examination.
- Successful SGS and Library review and approval.

Thesis/Dissertation Research Credits THEA 6970

Required Courses (29 credits)

Type
Completion Requirement

Introductory Course (1 credit) - Taken during the first Fall semester

Complete ALL of the following Courses:

- THEA6010 - Introduction to Graduate Study in Theatre - 1cr.

Advanced Literature Courses (4 credits)

Complete ALL of the following Courses:

- THEA6710 - Contemporary Theatre Studies - 2cr.
- THEA6720 - Specialized Theatre History and Literature Topics - 2cr.

Advanced Design Courses (in areas of specialization)

Earn at least 24 credits from the following:

- THEA6500 - Drafting for Theatre - 2cr.
- THEA6520 - Advanced Costume Design for Theatre - 2cr.
- THEA6530 - Specialized Theatre Props and Crafts - 2cr.
- THEA6540 - Advanced Lighting for Theatre Design - 2cr.
- THEA6550 - Rendering in Theatre Design - 2cr.
- THEA6555 - Scene Painting - 2cr.
- THEA6560 - Advanced Scene Design for Theatre - 2cr.
- THEA6565 - Historic Styles: Interiors & Architecture - 2cr.
- THEA6570 - Historic Clothing - 2cr.
- THEA6580 - Computer Design in Theatre - 2cr.
- THEA6900 - Research Studies - 1cr.
- THEA6910 - Graduate Studies in Theatre - 1cr.
- THEA6960 - Special Topics in Theatre Production - 2cr.

Design Studies (8 credits)

Type
Completion Requirement

Design Course

Complete 2 credits each semester.

Earn at least 8 credits from the following:

- THEA6590 - Design Studies for Theatre - 2cr.

Cognate Coursework (6 credits)

Type
Completion Requirement

Cognate Courses

Earn at least 6 credits
Students will take a minimum of 6 credits of courses outside the department (5000-level or above) to develop skills or increase knowledge in a field related to their area of specialization. Courses are subject to approval by the Graduate Study Committee. Courses can be in art, engineering and technology education, furniture construction or cabinetry, welding, or landscape architecture. Students may petition their committee to take coursework in other disciplines, upon justification of relevance to the course of study.

Graduate Projects (8 credits)

Type
Completion Requirement

Graduate Project

Students will complete a minimum of 4 separate production projects.

Earn at least 8 credits from the following:

- THEA6920 - Graduate Projects in Theatre - 2cr.

The option to cancel a student project, or to allow work to proceed but disqualify it as an MFA project based upon insufficient preparation or validity, rests with the department's Graduate Study Committee, the student's Supervisory Committee chairperson (advisor), and the Department Head/Artistic Director of the Theatre Arts Department. This rule is designed to protect the priorities of the department and the integrity of its productions.

Theatre Internship (6 credits)

Type
Completion Requirement

Internships

Two separate internships, related to the student's Program of Study, to be taken during summers at recognized professional theatre companies, are required. All internship must be approved by the Supervisory Committee prior to accepting the internship.

A letter of satisfactory performance from the appropriate company supervisor and other required documentation should be submitted to the student's program area advisor at the end of the internship.

Theatre Internship

Earn at least 6 credits from the following:

- THEA6980 - Theatre Internship - 2cr.

2 separate internships related to the student's Program of Study are required.

Culminating Courses (3 credits)

Type
Completion Requirement

Thesis (3 credits)

To be taken during the student's final semester.

Earn at least 3 credits from the following:

- THEA6970 - Thesis - 1cr.

Program Learning Outcomes

Program Learning Outcomes

https://www.usu.edu/oda/assessment/

Theatre Arts: Musical Theatre - BFA

Program Overview

College
College of Arts & Sciences

Department
Theatre Arts

Program Level
Undergraduate

About this Degree

The Musical Theatre program is designed to provide a comprehensive education that combines rigorous professional training in acting, voice, and dance with a strong liberal arts foundation. This program aims to cultivate innovative and adaptable artists who can excel in a dynamic and evolving global landscape.

The Bachelor of Fine Arts in Musical Theatre at Utah State University offers a comprehensive and rigorous training experience, nurturing the artistic and technical skills essential for success in the field. The curriculum emphasizes a collaborative approach, integrating voice, acting, and dance with coursework in music theory, performance practice, and production. Students participate in private voice instruction every semester to ensure continuous vocal development and engage in at least one intensive dance course each semester to excel in movement. The training culminates in a capstone project.

- For more information about Theatre Arts, see the department website.
- Admitted and current students must meet with a musical theatre area advisor before registering for courses, as well as meet with the Caine School of the Arts advisor.

Admission Requirements for this Program

- Students are considered for admission to the department and BFA degree program through application referral from USU Admissions and submission of supporting materials to the department https://artsci.usu.edu/theatre-arts/students-and-alumni/prospective-students/apply.
- Acceptance is not guaranteed.
- Transfer students must verify transfer credit acceptance prior to application to USU.
- **Major Expectations:** Students are expected to develop proper attitudes, habits, work standards and professionalism to move on to graduate studies or directly into the professional world of Musical Theatre. Students are expected to audition for all department productions and be available to accept any role.
- **Minimum Overall GPA for Admission:** 2.75

Program Requirements

Total Credits Required In Program Coursework
83

Total Credits Required To Earn This Credential
120

Simple Requisites

Program Requirements

- Minimum GPA for continuance in the program and for graduation: 2.75
- Minimum grade accepted in all major courses: B-
- Major requirements may not be taken on a pass/fail basis unless only offered as pass/fail

Department Requirements: Students are required to attend all production strikes.

Required Theatre Core Courses

Type
Completion Requirement

Core Courses

Complete ALL of the following Courses:

- THEA1513 - Stagecraft (BCA) - 3cr.
- THEA1713 - Playscript Analysis (BHU) - 3cr.
- THEA2203 - Costume Construction and Technology - 3cr.

Required Acting Courses

Type
Completion Requirement

Acting Courses

Complete ALL of the following Courses:

- THEA1000 - Acting I: Introduction to Acting (BCA) - 3cr.
- THEA1010 - Acting II: Audition Preparation - 2cr.
- THEA2000 - Acting III: Scene Study-Text as Action - 3cr.
- THEA2010 - Acting IV: Shakespeare - 3cr.
- THEA3000 - Acting V: Acting for Musical Theatre - 3cr.

Required Theatre Voice Courses

Type
Completion Requirement

Voice Courses

Complete ALL of the following Courses:

- THEA1113 - Voice for Actors I - 2cr.
- THEA2100 - Voice for ActorsII: Speech and IPA - 3cr.
- THEA2110 - Voice for Actors III: Dialects - 2cr.

Required Musical Theatre Courses

Type
Completion Requirement

Musical Theatre Courses

Complete ALL of the following Courses:

- THEA3440 - Musical Theatre Workshop I - 3cr.
- THEA4440 - Musical Theatre Workshop II - 3cr.
- THEA4450 - Musical Theatre Workshop III - 3cr.
- THEA5910 - Capstone Project - 2cr.

Required Theatre Movement/Dance Courses

Type
Completion Requirement

Theatre Movement/Dance Courses

Complete ALL of the following Courses:

- THEA1210 - Movement for Actors - 2cr.
- THEA2200 - Ballet - 2cr.
- THEA2220 - Ballet II - 2cr.
- THEA2210 - Jazz Dance I - 2cr.
- THEA3210 - Musical Theatre Dance I - 2cr.
- THEA3220 - Jazz Dance II - 2cr.
- THEA3240 - Musical Theatre Dance II - 2cr.

- THEA4210 - Musical Theatre Dance III - 2cr.

Required Theatre History/Literature courses

Type
Completion Requirement

Theatre History/Literature courses

Complete ALL of the following Courses:

- THEA4720 - Musical Theatre History and Literature: Roots through the Golden Age - 3cr.
- THEA4730 - Musical Theatre History and Literature II: New Directions - 3cr.

Required Production Practicum

Type
Completion Requirement

Production Practicum courses

Students should complete THEA1513 STAGECRAFT (BCA) and THEA2203 COSTUME CONSTRUCTION/TECH before the enroll in area specific practicum. Run Crew practicum may be taken any time.

Earn at least 4 credits from the following:

- THEA2555 - Production Practicum - 1cr.

Complete one practicum in each area:

- Costume (1 credit)
- Paint/Props (1 credit)
- Scenic (1 credit)
- Run Crew (1 credit)

Required Music Courses

Type
Completion Requirement

Music Courses

Students will test into piano course and be placed in either MUSC1150 GROUP PIANO, MUSC1170 KEYBOARD HARMONY I or MUSC1480 PIANO INSTR-NONMAJOR.

Complete ALL of the following Courses:

- MUSC1105 - Fundamentals for Music Majors (BCA) - 3cr.
- MUSC1110 - Music Theory I (BCA) - 3cr.
- MUSC1130 - Aural Skills I - 1cr.
- MUSC1150 - Group Piano - 1cr.
- MUSC1635 - Individual Pre-Music Voice Instruction - 1cr.
- MUSC2645 - Individual Pre-Barrier Voice Instruction - 1cr.
- MUSC3670 - Individual Vocal Instruction for Music Majors - 1cr.

NOTE:

1. MUSC1635 VOICE INSTR-PREMUSIC - 2 credits
2. MUSC3670 VOCAL INSTR - 5 credits

Open Electives

Type
Completion Requirement

Elective Courses

Complete the following as needed:
Total elective credit is determined by General Education courses taken, degree type selected, additional credits earned, and any additional math or other prerequisite courses needed. Please consult your Academic Advisor for details.

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Bachelor's Degree)

Suggested Degree Maps

Degree Map Name
Suggested Degree Map - Theatre Arts: Musical Theatre - BFA
Total Degree Map Credits
112 - 139
Degree Map Effective Catalog Year
2027 -

Degree Map Narrative

- Following is a sample four-year plan. Please note that student-specific plans may differ.
- Meet with an academic advisor to create a specific plan that best fits your academic needs.
- The student is ultimately responsible for knowing and completing all degree requirements.
- Make sure you meet the registration requirements for each class by clicking the course link and checking any prerequisites or co-requisites.
- Consultation with an advisor may result in an altered plan customized for an individual student.
- Check your Degree Works for requirements and completion.

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	16 - 19	0

Requirement Select

- THEA1000 - Acting I: Introduction to Acting (BCA)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- THEA1713 - Playscript Analysis (BHU)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- THEA2200 - Ballet

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select

- MUSC1105 - Fundamentals for Music Majors (BCA)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- MUSC1150 - Group Piano
  OR
- MUSC1170 - Keyboard Harmony I
  OR
- MUSC1480 - Individual Piano Instruction for Nonmusic Majors

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1 - 2
Progress Credits	-
Contact Hours	1 - 2
Clinical	-
Criticality	No

Requirement Select

- MUSC1635 - Individual Pre-Music Voice Instruction

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1 - 2
Progress Credits	-
Contact Hours	1 - 2
Clinical	-
Criticality	No

Requirement Select

- Communications Literacy (CL1) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	15 - 17	0

Requirement Select

- THEA1010 - Acting II: Audition Preparation

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select

- THEA2220 - Ballet II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select
- MUSC1110 - Music Theory I (BCA)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- MUSC1130 - Aural Skills I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- MUSC1635 - Individual Pre-Music Voice Instruction

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1 - 2
Progress Credits	-
Contact Hours	1 - 2
Clinical	-
Criticality	No

Requirement Select
- Communications Literacy (CL2) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Quantitative Literacy (QL) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	15 - 17	0

Requirement Select
- THEA2000 - Acting III: Scene Study-Text as Action

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- THEA2203 - Costume Construction and Technology

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- THEA3210 - Musical Theatre Dance I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select

- MUSC2645 - Individual Pre-Barrier Voice Instruction

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1 - 2
Progress Credits	-
Contact Hours	1 - 2
Clinical	-
Criticality	No

Requirement Select

- Breadth American Institutions (BAI) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Breadth Life Sciences (BLS) Course

  OR
- Breadth Physical Sciences (BPS) Course

  OR
- Breadth Social Sciences (BSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	13 - 18	0

Requirement Select

- THEA1113 - Voice for Actors I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select

- THEA1210 - Movement for Actors

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select

- THEA1513 - Stagecraft (BCA)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- THEA2010 - Acting IV: Shakespeare

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- THEA2210 - Jazz Dance I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select
- MUSC3670 - Individual Vocal Instruction for Music Majors

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1 - 2
Progress Credits	-
Contact Hours	1 - 2
Clinical	-
Criticality	No

Requirement Select
- Breadth Life Sciences (BLS) Course
  OR
- Breadth Social Sciences (BSS) Course
  OR
- Breadth Physical Sciences (BPS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	0 - 4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Fall	15 - 22	0

Requirement Select
- THEA2100 - Voice for ActorsII: Speech and IPA

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- THEA2555 - Production Practicum

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- THEA3000 - Acting V: Acting for Musical Theatre

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- THEA3220 - Jazz Dance II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select
- MUSC3670 - Individual Vocal Instruction for Music Majors

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1 - 2
Progress Credits	-
Contact Hours	1 - 2
Clinical	-
Criticality	No

Requirement Select
- Breadth Social Sciences (BSS) Course
  OR
- Breadth Physical Sciences (BPS) Course
  OR
- Breadth Life Sciences (BLS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Quantitative Intensive (QI) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2 - 7
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Spring	11 - 17	0

Requirement Select
- THEA2110 - Voice for Actors III: Dialects

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select
- THEA2555 - Production Practicum

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- THEA3240 - Musical Theatre Dance II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select
- THEA3440 - Musical Theatre Workshop I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- MUSC3670 - Individual Vocal Instruction for Music Majors

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1 - 2
Progress Credits	-
Contact Hours	1 - 2
Clinical	-
Criticality	No

Requirement Select
- Depth Life and Physical Sciences (DSC) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2 - 3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Depth Social Sciences (DSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	0 - 4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Fall	14 - 15	0

Requirement Select
- THEA2555 - Production Practicum

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- THEA4210 - Musical Theatre Dance III

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select
- THEA4440 - Musical Theatre Workshop II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- THEA4720 - Musical Theatre History and Literature: Roots through the Golden Age

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- MUSC3670 - Individual Vocal Instruction for Music Majors

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1 - 2
Progress Credits	-
Contact Hours	1 - 2
Clinical	-
Criticality	No

Requirement Select
- General Electives (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	General Electives
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Spring	13 - 14	0

Requirement Select
- THEA2555 - Production Practicum

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- THEA4450 - Musical Theatre Workshop III

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- THEA4730 - Musical Theatre History and Literature II: New Directions

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- THEA5910 - Capstone Project

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select

- MUSC3670 - Individual Vocal Instruction for Music Majors

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1 - 2
Progress Credits	-
Contact Hours	1 - 2
Clinical	-
Criticality	No

Requirement Select

- General Electives (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	General Electives - Upper Division Music History course suggested
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Program Learning Outcomes

Program Learning Outcomes

https://www.usu.edu/oda/assessment/

Theatre Arts: Theatre Education - BFA

Program Overview

College
College of Arts & Sciences

Department
Theatre Arts

Program Level
Undergraduate

About this Degree

Students in the theatre education program study all aspects of theatre as they prepare to teach theatre in schools at all levels or to work in educational roles with professional theatres. Coursework covers theatre/drama pedagogy (K-12), theatre for young audiences, applied theatre, performance, directing, technical theatre, and theatre history/literature.

- If beginning the program in an even year, please review the degree map, "even year". If beginning the program in an odd year, please review the degree map, "odd year".
- For more information about Theatre Arts, see the department website.
- Admitted and current students must meet with an advisor prior to registration.
- Log on to Degree Works to check student-specific program progress.
- The highest math requirement for this degree is the Quantitative Literacy (QL) of the student's choice, although STAT1040 INTRO TO STATISTICS (QL) or STAT1045 INTRO STAT WITH ALGEBRA (QL) or STAT1080 FOUNDATIONS OF DATA SCI (QL) is recommended.

Admission Requirements for this Program

- Students are considered for admission to the department and BFA degree program through application referral from USU Admissions and submission of supporting materials to the department https://artsci.usu.edu/theatre-arts/areas-of-study/theatre-education-bfa.
- Acceptance is not guaranteed.
- Transfer students must verify transfer credit acceptance prior to application to USU.
- Major Expectations: Students are expected to develop proper attitudes, habits, work standards and professionalism to move on to graduate studies or directly into the professional world of theatre. Students are expected to assist with all department productions and be available to accept any production assignment.
- Minimum Overall GPA for Admission: 2.75

Program Requirements

Total Credits Required In Program Coursework
79

Total Credits Required To Earn This Credential
120

Simple Requisites

Program Requirements

Program Requirements

- Minimum GPA for Admission: 3.0 overall
- Minimum GPA for continuance in the program and for graduation: 3.0
- Minimum grade accepted in all major courses: B
- Minimum grade accepted for any Department elective courses: B-
- Major requirements may not be taken on a pass/fail basis unless only offered as pass/fail

Departmental Requirements

- Students are required to attend all production strikes.

Licensure Requirement:

- Students must maintain a GPA of 3.0, including licensure courses, to continuance in the program and graduation.
- Minimum grade accepted in licensure courses: C

Theatre Arts: Theatre Education - BFA

Type
Completion Requirement

Required Theatre Core (21 credits)

Earn at least 21 credits from the following:

- THEA1033 - Beginning Acting (BCA) - 3cr.
- THEA1513 - Stagecraft (BCA) - 3cr.
- THEA1713 - Playscript Analysis (BHU) - 3cr.
- THEA2203 - Costume Construction and Technology - 3cr.
- THEA3610 - Directing I - 3cr.
- THEA3710 - Theatre History and Literature I (DHA)(CI) - 3cr.
- THEA3720 - Theatre History and Literature II (CI/DHA) - 3cr.

Theatre Practicum Requirement (4 credits)

Take a total of 4 credits of production practicum.

Complete ALL of the following Courses:

- THEA2555 - Production Practicum - 1cr.

NOTE:

Students may take Run Crew before completing THEA1513 STAGECRAFT (BCA) and THEA2203 COSTUME CONSTRUCTION/TECH.

- Costume
- Paint & Props
- Scenic
- Run Crew

*Dramaturgy, Lighting, or Sound Practicum is available by special permission

Theatre Education Courses (22 credits)

Earn at least 22 credits from the following:

- THEA1310 - Theatre Education Seminar - 1cr.
- THEA2370 - Applied Theatre - 3cr.
- THEA3340 - Methods of Teaching Drama, Grades K-6 - 3cr.
- THEA3390 - Drama in the Community - 3cr.
- THEA4340 - Methods of Teaching Theatre, Grades 7-12 - 3cr.
- THEA4350 - Theatre for Young Audiences - 3cr.

NOTE:

1. THEA1310 THEATRE EDUCATION SEMINAR - 7 total credits required. - 1 credit each semester enrolled in the program.
2. THEA3340 DRAMA TEACHING METHODS K-6 and THEA4340 THEATRE TEACHING METHODS, 7-12 are also included with the required STEP courses and are part of the licensure requirements.

Required Theatre Production Courses (6 credits)

Fulfill ALL of the following requirements:

Required Course

Complete ALL of the following Courses:

- THEA2403 - Stage Management - 3cr.

AND

Additional Required Course Options

Earn at least 3 credits from the following:

- THEA2510 - Scene Painting - 3cr.
- THEA2530 - Theatre and Studio Sound - 3cr.
- THEA2540 - Lighting Design I - 3cr.
- THEA2560 - Scene Design I - 3cr.
- THEA2570 - Theatre Props & Crafts - 3cr.
- THEA2575 - Production Projects - 1cr.
- THEA4555 - Production Assignments - 2cr.

Required Theatre Performance Course (2-3 credits)

Earn at least 2 credits from the following:

- THEA1010 - Acting II: Audition Preparation - 2cr.
- THEA1113 - Voice for Actors I - 2cr.
- THEA1210 - Movement for Actors - 2cr.
- THEA2000 - Acting III: Scene Study-Text as Action - 3cr.
- THEA3200 - Stage Combat - 2cr.
- THEA4200 - Period and Social Dance - 2cr.
- THEA4820 - Company Workshop - 3cr.

NOTE:

1. THEA1113 VOICE FOR ACTORS I or THEA1010 ACTING II: AUDITION PREP recommended.

Dramatic Literature Course (3 credits)

Earn at least 3 credits from the following:

- ENGL2300 - Introduction to Shakespeare (BHU) - 3cr.
- ENGL4300 - Shakespeare - 3cr.
- HIST3160 - Classical Drama and Society - 3cr.
- THEA4710 - Contemporary Theatre (CI/DHA) - 3cr.
- THEA4720 - Musical Theatre History and Literature: Roots through the Golden Age - 3cr.
- THEA4730 - Musical Theatre History and Literature II: New Directions - 3cr.
- THEA4760 - Playwriting - 3cr.
- THEA5720 - Special Topics in Theatre History and Literature - 3cr.

● Or others approved by Area Head

Secondary Teacher Education Courses (26 credits)

The Secondary Teacher Education Program (STEP) prepares and licenses students to teach in public secondary schools. The program consists of three successive semesters of education courses, culminating in supervised student teaching in both the major and minor subject areas.

Admissions Information: https://cehs.usu.edu/teal/undergraduate/sec-ed.

Complete ALL of the following Courses:

- ITLS2500 - Technology Enabled Instruction - 3cr.
- SCED3210 - Educational and Multicultural Foundations (DSS/CI) - 3cr.
- SCED5100 - Motivation and Classroom Management - 3cr.
- SCED5200 - Language, Literacy, and Learning in the Content Areas (CI) - 3cr.
- SCED5210 - Learning Theory, Curriculum, and Assessment - 3cr.
- SPED4000 - Education of Students with Disabilities - 3cr.
- THEA3300 - Clinical Experience in Teaching I - 1cr.
- THEA3340 - Methods of Teaching Drama, Grades K-6 - 3cr.
- THEA4300 - Clinical Experience in Teaching II - 1cr.
- THEA4340 - Methods of Teaching Theatre, Grades 7-12 - 3cr.

NOTE:

1. THEA3340 DRAMA TEACHING METHODS K-6 and THEA4340 THEATRE TEACHING METHODS, 7-12 are also included with the required Theatre Education Courses.

Theatre Certificate Student Teaching (12 credits)

Earn at least 12 credits from the following:

- THEA5390 - Student Teaching Seminar - 2cr.
- THEA5630 - Student Teaching in Secondary Schools - 10cr. **OR** THEA5631 - Student Teaching in Secondary Schools Out of State - 10cr.

Open Electives

Complete the following as needed:
Total elective credit is determined by General Education courses taken, degree type selected, additional credits earned, and any additional math or other prerequisite courses needed. Please consult your Academic Advisor for details.

Additional Comments:

Licensure Notification

This program typically leads to licensure and was designed to meet licensing qualifications in the state of Utah. If students wish to work in another state within the United States, they should review the qualifications for that state and the Education Licensure Compliance Table provided by School of Teacher Education and Leadership.

For more information, please contact the School of Teacher Education and Leadership at https://cehs.usu.edu/teal/

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Bachelor's Degree)

Suggested Degree Maps

Degree Map Name
Suggested Degree Maps - Even Year Start: Theatre Arts: Theatre Education Emphasis - BFA
Total Degree Map Credits
124 - 127
Degree Map Effective Catalog Year
2027 -

Degree Map Narrative

- Following is a sample four-year plan. Please note that student-specific plans may differ.

- Meet with an academic advisor to create a specific plan that best fits your academic needs.
- The student is ultimately responsible for knowing and completing all degree requirements.
- Make sure you meet the registration requirements for each class by clicking the course link and checking any prerequisites or corequisites.
- Consultation with an advisor may result in an altered plan customized for an individual student.
- Check your Degree Works for requirements and completion.

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	17 - 19	0

Requirement Select
- THEA1033 - Beginning Acting (BCA)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- THEA1310 - Theatre Education Seminar

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- THEA2203 - Costume Construction and Technology

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- THEA2555 - Production Practicum

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- THEA1713 - Playscript Analysis (BHU)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Communications Literacy (CL1) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Quantitative Literacy (QL) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	14 - 15	0

Requirement Select

- THEA1310 - Theatre Education Seminar

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- THEA1513 - Stagecraft (BCA)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Breadth American Institutions (BAI) Course

  OR
- Breadth Life Sciences (BLS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- THEA2555 - Production Practicum

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- Breadth American Institutions (BAI) Course

  OR
- Breadth Life Sciences (BLS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Communications Literacy (CL2) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	17	0

Requirement Select

- ITLS2500 - Technology Enabled Instruction

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- THEA1310 - Theatre Education Seminar

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- THEA2555 - Production Practicum

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- THEA2610 - Directing I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- THEA3340 - Methods of Teaching Drama, Grades K-6

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Quantitative Intensive (QI) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Breadth Physical Sciences (BPS) Course

OR

- Breadth Social Sciences (BSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	15	0

Requirement Select

- THEA1310 - Theatre Education Seminar

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- THEA2555 - Production Practicum

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- THEA2403 - Stage Management

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- THEA3300 - Clinical Experience in Teaching I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- THEA4350 - Theatre for Young Audiences

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- SCED3210 - Educational and Multicultural Foundations (DSS/CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Breadth Physical Sciences (BPS) Course

OR

- Breadth Social Sciences (BSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Fall	17	0

Requirement Select

- THEA1310 - Theatre Education Seminar

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- THEA2370 - Applied Theatre

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- THEA3710 - Theatre History and Literature I (DHA)(CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- THEA4300 - Clinical Experience in Teaching II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- THEA4340 - Methods of Teaching Theatre, Grades 7-12

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Production Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- General Electives (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Spring	19	0

Requirement Select

- THEA1310 - Theatre Education Seminar

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- THEA3720 - Theatre History and Literature II (CI/DHA)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- THEA3390 - Drama in the Community

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- SCED5200 - Language, Literacy, and Learning in the Content Areas (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- SPED4000 - Education of Students with Disabilities

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Depth Life and Physical Sciences (DSC) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- THEA1010 - Acting II: Audition Preparation

OR
- THEA1113 - Voice for Actors I

Course Requirement Group	
Course Requirement Group (Free Text)	THEA1010 or THEA1113 recommended.
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Fall	13	0

Requirement Select
- THEA1310 - Theatre Education Seminar

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- SCED5100 - Motivation and Classroom Management

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- SCED5210 - Learning Theory, Curriculum, and Assessment

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Literature/History Elective (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Depth Life and Physical Sciences (DSC) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Spring	12	0

Requirement Select
- THEA5390 - Student Teaching Seminar

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select

- THEA5630 - Student Teaching in Secondary Schools
  OR
- THEA5631 - Student Teaching in Secondary Schools Out of State

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	10
Progress Credits	-
Contact Hours	10
Clinical	-
Criticality	No

Total General Education Credits	Total Major Credits
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Degree Map Name
Suggested Degree Maps - Odd Year Start: Theatre Arts: Theatre Education Emphasis - BFA
Total Degree Map Credits
121 - 124
Degree Map Effective Catalog Year
2027 -

Degree Map Narrative

- Following is a sample four-year plan. Please note that student-specific plans may differ.
- Meet with an academic advisor to create a specific plan that best fits your academic needs.
- The student is ultimately responsible for knowing and completing all degree requirements.
- Make sure you meet the registration requirements for each class by clicking the course link and checking any prerequisites or corequisites.
- Consultation with an advisor may result in an altered plan customized for an individual student.
- Check your Degree Works for requirements and completion.

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	17 - 19	0

Requirement Select

- THEA1033 - Beginning Acting (BCA)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- THEA1310 - Theatre Education Seminar

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- THEA2203 - Costume Construction and Technology

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- THEA2555 - Production Practicum

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- THEA1713 - Playscript Analysis (BHU)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Communications Literacy (CL1) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Quantitative Literacy (QL) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	14 - 15	0

Requirement Select
- THEA1310 - Theatre Education Seminar

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- THEA1513 - Stagecraft (BCA)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Breadth American Institutions (BAI) Course

OR
- Breadth Life Sciences (BLS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- THEA2555 - Production Practicum

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- Breadth American Institutions (BAI) Course

OR
- Breadth Life Sciences (BLS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Communications Literacy (CL2) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	17	0

Requirement Select
- ITLS2500 - Technology Enabled Instruction

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- THEA1310 - Theatre Education Seminar

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- THEA2555 - Production Practicum

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- THEA2610 - Directing I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- THEA2370 - Applied Theatre

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Quantitative Intensive (QI) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Breadth Physical Sciences (BPS) Course

  OR
- Breadth Social Sciences (BSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	14	0

Requirement Select
- THEA1310 - Theatre Education Seminar

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- THEA2555 - Production Practicum

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- THEA2403 - Stage Management

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- THEA3390 - Drama in the Community

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Breadth Physical Sciences (BPS) Course

OR

- Breadth Social Sciences (BSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Performance Course (THEA 2033 recommended) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Fall	16	0

Requirement Select

- THEA1310 - Theatre Education Seminar

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- THEA3340 - Methods of Teaching Drama, Grades K-6

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- THEA3710 - Theatre History and Literature I (DHA)(CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- SCED3210 - Educational and Multicultural Foundations (DSS/CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Production Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- General Electives (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Spring	14	0

Requirement Select
- THEA1310 - Theatre Education Seminar

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- THEA3300 - Clinical Experience in Teaching I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- THEA3720 - Theatre History and Literature II (CI/DHA)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- THEA4350 - Theatre for Young Audiences

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- SCED5200 - Language, Literacy, and Learning in the Content Areas (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- SPED4000 - Education of Students with Disabilities

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Fall	17	0

Requirement Select

- THEA1310 - Theatre Education Seminar

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- THEA4300 - Clinical Experience in Teaching II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- THEA4340 - Methods of Teaching Theatre, Grades 7-12

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- SCED5100 - Motivation and Classroom Management

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- SCED5210 - Learning Theory, Curriculum, and Assessment

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Depth Life and Physical Sciences (DSC) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Literature/History Elective (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Spring	12	0

Requirement Select

- THEA5390 - Student Teaching Seminar

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select

- THEA5630 - Student Teaching in Secondary Schools
  OR
- THEA5631 - Student Teaching in Secondary Schools Out of State

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	10
Progress Credits	-
Contact Hours	10
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Program Learning Outcomes

Program Learning Outcomes

https://www.usu.edu/oda/assessment/

Theatre Arts Teaching - Minor

Program Overview

College	Department	Program Level
College of Arts & Sciences	Theatre Arts	Undergraduate

About this Degree

The Theatre Education Minor is specifically designed for students seeking careers teaching theatre in K-12 education. The minor is only available to students completing a teaching major. Space is limited and acceptance is competitive and not guaranteed.

Program Requirements

Total Credits Required To Earn This Credential

26

Simple Requisites

Program Requirements

- **MINOR EXPECTATIONS**: Students are expected to develop proficiency in pedagogy, artistry, academic/scholarship, leadership/service, and professionalism appropriate for K-12 theatre educators.
- **APPLICATION:** Students must apply and interview for the Theatre Education minor in order to be considered for acceptance.
- **MINIMUM GRADE ACCEPTED:** B for all courses in the minor. Students may not use the P/F/D option for courses required for the minor.
- **MINIMUM GPA FOR ADMISSION AND GRADUATION: 3.0**

Caine College of the Arts Academic Advisor Angela Neff: angela.neff@usu.edu

Section 1

Type
Completion Requirement

Required Theatre Arts Department Coures (26 credits)

Complete ALL of the following Courses:

- THEA1033 - Beginning Acting (BCA) - 3cr.
- THEA1513 - Stagecraft (BCA) - 3cr.
- THEA1713 - Playscript Analysis (BHU) - 3cr.
- THEA2033 - Scene Study - 3cr. (Inactive)
- THEA2203 - Costume Construction and Technology - 3cr.
- THEA2403 - Stage Management - 3cr.
- THEA2555 - Production Practicum - 1cr.
- THEA3610 - Directing I - 3cr.
- THEA3710 - Theatre History and Literature I (DHA)(CI) - 3cr. **OR** THEA3720 - Theatre History and Literature II (CI/DHA) - 3cr.

NOTE:

1. THEA2555 PRODUCTION PRACTICUM must be taken twice for a total of 2 credits.

Section 2

Type
Completion Requirement

Theatre Education Courses (15 credits)

Complete ALL of the following Courses:

- THEA4340 - Methods of Teaching Theatre, Grades 7-12 - 3cr.
- THEA4350 - Theatre for Young Audiences - 3cr.
- THEA1310 - Theatre Education Seminar - 1cr.
- THEA2370 - Applied Theatre - 3cr.
- THEA3340 - Methods of Teaching Drama, Grades K-6 - 3cr.
- THEA3300 - Clinical Experience in Teaching I - 1cr.
  OR THEA4300 - Clinical Experience in Teaching II - 1cr.

NOTE:

1. THEA1310 THEATRE EDUCATION SEMINAR must be taken four times for a total for 4 credits.

Section 3

Type
Completion Requirement

Additional Requirements (1-3 credits)

Complete the following:
One to three credits of any 2000 level or higher design/technology course.

Program Learning Outcomes

Program Learning Outcomes
https://www.usu.edu/oda/assessment/

Tech Innovation and Entrepreneurship - Post-Bachelor's Certificate

Program Overview

College	Department	Program Level
Jon M. Huntsman School of Business	Data Analytics & Information Systems, Marketing and Strategy	Graduate

About this Degree
A collaboration between the Data Analytics and Information Systems (DAIS) and Marketing, Strategy, Leadership, and Entrepreneurship (MSLE) departments, this certificate empowers students to ideate, validate, and launch technology-based ventures. Built on the Huntsman School's strength in experiential learning — through the Analytics Solutions Center (ASC) and the Center for Entrepreneurship — the program blends technical insight with entrepreneurial discipline. Open to current students and community members, it offers an inclusive, barrier-free pathway to develop scalable, high-impact ventures and to engage with regional startup ecosystems, investors, and established firms.

Who this is for:

- Students and professionals eager to turn technology ideas into viable startups.
- Those who want hands-on experience in building and commercializing tech ventures while pursuing their academic degree.
- Individuals seeking a stackable credential that complements engineering, business, and design skills.

Note that the Tech Innovation and Entrepreneurship Post-Bachelor's Certificate can be completed on its own, or it can be stacked with other certificates offered by the Department of Data Analytics and Information Systems (or with designated certificates from other campus programs) to meet the requirements of the Master's of Data Analytics (MDATA) program.

Data Analytics and Information Systems Faculty

Courses in Data Technologies Post-Bachelor's Certificate program are taught by faculty in the DAIS and MSLE departments who have years of corporate and academic experience. Our instructors are experts in the most cutting-edge tools and strategies for data and tech.

DAIS Faculty

MSLE Faculty

Admission Requirements for this Program
Prior bachelor's degree with at least a 3.0 GPA in previous 90 credits; relevant coursework or experience in basic data analysis and programming.

Program Requirements

Total Credits Required In Program Coursework	Total Credits Required To Earn This Credential
15	15

Simple Requisites

Program Requirements

The certificate requires 15 total credits, as outlined within the curriculum below. Individual substitutions for course requirements may be considered and approved on a case-by-case basis by the Data Analytics and Information Systems Department.

Courses used to fulfill requirements for this certificate may not include courses previously completed to meet the requirements of any other certificate or program, and cannot be used to complete any other certificate or program.

Courses remain valid for 6 years for potential inclusion in a future master's degree program (MMIS or MDATA).

Certificate students who opt to earn an MMIS or MDATA degree will be granted a waiver for reduced application fees for their future master's application. Please contact our office for details.

Tech Innovation and Entrepreneurship - Post-Bachelor's Certificate Course Requirements

Type
Completion Requirement

Required Courses

Complete ALL of the following Courses:

- IS6170 - Applied Tech Innovation - 3cr.
- IS6180 - Tech Innovation Implementation and Commercialization - 3cr.
- IS6181 - Tech Innovation Implementation and Commercialization Laboratory - 3cr.
- MSLE6410 - Enterprise and Value Creation - 3cr.

Additional Courses

Complete ANY of the following Courses:

- DATA6570 - Building Software With Artificial Intelligence - 3cr.
- IS6100 - Agile Tech Design and Development - 3cr.

Program Learning Outcomes

Program Learning Outcomes
USU Learning Outcomes Assessment - Tech Entrepreneurship certificate

Toxicology - Animal, Dairy and Veterinary Sciences - MS (NOT CURRENTLY OFFERED)

Program Overview

College	Department	Program Level
College of Agriculture & Natural Resources	Animal, Dairy & Veterinary Sciences	Graduate

About this Degree

Director: Roger A. Coulombe, Jr.
Location: Animal Science 213
Phone: (435) 797-1600
FAX: (435) 797-1601
E-mail: roger@usu.edu
WWW: toxicology.usu.edu

Degrees offered: Master of Science (MS) and Doctor of Philosophy (PhD) in Toxicology

Established in 1962, USU's Interdepartmental Graduate Program in Toxicology is one of the first degree-granting graduate toxicology programs in the country. More than 150 students have received MS and PhD degrees through this research-intensive interdisciplinary program. Students affiliate with the program through one of several departments: Animal, Dairy and Veterinary Sciences (ADVS); Biology (BIOL); Chemistry and Biochemistry (CAB); Civil and Environmental Engineering (CEE); or Plants, Soils, and Climate (PSC). The USDA Poisonous Plants Laboratory also provides facilities and research projects for study.

Toxicology Program Faculty:

Professors
Steven D. Aust, free radical toxicology and bioremediation (CAB)
Roger A. Coulombe, Jr., (Director) molecular and environmental toxicology, cancer chemoprevention, air pollution (ADVS)
R. Ryan Dupont, biological waste treatment (CEE)
Jeffery O. Hall, veterinary toxicology (ADVS)
Ronald C. Sims, biological engineering (BENG)

Research Associate Professor
Randy Martin, atmospheric chemistry, air pollution (CEE)

Associate Professors
Paul R. Grossl, soil chemistry and phytoremediation (PSC)

Assistant Professor
Abby Benninghoff, epigenetics, fetal basis of adult health and disease, carcinogenesis and cancer prevention, environmental toxicology (ADVS)

Collaborators at USDA Poisonous Plants Laboratory
Dale R. Gardner, natural product chemistry
Kip E. Panter, poisonous plants
James A. Pfister, behavioral toxicology
Bryan L. Stegelmeier, veterinary pathology
Kevin Welch, molecular toxicology

Admission Requirements for this Program

Students with a degree in life sciences, physical science, medical science, or engineering and with adequate preparation in chemistry, biology, physics, and/or mathematics are encouraged to apply. Admission to the program requires compliance with the general admission requirements of the School of Graduate Studies, a faculty sponsor, and acceptance into the sponsoring professor's home department. Applicants should have a minimum GPA of 3.0 from completed degree programs. International students must receive a minimum TOEFL score of 250.

Program Requirements

Total Credits Required In Program Coursework
-

Total Credits Required To Earn This Credential
-

Simple Requisites

Program Requirements

Major Research Areas

Molecular and Biochemical Toxicology

Modern molecular biological techniques are used to determine the mechanisms of toxicity and carcinogenesis by examining how various natural and synthetic compounds interact with the cellular genome and epigenome. Resultant mutations in oncogenes and tumor suppressor genes are being investigated. Other ongoing studies examine the mechanisms of cancer chemoprevention, chemical metabolism, effects of toxicants on macromolecular syntheses, and metabolic intermediates. A comprehensive research program in poisonous plants is another program emphasis at the USDA-ARS Poisonous Plants Laboratory, just north of the USU campus.

Environmental Toxicology

Utah State University has a comprehensive research program in several aspects of environmental toxicology. For example, Utah State University faculty pioneered the use of white-rot fungi to degrade environmental contaminants. Several members of the faculty study the effects of air pollution on human health, as well as develop models to predict episodes of high particulate matter. Models are developed and tested for dealing with the migration of chemicals in the environment, especially those with potential routes for human exposure. Basic biological, chemical, and physical methods are explored for hazardous waste management programs.

Financial Assistance

Graduate students are eligible for competitive fellowships, teaching assistantships, and research assistantships. Out-of-state fees are waived, and in many cases, in-state fees are also waived. Hourly employment, which often permits waiver of out-of-state fees, is also available.

The Toxicology Graduate Program participates in the WICHE Western Regional Graduate Degree Program (WRGP). Residents of participating states may enroll in this program without paying nonresident tuition. To facilitate this process, applicants should inform the Toxicology Program of their WRGP status upon application.

Course Requirements

Type

Completion Requirement

Required

Students in the MS program are required to complete the following core courses:

Complete ALL of the following Courses:

- ADVS5650 - Science Communication - 3cr.
- ADVS6400 - Environmental Toxicology - 3cr.
  OR BIOL6400 - Environmental Toxicology - 3cr.
  OR PUBH6400 - Environmental Toxicology - 3cr.
- ADVS6600 - Advanced and Molecular Toxicology - 3cr.
- ADVS6810 - Seminar in Toxicology (DELETED FALL 2025) - 1cr.
- CHEM5700 - General Biochemistry I - 3cr.
- CHEM5710 - General Biochemistry II - 3cr.
- STAT5200 - Analysis of Designed Experiments - 3cr.

Additional coursework may be required at the discretion of the student's advisory committee.

Program Learning Outcomes

Program Learning Outcomes

https://caas.usu.edu/advs/assessment/

Toxicology - Animal, Dairy and Veterinary Sciences - PhD (NOT CURRENTLY OFFERED)

Program Overview

College	Department	Program Level
College of Agriculture & Natural Resources	Animal, Dairy & Veterinary Sciences	Graduate

About this Degree

Director: Roger A. Coulombe, Jr.
Location: Animal Science 213
Phone: (435) 797-1600
FAX: (435) 797-1601
E-mail: roger@usu.edu
WWW: http://toxicology.usu.edu

Degrees offered: Master of Science (MS) and Doctor of Philosophy (PhD) in Toxicology

Established in 1962, USU's Interdepartmental Graduate Program in Toxicology is one of the first degree-granting graduate toxicology programs in the country. More than 150 students have received MS and PhD degrees through this research-intensive interdisciplinary program. Students affiliate with the program through one of several departments: Animal, Dairy and Veterinary Sciences (ADVS); Biology (BIOL); Chemistry and Biochemistry (CAB); Civil and Environmental Engineering (CEE); or Plants, Soils, and Climate (PSC). The USDA Poisonous Plants Laboratory also provides facilities and research projects for study.

Toxicology Program Faculty:

Professors
Steven D. Aust, free radical toxicology and bioremediation (CAB)
Roger A. Coulombe, Jr., (Director) molecular and environmental toxicology, cancer chemoprevention, air pollution (ADVS)
William J. Doucette, fate of environmental chemicals, phytoremediation (CEE)
R. Ryan Dupont, biological waste treatment (CEE)
Jeffery O. Hall, veterinary toxicology (ADVS)
Ronald C. Sims, environmental engineering (CEE)

Research Professor
Darwin L. Sorensen, aquatic toxicology (CEE)

Associate Professors
Paul R. Grossl, soil chemistry and phytoremediation (PSC)
Randy Martin, atmospheric chemistry, air pollution (CEE)

Assistant Professor
Abby Benninghoff, epigenetics, fetal basis of adult health and disease, carcinogenesis and cancer prevention, environmental toxicology (ADVS)

Collaborators at USDA Poisonous Plants Laboratory
Dale R. Gardner, natural product chemistry
Kip E. Panter, poisonous plants
James A. Pfister, behavioral toxicology
Bryan L. Stegelmeier, veterinary pathology
Kevin Welch, molecular toxicology

Admission Requirements for this Program

Students with a degree in life sciences, physical science, medical science, or engineering and with adequate preparation in chemistry, biology, physics, and/or mathematics are encouraged to apply. Admission to the program requires compliance with the general admission requirements of the School of Graduate Studies, a faculty sponsor, and acceptance into the sponsoring professor's home department. Applicants should have a minimum GPA of 3.0 from completed degree programs. International students must receive a minimum TOEFL score of 250.

Program Requirements

Total Credits Required In Program Coursework	Total Credits Required To Earn This Credential
-	-

Simple Requisites

Program Requirements

Major Research Areas

Molecular and Biochemical Toxicology

Modern molecular biological techniques are used to determine the mechanisms of toxicity and carcinogenesis by examining how various natural and synthetic compounds interact with the cellular genome and epigenome. Resultant mutations in oncogenes and tumor suppressor genes are being investigated. Other ongoing studies examine the mechanisms of cancer chemoprevention, chemical metabolism, effects of toxicants on macromolecular syntheses, and metabolic intermediates. A comprehensive research program in poisonous plants is another program emphasis at the USDA-ARS Poisonous Plants Laboratory, just north of the USU campus.

Environmental Toxicology

Utah State University has a comprehensive research program in several aspects of environmental toxicology. For example, Utah State University faculty pioneered the use of white-rot fungi to degrade environmental contaminants. Several members of the faculty study the effects of air pollution on human health, as well as develop models to predict episodes of high particulate matter. Models are developed and tested for dealing with the migration of chemicals in the environment, especially those with potential routes for human exposure. Basic biological, chemical, and physical methods are explored for hazardous waste management programs.

Financial Assistance

Graduate students are eligible for competitive fellowships, teaching assistantships, and research assistantships. Out-of-state fees are waived, and in many cases, in-state fees are also waived. Hourly employment, which often permits waiver of out-of-state fees, is also available.

The Toxicology Graduate Program participates in the WICHE Western Regional Graduate Degree Program (WRGP). Residents of participating states may enroll in this program without paying nonresident tuition. To facilitate this process, applicants should inform the Toxicology Program of their WRGP status upon application.

Course Requirements

Type

Completion Requirement

Students in the PhD program are required to complete the following core courses:

Complete ALL of the following Courses:

- ADVS5650 - Science Communication - 3cr.
- ADVS6400 - Environmental Toxicology - 3cr.
  OR BIOL6400 - Environmental Toxicology - 3cr.
  OR PUBH6400 - Environmental Toxicology - 3cr.
- BIOL5600 - Comparative Animal Physiology - 3cr.
  OR CHEM5700 - General Biochemistry I - 3cr.
- CHEM5710 - General Biochemistry II - 3cr.
- STAT5200 - Analysis of Designed Experiments - 3cr.

Additional coursework may be required, at the discretion of the student's advisory committee.

Program Learning Outcomes

Program Learning Outcomes

https://caas.usu.edu/advs/assessment/

Technical Communication and Rhetoric - Minor

Program Overview

College
College of Arts & Sciences

Department
Communication & Media

Program Level
Undergraduate

Program Requirements

Total Credits Required In Program Coursework
15

Total Credits Required To Earn This Credential
15

Simple Requisites

Program Requirements

The Technical Communication and Rhetoric (TCR) minor consists of 18 credits of TCR courses, 9 of which must be in upper-division coursework. Twelve of the 18 credits must be earned in residence at USU. Advanced Placement credit, CLEP credit, and credit from ENGL1010 WRITING AS INQUIRY (CL1) and ENGL2010 RSRCH&ARGUMENT PRSPCTVES (CL2) may **not** be counted toward this minor. Students must have a 2.5 Overall GPA to declare the TCR minor and must maintain a minimum 2.5 GPA within the minor courses with no grade lower than a C. Up to 3 pass/fail credits of ENGL4900 INTERN AND COOP EXPER may be applied toward the TCR minor.

Required Courses (6 credits)

Type
Completion Requirement

Required Introductory Courses (6 credits)

Complete ALL of the following Courses:

- TCR2100 - Introduction to Technical Communication - 3cr.
- TCR2110 - Digital Writing Technologies - 3cr.

Electives

Type
Completion Requirement

TCR Minor Electives (9 credits)

Earn at least 9 credits
Fulfill the 9 required credits with courses from the following sections:

Foundational Courses

Complete ANY of the following Courses:

- TCR3100 - Workplace Research - 3cr.
- TCR3110 - Accessibility and Disability Rhetorics - 3cr.
- TCR3120 - Rhetorical Theory (DHA) - 3cr.
- TCR3210 - Usability and Games User Research - 3cr.
- TCR3220 - Technical Editing (CI) - 3cr.
- TCR3230 - Community Grant Writing - 3cr.

Advanced Electives

Complete ANY of the following Courses:

- CHSS4250 - Advanced Internship/Co-op - 1cr.
- TCR4210 - Visual Communication Design - 3cr.
- TCR4220 - Technology and Activism - 3cr.
- TCR4230 - Project Management - 3cr.
- TCR4240 - User Experience Design - 3cr.

- TCR4250 - Careers in Professional Communication (CI) - 3cr.
- TCR5490 - Advanced Topics in Technical Communication and Rhetoric - 3cr.

Program Learning Outcomes

Program Learning Outcomes

https://artsci.usu.edu/communication-media/assessments

Technical Communication and Rhetoric - BA, BS

Program Overview

College
College of Arts & Sciences

Department
Communication & Media

Program Level
Undergraduate

About this Degree

Technical communication and rhetoric (TCR) is a field that involves creating and delivering complex information to those who need to accomplish a defined task or goal. Students who have graduated from this program have gone on to work in a variety of industries and sectors, such as tech companies, non-profit organizations, and government agencies; our graduates work in a variety of roles in learning experience design, usability research, user experience design, video production, copywriting and editing, publishing, marketing, risk communication, technical writing, grant and proposal writing, and project management. This degree can also prepare students for law school and other postgraduate paths. At USU, students can major or minor in TCR. USU's TCR students learn rhetorically grounded design and communication skills, and they are encouraged to examine how their communications can better serve community needs and the public good. In TCR courses, students often work on projects that benefit communities they care about.

For Bachelor of Arts (BA) see Undergraduate Academic Credential Requirements for language requirements.

- For more information about Technical Communication and Rhetoric - BA, BS, see the department website.
- Admitted and current students must meet with an advisor.
- Log on to Degree Works to check student-specific program progress.
- The highest math requirement for this degree is the Quantitative Literacy (QL) of the student's choice.

Admission Requirements for this Program

Minimum GPA for Admission: 2.5 USU cumulative (including courses taken for another USU major); 2.5 career total (including transfer credits) for new transfer students.

Program Requirements

Total Credits Required In Program Coursework
42

Total Credits Required To Earn This Credential
120

Simple Requisites

Program Requirements

Graduation Standards and Number of Credits

- **Minimum GPA for Graduation**: 2.75 within major courses; 2.0 USU cumulative; 2.0 career total
- **Minimum Grade Accepted**: C in courses taught by major, with up to 3 credits with pass/fail grades allowed for internship.
- **Number of Required Credits**: 42
- **Credits in Residence**: Students must complete 21 credits of major-applicable coursework at Utah State University.

Major Requirements (42 credits)

Type
Completion Requirement

A. Required Introductory Classes (6 credits)

Complete ALL of the following Courses:

- TCR2100 - Introduction to Technical Communication - 3cr.
- TCR2110 - Digital Writing Technologies - 3cr.

B. TCR Major Courses (27 credits)

Earn at least 27 credits from the following:

- CHSS4250 - Advanced Internship/Co-op - 1cr.
- TCR3100 - Workplace Research - 3cr.
- TCR3110 - Accessibility and Disability Rhetorics - 3cr.
- TCR3120 - Rhetorical Theory (DHA) - 3cr.
- TCR3210 - Usability and Games User Research - 3cr.
- TCR3220 - Technical Editing (CI) - 3cr.
- TCR3230 - Community Grant Writing - 3cr.
- TCR4210 - Visual Communication Design - 3cr.
- TCR4220 - Technology and Activism - 3cr.
- TCR4230 - Project Management - 3cr.
- TCR4240 - User Experience Design - 3cr.
- TCR4250 - Careers in Professional Communication (CI) - 3cr.
- TCR5490 - Advanced Topics in Technical Communication and Rhetoric - 3cr.

NOTE:

1. CHSS4250 - 1-3 credits may fulfill TCR major or Secondary Area Electives requirements.

C. Secondary Area Electives (9 credits)

Earn at least 9 credits
Select 9 credits of electives from a secondary area of student interest that complement the TCR major. Common selections include Global Communications, Journalism, Specialized Writing courses in English (such as AI and Writing, Medical Writing, Science Writing), Foreign Language, Translation (World Languages and Cultures). Students are strongly encouraged to choose 3 electives from the same area (e.g., World Languages, English, CMST, JCOM).

Open Electives

Complete the following as needed:
Total elective credit is determined by General Education courses taken, degree type selected, additional credits earned, and any additional math or other prerequisite courses needed. Please consult your Academic Advisor for details.

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Bachelor's Degree)

Suggested Degree Maps

Degree Map Name
Suggested Degree Map - Technical Communication and Rhetoric - BA, BS
Total Degree Map Credits
118 - 123
Degree Map Effective Catalog Year
2027 -

Degree Map Narrative

- Following is a sample four-year plan. Please note that student-specific plans may differ.
- Meet with an academic advisor to create a specific plan that best fits your academic needs.
- The student is ultimately responsible for knowing and completing all degree requirements.
- Make sure you meet the registration requirements for each class by clicking the course link and checking any prerequisites or corequisites.
- Consultation with an advisor may result in an altered plan customized for an individual student.
- Check your Degree Works for requirements and completion.

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	15 - 18	0

Requirement Select

- Communications Literacy (CL1) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Any Quantitative Literacy (QL) course: STAT 1040 - Introduction to Statistics (QL) or STAT 1045 - Introduction to Statistics with Elements of Algebra (QL) is recommended (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Quantitative Literacy (QL) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 5
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Breadth Requirement (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Breadth Requirement (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Breadth Requirement (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Breadth Requirement (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	15	0

Requirement Select
- Communications Literacy (CL2) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	15	0

Requirement Select
- TCR2100 - Introduction to Technical Communication

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Breadth Requirement (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Breadth Requirement (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Breadth Requirement (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	15	0

Requirement Select
- TCR2100 - Introduction to Technical Communication

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Quantitative Intensive (QI) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Depth Social Sciences (DSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Fall	15	0

Requirement Select
- TCR 3000-level Major Elective course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- TCR 3000-level Major Elective course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- ENGL Communication and Diversity Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Depth Life and Physical Sciences (DSC) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Spring	15	0

Requirement Select
- TCR 3000-level Major Elective course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- TCR 3000-level Major Elective course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- TCR 3000-level Major Elective course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- English Elective course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Elective course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Fall	13 - 15	0

Requirement Select

- 1-3 credits of ENGL 4900 may fulfill TCR major or English elective requirements (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- ENGL4900 - Internship/Cooperative Work Experience

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1 - 3
Progress Credits	-
Contact Hours	1 - 15
Clinical	-
Criticality	No

Requirement Select

- TCR 4000-level Major Elective course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- TCR 4000-level Major Elective course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Spring	15	0

Requirement Select
- TCR 4000-level Major Elective course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- TCR 4000-level Major Elective course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	Total Major Credits
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Program Learning Outcomes

Program Learning Outcomes

https://artsci.usu.edu/communication-media/assessments

Technical Communication and Rhetoric - PhD

Program Overview

College
College of Arts & Sciences

Department
Communication & Media

Program Level
Graduate

About this Degree

The Technical Communication and Rhetoric (TCR) doctoral program defines technical communication as communication that facilitates action in the world. Facilitating action requires that communication be effective and persuasive–or intentionally rhetorical. Our program is known for addressing issues of social justice, community engagement, diversity, and service learning–issues that can be explored with partners from a variety of fields and backgrounds. Our students have opportunities to craft and pursue their own field-specific research agendas and to gain teaching experience as the instructors of record for a range of undergraduate courses in technical communication. For up-to-date information, including advice for submitting a competitive application, refer to the Technical Communication and Rhetoric pages. Please note that the application deadline for Fall admission is January 10th. For more comprehensive information about graduate program policies in the TCR PhD program, refer to the TCR Graduate Student Handbook. To apply, go to the graduate school admission page.

The Faculty

In the TCR program, doctoral students work alongside winners of prestigious national awards, experienced journal editors, and field leaders. The core faculty in TCR are experts in areas such as rhetorical theory, genre theory, online education, technology, editing, social justice, and qualitative methods. Our faculty's research interests include topics such as the effects of technologies on ethical behaviors and social justice, technical communication in humanitarian organizations, emergent technologies and human agency in gaming culture, and crisis communication.

Length of Program

From the date of matriculation (i.e., from the time a student is accepted into the program), the USU School of Graduate Studies allows students eight years to finish their doctoral degree, but this program is designed to be completed in four years. Additional time may be requested by the student's committee and submitted to the Vice Provost of Graduate Studies for review. Coursework over eight years old at the time of degree completion may not be used for a graduate degree unless it is revalidated by the Vice Provost of Graduate Studies.

Residency Requirements

PhD students will establish residency in their first year. They must remain in residence at least until achieving doctoral candidacy (ABD) and be engaged as active members of the USU academic community. Please note that students must be Utah residents to maintain their GI-ship.

Program Requirements

Total Credits Required In Program Coursework
60

Total Credits Required To Earn This Credential
60

Simple Requisites

Program Requirements

Additional Requirements

Graduate students are required to maintain at least a 3.0 GPA for degree-program courses. Grades below a B- will not be accepted for a Technical Communication and Rhetoric PhD program degree.

Credits in the following areas are not acceptable in a degree program: foreign languages (unless included in an approved Program of Study), continuing graduate advisement, individual home study, military science, and courses numbered below 6000. No more than 12 credits of 5000 level courses can be counted towards the degree.

Coursework over eight years old at the time of degree completion may not be used for a graduate degree unless it is revalidated by the Vice Provost for the School of Graduate Studies. A doctorate must be completed within eight years of entering the degree program. Additional time may be requested by the student's committee and submitted to the Vice Provost of Graduate Studies for review

All Technical Communication and Rhetoric PhD students must successfully defend their dissertation and submit the dissertation to the library. An oral defense typically takes place in the last semester of study. For details on the dissertation writing and defense process, refer to the TCR Graduate Student Handbook.

A graduate student in Technical Communication and Rhetoric will be required to complete the following academic forms during their time of study:

- Supervisory Committee
- Program of Study
- Application for Candidacy
- Appointment for Examination
- Record of Examination
- SGS and library review and approval
- Other forms may be required; for details refer to the TCR Graduate Student Handbook.

Curriculum Overview

Students in the TCR program must complete a minimum of 60 approved semester credits beyond their master's degree. Up to 12 graduate level credits may be transferred and applied toward this degree with approval from the Director of Graduate Studies and the Technical Communication and Rhetoric faculty. In addition to the minimum 60 credits of coursework, students must take Responsible Conduct of Research training, a brief online training on ethical conduct in research that the university requires of all PhD students.

Technical Communication and Rhetoric - PhD

Type
Completion Requirement

Division of Classes

Students select appropriate courses from the following seven categories (A-G) to develop their programs of study.

Fulfill ANY of the following requirements:

A. Rhetoric and Theory (12 credits required)

Earn at least 12 credits from the following:

- TCR7100 - Foundations of Technical Communication - 3cr.
- TCR7120 - Rhetorical Theory - 3cr.
- TCR7250 - Digital Rhetorics - 3cr.
- TCR7260 - Accessibility Rhetorics and Disability Studies - 3cr.

B. Research (6 credits required)

Earn at least 6 credits from the following:

- TCR7110 - Empirical Research Methods - 3cr.
- TCR7210 - Cultural Research Methods - 3cr.

NOTE:

1. TCR7210 CULTURAL RESEARCH METHODS is repeatable up to 6 credits.

C. Technology and Design (12 credits required)

Earn at least 12 credits from the following:

- TCR7130 - Professional Editing - 3cr.
- TCR7240 - Communication Design - 3cr.
- TCR7260 - Accessibility Rhetorics and Disability Studies - 3cr.
- TCR7220 - User Experience Design - 3cr.
- TCR7230 - Instructional Design for Technical Communicators - 3cr.

NOTE:

1. TCR7240 COMMUNICATION DESIGN is repeatable for up to 6 credits.

D. English/Communication Cognate (3 credits required)

Complete the following:
3-credit 6000-level course in English or Communication. Doctoral students may take a one-week ENGL summer credit workshop at the graduate level with the approval of their supervisory committee; however, summer workshops are not covered by tuition waiver.

E. External Cognate Area (3 credits required)

Complete the following:
3-credit course at the graduate level in a department outside Communication (course selection requires supervisory committee approval).

F. Research Internship (6 credits required)

Complete ALL of the following Courses:

- TCR7900 - Research Internship - 6cr.

G. Dissertation (18 credits required)

Complete ALL of the following Courses:

- TCR7970 - Dissertation Research - 1cr.

NOTE:

1. TCR7970 DISSERTATION RESEARCH (must pass comprehensive exam and successfully defend dissertation proposal before registering for TCR7970 DISSERTATION RESEARCH). With dissertation committee chair approval, a 3-credit elective may substitute for 3 credits of ENGL7970 DISSERTATION RESEARCH.

H. Optional Electives

The following courses may be taken as electives when available but are not required. They can count toward categories A, B, and C, if approved by TCR faculty.

Complete ANY of the following Courses:

- TCR7490 - Special Topics in Technical Communication and Rhetoric - 3cr.
- TCR7920 - Directed Study - 3cr.

Program Learning Outcomes

Program Learning Outcomes

https://artsci.usu.edu/assessments/

Technical Sales Management - Minor

Program Overview

College	Department	Program Level
Jon M. Huntsman School of Business	Marketing and Strategy	Undergraduate

Admission Requirements for this Program

An overall GPA of 2. 0 is required for enrollment in this business minor. A student from outside the Huntsman School who desires to pursue any business minor must recognize there may be prerequisites to required minor courses.

Program Requirements

Total Credits Required To Earn This Credential

12

Simple Requisites

Program Requirements

A GPA of 2.5 must be obtained in minor courses in order for the minor to be awarded at graduation

Section 1

Type

Completion Requirement

Required Courses (10 credits)

Complete ALL of the following Courses:

- MSLE4555 - Pricing & B2B Buyer-Seller Decisions - 2cr.
- MSLE4560 - Strategic Sales (CI) - 2cr.
- MSLE4565 - Sales Management - 2cr.
- MSLE4575 - Customer Success Strategy - 2cr.
- MGT4600 - Negotiations - 2cr.

Students must take MSLE4560 STRATEGIC SALES (CI) before taking MSLE4565 SALES MANAGEMENT or MSLE4575 CUSTOMER SUCCESS STRATEGY

Section 2

Type

Completion Requirement

Experiential Learning (2 credits)

Complete one of the two following experiential learning requirements:

Earn at least 2 credits from the following:

- MSLE2900 - Pro Sales - 1cr.
- MSLE4562 - Sales and Marketing Practicum - 2cr.

Instructor permission required for MSLE2900 PRO SALES. Student must take this repeatable course twice to count for the minor

Instructor permission and application required for MSLE4562 SALES & MARKETING PRACTICUM

Additional Comments:

Any deviation from the program as outlined must be submitted in writing to the department head for approval, including justification for the changes.

Program Learning Outcomes

Program Learning Outcomes

https://huntsman.usu.edu/assessment/assessment-plan

Unmanned Aircraft Systems - Minor

Program Overview

College
College of Agriculture & Natural Resources

Department
Aviation Technology

Program Level
Undergraduate

About this Degree

This minor prepares students to complete the Federal Aviation Administration (FAA) Unmanned Aircraft Systems (UAS) Commercial Drone Pilot certification. Students develop a working knowledge of design, maintenance, control of unmanned aircraft systems and learn how small UAS skills can enhance other majors and careers.

For more information, please contact the program advisor.

Admission Requirements for this Program

To declare the minor a student must have a cumulative GPA of 2.5 or higher.

Program Requirements

Total Credits Required In Program Coursework
13

Total Credits Required To Earn This Credential
13

Simple Requisites

Program Requirements

A minimum grade of C- is required for minor courses.

Section 1

Type
Completion Requirement

Required Courses

Complete ALL of the following Courses:

- UAS1010 - Unmanned Aircraft Systems - Remote Pilot - 3cr. **OR** UAS3020 - Part 61 Introduction to Unmanned Aircraft Systems and Flight Lab - 3cr.
- UAS1020 - Unmanned Aircraft Systems Part 107 Test - 1cr.
- UAS2050 - Unmanned Aircraft Systems Pilot in Command - 3cr.

Only students with FAA Part 61 Exam are eligible to register for UAS3020 PART 61 INTRO TO UAS & FLT LAB

Section 2

Type
Completion Requirement

Elective Courses (6 credits)

Students must select six credits from the following (courses completed as a required course may not be used as an elective).

Be aware that some of the classes below have required pre- or co-requisites.

For additional information regarding this program, please contact your advisor.

Earn at least 6 credits from the following:

- AV3900 - Aviation Independent Study - 1cr.
- AV4250 - Internship - 1cr.
- UAS1100 - Introduction to Unmanned Aircraft Systems - 1cr.
- UAS1200 - Unmanned Aircraft Systems Introduction to Fixed-Wings - 3cr.
- UAS1300 - Unmanned Aircraft Systems Introduction to Multirotor - 3cr.
- UAS1350 - UAS Intro to FPV (First Person View) Essentials - 3cr.
- UAS1500 - Introduction to Unmanned Aircraft Systems Maintenance and Components - 3cr.
- UAS2100 - Unmanned Aircraft Systems Flight Lab - Patterns and Maneuvers - 3cr.
- UAS2300 - Unmanned Aircraft Systems Multirotor Autonomy - 3cr.
- UAS2700 - Unmanned Aircraft Systems Photo and Video Basics - 3cr.
- UAS3200 - Fixed-wing Design and Construction Essentials - 3cr.
- UAS3360 - UAS First Person View (FPV) Fundamentals - 3cr.
- UAS3700 - Unmanned Aircraft Systems Video Production - 3cr.

Program Learning Outcomes

Program Learning Outcomes

https://caas.usu.edu/avte/assessment

Unmanned Aircraft Systems - Technical Certificate

Program Overview

College
College of Agriculture & Natural Resources

Department
Technology, Design & Technical Ed

Program Level
Undergraduate

About this Degree

This hands-on program gives students the chance to build, fly, and maintain drones while gaining the technical and professional skills needed for today's fast-growing drone industry. You'll prepare to earn your FAA Part 107 Remote Pilot certification, design and assemble your own drones, and explore how UAS technology is used across fields like agriculture, photography, construction, emergency response, and more.

If you're ready to turn curiosity into flight and innovation into opportunity, this program is your launchpad.

Program Requirements

Total Credits Required In Program Coursework
30

Total Credits Required To Earn This Credential
30

Simple Requisites

Program Requirements

Unmanned Aircraft Systems - Technical Certificate Course Requirements (30 credits)

Type
Completion Requirement

Foundational Courses

Complete ALL of the following Courses:

- TEAV1130 - Flight Principles - 3cr.
- TEUA1011 - Unmanned Aircraft Systems Remote Pilot - 3cr.
- TEUA1021 - Unmanned Aircraft Systems Part 107 Test - 1cr.
- TEUA1201 - Unmanned Aircraft Systems Introduction to Fixed-Wings - 3cr.
- TEUA1301 - Unmanned Aircraft Systems Introduction to Multirotor - 3cr.
- TEUA1501 - Introduction to Unmanned Aircraft Systems Maintenance and Components - 3cr.
- TEUA2041 - Aviation Meteorology - 3cr.
- TEUA2051 - Unmanned Aircraft Systems Pilot in Command - 3cr.
- TEUA2101 - Unmanned Aircraft Systems Flight Patterns and Maneuvers - 3cr.
- TEUA2651 - Drones for Hire - 3cr.
- TEUA2701 - Unmanned Aircraft Systems Introduction to Aerial Photography - 3cr.

Program Learning Outcomes

Program Learning Outcomes

Students will apply their understanding of FAA rules and regulations, including preparation for the Part 107 certification exam. They will demonstrate the ability to identify UAS components, their functions, and real-world applications across the drone industry. Learners will also show proficiency in flight operations, repair, and construction for both fixed-wing and multirotor drones. In addition, students will develop strong professional communication skills, creating clear and accurate documentation to support their technical work.

Unmanned Aircraft Systems - Certificate

Program Overview

College
College of Agriculture & Natural Resources

Department
Aviation Technology

Program Level
Undergraduate

About this Degree

This Technical Certificate will enable students to become FAA-certified as remote pilots. Students gain experience in flying, maintaining, programming, tuning, and repairing various fixed-wing and multirotor sUAS aircraft. Students learn how to collect, analyze, and report data in the one-year program.

Program Requirements

Total Credits Required In Program Coursework
31

Total Credits Required To Earn This Credential
31

Simple Requisites

Program Requirements

Only UAS1020 UAS PART 107 TEST may be taken on a pass/fail basis):

Unmanned Aircraft Systems Course Requirements

Type
Completion Requirement

Fall Courses

Complete ALL of the following Courses:

- AV1130 - Flight Principles - 3cr.
- UAS1010 - Unmanned Aircraft Systems - Remote Pilot - 3cr.
- UAS1020 - Unmanned Aircraft Systems Part 107 Test - 1cr.
- UAS1200 - Unmanned Aircraft Systems Introduction to Fixed-Wings - 3cr.
- UAS1500 - Introduction to Unmanned Aircraft Systems Maintenance and Components - 3cr.
- UAS2100 - Unmanned Aircraft Systems Flight Lab - Patterns and Maneuvers - 3cr.

Spring Courses

Complete ALL of the following Courses:

- AV2040 - Aviation Weather - 3cr.
- UAS1300 - Unmanned Aircraft Systems Introduction to Multirotor - 3cr.
- UAS2050 - Unmanned Aircraft Systems Pilot in Command - 3cr.
- UAS2650 - Drones for Hire - 3cr.
- UAS2700 - Unmanned Aircraft Systems Photo and Video Basics - 3cr.

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Undergraduate Academic or Technical Certificates)

Program Learning Outcomes

Program Learning Outcomes

https://caas.usu.edu/tdte/assessment/

Veterinary Assisting - Technical Certificate

Program Overview

College
College of Agriculture & Natural Resources

Department
Technology, Design & Technical Ed

Program Level
Undergraduate

About this Degree

Veterinary Assisting provides students with hands-on training to develop skills to work as support staff in veterinary clinics, shelters, or other animal-based entities. Under the supervision of veterinarians, laboratory animal specialists, and zoological professionals, students learn to provide patient management, care, and clinical procedures assistance as well as owner communication. Including instruction in animal handling and restraint, nursing care, animal health and nutrition, clinical pathology, radiology, anesthesiology, lab procedures, blood collection, IV catheterization, surgical assisting, dental cleanings, vaccines, physical exams, office administration skills, and applicable standards and regulations.

Blanding Campus Only

Program Requirements

Total Credits Required In Program Coursework
18

Total Credits Required To Earn This Credential
18

Simple Requisites

Program Requirements

Required Courses (18 Credits)

Type
Completion Requirement

Required Courses

Complete ALL of the following Courses:

- TEVA1011 - Introduction to Veterinary Assisting - 2cr.
- TEVA1301 - Vet Assisting Applications - 1cr.
- TEVA1401 - Emergency Critical Care/End of Life - 1cr.
- TEVA1501 - Clinical Procedures I - 1cr.
- TEVA1502 - Clinical Procedures II - 2cr.
- TEVA1503 - Clinical Procedures III - 3cr.
- TEVA2999 - Clinical Externship - 4cr.
- TEVA1111 - Patient Management and Nutrition - 3cr.
- TEVA1201 - Vet Assist Clinical Sciences - 1cr.

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Undergraduate Academic or Technical Certificates)

Program Learning Outcomes

Program Learning Outcomes

- Safely and successfully restrain and work with a variety of small and large animals.
- Perform nursing care, laboratory procedures, dental cleanings, IV catheterization, vaccinations, and physical exams.
- Perform routine lab procedures including blood collection, fecals, and infection control.
- Use appropriate veterinary terminology and pharmacology in communication with faculty, veterinarians, and other veterinary staff.
- Provide various species care and demonstrate appropriate interactions with clients and the animals' owners.

Doctor of Veterinary Medicine - DVM

Program Overview

College	Department	Program Level
College of Veterinary Medicine	College of Veterinary Medicine	Graduate

About this Degree

College of Veterinary Medicine

The College of Veterinary Medicine, which was approved by the Utah Legislature in 2022, paved the way to form an independent four-year program, which includes the construction of a new Veterinary Medical Education building on the USU campus in Logan, Utah. Accreditation through the American Veterinary Medical Association Council of Education (AVMA COE) is now underway. The college anticipates matriculating its first cohort of 40 students in the fall of 2025. In subsequent years, enrollment will increase to 80 students per cohort, with 40 positions for Utah residents.

Curriculum

The Doctor of Veterinary Medicine (DVM) degree curriculum aims to train thriving day-one mixed animal veterinarians with the professional, foundational, and applied competencies to serve urban and rural communities in Utah and beyond. The DVM degree curriculum engages the veterinary community throughout Utah and the broader Intermountain Region through an integrated, competency-based approach. Courses offer students intensive training on the competencies expected of day-one veterinary general practitioners.

The first year of the veterinary curriculum provides an integrated systems-based foundation of the structure and function of the bodies of healthy domestic and exotic animals, while also providing an opportunity to develop technical expertise in diagnostics, principles of surgery, and other clinical skills. Lecture and laboratory-based instruction is augmented through participation in case-based discussions.

The second year focuses on disease conditions through the study of pathology, toxicology, virology, public health, and epidemiology while furthering additional professional skills, such as clinical communication. There are also electives in research, integrative medicine, sheep lambing/goat kidding, and large animal theriogenology.

The third year focuses on the diagnosis, prognosis, treatment, prevention, and management of the most common disorders in domestic and exotic species, including dentistry, emergency and intensive care, isolation, and biosecurity. This will be accomplished through the delivery of medicine and surgery courses using a combination of didactic classroom instruction, simulated models, live animal laboratories, and case studies.

In the fourth year, students will participate in a year dedicated to clinical rotations with community-based partner clinics called Affiliated Veterinary Instructional Partners (AVIPs). During their clinical training, fourth-year students will hone their clinical skills by actively participating in a variety of cases from routine wellness care to complex medical and surgical cases. The range of practices offering student experiences will include animal shelters, zoological parks, rural mixed-animal practices, species-specific practices, urban practices, emergency/urgent care, specialized veterinary medicine, and clinical practice focusing on diagnostics.

Admission Requirements for this Program

Admission Requirements

Veterinary medicine is a rigorous science-based field. When evaluating an applicant, emphasis is placed on a broad-based science education. Prerequisite coursework is considered an essential foundation. Applicants can major in any undergraduate subject area; however, a science-based major may better prepare an applicant for the demanding DVM curriculum. Although the Office of Veterinary Admissions recommends completion of a baccalaureate degree prior to matriculation to the DVM program, it is not required. Applications are evaluated on both overall grade point average (GPA) and the strength of prerequisite coursework completed at the time of application. While some prerequisites may be in-progress or planned at the time of application, applicants must have completed all prerequisite courses with a C- or higher before entering the program. Applicants must meet minimum GPA requirements to enter the review process (https://vetmed.usu.edu/cvm/admissions/requirements). Applicants who do not meet these requirements do not undergo further review.

Required prerequisite courses for admission are listed below. Specific USU courses are listed for each prerequisite as example courses.

- Biology, with laboratory (BIOL1610 BIOLOGY I & BIOL1615 BIOLOGY I LABORATORY; BIOL1620 BIOLOGY II (BLS) & BIOL1625 BIOLOGY II LABORATORY) - 8 semester credit hours
- Inorganic Chemistry, with laboratory (CHEM1210 PRIN OF CHEMISTRY I & CHEM1215 CHEMICAL PRINCIPLES LAB I; CHEM1220 PRIN OF CHEMISTRY II (BPS) & CHEM1225 CHEMICAL PRINCIPLES LAB II) -10 semester credit hours
- Organic Chemistry, laboratory not required (CHEM2310 ORGANIC CHEMISTRY I) - 4 semester credit hours
- Biochemistry (CHEM3700 INTRO BIOCHEMISTRY) - 3 semester credit hours
- Mathematics (MATH1050 COLLEGE ALGEBRA (QL)) - 4 semester credit hours
- Statistics (STAT1040 INTRO TO STATISTICS (QL)) - 3 semester credit hours OR Statistics (STAT2000 STATISTICAL METHODS (QI)) - 4 semester credit hours
- Physics, laboratory not required (PHYS2110 GENERAL PHYS LIFE SCI I) - 4 semester credit hours
- Genetics, laboratory not required (BIOL3060 PRIN OF GENETICS (QI)) - 3 semester credit hours
- English composition/communication - 6 semester credit hours*
- Arts and Humanities/Social Science/History, etc. - 21 semester credit hours*

*If an applicant has received or will receive a bachelor's degree prior to matriculation, the general education requirements are considered fulfilled regardless of credit hours.

For questions about prerequisite coursework, we recommend contacting your academic advisor for assistance. If you are an academic advisor and need additional assistance, please contact us at dvmadmit@usu.edu.

The Office of Veterinary Admissions considers a solid and broad undergraduate experience to be fundamental preparation for successful completion of the veterinary curriculum. When evaluating an applicant, the Office of Veterinary Admissions will consider both academic and non-academic qualities, which may include a personal interview. Applicants are encouraged to gain experience by working or volunteering with a veterinarian, spending time in animal-related fields or research, and participating in extracurricular activities and community service (https://vetmed.usu.edu/cvm/admissions/how-to-apply).

Applications for admission to the USU DVM program are submitted through the Veterinary Medical College Application Service (VMCAS), the centralized application service for accredited colleges of veterinary medicine. You can learn about the VMCAS application process and how to become a veterinarian on the AAVMC website.

More ways you can prepare to apply

- We encourage applicants to gain both animal and veterinary experience. Hint: Document your hours as you earn them!
- Document your employment history.
- Keep a log of your extracurricular activities (dates of membership, offices held, special projects you accomplished, etc.); any honors, awards, or scholarships you receive; and service in your community.
- Develop your interpersonal and communication skills. While veterinary medicine is rooted in science, successful veterinarians are good communicators as well as skilled clinicians.

High school students

Becoming a veterinarian generally requires seven to eight years of academic training after high school. Applicants complete undergraduate coursework, and the majority earn a bachelor's degree before entering veterinary school. The Doctor of Veterinary Medicine degree program then requires completion of an additional four years of advanced educational instruction and training.

As a high school student, you can start preparing now for admission to college. Although it is important to take math and science courses, involvement in activities that foster leadership opportunities and/or animal experience is encouraged.

High school courses that will provide the best foundation for a college pre-veterinary curriculum are laboratory-based sciences (chemistry, physics, and biology), math, and English.

For further information: vetmed.usu.edu.

Program Requirements

Total Credits Required In Program Coursework

-

Total Credits Required To Earn This Credential

-

Simple Requisites

Program Requirements

School of Graduate Studies Requirements:

• Degree Verification: A bachelor's degree from an accredited U.S. college or university or a similarly recognized international university is required for admission to and completion of a graduate program. An official transcript must be sent directly to the School of Graduate Studies.
• Overall Graduate GPA at least 3.0 and no grades of C- or lower: Graduate students are required to maintain at least a 3.0 GPA for degree-program courses. Grades of C- or lower will not be accepted for a graduate degree.
• Course Number Acceptability: The program of study for a master's degree cannot include more than 12 semester credits of courses at the 5000 level. Credits in the following areas are not acceptable in a degree program: foreign languages (unless included in an approved Program of Study), continuing graduate advisement, individual home study, military science, and courses numbered below 5000.
• Matriculation Start Semester: A master's degree must be completed within six years of entering the degree program. Additional time may be requested by the student's advisor and submitted to the Vice Provost of Graduate Studies for review.
• Coursework Validity: Coursework over eight years old at the time of degree completion may not be used for a graduate degree unless it is revalidated by the Vice Provost of Graduate Studies.
• Master's forms: Approval of the Program of Study is required by the School of Graduate Studies.

Curriculum:

The Doctor of Veterinary Medicine (DVM) degree curriculum aims to train thriving day-one mixed animal veterinarians with the professional, foundational, and applied competencies to serve urban and rural communities in Utah and beyond. The DVM degree curriculum will engage the veterinary community throughout Utah and the broader Intermountain Region through an integrated, competency-based approach. Courses will offer students intensive training on the competencies expected of day-one veterinary general practitioners.

The first year of the veterinary curriculum will provide an integrated systems-based foundation of the structure and function of the bodies of healthy domestic and zoological animals, while also providing an opportunity to develop technical expertise in diagnostics, principles of surgery, and other clinical skills. Lecture and laboratory-based instruction will be augmented through participation in case-based discussions.

The second year focuses on disease conditions through the study of pathology, toxicology, virology, public health, and epidemiology while furthering additional professional skills, such as clinical communication. There are also electives in research; integrative medicine; mare foaling, sheep lambing/goat kidding, and large animal theriogenology.

The third year focuses on the diagnosis, prognosis, treatment, prevention and management of the most common disorders in domestic and zoological species, including dentistry, emergency and intensive care, isolation, and biosecurity. This will be accomplished through the delivery of medicine and surgery courses using a combination of didactic classroom instruction, simulated models, live animal laboratories, and case studies.

In the fourth year, students will participate in a year dedicated to clinical rotations with community-based partner clinics called Affiliated Veterinary Instructional Partners (AVIPs). During their clinical training, fourth-year students will hone their clinical skills by actively participating in a variety of cases from routine wellness care to complex medical and surgical cases. The range of practices offering student experiences will include animal shelters, zoologic parks, rural mixed-animal practices, species-specific practices, urban practices, emergency/urgent care, specialized veterinary medicine, and clinical practice focusing on diagnostics.

Year 1 Curriculum

Type
Completion Requirement

Year 1 Courses

The first-year curriculum will provide an integrated systems-based foundation of the structure and function of the bodies of healthy domestic and zoological animals. Courses will focus on cell and developmental biology, anatomy, histology, physiology, immunity, homeostasis, and general pathology while emphasizing clinically relevant structures and physiological mechanisms.

Complete ALL of the following Courses:

- VM7001 - Clinical Skills I - 2cr.
- VM7002 - Clinical Skills II - 2cr.
- VM7011 - Professional Skills I - 2cr.
- VM7012 - Professional Skills II - 2cr.
- VM7021 - Thinking Like A Veterinarian I - 1cr.
- VM7022 - Thinking Like a Veterinarian II - 1cr.
- VM7031 - Exploration of Post-DVM Career Opportunities I - 0.5cr.
- VM7032 - Exploration of Post-DVM Career Opportunities II - 0.5cr.
- VM7101 - Cell Biology and Metabolism - 3cr.
- VM7111 - Animal Systems and the Veterinary Profession - 2cr.
- VM7121 - Form and Function- Musculoskeletal System - 5cr.
- VM7122 - Form and Function- Nervous System - 3cr.
- VM7123 - Form and Function- Cardiovascular System - 2cr.
- VM7124 - Form and Function - Respiratory - 1cr.
- VM7125 - Form and Function - Urinary - 2cr.
- VM7126 - Form and Function - Gastrointestinal - 2cr.
- VM7127 - Form and Function - Endocrine/Reproductive - 2cr.
- VM7128 - Form and Function - Zoological Companion Animals - 1cr.
- VM7132 - General Pathology - 3cr.
- VM7142 - Agents of Infection and Immunity - 3cr.
- VM7162 - Fundamentals of Pharmacology - 1cr.
- VM7172 - Principles of Nutrition - 2cr.

Year 2 Curriculum

Type
Completion Requirement

Year 2 Courses

The second-year curriculum will focus on the pathogenesis, pathophysiology, prevention, and diagnosis of the common diseases in domestic and exotic animal species. The Body in Disease course series will integrate systems pathology, clinical pathology, toxicology, bacteriology, virology, parasitology, diagnostic imaging, and pharmacology. In addition, students will take Anesthesiology, Theriogenology, and Population Health.

Complete ALL of the following Courses:

- VM7003 - Clinical Skills III - 2cr.
- VM7004 - Clinical Skills IV - 2cr.
- VM7013 - Professional Skills III - 2cr.
- VM7014 - Professional Skills IV - 2cr.
- VM7023 - Thinking Like a Veterinarian III - 1cr.
- VM7024 - Thinking Like a Veterinarian IV - 1cr.
- VM7033 - Exploration of Post-DVM Career Opportunities III - 0.5cr.
- VM7034 - Exploration of Post-DVM Career Opportunities IV - 0.5cr.
- VM7221 - The Body in Disease 1 - 7cr.
- VM7222 - The Body in Disease 2 - 6cr.
- VM7223 - The Body in Disease 3 - 5cr.
- VM7224 - The Body in Disease 4 - 3cr.
- VM7262 - Population Health - 4cr.
- VM7242 - Anesthesia - 2cr.
- VM7272 - Theriogenology I - 2cr.
- VM7625 - Clinical Zoological & Wildlife Medicine - 1cr.

Year 3 and 4 Curriculum

Type
Completion Requirement

Year 3 and 4 Courses

See the following:

- As a new program, the curriculum for years 3 and 4 is still under development.

Program Learning Outcomes

Program Learning Outcomes
https://www.usu.edu/oda/assessment/

Veterinary Science - Minor

Program Overview

College	Department	Program Level
College of Agriculture & Natural Resources	Animal, Dairy & Veterinary Sciences	Undergraduate

About this Degree

A minor can be valuable when associated with a major in agricultural education, agricultural economics, plant science, nutrition and food science, business, economics, computer science, rangeland resources, and in other disciplines where the animal industry has direct or indirect involvement.

The Veterinary Science Minor offers courses that cover basic animal anatomy and physiology, health and hygienic practices, clinical lab techniques, and topics related to current veterinary practices and issues. This minor is designed to enrich students' general knowledge in the field of veterinary science and provide hands-on learning experiences. This minor is appropriate for students who are interested in working in production agriculture, veterinary assistant positions, or students who would like to expand their knowledge in veterinary practices and methods. This minor is not sufficient for students hoping to apply to veterinary school.

Program Requirements

Total Credits Required In Program Coursework	Total Credits Required To Earn This Credential
14	14

Simple Requisites

Program Requirements

A minimum grade of *C* is required in all courses applied toward this minor. Students must maintain a 2.5 GPA in ADVS courses.

The following is a listing of courses for the minor emphasis area. A specific course may not be used to fulfill the requirements of more than one ADVS minor.

Section 1

Type
Completion Requirement

Requirements

Complete ALL of the following Courses:

- ADVS2200 - Anatomy and Physiology of Animals - 3cr.
- ADVS2205 - Anatomy and Physiology of Animals: Applied Laboratory - 1cr.
- ADVS3000 - Animal Health and Hygiene - 3cr.

Electives

7 elective ADVS credits with approval of the ADVS academic advisor.

Program Learning Outcomes

Program Learning Outcomes
https://caas.usu.edu/advs/assessment/

Veterinary Science - BS

Program Overview

College	Department	Program Level
College of Agriculture & Natural Resources	Animal, Dairy & Veterinary Sciences	Undergraduate

About this Degree

The Veterinary Science BS degree offers a strong program in pre-veterinary studies.

The degree is a nonterminal program designed primarily for those students who intend to apply to veterinary schools. However, graduates with a degree in veterinary science are well-equipped for a variety of career paths in the veterinary and animal healthcare sectors. In addition to preparing for acceptance into a Doctor of Veterinary Medicine (DVM) degree program, the Veterinary Science BS degree prepares students for post-baccalaureate research degrees such as the Master of Science (MS) and Doctor of Philosophy (PhD) in a variety of biological and healthcare-related emphases.

This program consists of three to four years of study, after which the student is eligible to apply to several colleges of veterinary medicine. The pre-veterinary program can be individually tailored to meet the entrance requirements of various veterinary colleges and optimize a student's chance of gaining acceptance. If a student is uncertain of his or her interests and aptitudes for veterinary medicine, the program is an excellent opportunity to gain experience and make career choices. Students should consult with the ADVS academic advisor to develop a program of study which best meets their needs and requirements.

- For more information about the Department of Animal, Dairy & Veterinary Sciences, see the website.
- If you are a new/entering student, we strongly recommend reviewing the suggested degree map.
- Admitted and current students must meet with an advisor (see below).
- Log on to Degree Works to check student-specific program progress.
- The highest math requirement for this degree is MATH1050 COLLEGE ALGEBRA (QL). Please also note that MATH1060 TRIGONOMETRY, MATH1100 CALCULUS TECHNIQUES (QL), or MATH1210 CALCULUS I (QL) is required as a prerequisite for PHYS2110 GENERAL PHYS LIFE SCI I.

Students with last names A-L: Contact Allie East at allie.east@usu.edu, 435-797-2194, or here for advising.
Students with last names M-Z: Contact Tami Spackman at tami.spackman@usu.edu, 435-797-2150, or here for advising.

Admission Requirements for this Program

- New freshmen: Admitted to USU in Good Standing
- Transfer students from other institutions or other programs at USU: 2.75 GPA

Program Requirements

Total Credits Required In Program Coursework	Total Credits Required To Earn This Credential
86	120

Simple Requisites

Program Requirements

1. Attain a grade point average of at least 2.50 across all ADVS courses.
2. Courses required for the major may *not* be taken for a *pass/fail* grade, except for courses that are only offered as pass/fail.
3. To graduate with a degree in this major, students must attain a GPA of at least 2.25 for all required courses for the major.

Students with last names A-L: Contact Allie East at allie.east@usu.edu, 435-797-2194, or here for advising.
Students with last names M-Z: Contact Tami Spackman at tami.spackman@usu.edu, 435-797-2150, or here for advising.

Requirements

Type

Completion Requirement

Required Courses (65-66 credits)

Complete ALL of the following Courses:

- ADVS1050 - Animal, Dairy and Veterinary Science Academic and Career Orientation I - 1cr.
- ADVS1060 - Animal, Dairy, and Veterinary Science Academic and Career Orientation II - 1cr.
- ADVS1110 - Introduction to Animal Science (BLS) - 3cr.
- ADVS2200 - Anatomy and Physiology of Animals - 3cr.
- ADVS2205 - Anatomy and Physiology of Animals: Applied Laboratory - 1cr.
- ADVS3000 - Animal Health and Hygiene - 3cr.
- ADVS3500 - Principles of Animal Nutrition - 3cr.
- ADVS4200 - Physiology of Reproduction and Lactation (CI) - 4cr.
- ADVS4920 - Undergraduate Seminar (CI) - 2cr.
- BIOL1610 - Biology I - 3cr.
- BIOL1615 - Biology I Laboratory - 1cr.
- BIOL1620 - Biology II (BLS) - 3cr.
- BIOL1625 - Biology II Laboratory - 1cr.
- BIOL3060 - Principles of Genetics (QI) - 3cr.
- BIOL3300 - General Microbiology - 3cr.
- CHEM1210 - Principles of Chemistry I - 4cr.
- CHEM1215 - Chemical Principles Laboratory I - 1cr.
- CHEM1220 - Principles of Chemistry II (BPS) - 4cr.
- CHEM1225 - Chemical Principles Laboratory II - 1cr.
- CHEM2310 - Organic Chemistry I - 4cr.
- CHEM2315 - Organic Chemistry Laboratory I - 1cr.
- CHEM3700 - Introductory Biochemistry - 3cr.
- MATH1050 - College Algebra (QL) - 4cr.
- PHYS2110 - General Physics—Life Sciences I - 4cr.
- STAT1040 - Introduction to Statistics (QL) - 3cr.
  OR STAT2000 - Statistical Methods (QI) - 4cr.

Production Course (3 credits)

Choose one production course:

Complete at least 1 of the following courses:

- ADVS2010 - Companion Animal Science and Management - 2cr.
  AND ADVS2015 - Companion Animal Science and Management Laboratory - 1cr.
- ADVS2080 - Beef Production Practices - 3cr.
- ADVS2090 - Sheep Production Practices - 3cr.
- ADVS2110 - Poultry Production and Management - 3cr.

- ADVS2120 - Swine Production and Management - 3cr.
- ADVS2130 - Dairy Cattle Production - 3cr.
- ADVS2190 - Horse Production Practices - 3cr.

NOTE:

1. ADVS2010 COMPANION ANIMAL SCI/MGT and ADVS2015 COMP ANIMAL SCI MGMT LAB together count as one course toward this requirement.

Directed Electives (18 credits)

Earn at least 18 credits from the following:

- ADVS2020 - Companion Animal Nursing - 2cr.
  AND ADVS2025 - Companion Animal Nursing Laboratory - 1cr.
- ADVS2160 - Introduction to Exotic Animals - 3cr.
- ADVS2500 - Feeds and Feeding - 3cr.
- ADVS3280 - Applied Animal Molecular & Cellular Biology - 4cr.
- ADVS3300 - Equine Lower Limb Form and Function - 3cr.
- ADVS3520 - Equine Nutrition and Exercise Physiology - 3cr.
- ADVS3920 - Ag Animal Extension Field Experience - 1cr.
- ADVS3930 - Sheep Day - 1cr.
- ADVS3980 - Beef Cattle Handling Practices - 1cr.
- ADVS4210 - Applied Reproduction and Artificial Insemination - 2cr.
- ADVS4220 - Applied Equine Reproduction I - 3cr.
- ADVS4250 - Internship in Animal Industry - 1cr.
- ADVS4310 - Animal Growth and Development - 3cr.
- ADVS4560 - Principles of Animal Genetics and Breeding (QI) - 3cr.
- ADVS4800 - Undergraduate Research or Creative Opportunity - 1cr.
- ADVS5020 - One Health: People, Animals, and the Environment - 3cr.
- ADVS5080 - Beef Cattle Management - 3cr.
- ADVS5090 - Sheep Management and Wool Technology - 3cr.
- ADVS5130 - Dairy Cattle Management - 3cr.
- ADVS5190 - Equine Business Management - 2cr.
- ADVS5500 - Applied Animal Nutrition - 2cr.
- ADVS5530 - Nutrient Metabolization & Utilization - 3cr.
- ADVS5620 - Advanced Animal Physiology - 3cr.
- ADVS5630 - Endocrinology (CI) - 3cr.
- ADVS5650 - Science Communication - 3cr.
- ADVS5710 - Conceptualizing the Human-Animal Bond - 3cr.
- ADVS5720 - Animal-Assisted Interventions and Special Populations - 3cr.
- ADVS5730 - Welfare and Behavior of Animals in Animal-Assisted Interventions - 3cr.
- BIOL3090 - Molecular, Cellular, and Developmental Biology - 3cr.
- BIOL4540 - Invertebrate Zoology - 3cr.
- BIOL5150 - Immunology - 3cr.
- BIOL5210 - Cell Biology - 3cr.
- BIOL5230 - Developmental Biology - 3cr.
- BIOL5240 - Virology - 3cr.
- BIOL5600 - Comparative Animal Physiology - 3cr.
- BUSN2320 - Small Business Management - CTE - 3cr.
- CHEM2320 - Organic Chemistry II - 4cr.
- HEP2500 - Health and Wellness - 2cr.
- PHYS2120 - General Physics - Life Sciences II (BPS) - 4cr.

NOTE:

1. 3 credits maximum of ADVS4250 INTERN ANIMAL INDUSTRY will count toward directed electives.
2. 3 credits maximum of ADVS4800 UNDERGRADUATE RESEARCH will count toward directed electives.
3. A maximum of 6 directed elective credits may be experiential learning courses (currently ADVS3920 AG ANIMAL FIELD EXP, ADVS3930 SHEEP DAY, and ADVS3980 BEEF CATTLE HANDLING).

Open Electives

Complete the following as needed:
Total elective credit is determined by General Education courses taken, degree type selected, additional credits earned, and any additional math or other prerequisite courses needed. Please consult your academic advisor for details.

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Bachelor's Degree)

Suggested Degree Maps

Degree Map Name
Suggested Degree Map - Veterinary Science, BS
Total Degree Map Credits
119 - 126
Degree Map Effective Catalog Year
2027 -

Degree Map Narrative

- Following is a sample four-year plan. Please note that student-specific plans may differ.
- Meet with an academic advisor to create a specific plan that best fits your academic needs.
- The student is ultimately responsible for knowing and completing all degree requirements.
- Make sure you meet the registration requirements for each class by clicking the course link and checking any prerequisites or corequisites.
- Consultation with an advisor may result in an altered plan customized for an individual student.
- Check your Degree Works for requirements and completion.

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	15	0

Requirement Select
- ADVS1050 - Animal, Dairy and Veterinary Science Academic and Career Orientation I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- ADVS1110 - Introduction to Animal Science (BLS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- BIOL1610 - Biology I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- BIOL1615 - Biology I Laboratory

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- ENGL1010 - Writing as Inquiry (CL1)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- MATH1050 - College Algebra (QL)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	15	0

Requirement Select
- ADVS1060 - Animal, Dairy, and Veterinary Science Academic and Career Orientation II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- BIOL1620 - Biology II (BLS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- BIOL1625 - Biology II Laboratory

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- MATH1060 - Trigonometry

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select
- Breadth American Institutions (BAI) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Breadth Humanities (BHU) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- General elective course (2 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- CMST1020 or CMST2110 are recommended to fulfill the BHU requirement (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	16	0

Requirement Select
- CHEM1210 - Principles of Chemistry I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- CHEM1215 - Chemical Principles Laboratory I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- STAT2000 - Statistical Methods (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- Breadth Creative Arts (BCA) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Production course (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- General elective course (1 credit) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	19 - 20	0

Requirement Select

- ADVS2200 - Anatomy and Physiology of Animals

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- ADVS2205 - Anatomy and Physiology of Animals: Applied Laboratory

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- CHEM1220 - Principles of Chemistry II (BPS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- CHEM1225 - Chemical Principles Laboratory II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- ENGL2010 - Research and Argument Across Perspectives (CL2)
  OR
- ENGL2020 - Professional Communication (CL2)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Breadth Social Sciences (BSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Fall	11 - 15	0

Requirement Select

- ADVS3000 - Animal Health and Hygiene

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- ADVS3500 - Principles of Animal Nutrition

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- CHEM2310 - Organic Chemistry I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- CHEM2315 - Organic Chemistry Laboratory I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- Depth Social Sciences (DSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	0 - 4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Spring	13 - 15	0

Requirement Select

- BIOL3060 - Principles of Genetics (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Depth Humanities and Creative Arts (DHA) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1 - 3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Directed elective course (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Directed elective course (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Directed elective course (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Fall	15	0

Requirement Select
- ADVS4200 - Physiology of Reproduction and Lactation (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- PHYS2110 - General Physics—Life Sciences I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- Directed elective course (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Directed elective course (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- General elective course (1 credit) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Spring	15	0

Requirement Select

- ADVS4920 - Undergraduate Seminar (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select

- BIOL3300 - General Microbiology

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- CHEM3700 - Introductory Biochemistry

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Directed elective course (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- General elective course (3 credit) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Program Learning Outcomes

Program Learning Outcomes

https://qanr.usu.edu/advs/assessment/

Veterinary Technology - AS

Program Overview

College
College of Agriculture & Natural Resources

Department
Animal, Dairy & Veterinary Sciences

Program Level
Undergraduate

About this Degree

The Veterinary Technology Associate of Science program at Utah State University offers a hybrid, distributed learning model, combining online lectures with hands-on lab experiences at multiple campuses. Designed to meet Utah's workforce demands, this program prepares students for AVMA certification and careers in animal care. Graduates can enter the workforce as veterinary technicians or continue their education in bioveterinary science or advanced degrees in veterinary medicine or veterinary public health. The program emphasizes accessibility and stackability, allowing students to build on existing credentials and pursue diverse career opportunities in veterinary and animal health fields.

Admission Requirements for this Program

In addition to admission to Utah State University, applicants must submit:

- Professional resume (maximum two pages)
- Completed Veterinary Technology Career Exploration Form documenting animal and veterinary exposure
- Reflective statement (maximum 250 words) describing insights gained from veterinary observation experience
- Documentation of a minimum of 20 hours of veterinary or animal clinical observation completed within the past two years. Documentation must include the name and contact information of the supervising veterinarian or facility.

Applicants may be contacted to verify reported experience.

Standardized test scores (ACT/SAT) are not required for program admission but are required for scholarship eligibility.

Program Requirements

Total Credits Required In Program Coursework
49

Total Credits Required To Earn This Credential
60-61

Simple Requisites

Program Requirements

1. Attain a grade point average of at least 2.50 across all ADVS courses.
2. To graduate with a degree in this major, students must attain a GPA of at least 2.25 for all required courses for the major.

Required Courses (49 credits)

Type
Completion Requirement

Required

Complete ALL of the following Courses:

- ADVS2000 - Introduction to Veterinary Technology - 1cr.
- ADVS2010 - Companion Animal Science and Management - 2cr.
- ADVS2015 - Companion Animal Science and Management Laboratory - 1cr.
- ADVS2020 - Companion Animal Nursing - 2cr.
- ADVS2025 - Companion Animal Nursing Laboratory - 1cr.
- ADVS2030 - Exotic and Laboratory Animal Health and Care - 1cr.
- ADVS2035 - Exotic and Laboratory Animal Health and Care Laboratory - 1cr.
- ADVS2040 - Veterinary Critical Care Nursing - 2cr.
- ADVS2045 - Veterinary Critical Care Nursing Laboratory - 1cr.
- ADVS2050 - Veterinary Nurse Specialty - 2cr.
- ADVS2055 - Veterinary Nursing Specialty Laboratory - 1cr.
- ADVS2060 - Clinical Laboratory Techniques - 1cr.
- ADVS2065 - Clinical Laboratory Techniques Laboratory - 2cr.
- ADVS2070 - Food Animal and Equine Care and Nursing - 3cr.
- ADVS2075 - Food Animal and Equine Care and Nursing Laboratory - 1cr.
- ADVS2140 - Pharmacology and Toxicology for Veterinary Technicians - 1cr.
- ADVS2200 - Anatomy and Physiology of Animals - 3cr.
- ADVS2203 - Anatomy and Physiology of Animals: Exploratory Laboratory - 1cr.
  OR ADVS2205 - Anatomy and Physiology of Animals: Applied Laboratory - 1cr.
- ADVS2250 - Cooperative Work Experience - 1cr.
- BIOL1010 - Biology and the Citizen (BLS) - 3cr.
- CHEM1010 - Introduction to Chemistry (BPS) - 3cr.
- ENGL1010 - Writing as Inquiry (CL1) - 3cr.
- MATH1050 - College Algebra (QL) - 4cr.
- ENGL2020 - Professional Communication (CL2) - 3cr.

- **A minimum of 6 credits is required in ADVS 2250.**

Other General Education Courses

Additional credit requirement

The remaining courses should be selected to meet General Education requirements for Breadth Creative Arts (BCA), Breadth Humanities (BHU), Breadth Social Sciences (BSS), Breadth American Institutions (BAI).

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Associate Degrees)

Suggested Degree Maps

Degree Map Name
Suggested Degree Map 2 - Veterinary Technology, AS
Total Degree Map Credits
61 - 62
Degree Map Effective Catalog Year
2027 -

Degree Map Narrative

For students enrolling in the Veterinary Technology AS at USU as first-year undergraduates without the USHE Veterinary Assistant Certificate

- Following is a sample plan. Please note that student-specific plans may differ.

- Meet with an academic advisor to create a specific plan that best fits your academic needs.
- The student is ultimately responsible for knowing and completing all degree requirements.
- Make sure you meet the registration requirements for each class by clicking the course link and checking any prerequisites or corequisites.
- Consultation with an advisor may result in an altered plan customized for an individual student.
- Check your Degree Works for requirements and completion.

This model degree plan does not yet include the new general education curriculum planned for phased launch fall 2026. However, the total number of general education credits needed is expected to match the number of credits in this plan.

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	14	0

Requirement Select
- ADVS2000 - Introduction to Veterinary Technology

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- ADVS2010 - Companion Animal Science and Management

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select
- ADVS2015 - Companion Animal Science and Management Laboratory

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- BIOL1010 - Biology and the Citizen (BLS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- ENGL1010 - Writing as Inquiry (CL1)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- MATH1050 - College Algebra (QL)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	16	0

Requirement Select
- ADVS2200 - Anatomy and Physiology of Animals

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- ADVS2203 - Anatomy and Physiology of Animals: Exploratory Laboratory

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- ADVS2020 - Companion Animal Nursing

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select

- ADVS2025 - Companion Animal Nursing Laboratory

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- ADVS2060 - Clinical Laboratory Techniques

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- ADVS2065 - Clinical Laboratory Techniques Laboratory

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select

- CHEM1010 - Introduction to Chemistry (BPS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- ENGL2020 - Professional Communication (CL2)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	12	0

Requirement Select

- ADVS2030 - Exotic and Laboratory Animal Health and Care

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- ADVS2035 - Exotic and Laboratory Animal Health and Care Laboratory

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- ADVS2040 - Veterinary Critical Care Nursing

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select

- ADVS2045 - Veterinary Critical Care Nursing Laboratory

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- ADVS2140 - Pharmacology and Toxicology for Veterinary Technicians

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- Breadth Humanities (BHU) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Breadth American Institutions (BAI) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	13 - 14	0

Requirement Select

- ADVS2050 - Veterinary Nurse Specialty

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select

- ADVS2055 - Veterinary Nursing Specialty Laboratory

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- ADVS2070 - Food Animal and Equine Care and Nursing

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- ADVS2075 - Food Animal and Equine Care and Nursing Laboratory

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- Breadth Social Sciences (BSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Breadth Creative Arts (BCA) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Summer	6	0

Requirement Select
- ADVS2250 - Cooperative Work Experience

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	1 - 12
Clinical	-
Criticality	No

Total General Education Credits	Total Major Credits
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Degree Map Name
Suggested Degree Map 1 - Veterinary Technology, AS
Total Degree Map Credits
43 - 44
Degree Map Effective Catalog Year
2027 -

Degree Map Narrative

For students enrolling in the Veterinary Technology AS at USU with articulation of 18 USU credits from the USHE Veterinary Assistant Certificate

- Following is a sample plan. Please note that student-specific plans may differ.
- Meet with an academic advisor to create a specific plan that best fits your academic needs.
- The student is ultimately responsible for knowing and completing all degree requirements.
- Make sure you meet the registration requirements for each class by clicking the course link and checking any prerequisites or corequisites.
- Consultation with an advisor may result in an altered plan customized for an individual student.
- Check your Degree Works for requirements and completion.

This model degree plan does not yet include the new general education curriculum planned for phased launch fall 2026. However, the total number of general education credits needed is expected to match the number of credits in this plan.

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	15	0

Requirement Select
- ADVS2030 - Exotic and Laboratory Animal Health and Care

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- ADVS2035 - Exotic and Laboratory Animal Health and Care Laboratory

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- ADVS2040 - Veterinary Critical Care Nursing

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select

- ADVS2045 - Veterinary Critical Care Nursing Laboratory

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- ADVS2140 - Pharmacology and Toxicology for Veterinary Technicians

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- BIOL1010 - Biology and the Citizen (BLS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- CHEM1010 - Introduction to Chemistry (BPS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- ENGL1010 - Writing as Inquiry (CL1)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	13 - 14	0

Requirement Select

- ADVS2050 - Veterinary Nurse Specialty

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	2
Clinical	-
Criticality	No

Requirement Select
- ADVS2055 - Veterinary Nursing Specialty Laboratory

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- ADVS2070 - Food Animal and Equine Care and Nursing

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- ADVS2075 - Food Animal and Equine Care and Nursing Laboratory

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- Breadth Social Sciences (BSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Breadth Humanities (BHU) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Summer	2	0

Requirement Select
- ADVS2250 - Cooperative Work Experience

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	1 - 12
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	13	0

Requirement Select
- ENGL2020 - Professional Communication (CL2)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- MATH1050 - College Algebra (QL)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- Breadth American Institutions (BAI) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Breadth Creative Arts (BCA) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits
0

Total Major Credits
0

Total Minor Credits
0

Total Elective Credits
0

Program Learning Outcomes

Program Learning Outcomes

https://qanr.usu.edu/advs/assessment/

Watershed Science - Minor

Program Overview

College
College of Agriculture & Natural Resources

Department
Watershed Sciences

Program Level
Undergraduate

Program Requirements

Total Credits Required In Program Coursework
16

Total Credits Required To Earn This Credential
16

Simple Requisites

Program Requirements

All courses required for the Watershed Science minor must be taken on an *A-B-C-D-F* basis. A grade of *C-* or better is required for all WATS courses used to meet requirements for this minor.

Section 1

Type
Completion Requirement

A. Required Courses (10 credits)

Complete ALL of the following Courses:

- WATS3700 - Fundamentals of Watershed Science (CI) - 3cr.
- WATS5490 - Small Watershed Hydrology (QI) - 4cr.
- WATS5530 - Water Quality and Pollution - 3cr.

B. Electives (6 credits)

Select two courses from the following:

Complete at least 2 of the following courses:

- GEO3600 - Geomorphology - 4cr.
- WATS5305 - Ecology and Restoration of Plants - 3cr.
- WATS5500 - Limnology: Ecology of Inland Waters - 3cr.
- Other courses within Watershed Sciences as approved by Minor advisor

Program Learning Outcomes

Program Learning Outcomes

https://qcnr.usu.edu/wats/assessment/undergraduate

Watershed Science - MS

Program Overview

College
College of Agriculture & Natural Resources

Department
Watershed Sciences

Program Level
Graduate

About this Degree

Program Contacts

Department Head: Dennis Newell, (435) 797-0479, dennis.newell@usu.edu

Graduate Program Coordinator: Daniel Carolan, (435) 797-2463, daniel.carolan@usu.edu

Program Description

Graduates are prepared to work as hydrologists, wetland specialists, and watershed managers for federal and state agencies.

Because USU's watershed science program is designated as a Western Regional Graduate Program, students from participating western states qualify for in-state tuition. For more information, visit http://wrgp.wiche.edu.

Students in the program study water-related physical processes, including climate, surface and ground water, river formation, soil sciences, and water chemistry. This discipline focuses on protecting aquatic systems and includes coursework in hydrology, geomorphology, stream restoration, water pollution, climate change, and aquatic habitats.

Each student has an individualized plan of study created for them by their graduate committee. Students are able to take courses in other departments on campus, including civil and environmental engineering; plants, soils, and climate; and geology. This program encourages students to gain a broad-based education in areas related to watershed systems and water resource use.

Specializations are available in Climate Adaptation Science, Geomorphology, and Earth Surface Processes as part of this degree. For additional degree information, see the program page or the department website.

Admission Requirements for this Program

Applying for graduate study in Watershed Sciences is a two-step process. We admit applicants to begin graduate study during Fall, Spring, and Summer Semesters. Applications should be submitted by the following deadlines.

- Summer: March 15
- Fall: June 15
- Spring: October 15

Preference is given to applicants who apply before January 10. Fellowships for non-University funds, such as Quinney Fellowships, have different deadlines. Please see individual applications for deadlines.

1. Gain a faculty sponsor and funding

- Contact a faculty member you would like to work with directly. Students cannot be admitted to the program without first having a faculty sponsor and funding provided by their sponsor or an outside agency. In your email please explain why you are interested in working with your prospective mentor and discuss your qualifications for graduate study, including any undergraduate research. Be sure to also include your GPA. (Please note that the requirement to take the GRE has been removed.) To choose a prospective mentor, consult the list of faculty who have current active graduate programs.

2. Apply through the School of Graduate Studies

- Once you have secured a faculty sponsor and funding, you will be invited to officially apply through the School of Graduate Studies, send official transcripts, and pay the application fee.

Admission Requirements:

- GPA of 3.2 or higher
- Sponsorship by a faculty member (gaining a sponsorship usually requires correspondence directly with the faculty)
- A formal application
- A detailed statement outlining your objectives in graduate education, your future goals, and your specific area of research interest.

Program Requirements

Total Credits Required In Program Coursework
30

Total Credits Required To Earn This Credential
30

Simple Requisites

Program Requirements

Master's Plan A or Master's Plan B routes

Master's plan A degrees require a thesis and 6-15 thesis credits.

- Your plan A thesis should contribute to your field by presenting your original research or a new perspective of existing knowledge. You'll choose the problem or subject to focus on with your major professor by the end of your second semester of graduate study. You should perform thesis research during the semester(s) you are registered for thesis credit and when faculty support is available. Theses must follow USU publication formatting standards.

Master's plan B degrees require a final paper/project and 2-3 thesis credits.

- The plan B paper is usually a literature review based on inquiry, systematic research and analytic critique of your findings. Your conclusions should enhance knowledge in your discipline. Although perhaps less intensive or original than a master's thesis, a plan B paper must follow the standard USU thesis/dissertation format and reflect equivalent scholarship standards. You will defend your plan B paper, but it will not be reviewed by your assistant dean or signed by the Vice Provost for graduate studies. Like a thesis, your plan B paper will be submitted to the Merrill-Cazier Library for internal publication.

Department Requirements

- Completion of required trainings, including Responsible Conduct of Research training
- Present at the department Graduate Research Symposium
- Thesis/paper/project defense
- Submission of thesis/paper to the School of Graduate Studies and library for review and approval

School of Graduate Studies (SGS) Requirements

Completion of SGS-specific Forms:

- Supervisory Committee Approval
- Program of Study
- Master's Thesis Proposal/Project Approval
- Appointment for Examination
- Record of Examination
- Format & Style Form

- Authorship & Copyright Form
- Title Page Form
- Application for Graduation

Degree Verification: A bachelor's degree from an accredited U.S. college or university or a similarly recognized international university is required for admission to and completion of a graduate program. An official transcript must be sent directly to the School of Graduate Studies.

Overall Graduate GPA (≥ 3.0) and No Grades of C- or Lower: Graduate students must maintain at least a 3.0 GPA for degree-program courses. Grades of C- or lower cannot be applied toward a graduate degree.

Course Number Acceptability: A master's Program of Study may include no more than 12 semester credits of coursework below 6000-level. The following types of credits are not acceptable toward the degree: foreign language courses (unless included in an approved Program of Study), continuing graduate advisement, individual home study, military science, and any courses numbered below 5000.

Matriculation Start Semester: Master's degrees must be completed within six years of entering the program. Additional time may be requested by the advisor and submitted to the Vice Provost of Graduate Studies.

Coursework Validity: Coursework older than eight years at the time of degree completion may not be used unless it is formally revalidated.

Master's Plan A - 30 required credit hours (minimum), including:

Type
Completion Requirement

1 credit of WATS 6260 - Graduate Induction Course

Complete ALL of the following Courses:

- WATS6260 - Watershed Sciences Graduate Student Induction Course - 1cr.

6-15 credits of WATS 6970 - Thesis Research

Earn at least 6 credits from the following:

- WATS6970 - Thesis Research - 1cr.

Remaining Credits

Remaining credits to reach 30 credit hours (minimum)
Fulfilled via:

- Graduate level course work (6000 and above)
- No more than 12 credits of 5000-5990 level courses

Master's Plan B - 30 required credit hours (minimum), including:

Type
Completion Requirement

1 credit of WATS 6260 - Graduate Induction Course

Complete ALL of the following Courses:

- WATS6260 - Watershed Sciences Graduate Student Induction Course - 1cr.

2-3 credits of WATS 6970 - Thesis Research

Earn at least 2 credits from the following:

- WATS6970 - Thesis Research - 1cr.

Remaining Credits

Remaining credits to reach 30 credit hours (minimum)
Fulfilled via:

- Graduate level course work (6000 and above)
- No more than 12 credits of 5000-5990 level courses

Program Learning Outcomes

Program Learning Outcomes

https://qcnr.usu.edu/wats/assessment/graduate

Watershed Science - PhD

Program Overview

College
College of Agriculture & Natural Resources

Department
Watershed Sciences

Program Level
Graduate

About this Degree

Program Contacts

Department Head: Dennis Newell, (435) 797-0479, dennis.newell@usu.edu

Graduate Program Coordinator: Daniel Carolan, (435) 797-2463, daniel.carolan@usu.edu

Program Description

Graduates are prepared to work as hydrologists, wetland specialists, and watershed managers for federal and state agencies.

Because USU's watershed science program is designated as a Western Regional Graduate Program, students from participating western states qualify for in-state tuition. For more information, visit http://wrgp.wiche.edu.

Students in the program study water-related physical processes, including climate, surface and ground water, river formation, soil sciences, and water chemistry. This discipline focuses on protecting aquatic systems and includes coursework in hydrology, geomorphology, stream restoration, water pollution, climate change, and aquatic habitats.

Each student has an individualized plan of study created for them by their graduate committee. Students are able to take courses in other departments on campus, including civil and environmental engineering; plants, soils, and climate; and geology. This program encourages students to gain a broad-based education in areas related to watershed systems and water resource use.

Specializations are available in Climate Adaptation Science, Geomorphology, and Earth Surface Processes as part of this degree. For additional degree information, see the program page or the ?dept? website.

Admission Requirements for this Program

Applying for graduate study in Watershed Sciences is a two-step process. We admit applicants to begin graduate study during Fall, Spring, and Summer Semesters. Applications should be submitted by the following deadlines.

- Summer: March 15
- Fall: June 15
- Spring: October 15

Preference is given to applicants who apply before January 10. Fellowships for non-University funds, such as Quinney Fellowships, have different deadlines. Please see individual applications for deadlines.

1. Gain a faculty sponsor and funding

- Contact a faculty member you would like to work with directly. Students cannot be admitted to the program without first having a faculty sponsor and funding provided by their sponsor or an outside agency. In your email please explain why you are interested in working with your prospective mentor and discuss your qualifications for graduate study, including any undergraduate research. Be sure to also include your GPA. (Please note that the requirement to take the GRE has been removed.) To choose a prospective mentor, consult the list of faculty who have current active graduate programs.

2. Apply through the School of Graduate Studies

- Once you have secured a faculty sponsor and funding, you will be invited to officially apply through the School of Graduate Studies, send official transcripts, and pay the application fee.

Admission Requirements:

- GPA of 3.2 or higher
- Sponsorship by a faculty member (gaining a sponsorship usually requires correspondence directly with the faculty)
- A formal application
- A detailed statement outlining your objectives in graduate education, your future goals, and your specific area of research interest.

Program Requirements

Total Credits Required In Program Coursework
30-60

Total Credits Required To Earn This Credential
30-60

Simple Requisites

Program Requirements

Department Requirements

- Completion of required trainings, including Responsible Conduct of Research training
- Present at the department Graduate Research Symposium and give biennial update presentations
- Dissertation defense
- Submission of dissertation to the School of Graduate Studies and library for review and approval

School of Graduate Studies (SGS) Requirements

Completion of SGS-specific Forms:

- Supervisory committee approval form
- Program of Study form
- Application for Candidacy
- Appointment for Examination
- Record of Examination
- Format & Style Form
- Authorship & Copyright Form
- Title Page Form
- Application for Graduation

Degree Verification: A bachelor's degree from an accredited U.S. college or university or a similarly recognized international university is required for admission to and completion of a graduate program. An official transcript must be sent directly to the School of Graduate Studies.

Overall Graduate GPA (≥ 3.0) and No Grades of C- or Lower: Graduate students must maintain at least a 3.0 GPA for degree-program courses. Grades of C- or lower cannot be applied toward a graduate degree.

Course Number Acceptability: A PhD Program of Study may include no more than 12 semester credits of coursework below 6000-level. The following types of credits are not acceptable toward the degree: foreign language courses (unless included in an approved Program of Study), continuing graduate advisement, individual home study, military science, and any courses numbered below 5000.

Matriculation Start Semester: PhD degrees must be completed within eight years of entering the program. Additional time may be requested by the advisor and submitted to the Vice Provost of Graduate Studies.

Coursework Validity: Coursework older than eight years at the time of degree completion may not be used unless it is formally revalidated.

• Ph.D. (post-master's) - 30 required credit hours (minimum), including:

Type
Completion Requirement

1 credit of WATS 6260 - Graduate Induction Course

Complete ALL of the following Courses:

- WATS6260 - Watershed Sciences Graduate Student Induction Course - 1cr.

12 credits of WATS 7970 - Dissertation Research

Earn at least 12 credits from the following:

- WATS7970 - Dissertation Research - 1cr.

Remaining Credits

Remaining credits to reach 30 credit hours (minimum)
Fulfilled via:

- Graduate level course work (6000 and above)
- No more than 12 credits of 5000-5990 level courses

• Ph.D. (post-baccalaureate) - 60 required credit hours (minimum) including:

Type
Completion Requirement

1 credit of WATS 6260 - Graduate Induction Course

Complete ALL of the following Courses:

- WATS6260 - Watershed Sciences Graduate Student Induction Course - 1cr.

18 credits of WATS 7970 - Dissertation Research

Earn at least 18 credits from the following:

- WATS7970 - Dissertation Research - 1cr.

Remaining Credits

Remaining credits to reach 60 credit hours (minimum)
Fulfilled via:

- Graduate level course work (6000 and above)
- No more than 12 credits of 5000-5990 level courses

Program Learning Outcomes

Program Learning Outcomes

https://qcnr.usu.edu/wats/assessment/graduate

Web Business - Technical Certificate

Program Overview

College
College of Agriculture & Natural Resources

Department
Technology, Design & Technical Ed

Program Level
Undergraduate

About this Degree

Federal Gainful Employment Information

What if a student could learn how to build, manage, and grow a successful online business so that they can turn their digital ideas into a profitable venture?

Students will gain experience in e-commerce, digital marketing, website management, and online customer engagement.

Program Requirements

Total Credits Required In Program Coursework
17

Total Credits Required To Earn This Credential
17

Simple Requisites

Program Requirements

Web Business Course Requirements

Type
Completion Requirement

Technical Education Required Courses (17 credits)

Complete ALL of the following Courses:

- TEBP1500 - Business English - 1cr.
  OR BUSN2200 - Professional Communications - 3cr.
- TEBP1550 - Business Communications - 3cr.
  OR BUSN2200 - Professional Communications - 3cr.
- TEBP1650 - Management Principles - 2cr.
  OR BUSN1010 - Business Principles (BSS) - 3cr.
- TEBP1700 - Marketing I - 3cr.
  OR BUSN2201 - Digital Marketing Concepts - 3cr.
- TEIT1050 - Career and Workplace Relations - 1cr.
  OR BCIS1050 - Career and Workplace Relations - 1cr.
- TEIT1100 - Introduction to Networking - 1cr.
  OR BCIS1100 - Introduction to Networking - 1cr.
- TEIT1310 - Website Design - 3cr.
  OR BCIS1300 - Website Design - 3cr.
- TEIT2500 - Web Business - 3cr.
  OR BCIS2500 - Web Business - 3cr.

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Undergraduate Academic or Technical Certificates)

Program Learning Outcomes

Program Learning Outcomes

https://caas.usu.edu/tdte/assessment/

Web Development - Minor

Program Overview

College
Jon M. Huntsman School of Business

Department
Data Analytics & Information Systems

Program Level
Undergraduate

About this Degree
The foundational role of the web across all businesses and organizations provides an advantage for college graduates from *any* background or program who have basic web programming and design skills. The Web Development minor is an option that can significantly enhance any resume and complement any major, providing students with hands-on practical experience in HTML, CSS, Python, and JavaScript, along with web/database interfaces, web apps, application programming interfaces (APIs), and other web-related tools. These skills are consistently identified among the most critical and marketable in job postings related to all industries and professions.

Program Requirements

Total Credits Required In Program Coursework
14

Total Credits Required To Earn This Credential
14

Simple Requisites

Program Requirements

No prior technical experience is needed for this minor, which includes 15 total credits (12 required and 3 elective). Individual substitutions for course requirements may be considered and approved on a case-by-case basis by the Data Analytics and Information Systems Department.

Section 1

Type
Completion Requirement

Required Courses (12 credits)

Complete ALL of the following Courses:

- IS5700 - User Interface/User Experience Web Design - 3cr.
- IS5750 - JavaScript for Web Development - 2cr.
- IS5770 - Advanced Server-Side Web Application Development - 3cr.
- IS5780 - Advanced Client-Side Web Application Development - 3cr.

Section 2

Type
Completion Requirement

Elective (3 credits)

Complete at least 1 of the following courses:

- IS5200 - Introduction to Cloud Computing - 3cr.
- DATA5300 - Database Management - 3cr.
- DATA5400 - Data Visualization with Tableau (CI) - 3cr.
- DATA5500 - Python Programming for Analytics - 3cr.

Program Learning Outcomes

Program Learning Outcomes
https://huntsman.usu.edu/assessment/assessment-plan

Web Development - Post-Bachelor's Certificate

Program Overview

College
Jon M. Huntsman School of Business

Department
Data Analytics & Information Systems

Program Level
Graduate

About this Degree

The foundational role of the web across all businesses and organizations provides an advantage for individuals from *any* background or program who have basic web programming and design skills. The Web Development Certificate is an option that can significantly enhance any resume and complement any prior degree, providing hands-on practical experience in HTML, CSS, Python, and JavaScript, along with web/database interfaces, web apps, application programming interfaces (APIs), and other web-related tools. These skills are consistently identified among the most critical and marketable in job postings related to all industries and professions, and the Web Development Certificate program allows students to build them in as little as one to two semesters.

Careers in information systems and data technologies are multidisciplinary and require teamwork, critical thinking, and communication. Well-qualified applicants are encouraged to apply from *any* background in which they have developed and applied these skills. Potential applicants with little or no prior technical experience may first consider the Data Technologies - Post-Bachelor's Certificate program.

Note that the Web Development Certificate can be completed on its own, or it can be stacked with any one of the other certificates offered by the Department of Data Analytics & Information Systems to meet the requirements of the Master of Management Information Systems - MMIS degree program.

Data Analytics and Information Systems Faculty

Courses in the Web Development Certificate program are taught by faculty in the Department of Data Analytics and Information Systems who have years of corporate and academic experience. Our instructors are experts in the most cutting-edge tools and strategies for data and tech.

https://huntsman.usu.edu/dais/directory

Admission Requirements for this Program

To begin the Web Development Certificate, applicants can submit an application form, along with the application fee and all undergraduate transcripts through the USU School of Graduate Studies at https://gradschool.usu.edu/apply/. TOEFL or IELTS scores are required for international students whose native language is not English. International students with a prior degree from a university in an English-speaking country are exempt from the TOEFL or IELTS exam. The School of Graduate Studies requires a minimum 3.0 GPA for the last 60 credits of prior undergraduate study.

Program Requirements

Total Credits Required In Program Coursework
14

Total Credits Required To Earn This Credential
14

Simple Requisites

Program Requirements

The certificate requires 12 total credits, as outlined within the curriculum below. Individual substitutions for course requirements may be considered and approved on a case-by-case basis by the Data Analytics and Information Systems Department.

Courses used to fulfill requirements for this certificate may not include those previously completed to meet the requirements of any other certificate or program, and cannot be used to complete any other certificate or program.

Courses remain valid for 6 years for potential inclusion in a future master's degree program (MMIS or MDATA).

Certificate students who opt to earn an MMIS or MDATA degree will be granted a waiver for reduced fees for their future master's application. Please contact our office for details.

Web Development Post-Baccalaureate Certificate Requirements (12 credits)

Type
Completion Requirement

Required Courses

This 11-credit core comprises the requirements for the Web Development Post-Baccalaureate Certificate. This certificate can be completed independently or stacked with another approved 12-credit certificate and 4-6 additional capstone credits to earn the MMIS degree.

Complete ALL of the following Courses:

- IS6700 - User Interface/User Experience Web Design - 3cr.
- IS6750 - JavaScript for Web Development - 2cr.
- IS6770 - Advanced Server-Side Web Application Development - 3cr.
- IS6780 - Advanced Client-Side Web Application Development - 3cr.

Elective Course

Choose one elective course

Complete at least 1 of the following courses:

- IS6100 - Agile Tech Design and Development - 3cr.
- DATA6510 - Advanced Python Programming for Analytics - 3cr.
- DATA6570 - Building Software With Artificial Intelligence - 3cr.

Program Learning Outcomes

Program Learning Outcomes

https://huntsman.usu.edu/assessment/assessment-plan

Welding Technology - Technical Certificate

Program Overview

College
College of Agriculture & Natural Resources

Department
Technology, Design & Technical Ed

Program Level
Undergraduate

About this Degree

The welding technology program offers unique opportunities for students interested in the field of welding to receive excellent instruction in hands-on welding skills, welding theory and scientific concepts, and to explore additional careers in the field of welding including inspection, engineering, and project management. In-depth instruction is provided in all common arc welding and cutting processes, such as: Gas Metal Arc Welding (GMAW), Flux-cored Arc Welding (FCAW), Gas Tungsten Arc Welding (GTAW), Shielded Metal Arc Welding (SMAW), Oxy-fuel Cutting (OFC), and Plasma Arc Cutting (PAC). Additional welding processes are explored and introduced including Submerged-Arc Welding (SAW), Resistance Spot Welding (RSW), Stud Welding (SW), Brazing, Soldering, and Carbon Arc Cutting (CAC-A). Print reading, weld inspection, welding metallurgy, and structural fabrication courses are also offered.

Successful students may work as welders locally or nationally, manage welding/ fabrication shops, start their own welding businesses, explore careers in weld inspection, or seek baccalaureate and/or graduate degrees after graduation with welding as a program area of study.

Admission Requirements for this Program

1. New freshman admitted to USU-Eastern in good standing qualify for admission to this program

2. Transfer students from other institutions need a 2.5 GPA for admission to this major

3. Students transferring from other USU-Eastern majors need an overall GPA of 2.5 for admission to this major

5. Visual acuity requirements: 20/40 vision and Jaeger J-2 at 12 inches, with or without corrective lenses. If corrective lenses are required to attain this level of visual acuity, the corrective lenses must be worn during class periods.

Program Requirements

Total Credits Required In Program Coursework
30

Total Credits Required To Earn This Credential
30

Simple Requisites

Program Requirements

No welding courses below a C- may be applied toward meeting graduation requirements

Welding Technology - Technical Certificate Course Requirements

Type
Completion Requirement

Foundational Courses - 26 Credits

A higher QL math course may substitute ELET 1110/MATH 1020. See advisor for details.

Complete ALL of the following Courses:

- TEWT1000 - Introduction to Welding and Cutting - 2cr.
- TEWT1111 - Shielded Metal Arc Welding (SMAW) I - 2cr.
- TEWT1140 - Shielded Metal Arc Welding (SMAW) Theory - 2cr.
- TEWT1112 - Shielded Metal Arc Welding (SMAW) II - 2cr.
- TEWT1211 - Gas Tungsten Arc Welding (GTAW) I - 2cr.
- TEWT1240 - Gas Tungsten Arc Welding (GTAW) Theory - 2cr.
- TEWT1212 - Gas Tungsten Arc Welding (GTAW) II - 2cr.
- TEWT1311 - Gas Metal Arc Welding (GMAW) I - 2cr.
- TEWT1340 - Gas Metal Arc Welding (GMAW) and Flux-Cored Arc Welding (FCAW) Theory - 2cr.
- TEWT1411 - Flux Cored Arc Welding (FCAW) I - 2cr.
- WELD2400 - Print Reading for Welders - 3cr.
- ELET1110 - Technical Mathematics - 3cr.
  OR MATH1020 - Trade Mathematics - 3cr.

Supplemental Courses - 4 Credits

Earn at least 4 credits from the following:

- TEDR1010 - Advanced Technical Drafting - 3cr.
- TEDR1200 - Parametric Solid Modeling - 3cr.
- TEDR2200 - Advanced Solid Modeling - 3cr.
- TEHE1400 - Forklift Operation - 1cr.
- TEBP1000 - Basic Financial Principles - 3cr.
- TEBP1500 - Business English - 1cr.
- TEBP1550 - Business Communications - 3cr.
- TEBP1650 - Management Principles - 2cr.
- TEBP2000 - Introduction to Entrepreneurship - 3cr.
- TEMT1600 - Introduction to Manual Machining - 3cr.
- TEWT1650 - Practical Fabrication and Layout - 5cr.
- TEWT1815 - Welding Sculpture - 3cr.
- TEWT1730 - Professional Vocational Leadership - 2cr.
- WELD1110 - Advanced Shielded Metal Arc Welding (SMAW) - 5cr.
- WELD1130 - Advanced Gas Metal Arc Welding (GMAW) and Flux Cored Arc Welding (FCAW) - 5cr.
- WELD1140 - Related Welding Processes - 5cr.
- WELD1160 - Advanced Gas Tungsten Arc Welding (GTAW) - 5cr.
- WELD1170 - Advanced Pipe Welding - 7cr.
- WELD2500 - Weld Inspection - 3cr.
- WELD2600 - Metallurgy - 3cr.

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Undergraduate Academic or Technical Certificates)

Program Learning Outcomes

Program Learning Outcomes

The student assessment plan focuses on applying welding safety practices at all times and effectively using measurement systems, written instructions, and technical drawings to complete welding projects. Students will demonstrate a range of welding techniques—including GMAW, FCAW, GTAW, and SMAW—to produce high-quality welds on different types of metals. They will also develop proficiency in using thermal cutting equipment to make precise cuts on both ferrous and non-ferrous metals. Students will learn to identify and select the correct welding and cutting processes for specific applications.

Wildlife Ecology and Management - BS

Program Overview

College
College of Agriculture & Natural Resources

Department
Wildland Resources

Program Level
Undergraduate

About this Degree

Wildlife ecology and management includes the analysis, management, conservation, and restoration of forests, rangeland ecosystems, and their associated wildlife populations. The wildlife ecology and management major at USU emphasizes the ecology, behavior, conservation, and management of wildlife populations and communities in terrestrial ecosystems.

- For more information about Wildlife Ecology and Management, see the website.
- Admitted and current students must meet with an academic advisor for help with semester by semester planning, connections to co-curricular experiences, understanding of USU policies, and accessing USU resources. A faculty advisor will be appointed for each wildlife student (contact the academic advisor in the Academic Services Center for more information). Current students should also meet with a faculty advisor for career and graduate school information.
- Log on to Degree Works to check student-specific program progress.
- The highest math requirement for this degree is STAT3000 STATISTICS FOR SCIENTISTS (QI)

Admission Requirements for this Program

- New freshmen: Admitted to USU in Good Standing
- Transfer students from other institutions or other programs at USU: 2.5 GPA

Program Requirements

Total Credits Required In Program Coursework
81

Total Credits Required To Earn This Credential
120

Simple Requisites

Program Requirements

All courses required for the major must be taken on an A-B-C-D-F basis. A grade of C- or better is required for all courses taken in the major department as well as STAT 2000 or STAT 3000. The grade point average for all courses taught by the Quinney College of Natural Resources must be 2.5 or higher

Wildlife Ecology and Management Required Courses

Type
Completion Requirement

Courses Recommended to Fulfill Breadth/Depth Requirements

Complete ALL of the following Courses:

- ENGL1010 - Writing as Inquiry (CL1) - 3cr.
- BIOL1620 - Biology II (BLS) - 3cr.
- ENGL2010 - Research and Argument Across Perspectives (CL2) - 3cr.
- HIST3950 - Environmental History (DHA/CI) - 3cr.
  OR WILD4100 - Scientific Communication for Natural Resource Professionals (CI) - 3cr.
- STAT2000 - Statistical Methods (QI) - 4cr.
  OR STAT3000 - Statistics for Scientists (QI) - 3cr.

Scientific Foundation

Complete ALL of the following Courses:

- BIOL1610 - Biology I - 3cr.
- BIOL1615 - Biology I Laboratory - 1cr.
- BIOL1620 - Biology II (BLS) - 3cr.
- BIOL1625 - Biology II Laboratory - 1cr.
- MATH1050 - College Algebra (QL) - 4cr.
- MATH1100 - Calculus Techniques (QL) - 3cr.
  OR MATH1170 - Modeling Change: Calculus in Life and Society - 4cr.
- PSC3000 - Fundamentals of Soil Science - 4cr.
- STAT2000 - Statistical Methods (QI) - 4cr.
  OR STAT3000 - Statistics for Scientists (QI) - 3cr.
- WATS2220 - General Ecology - 3cr.

Chemistry Options Within the Scientific Foundation

Fulfill ANY of the following requirements:

Option 1

Complete ALL of the following Courses:

- CHEM1110 - General Chemistry I (BPS) - 4cr.
- CHEM1120 - General Chemistry II (BPS) - 4cr.
- CHEM1125 - General Chemistry II Laboratory - 1cr.

OR

Option 2

Complete ALL of the following Courses:

- CHEM1210 - Principles of Chemistry I - 4cr.
- CHEM1215 - Chemical Principles Laboratory I - 1cr.
- CHEM1220 - Principles of Chemistry II (BPS) - 4cr.

Departmental Common Courses

Complete ALL of the following Courses:

- WILD2800 - Introduction to Geographic Information Sciences - 4cr.
  OR GEOG2800 - Introduction to Geographic Information Sciences - 4cr.
- WILD2000 - Natural Resource Professional Orientation - 1cr.
  OR ENVS2000 - Natural Resource Professional Orientation - 1cr.
  OR WATS2000 - Natural Resource Professional Orientation - 1cr.
- WILD2400 - Wildland Resource Techniques - 3cr.
- WILD3800 - Wildland Plants and Ecosystems - 4cr.
- WILD3810 - Wildlife Population Ecology - 3cr.
- WILD3820 - Forest Plants: Identification, Biology, and Function - 3cr.
  OR WILD3830 - Range Plant Taxonomy and Function - 3cr.
  OR WILD3600 - Advanced Plant Identification and Terminology - 3cr.
- WILD3850 - Vegetation and Habitat Management - 3cr.
- WILD4750 - Monitoring and Assessment in Natural Resource and Environmental Management - 4cr.

Degree Program Courses

Fulfill ALL of the following requirements:

Required Courses

Complete ALL of the following Courses:

- WILD3300 - Wildlife Behavior - 3cr.
- WILD4500 - Principles of Wildlife Management - 3cr.
- WILD4600 - Conservation Biology - 3cr.
- WILD3880 - Genetics in Conservation and Management - 3cr.
- WILD5580 - Mammalogy - 3cr.

AND

Elective Requirement 1

Choose one from the following courses:

Complete at least 1 of the following courses:

- BIOL5560 - Ornithology - 3cr.
- BIOL5570 - Herpetology - 3cr.
- WILD5560 - Applied Avian Ecology (CI) - 3cr.
- WATS3100 - Fish Ecology, Conservation, and Management (CI/DSC) - 3cr.
- WATS5540 - Ichthyology - 4cr.
- WATS5655 - Principles in Fishery Management - 3cr.

AND

Elective Requirement 2

Choose one from the following courses:

Complete at least 1 of the following courses:

- APEC3012 - Introduction to Natural Resource Economics (DSS) - 3cr.
- ENVS3010 - Natural Resource and Environmental Policy - 3cr.
- ENVS4000 - Human Dimensions of Natural Resource Management (DSS) - 3cr.
- SOC4620 - Sociology of the Environment and Natural Resources (DSS) - 3cr.
- SOC3610 - Rural People and Places (DSS) - 3cr.

Open Electives

Complete the following as needed:
Total elective credit is determined by General Education courses taken, degree type selected, additional credits earned, and any additional math or other prerequisite courses needed. Please consult your Academic Advisor for details.

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Bachelor's Degree)

Suggested Degree Maps

Degree Map Name
Suggested Degree Map - Wildlife Ecology and Management - BS
Total Degree Map Credits
116 - 151
Degree Map Effective Catalog Year
2027 -

Degree Map Narrative

- Following is a sample four-year plan. Please note that student-specific plans may differ.
- Meet with an academic advisor to create a specific plan that best fits your academic needs.
- The student is ultimately responsible for knowing and completing all degree requirements.
- Make sure you meet the registration requirements for each class by clicking the course link and checking any prerequisites or corequisites.
- Consultation with an advisor may result in an altered plan customized for an individual student.
- Check your Degree Works for requirements and completion.

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	14 - 15	0

Requirement Select

- Breadth Social Sciences (BSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Breadth American Institutions (BAI) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- BIOL1610 - Biology I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- BIOL1615 - Biology I Laboratory

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- ENGL1010 - Writing as Inquiry (CL1)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- WILD2000 - Natural Resource Professional Orientation

OR
- ENVS2000 - Natural Resource Professional Orientation

OR
- WATS2000 - Natural Resource Professional Orientation

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	16	0

Requirement Select
- BIOL1620 - Biology II (BLS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- BIOL1625 - Biology II Laboratory

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- MATH1050 - College Algebra (QL)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- WATS2220 - General Ecology

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Breadth Humanities (BHU) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- General Elective (2 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	16	0

Requirement Select

- CHEM1110 - General Chemistry I (BPS)
  OR
- CHEM1210 - Principles of Chemistry I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- ENGL2010 - Research and Argument Across Perspectives (CL2)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- MATH1100 - Calculus Techniques (QL)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- WILD2400 - Wildland Resource Techniques

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- General Electives (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	15 - 16	0

Requirement Select

- CHEM1120 - General Chemistry II (BPS)
  OR
- CHEM1220 - Principles of Chemistry II (BPS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- CHEM1125 - General Chemistry II Laboratory
  OR
- CHEM1215 - Chemical Principles Laboratory I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- STAT2000 - Statistical Methods (QI)
  OR
- STAT3000 - Statistics for Scientists (QI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 4
Progress Credits	-
Contact Hours	3 - 4
Clinical	-
Criticality	No

Requirement Select

- WILD2800 - Introduction to Geographic Information Sciences
  OR
- GEOG2800 - Introduction to Geographic Information Sciences

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- Breadth Creative Arts (BCA) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- STAT3000 is the recommended option (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Fall	15	0

Requirement Select

- WILD5580 - Mammalogy

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- PSC3000 - Fundamentals of Soil Science

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- WILD3800 - Wildland Plants and Ecosystems

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- General Electives (4 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Spring	13 - 30	0

Requirement Select
- WILD3300 - Wildlife Behavior

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- WILD3810 - Wildlife Population Ecology

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- WILD3850 - Vegetation and Habitat Management

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- WILD4600 - Conservation Biology

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Depth Humanities and Creative Arts (DHA) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1 - 3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Communications Intensive (CI) Courses

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	0 - 15
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- HIST3950 is recommended to fulfill both the DHA and CI requirements (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Fall	13 - 28	0

Requirement Select
- Communications Intensive (CI) Courses

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	0 - 15
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- WILD3820 - Forest Plants: Identification, Biology, and Function
  OR
- WILD3830 - Range Plant Taxonomy and Function
  OR
- WILD3600 - Advanced Plant Identification and Terminology

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- WILD4750 - Monitoring and Assessment in Natural Resource and Environmental Management

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- ENVS4000 - Human Dimensions of Natural Resource Management (DSS)
  OR
- SOC4620 - Sociology of the Environment and Natural Resources (DSS)
  OR
- SOC3610 - Rural People and Places (DSS)
  OR
- APEC3012 - Introduction to Natural Resource Economics (DSS)
  OR
- ENVS3010 - Natural Resource and Environmental Policy

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- General Electives (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- WILD4100 is recommended to fulfill the CI requirement (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	-
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Spring	14 - 15	0

Requirement Select

- BIOL5560 - Ornithology
  OR
- BIOL5570 - Herpetology
  OR
- WILD5560 - Applied Avian Ecology (CI)
  OR
- WATS3100 - Fish Ecology, Conservation, and Management (CI/DSC)
  OR
- WATS5655 - Principles in Fishery Management
  OR
- WATS5540 - Ichthyology

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3 - 4
Progress Credits	-
Contact Hours	3 - 4
Clinical	-
Criticality	No

Requirement Select

- WILD4500 - Principles of Wildlife Management

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- WILD3880 - Genetics in Conservation and Management

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- General Electives (5 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	5
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Program Learning Outcomes

Program Learning Outcomes

https://www.usu.edu/oda/assessment/

Wildlife Biology - MS

Program Overview

College

College of Agriculture & Natural Resources

Department

Wildland Resources

Program Level

Graduate

About this Degree

Students in this program study the science and application of ecological principles in the management of wildlife populations. Areas of study include wildlife behavior, mammalogy, population dynamics, conservation biology, human-wildlife conflict, and wildlife ecology. The program is integrated with other natural resource programs in the college focusing on forestry, range, and ecology for a broad interdisciplinary experience.

The MS degree targets students motivated toward a management or administrative career in natural resources with an emphasis in wildlife biology. The Wildlife Biology MS degree may be obtained through either a Plan A (research thesis) or Plan B (paper) program. The MS Plan A requires the preparation and defense of a thesis and is best suited for students desiring research experience. The Plan B option requires the preparation and defense of a paper and is most appropriate for wildlife professionals who are not pursuing a research career path.

Department Head: Dr. Chris Keyes, chris.keyes@usu.edu
Graduate Program Coordinator: Stacey Brummer, 435-797-2503, stacey.brummer@usu.edu

Admission Requirements for this Program

Prior to applying, the prospective applicants must have a Wildland Resources faculty member agree to serve as their major (supervisory) advisor. It is recommended that interested applicants first contact specific faculty members with whom they are interested in working.

If the faculty member is accepting graduate students and agrees to serve as the major advisor, the applicant may then apply for admission through the School of Graduate Studies website. Applications are reviewed and processed on an ongoing basis.

Please note that funding is not provided by the Wildland Resources Department. Funding may be available through the major advisor, or a third party (such as an employer), or a student may be self-funded.

General Admission Requirements:

- A bachelor's degree from an accredited college
- A 3.0 GPA as calculated by the School of Graduate Studies.
- Completion of the formal application is required. This includes the submission of three letters of recommendation, a statement of purpose, and official transcripts from each college or university previously attended (except USU). The letter of recommendation request forms and statement of purpose prompt are included in the application materials.
- International Students: Please visit the School of Graduate Studies website for requirements.

Program Requirements

Total Credits Required In Program Coursework

30

Total Credits Required To Earn This Credential

30

Simple Requisites

Program Requirements

The Master of Science in Wildlife Biology program includes required course work, research, and the defense and submission of an original thesis (Plan A) or paper (Plan B).

The MS **Plan A** option includes a significant research component that leads to the production and defense of a thesis, which is submitted to the School of Graduate Studies for approval and then archived at the library. Students complete a required 6–15 thesis research credits, which support the development of their research and thesis. Thesis chapters frequently form the basis of papers prepared and submitted for publication in peer-reviewed journals by the student. Almost all MS students in the Wildland Resources department pursue a Plan A.

The MS **Plan B** option includes an extensive literature review that forms the basis of a paper. Plan B papers are defended but are not subject to the School of Graduate studies approval before submission to the library. Plan B students are required to complete 2-3 thesis research credits and take more coursework to fulfill the remaining credits.

Regardless of plan type, you will work closely with your major advisor and your supervisory committee to determine the trajectory of your research and the course work that will be most beneficial to you.

Department Requirements:

- **Completion of 30 required credit hours:** Only courses included on a supervisory committee approved Program of Study will count towards an MS degree. Please see specific course requirements under MS Plan A and MS Plan B below.
- **Presentation of Research Proposal**: Students must present a research proposal at the department Graduate Research Symposium.
- **Successful defense:** Students must successfully defend a Plan A research thesis or a Plan B paper.
- **Submission of thesis or paper**: Students must submit a Plan A research thesis or a Plan B paper to the School of Graduate Studies and library for review and approval. All thesis and paper submissions must follow the School of Graduate Studies Publication Guide and departmental requirements.

School of Graduate Studies (SGS) Requirements:

- **Completion of Required Forms:**
  - Supervisory Committee Approval
  - Program of Study
  - Master's Thesis Proposal/Project Approval
  - Appointment for Examination
  - Record of Examination (submitted by department office)
  - Format & Style form
  - Authorship & Copyright form
  - Title Page form
  - Application for Graduation
- **Completion of Required Trainings:** Students must complete all School of Graduate Studies required trainings, including Responsible Conduct of Research training.
- **Degree Verification:** A bachelor's degree from an accredited U.S. college or university or a similarly recognized international university is required for admission to and completion of a graduate program.
- **Minimum GPA Requirement:** Graduate students are required to maintain at least a 3.0 GPA for degree-program courses. Grades of C- or lower will not be accepted for a graduate degree.
- **Course Number Acceptability:** The Program of Study for a master's degree must include at least 18 semester credits at the level of 6000 or above. Credits in the following areas are not acceptable in a degree program: foreign languages (unless included in an approved Program of Study), continuing graduate advisement, individual home study, military science, and courses numbered below 5000.
- **Matriculation Start Semester:** A master's degree must be completed within six years of entering the degree program. Additional time may be requested by the student's committee and submitted to the Vice Provost of Graduate Studies for review.
- **Coursework Validity:** Coursework over eight years old at the time of degree completion may not be used for a graduate degree unless it is revalidated.

Degree Programs

Type
Completion Requirement

MS Plan A (Research Thesis) Course Requirements

Complete ALL of the following Courses:

- WILD6800 - Wildland Resources Departmental Seminar - 1cr.
- WILD6970 - Thesis Research - 1cr.
- 30 required credit hours (minimum) including:
  - 1 credit of WILD6800 WILD SEMINAR
  - 6-15 credits of WILD6970 THESIS RESEARCH
  - Remaining credits fulfilled via: Program of Study approved coursework

MS Plan B (Paper) Course Requirements

Complete ALL of the following Courses:

- WILD6800 - Wildland Resources Departmental Seminar - 1cr.
- WILD6970 - Thesis Research - 1cr.
- 30 required credit hours (minimum) including:
  - 1 credit of WILD6800 WILD SEMINAR
  - 2 but not more than 3 credits of WILD6970 THESIS RESEARCH
  - Remaining credits fulfilled via: Program of Study approved coursework

Program Learning Outcomes

Program Learning Outcomes

https://qcnr.usu.edu/wild/about/assessment/graduate

Wildlife Biology - PhD

Program Overview

College
College of Agriculture & Natural Resources

Department
Wildland Resources

Program Level
Graduate

About this Degree

Students in this program study the science and application of ecological principles in the management of wildlife populations. Areas of study include wildlife behavior, mammalogy, population dynamics, conservation biology, human-wildlife conflict, and wildlife ecology. The program is integrated with other natural resource programs in the college focusing on forestry, range, and ecology for a broad interdisciplinary experience.

The PhD degree is intended for students seeking a research or academic career in wildlife biology. The Wildlife Biology PhD degree may be obtained through either a post-master's or post-baccalaureate program.

Department Head: Dr. Chris Keyes, chris.keyes@usu.edu
Graduate Program Coordinator: Stacey Brummer, 435-797-2503, stacey.brummer@usu.edu

Admission Requirements for this Program

Prior to applying, the prospective applicants must have a Wildland Resources faculty member agree to serve as their major (supervisory) advisor. It is recommended that interested applicants first contact specific faculty members with whom they are interested in working.

If the faculty member is accepting graduate students and agrees to serve as the major advisor, the applicant may then apply for admission through the School of Graduate Studies website. Applications are reviewed and processed on an ongoing basis.

Please note that funding is not provided by the Wildland Resources Department. Funding may be available through the major advisor, or a third party (such as an employer), or a student may be self-funded.

General Admission Requirements:

- A bachelor's degree from an accredited college
- A 3.0 GPA as calculated by the School of Graduate Studies.
- Completion of the formal application is required. This includes the submission of three letters of recommendation, a statement of purpose, and official transcripts from each college or university previously attended (except USU). The letter of recommendation request forms and statement of purpose prompt are included in the application materials.
- International Students: Please visit the School of Graduate Studies website for requirements.

Program Requirements

Total Credits Required In Program Coursework
30-60

Total Credits Required To Earn This Credential
30-60

Simple Requisites

Program Requirements

The Wildlife Biology PhD program includes required coursework, research, and the defense and submission of an original dissertation. In addition, you must achieve candidacy by successfully completing a comprehensive exam (comps), which assesses your ability to conduct independent research, and by submitting your research proposal. The PhD program may be pursued either post-master's or post-baccalaureate. The post-baccalaureate PhD requires additional credit hours, coursework, and increased guidance from your major advisor and committee.

To develop your dissertation research, you will work closely with your major advisor and supervisory committee to generate original ideas, refine research direction, and identify the coursework and professional activities that will be most beneficial to your progress. As you approach candidacy, you should demonstrate a strong command of the literature, creativity in hypothesis development, and proficiency in research design and data analysis.

Department Requirements:

- **Completion of required credit hours:** Students must complete a total 30 credit hours if pursuing a PhD post-master's or 60 credit hours if post-baccalaureate. Only courses included on a supervisory committee approved Program of Study will count towards a PhD degree. Please see specific course requirements under PhD post master's and PhD post baccalaureate sections below.
- **Presentation of Research**: PhD students are required to present an initial research proposal and then biennial research updates at the department Graduate Research Symposium.
- **Successful defense:** Students must successfully defend a dissertation.
- **Submission of thesis or paper**: Students must submit a dissertation to the School of Graduate Studies and library for review and approval. All dissertation submissions must follow the School of Graduate Studies Publication Guide and departmental requirements.

School of Graduate Studies (SGS) Requirements:

- **Completion of Required Forms:**
  - Supervisory Committee Approval
  - Program of Study
  - Application of Candidacy Doctoral Degree
  - Appointment for Examination
  - Record of Examination (submitted by department office)
  - Format & Style form
  - Authorship & Copyright form
  - Title Page form
  - Application for Graduation
- **Completion of Required Trainings:** Students must complete all School of Graduate Studies required trainings, including Responsible Conduct of Research training.
- **Degree Verification:** A bachelor's degree and master's degree (if applicable) from an accredited U.S. college or university or a similarly recognized international university is required for admission to and completion of a graduate program.
- **Minimum GPA Requirement:** Graduate students are required to maintain at least a 3.0 GPA for degree-program courses. Grades of C- or lower will not be accepted for a graduate degree.
- **Course Number Acceptability:** The Program of Study for a master's degree must include at least 18 semester credits at the level of 6000 or above. Credits in the following areas are not acceptable in a degree program: foreign languages (unless included

in an approved Program of Study), continuing graduate advisement, individual home study, military science, and courses numbered below 5000.

- **Matriculation Start Semester:** A PhD degree must be completed within eight years of entering the degree program. Additional time may be requested by the student's committee and submitted to the Vice Provost of Graduate Studies for review.
- **Coursework Validity:** Coursework over eight years old at the time of degree completion may not be used for a graduate degree unless it is revalidated.

Degree Plans

Type
Completion Requirement

PhD (post master's) Course Requirements

Complete ALL of the following Courses:

- WILD7800 - Wildland Resources Departmental Seminar - 1cr.
- WILD7970 - Dissertation Research - 1cr.
- 30 required credit hours (minimum) including:
  - 1 credit of WILD7800 WILD SEMINAR
  - 12 credits minimum of WILD7970 DISSERTATION RESEARCH
  - Remaining Credits fulfilled via: Program of Study approved coursework

PhD (post-baccalaureate) Course Requirements

Complete ALL of the following Courses:

- WILD7800 - Wildland Resources Departmental Seminar - 1cr.
- WILD7970 - Dissertation Research - 1cr.
- 60 required credit hours (minimum) including:
  - 1 credit of WILD7800 WILD SEMINAR
  - 18 credits minimum of WILD7970 DISSERTATION RESEARCH
  - Remaining Credits fulfilled via: Program of Study approved coursework

Program Learning Outcomes

Program Learning Outcomes
https://qcnr.usu.edu/wild/about/assessment/graduate

Wildlife Science - Minor

Program Overview

College
College of Agriculture & Natural Resources

Department
Wildland Resources

Program Level
Undergraduate

About this Degree
This minor consists of a mix of 15 credits of fundamental wildlife courses that will give the recipient basic knowledge of wildlife science and management to complement the Fisheries and Aquatic Sciences (FAS) major in the Watershed Sciences Department.

Admission Requirements for this Program
This minor is restricted to only FAS (Fisheries and Aquatic Sciences) majors.

Program Requirements

Total Credits Required In Program Coursework
15

Total Credits Required To Earn This Credential
15

Simple Requisites

Program Requirements

Section 1

Type
Completion Requirement

A. Required Courses (6 credits)

Complete ALL of the following Courses:

- WILD3810 - Wildlife Population Ecology - 3cr.
- WILD4600 - Conservation Biology - 3cr.

B. Elective Courses (9 credits)

Earn at least 9 credits from the following:

- WILD3300 - Wildlife Behavior - 3cr.
- WILD5560 - Applied Avian Ecology (CI) - 3cr.
  OR BIOL5560 - Ornithology - 3cr.
- WILD4500 - Principles of Wildlife Management - 3cr.
- WILD3880 - Genetics in Conservation and Management - 3cr.
- BIOL5570 - Herpetology - 3cr.
- BIOL5580 - Mammalogy - 3cr.

Program Learning Outcomes

Program Learning Outcomes
https://qcnr.usu.edu/wild/about/assessment/undergraduate

World Languages and Cultures: Arabic Emphasis - BA

Program Overview

College
College of Arts & Sciences

Department
World Languages and Cultures

Program Level
Undergraduate

About this Degree

Students in Arabic learn linguistic, communication, critical thinking, and cultural competency skills, gaining a competitive edge in career paths in diplomacy, intelligence, national security, global business, NGOs and non-profits, healthcare, engineering, international development, translation and interpretation, and education. Students develop a deeper understanding of cultures across the Arabic speaking world, through the study of texts, traditions, media and more. Cultural activities, free tutoring, and an active student club, as well as many scholarship and study abroad opportunities, are available for students of Arabic at USU. Students with higher language proficiency and prior language experience, who test out of lower-division language courses at USU, may potentially complete degree requirements much faster.

Admission Requirements for this Program

2.0 GPA minimum

Program Requirements

Total Credits Required In Program Coursework
30

Total Credits Required To Earn This Credential
120

Simple Requisites

Program Requirements

30 credits, including LING4100 STUDY OF LANGUAGE, the required core course for the major and ARBC3010 ADV ARABIC I Advanced Arabic (3 credits).

World Languages and Cultures: Arabic Emphasis - BA

Type
Completion Requirement

Required Core Courses (7 credits)

Complete ALL of the following Courses:

- LING4100 - The Study of Language - 3cr.
- ARBC2020 - Intermediate Standard Arabic Second Year II - 4cr.

NOTE:

1. LING4100 STUDY OF LANGUAGE - Taught in English

Elective courses (23 credits)

Some of these courses are taught in English

Earn at least 23 credits from the following:

- ARBC3010 - Advanced Arabic I - 3cr.
- ARBC3020 - Advanced Arabic II - 3cr.
- ARBC3030 - Introduction to Islam (DHA) - 3cr.
- ARBC3800 - Study Abroad in Jordan - 3cr.
- ARBC4040 - Language and Culture of the Arab World (DHA) - 3cr.
- ARBC4920 - Arabic Language Tutoring - 1cr.
- CMST3330 - Intercultural Communication (DSS) - 3cr.
- HIST3410 - The Modern Middle East - 3cr.
- HIST4565 - Medieval Islam (DHA) - 3cr.
- HIST4566 - Global Faces of Islam (DHA) - 3cr.
  OR RELS4566 - Global Faces of Islam (DHA) - 3cr.
- HIST4560 - Women in Islam (DHA) - 3cr.
  OR RELS4560 - Women in Islam (DHA) - 3cr.
- LANG3990 - Special Topics - 1cr.
- LANG4330 - Advanced Perspectives in Global Communication - 3cr.
- LING2100 - Languages in Global and Historical Context (BSS) - 3cr.
- LING2500 - Language & Religion - 3cr.
- LING3100 - Language in Social Context - 3cr.
- LING3200 - Introduction to Linguistics (DSS) - 3cr.
- LING4900 - Analysis of Cross-Cultural Difference - 3cr.
- POLS3230 - Middle Eastern Government and Politics - 3cr.
- POLS4230 - Issues in Middle East Politics - 3cr.
- RELS3510 - Islamic Visual Cultures (CI/DHA) - 3cr.

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Bachelor's Degree)

Suggested Degree Maps

Degree Map Name
Suggested Degree Map - World Languages and Cultures: Arabic Emphasis - BA

Total Degree Map Credits
120

Degree Map Effective Catalog Year
2027 -

Degree Map Narrative

- Following is just a **sample, generic plan for a student who is just beginning to study a language.**
- Specific plans for each student will differ.
- Students with higher language proficiency, who test out of lower-division language courses at USU,

may complete the degree faster possibly.

- Several language and linguistics courses offer CI-Communications Intensive or DHA-Depth Humanities attributes.
- Meet with an academic advisor to create a specific plan that best fits your needs and goals.
- The student is ultimately responsible for knowing and completing all degree requirements.
- Contact the Department of World Languages & Cultures for Language Proficiency and Placement testing in 50+ languages.
- Consultation with an advisor may result in an altered plan customized for an individual student.
- Check your Degree Works for requirements and completion.

Year	Semester	Actual Credits	Progress Credits

Year 1	Fall	16	0

Requirement Select
- Communications Literacy (CL1) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- ARBC1010 - Arabic First Year I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- Breadth Creative Arts (BCA) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Breadth Physical Sciences (BPS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Breadth Humanities (BHU) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	16	0

Requirement Select
- ARBC1020 - Arabic First Year II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- Quantitative Literacy (QL) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Breadth Life Sciences (BLS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Breadth American Institutions (BAI) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Breadth Social Sciences (BSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	14	0

Requirement Select
- Communications Literacy (CL2) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- ARBC2010 - Intermediate Standard Arabic Second Year I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- Depth Life and Physical Sciences (DSC) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Quantitative Intensive (QI) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	16	0

Requirement Select
- ARBC2020 - Intermediate Standard Arabic Second Year II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- LING4100 - The Study of Language

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Depth Social Sciences (DSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Fall	15	0

Requirement Select
- ARBC3010 - Advanced Arabic I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- ARBC3030 - Introduction to Islam (DHA)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Upper-Division Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Spring	15	0

Requirement Select
- RELS3510 - Islamic Visual Cultures (CI/DHA)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Major Emphasis Elective (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Major Emphasis Elective (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- ARBC3020 - Advanced Arabic II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Fall	15	0

Requirement Select
- ARBC4040 - Language and Culture of the Arab World (DHA)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- LING3100 - Language in Social Context

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Spring	13	0

Requirement Select
- Major Emphasis Elective (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Major Emphasis Elective (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	Total Major Credits
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Program Learning Outcomes

Program Learning Outcomes
https://artsci.usu.edu/assessments/

World Languages and Cultures - BA

Program Overview

College	Department	Program Level
College of Arts & Sciences	World Languages and Cultures	Undergraduate

About this Degree
The World Languages & Cultures BA offers 10 emphases from which students must choose from.

- **Arabic**
- **Chinese**
- **French**
- **German**
- **Japanese**
- **Portuguese**
- **Spanish**
- **Russian**
- **Translation and Interpretation**
- **Linguistics.**

A K-12 Teaching Track option is available for: Spanish, French, German, Chinese, and Portuguese major emphases, and offers hands-on teaching experience.

Many students with prior language experience choose a World Languages & Cultures major, or World Languages & Cultures as a dual major, to further develop and showcase their language skills to employers. DLI (Dual Language Immersion)/Bridge/AP (Advanced Placement)/IB language students, returned missionaries with language experience, heritage speakers, bilingual students, members of the military with language experience, Concurrent Enrollment language participants, Study Abroad participants, and many others with experience in another language often select a World Languages & Cultures major, or choose a language as a dual major.

Those with prior language experience may take the USU Language Proficiency Test for placement, and may earn up to 16 USU lower-division credits (with option to purchase) based on test score.

No prior language skills are required, and students may begin a new language upon entry to the major.

Please contact your advisor for more information.

Careers

World Languages & Cultures degrees prepare students to succeed in a global economy by developing language proficiency, and building in-demand durable skills such as: cultural competence, communication, analysis, translation, interpretation, localization, storytelling, writing, editing, presentational skills, research skills, critical thinking, and more.

World Languages & Cultures students take a wide variety career paths, with recent alumni working in many different industries, such as: professional translators and interpreters, K-12 teachers, pilots, healthcare professionals, social workers, legal professionals, designers, diplomats, intelligence community members, law enforcement, NGOs, design, tech, sales, international business and global industry, and many more. World Languages & Cultures graduates may go on to medical school, dental school, law school, or graduate school in the humanities and social sciences.

Scholarships

World Languages & Cultures students are eligible to apply for a number of scholarships specifically for languages students and study abroad scholarships. Please contact your advisor or faculty for more information and visit USU Scholarship Universe.

Study Abroad

World Languages & Cultures offers several summer or semester-long faculty-led study abroad experiences for credit that counts toward degrees, including: France, Spain, Argentina, Brazil, Taiwan, Germany, Japan, and others. All majors are welcome.

Related minors, degrees, and certificates

Minors in World Languages & Cultures are also available: **Arabic Studies, Chinese, French, German, Japanese, Portuguese, Spanish, or Russian; Translation and Interpretation; or Linguistics.**

Teaching Minors in Chinese Teaching, French Teaching, German Teaching, and Spanish Teaching are also available.

Asian Studies major and minor, Middle East Studies minor, and Latin American Studies minor are also available, with some overlap in courses with World Languages & Cultures degrees.

Certificate programs in Medical Translation & Interpretation with 40-hour professional certification; Legal and Business Translation & Interpretation; and TESOL (Teaching English as a Second Language) are available to bolster professional skills and career readiness and all majors are welcome.

Other interdisciplinary programs in the College of Arts & Sciences, such as the Minor in Anticipatory Intelligence (CAI), Heravi Peace Institute certificates (HPI), or the Intercultural Communication Competence certificate are also popular complements to World Languages & Cultures degrees, with some overlap in courses.

The Masters of Science in Second Language Teaching (MS SLT) is a fully asynchronous online, career oriented graduate degree housed in the Department of World Languages & Cultures, open to students interested in teaching any language, ASL, and TESOL/ESL. The MS SLT is popular with current and future K-12 teachers, ESL teachers, and Dual Language Immersion teachers.

Admission Requirements for this Program

2.0 GPA minimum

Program Requirements

Total Credits Required In Program Coursework

30

Total Credits Required To Earn This Credential

120

Simple Requisites

Program Requirements

Required core course for all World Languages & Cultures major emphases: LING 4100 is required. LING 4100 has no prerequisites, is taught in English, and may be taken at any time. SPAN 4200, FREN 4200, GERM 4200, JAPN 4200 may also fulfill this requirement when offered taught in those languages. - see your advisor.

All requirements for emphasis areas are found on the individual catalog pages.

Program Requirement

Type

Completion Requirement

Required course

Complete ALL of the following Courses:

- LING4100 - The Study of Language - 3cr.

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Bachelor's Degree)

Suggested Degree Maps

Degree Map Name

World Languages and Cultures BA - 4 Year Degree Map

Total Degree Map Credits

120

Degree Map Effective Catalog Year

2027 -

Degree Map Narrative

- Following is a **sample, generic plan for a student who is just beginning to study a language.**
- Specific plans for each student will differ.
- Major emphasis in **Linguistics** and major Emphasis in **Translation and Interpretation** differ slightly.
- Students with higher language proficiency, who test out of lower-division language courses at USU,

  may complete the degree faster (it is possible to test out of 1010, 1020, 2010, 2020).
- Students with **Bridge** program upper-division language course credits may complete the degree faster.
- Some accelerated language courses (covering two semesters in one) may be available in some languages.
- Several language courses offer CI-Communications Intensive or DHA-Depth Humanities attributes.
- Meet with an academic advisor to create a specific plan that best fits your needs and goals.
- The student is ultimately responsible for knowing and completing all degree requirements.
- Contact the Department of World Languages & Cultures for placement testing in 50+ languages.
- Consultation with an advisor may result in an altered plan customized for an individual student.
- Check your Degree Works for requirements and completion.

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	16	0

Requirement Select
- Communications Literacy (CL1) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- 1010 WL&C First Year I language course (4 credits) Including ARBC 1010, CHIN 1010, FREN 1010, GERM 1010, JAPN 1010, PORT 1010, SPAN 1010, RUSS 1010 (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Breadth Physical Sciences (BPS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Breadth Creative Arts (BCA) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Breadth Humanities (BHU) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	16	0

Requirement Select
- Quantitative Literacy (QL) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- 1020 WL&C First Year II language course (4 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Breadth Life Sciences (BLS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Breadth American Institutions (BAI) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Breadth Social Sciences (BSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	16	0

Requirement Select
- Communications Literacy (CL2) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- 2010 WL&C Second Year I language course (4 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Depth Life and Physical Sciences (DSC) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Quantitative Intensive (QI) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective Course (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	14	0

Requirement Select
- Depth Social Sciences (DSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- 2020 WL&C Second Year II language course (4 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- LING4100 - The Study of Language

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Elective Course (1 credit) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Elective Course (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Fall	15	0

Requirement Select

- 3000-level WL&C language course with a (DHA) attribute (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- 3000-level WL&C language course with a (CI) attribute (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Upper-Division Elective Course (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Upper-Division Elective Course (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Elective Course (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Spring	15	0

Requirement Select

- WL&C Upper-Division language course (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- WL&C Upper-Division language course (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- WL&C Upper-Division language course (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Communications Intensive (CI) Courses

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Upper-Division Elective Course (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Fall	15	0

Requirement Select

- WL&C Upper-Division language course (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- WL&C Upper-Division language course (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective Course (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective Course (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective Course (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Spring	13	0

Requirement Select
- WL&C Upper-Division language course (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- WL&C Upper-Division language course (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective Course (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective Course (3 credits) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective Course (1 credit) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	Total Major Credits
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Program Learning Outcomes

Program Learning Outcomes
https://artsci.usu.edu/assessments/

World Languages and Cultures: Chinese Emphasis - BA

Program Overview

College
College of Arts & Sciences

Department
World Languages and Cultures

Program Level
Undergraduate

About this Degree
Students will develop durable skills including Chinese language skills, translation and interpretation skills, intercultural competence skills, analytical skills, critical thinking skills, and communication skills. Course offerings include courses in language, literature, culture, popular culture, Chinese for Business, film studies, media studies, translation, communication, and more. The program offers many cultural activities and student events, and opportunities such as tutoring, outreach practicum, and USU summer study abroad in Taiwan.

Admission Requirements for this Program
2.0 GPA minimum, or 3.0 for Teaching Licensure Track

Program Requirements

Total Credits Required In Program Coursework
30-67

Total Credits Required To Earn This Credential
120

Simple Requisites

Program Requirements

World Languages & Cultures BA: CHINESE

- **Notes for WL&C Major with Chinese Emphasis :**
- CHIN2050 CHINESE CONVERSATION is a required transition course for all students *without* extensive experience in a Mandarin-speaking environment. CHIN2050 CHINESE CONVERSATION must be taken after CHIN2010 CHINESE SECOND YR I and before CHIN3010 CHINESE THIRD YR I. Students should take CHIN2050 CHINESE CONVERSATION (unless waived), then CHIN3010 CHINESE THIRD YR I, then CHIN3020 CHINESE THIRD YR II before taking other advanced, upper-division CHIN courses. Students with at least one year of immersive Mandarin experience may potentially waive CHIN2050 CHINESE CONVERSATION and/or CHIN3000 CHIN CONVERSATION, based on USU language testing score. Please consult World Languages & Cultures advisor. Cantonese speakers are still required to take CHIN2050 CHINESE CONVERSATION.
- Bridge program students should consult with a World Languages and Cultures Advisor. Bridge courses CHIN3116 EXPLORING CHINA, CHIN3117 CHINESE LEGACIES, and CHIN3118 CHINESE POPULAR CULTURE count toward the Major Emphasis.

World Languages & Cultures BA, Emphasis in Chinese *with* World Languages Education Track/Secondary School Licensure

Admission Requirements for This Program (World Languages & Cultures BA, Emphasis in Chinese with World Languages Education Track/Secondary School Licensure)

GPA: New freshmen: 3.0 GPA; Transfer students from other institutions or other programs at USU: 3.0 GPA. Students must maintain a **minimum 3.0** through graduation. Pass the USOE background check. Complete admission core course requirements (see STEP application). World Languages and Cultures majors/minors-obtain required OPI exam score prior to admission.

Students should consult the application checklist: https://cehs.usu.edu/teal/files/undergrad/step-application-checklist-06242021.pdf and https://cehs.usu.edu/teal/undergraduate-1/sec-ed and contact a TEAL Advisor.

For this optional teaching licensure track in Chinese, the following are required for Chinese only:

- **Credits: 67 (30 credits + 37 STEP credits). 120 Total Credits.**
- **GPA required for STEP program:** 3.0 GPA
- **Minimum Grade Requirement:** All courses taken for the major and all **STEP** courses require a minimum grade of **C** or better. Courses may NOT be taken on a pass/fail basis (**except** for courses designated as pass/fail, such as SCED3300 CLINICAL EXPERIENCE I, SCED5630 STUDENT TEACHING SEC SCHOOL).
- **The Chinese program requires in addition to STEP requirements:** CHIN4100 TEACHING CHINESE**.**
- To be licensed to teach in the Utah public secondary school system, students completing the World Languages Education with Secondary School Licensure must complete the additional courses (28 credits) required by the Secondary Education Program (STEP). Courses may be subject to change, and students should contact the Secondary Education Advising Office for a current course list of STEP requirements. STEP Program: https://www.usu.edu/degrees-majors/secondary-teacher-education-program-step_licensure.
- SCED4300 CLINICAL EXPERIENCE II and LING5400 TEACHING MODERN LANGUAGES **must be taken during the same semester,** and should be the last courses taken for the minor. These courses should be taken the fall semester before student teaching.
- Students completing endorsements must follow all state requirements, including ACTFL OPI/Praxis test score requirements.
- World Languages Endorsement information: https://www.schools.utah.gov/licensing/endorsements/World%20Languages%20Endorsement%20Specs.pdf.

World Languages and Cultures: Chinese Emphasis - BA

Type

Completion Requirement

Required Courses (7 credits)

Please note prerequisite requirements for the following courses:

Complete ALL of the following Courses:

- CHIN3010 - Chinese Third Year I - 4cr.
- LING4100 - The Study of Language - 3cr.

Elective Courses (23 credits)

In addition to the 7 credits above of LING4100 STUDY OF LANGUAGE and CHIN3010 CHINESE THIRD YR I, required 23 minimum additional credits selected from the following sets of courses:

Fulfill ANY of the following requirements:

Chinese Elective Courses

Complete ANY of the following Courses:

- CHIN3000 - Chinese Conversation - 3cr.
- CHIN3020 - Chinese Third Year II - 4cr.
- CHIN3060 - Chinese Grammar and Composition - 3cr.
- CHIN3080 - Chinese Outreach Practicum - 1cr.
- CHIN3090 - Introduction to Modern Chinese Literature and Film - 3cr.
- CHIN3100 - Readings in Contemporary Chinese Culture (DHA) - 3cr.
- CHIN3116 - Exploring China - Past, Present and You - 3cr.
- CHIN3117 - Chinese Legacies - Tradition and Modernity - 3cr.
- CHIN3118 - Chinese Popular Culture - 3cr.
- CHIN3510 - Chinese Business Presentations - 3cr.
- CHIN3520 - Chinese Business Strategies - 3cr.
- CHIN3540 - Translating into and from Chinese (CI) - 3cr.
- CHIN3600 - Contemporary Children's Literature in Chinese - 3cr.
- CHIN3800 - Chinese III Study Abroad - 1cr.
- CHIN3880 - Individual Readings in Chinese - 1cr.
- CHIN4010 - Chinese Multimedia - 3cr.
- CHIN4030 - Love and Death in Chinese Film - 3cr.
- CHIN4050 - Chinese Media Topics - 3cr.
- CHIN4070 - Advanced Chinese Reading - 3cr.
- CHIN4080 - Expressive Chinese Communication Skills - 3cr.
- CHIN4090 - Readings in Masterworks of Classical Chinese Fiction - 3cr.
- CHIN4100 - Teaching Chinese as a Foreign Language - 3cr.
- CHIN4210 - Chinese/Sinophone Theatre and Performance - 3cr.
- CHIN4800 - Chinese IV Study Abroad - 1cr.
- CHIN4920 - Chinese Language Tutoring - 1cr.

NOTE:

1. CHIN3080 CHINESE OUTREACH - Repeatable for credit up to 3 credits
2. CHIN3116 EXPLORING CHINA - Bridge only
3. CHIN3117 CHINESE LEGACIES - Bridge only
4. CHIN3118 CHINESE POPULAR CULTURE - Bridge only
5. CHIN3800 CHINESE III STUDY ABROAD - Repeatable for credit
6. CHIN3880 INDIVIDUAL READINGS - Repeatable, only 1 credit may count toward requirements for the Chinese Major emphasis or minor.
7. CHIN4800 CHINESE IV STUDY ABROAD - Repeatable for credit
8. CHIN4920 CHINESE LANG TUTOR - Repeatable for credit up to 3 credits may count toward the Chinese Major emphasis

OR

Elective courses taught in English

Up to two of the following courses (maximum total limit of 6 credits) typically taught in English may also be used to fulfill the 23 required credits of elective coursework for the Chinese major emphasis:

Complete ANY of the following Courses:

- CAI5520 - Chinese Security Affairs - 3cr.
- CMST3330 - Intercultural Communication (DSS) - 3cr.
- HIST3480 - History of China - 3cr.
- HIST3483 - Modern China 1800 to present (DHA) - 3cr.
- JAPN3050 - Japanese Calligraphy - 1cr.
  OR ART3050 - Japanese Calligraphy - 1cr.
- LANG3550 - Culture of East Asia (DHA) - 3cr.

- LANG3570 - Narrative Ethics in Asian Literature and Film (DHA) - 3cr.
- LANG3650 - Women and Gender in East Asian Culture - 3cr.
- LING2500 - Language & Religion - 3cr.
- LING3100 - Language in Social Context - 3cr.
- LING5400 - Teaching Modern Languages - 3cr.
- POLS3250 - Chinese Government and Politics (DSS) - 3cr.

Additional Comments:
Important Notes for WL&C Major with Chinese Emphasis only:

- CHIN2050 CHINESE CONVERSATION is a required transition course for all students *without* extensive experience in a Mandarin-speaking environment. CHIN2050 CHINESE CONVERSATION must be taken after CHIN2010 CHINESE SECOND YR I and before CHIN3010 CHINESE THIRD YR I. Students should take CHIN2050 CHINESE CONVERSATION (unless waived), then CHIN3010 CHINESE THIRD YR I, then CHIN3020 CHINESE THIRD YR II before taking other advanced, upper-division CHIN courses. Students with at least one year of immersive Mandarin experience may potentially waive CHIN2050 CHINESE CONVERSATION and/or CHIN3000 CHIN CONVERSATION, based on USU language testing score. Please consult World Languages & Cultures advisor. Cantonese speakers are still required to take CHIN2050 CHINESE CONVERSATION.
- Bridge program students should consult with a World Languages and Cultures Advisor. Bridge courses CHIN3116 EXPLORING CHINA, CHIN3117 CHINESE LEGACIES, and CHIN3118 CHINESE POPULAR CULTURE count toward the Major Emphasis.

World Languages & Cultures BA, Emphasis in Chinese with World Languages Education Track/Secondary School Licensure

Type
Completion Requirement

World Languages Education Track/Secondary School Licensure Required Courses (37 credits)

Courses for teaching emphases and the teaching minors may be subject to change, and students should contact the Secondary Education Advising Office for a current course list of STEP requirements.

Complete ALL of the following Courses:

- CHIN4100 - Teaching Chinese as a Foreign Language - 3cr.
- ITLS2500 - Technology Enabled Instruction - 3cr.
- LING5400 - Teaching Modern Languages - 3cr.
  AND SCED4300 - Clinical Experience II - 1cr.
- SCED3210 - Educational and Multicultural Foundations (DSS/CI) - 3cr.
- SCED5100 - Motivation and Classroom Management - 3cr.
- SCED5200 - Language, Literacy, and Learning in the Content Areas (CI) - 3cr.
- SCED5210 - Learning Theory, Curriculum, and Assessment - 3cr.
- SCED5630 - Student Teaching in Secondary Schools - 10cr.
- SCED5500 - Student Teaching Seminar - 2cr.
  OR LING5500 - Student Teaching Seminar - 2cr.
- SPED4000 - Education of Students with Disabilities - 3cr.

NOTES:

1. The special methods course is taught under LING5400 TEACHING MODERN LANGUAGES.
2. SCED4300 CLINICAL EXPERIENCE II and LING5400 TEACHING MODERN LANGUAGES must be taken during the same semester.

Additional Comments:

Licensure Notification

This program typically leads to licensure and was designed to meet licensing qualifications in the state of Utah. If students wish to work in another state within the United States, they should review the qualifications for that state and the Education Licensure Compliance Table provided by School of Teacher Education and Leadership.

For more information, please contact the School of Teacher Education and Leadership at https://cehs.usu.edu/teal/

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Bachelor's Degree)

Suggested Degree Maps

Degree Map Name
Suggested Sample Beginning Chinese Language Student Degree Map
Total Degree Map Credits
120
Degree Map Effective Catalog Year
2027 -

Degree Map Narrative

- The following is a sample, generic 4-year plan for a student with no prior Chinese language experience. Student specific plans vary. This plan does *not* include the Teaching Licensure Track, but there is an optional track available.
- Students with prior Chinese language experience and/or coursework should take the Language Proficiency Placement Test in the Department of World Languages & Cultures and may complete degree requirements quicker or "test out of" some courses.
- Please meet with an academic advisor. Check your Degree Works for requirements and completion information.
- Bridge program students should meet with a Dept. of World Languages & Cultures advisor because Chinese Bridge courses count toward the Chinese Major emphasis and Chinese Minor.

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	16	0

Requirement Select
- CHIN1010 - Chinese First Year I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- Communications Literacy (CL1) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Breadth American Institutions (BAI) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Breadth Physical Sciences (BPS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Breadth Life Sciences (BLS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	16	0

Requirement Select
- CHIN1020 - Chinese First Year II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- Breadth Humanities (BHU) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Breadth Social Sciences (BSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Breadth Creative Arts (BCA) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	16	0

Requirement Select
- CHIN2010 - Chinese Second Year I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Quantitative Literacy (QL) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Communications Literacy (CL2) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	16	0

Requirement Select
- CHIN2020 - Chinese Second Year II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- Breadth Social Sciences (BSS) Course
  OR
- Breadth Creative Arts (BCA) Course
  OR
- Breadth Physical Sciences (BPS) Course
  OR
- Breadth Humanities (BHU) Course
  OR
- Breadth American Institutions (BAI) Course
  OR
- Breadth Life Sciences (BLS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Quantitative Intensive (QI) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Depth Life and Physical Sciences (DSC) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Fall	15	0

Requirement Select

- CHIN3010 - Chinese Third Year I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- LING4100 - The Study of Language

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- CHIN Upper-Division Course (3000-level or higher) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Communications Intensive (CI) Courses

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Spring	14	0

Requirement Select
- Depth Social Sciences (DSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- CHIN Upper-Division Course (3000-level or higher) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- CHIN Upper-Division Course (3000-level or higher) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- CHIN Upper-Division Course (3000-level or higher) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Fall	14	0

Requirement Select
- CHIN3540 - Translating into and from Chinese (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- CHIN or LING Upper-Division Course (3000-level or higher) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- CHIN or LING Upper-Division Course (3000-level or higher) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- CHIN Upper-Division Course (3000-level or higher) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Spring	13	0

Requirement Select

- CHIN Upper-Division Course (3000-level or higher) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- CHIN Upper-Division Course (3000-level or higher) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- CHIN Upper-Division Course (3000-level or higher) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- CHIN Upper-Division Course (3000-level or higher) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Program Learning Outcomes

Program Learning Outcomes
https://artsci.usu.edu/assessments/

World Languages and Cultures: French Emphasis - BA

Program Overview

College	Department	Program Level
College of Arts & Sciences	World Languages and Cultures	Undergraduate

About this Degree
Students in the French program explore the language and many cultures of the francophone world. Students in French develop durable skills for the global workplace, such as communications skills, analytical skills, critical thinking skills, and presentation skills, and increase their language proficiency level. Students may choose from a wide range of courses taught in French, ranging from Business French, to current events and culture, to courses in film, literature, music, translation, and more. The program offers many opportunities, such as a USU summer Study Abroad program in France, a very active student French Club and Conversation Hour, free French tutoring, French-specific scholarships to apply for, support applying for exchange and internship programs in the US and abroad, and more.

Admission Requirements for this Program

World Languages and Cultures: French Emphasis - BA
2.0 GPA minimum

World Languages & Cultures BA, Emphasis in French with World Languages Education Track/Secondary School Licensure
Admission Requirements for This Program

GPA: New freshmen: 3.0 GPA for Licensure track only; Transfer students from other institutions or other programs at USU: 3.0 GPA. Students must maintain a **minimum 3.0** through graduation. Pass the USBE background check. Complete admission core course requirements (see STEP application). World Languages and Cultures majors/minors-obtain required OPI exam score prior to admission. Students should consult the application checklist: https://cehs.usu.edu/teal/files/undergrad/step-application-checklist-06242021.pdf and https://cehs.usu.edu/teal/undergraduate-1/sec-ed and contact a TEAL Advisor.

Program Requirements

Total Credits Required In Program Coursework	Total Credits Required To Earn This Credential
30-62	120

Simple Requisites

Program Requirements

World Languages and Cultures: French Emphasis - BA
- 30 credits

World Languages & Cultures BA, Emphasis in French with World Languages Education Track/Secondary School Licensure
- **Credits: 62 (30 credits + 32 STEP credits). 120 Total Credits.**
- **GPA required for STEP program:** 3.0 GPA
- **Minimum Grade Requirement:** All courses taken for the major and all **STEP** courses require a minimum grade of **C** or better. Courses may NOT be taken on a pass/fail basis (**except** for courses designated as pass/fail, such as SCED3300 CLINICAL EXPERIENCE I, SCED5630 STUDENT TEACHING SEC SCHOOL).

- To be licensed to teach in the Utah public secondary school system, students completing the World Languages Education with Secondary School Licensure must complete the additional courses (32 credits) required by the Secondary Education Program (STEP). Courses may be subject to change, and students should contact the Secondary Education Advising Office for a current course list of STEP requirements. STEP Program: https://www.usu.edu/degrees-majors/secondary-teacher-education-program-step_licensure
- SCED4300 CLINICAL EXPERIENCE II and LING5400 TEACHING MODERN LANGUAGES **must be taken during the same semester,** and should be the last courses taken for the minor. These courses should be taken the fall semester before student teaching.
- Students completing endorsements must follow all state requirements, including ACTFL OPI/Praxis test score requirements.
- World Languages Endorsement information: https://www.schools.utah.gov/licensing/endorsements/World%20Languages%20Endorsement%20Specs.pdf

World Languages and Cultures: French Emphasis - BA

Type
Completion Requirement

Required Courses (6 credits)

Required course, LING4100 STUDY OF LANGUAGE (taught in English) ***or*** FREN4200 FRENCH LING/PHONETICS (taught in French) does not have any prerequisites, and may be taken at any time.

Complete ALL of the following Courses:

- LING4100 - The Study of Language - 3cr.
  OR FREN4200 - French Linguistics and Phonetics - 3cr.
- FREN3060 - French Intermediate Written Communication (CI) - 3cr.
  OR FREN4090 - Advanced Written Communication (CI) - 3cr.

Elective Courses (24 credits)

In addition to the 6 credits above, required 24 minimum credits selected from the following, taken in any order:

Fulfill ANY of the following requirements:

French Elective Courses

Complete ANY of the following Courses:

- FREN3030 - Advanced French for Everyday Communication - 3cr.
- FREN3060 - French Intermediate Written Communication (CI) - 3cr.
- FREN3070 - Advanced French Study Abroad I - 4cr.
- FREN3080 - Advanced French Study Abroad II - 4cr.
- FREN3116 - Adventure and Discovery: Journey in the Francophone World - 3cr.
- FREN3117 - Francophone Studies: Past, Present and Future - 3cr.
- FREN3118 - Paris, City of Lights - 3cr.
- FREN3400 - Introduction to Translation - 3cr.
- FREN3500 - French and Francophone Authors (DHA) - 3cr.
- FREN3510 - Business French (CI) - 3cr.
- FREN3550 - French Civilization (DHA) - 3cr.
- FREN3570 - France Today - 3cr.
- FREN3600 - Textual Analysis - 3cr.
- FREN3700 - Francophone Music (CI) - 3cr.
- FREN3820 - Advanced Independent Study: Experiencing Francophone Culture - 2cr.
- FREN4060 - Advanced French Conversation (CI) - 3cr.
- FREN4090 - Advanced Written Communication (CI) - 3cr.
- FREN4200 - French Linguistics and Phonetics - 3cr.
- FREN4610 - Studies in French Literature and Culture (DHA) - 3cr.
- FREN4620 - Genre Studies in French Literature (DHA) - 3cr.
- FREN4630 - French and Francophone Fairy Tales (DHA) - 3cr.
- FREN4640 - Exploring the French and Francophone Short Story - 3cr.
- FREN4880 - Individual Readings - 1cr.
- FREN4900 - Seminar in French and Francophone Studies - 3cr.
- FREN4920 - French Language Tutoring - 1cr.

NOTE:

1. FREN3060 FREN INT WRITTEN COMM (CI) - repeatable for credit, up to 6 credits
2. FREN3117 FRANCOPHONE STUDIES - Bridge Program only
3. FREN3118 PARIS, CITY OF LIGHTS - Bridge Program only
4. FREN3500 FRENCH AND FRANCO AUTHOR (DHA) - Repeatable for credit
5. FREN3820 ADVANCED INDEPENDENT STUDY - Study Abroad Only
6. FREN4060 ADV FRENCH CONVERSATION (CI) - Repeatable for credit
7. FREN4200 FRENCH LING/PHONETICS - Taught in French, may count as elective if not used for core course for WL&C major
8. FREN4640 FRANCOPHONE SHORT STORY - Repeatable for credit
9. FREN4900 SEMINAR: FRENCH/FRANCO STUDY - Repeatable for credit
10. FREN4920 FRENCH LANGUAGE TUTORING - Repeatable for credit

OR

Elective courses taught in English

Up to two (6 credits) of the following courses, taught in English, may be used toward the electives:

Complete ANY of the following Courses:

- LING2100 - Languages in Global and Historical Context (BSS) - 3cr.
- LING3100 - Language in Social Context - 3cr.
- LING3200 - Introduction to Linguistics (DSS) - 3cr.
- LING4900 - Analysis of Cross-Cultural Difference - 3cr.
- HIST4290 - Europe and the French Revolution, 1700-1815 - 3cr.

World Languages & Cultures BA, Emphasis in French with World Languages Education Track/Secondary School Licensure

Type
Completion Requirement

Required Courses for Licensure (32 credits)

Courses for teaching emphases and the teaching minors may be subject to change, and students should contact the Secondary Education Advising Office for a current course list of STEP requirements.

Complete ALL of the following Courses:

- ITLS2500 - Technology Enabled Instruction - 3cr.
- LING5400 - Teaching Modern Languages - 3cr.
  AND SCED4300 - Clinical Experience II - 1cr.
- SCED3210 - Educational and Multicultural Foundations (DSS/CI) - 3cr.
- SCED5100 - Motivation and Classroom Management - 3cr.
- SCED5200 - Language, Literacy, and Learning in the Content Areas (CI) - 3cr.
- SCED5210 - Learning Theory, Curriculum, and Assessment - 3cr.
- SCED5630 - Student Teaching in Secondary Schools - 10cr.
- SCED5500 - Student Teaching Seminar - 2cr.
  OR LING5500 - Student Teaching Seminar - 2cr.
- SPED4000 - Education of Students with Disabilities - 3cr.

NOTES:

1. The language methods course is taught under course number LING5400 TEACHING MODERN LANGUAGES.
2. SCED4300 CLINICAL EXPERIENCE II and LING5400 TEACHING MODERN LANGUAGES must be taken during the same semester.

Additional Comments:

Licensure Notification

This program typically leads to licensure and was designed to meet licensing qualifications in the state of Utah. If students wish to work in another state within the United States, they should review the qualifications for that state and the Education Licensure Compliance Table provided by School of Teacher Education and Leadership.

For more information, please contact the School of Teacher Education and Leadership at https://cehs.usu.edu/teal/

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Bachelor's Degree)

Suggested Degree Maps

Degree Map Name
Suggested Degree Map for: World Languages and Cultures: French Emphasis - BA
Total Degree Map Credits
120
Degree Map Effective Catalog Year
2027 -

Degree Map Narrative

- Following is a sample four-year plan, with the example of starting as a beginner with no previous French language experience or coursework. Students with prior language experience should take the Language Proficiency and Placement Test at USU's Department of World Languages & Cultures to possibly "test out of" courses, purchase earned credits depending on score, or meet prerequisites to potentially complete the French Major emphasis quicker. Bridge program participants (up to 9 credits toward the major) and others with prior language experience may be able complete language course requirements quicker, or more quickly complete 2 majors.
- Please note that student-specific plans may differ. Consultation with an advisor is suggested.
- Meet with an academic advisor to create a specific plan that best fits your academic needs.
- The student is ultimately responsible for knowing and completing all degree requirements.
- Make sure you meet the registration requirements for each class, checking any prerequisites or corequisites.
- Consultation with an advisor may result in an altered plan customized for an individual student.
- Check your Degree Works for requirements and completion.

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	16	0

Requirement Select

- FREN1030 - Accelerated French

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- Breadth Social Sciences (BSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Breadth Humanities (BHU) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Breadth American Institutions (BAI) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	16	0

Requirement Select
- FREN2010 - French Second Year I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- Communications Literacy (CL1) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Breadth Life Sciences (BLS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Breadth Creative Arts (BCA) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective Credit (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	16	0

Requirement Select
- FREN2020 - French Second Year II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- Communications Literacy (CL2) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Breadth Physical Sciences (BPS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Quantitative Literacy (QL) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	13	0

Requirement Select
- FREN3060 - French Intermediate Written Communication (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Quantitative Intensive (QI) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Depth Life and Physical Sciences (DSC) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Fall	15	0

Requirement Select
- FREN3550 - French Civilization (DHA)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- FREN4090 - Advanced Written Communication (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- LING4100 - The Study of Language

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- French Upper Division Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Spring	15	0

Requirement Select
- Depth Social Sciences (DSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- French Upper-Division Course (DHA) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- French Upper-Division Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- French Upper-Division Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Fall	15	0

Requirement Select
- FREN3400 - Introduction to Translation

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- French Upper-Division Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Spring	14	0

Requirement Select
- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Program Learning Outcomes

Program Learning Outcomes

https://artsci.usu.edu/assessments/

World Languages and Cultures: German Emphasis - BA

Program Overview

College
College of Arts & Sciences

Department
World Languages and Cultures

Program Level
Undergraduate

About this Degree

The goal of the German program at USU is to prepare students for a high level of proficiency in professional and academic contexts.

Majors take language courses in which they develop speaking, listening, reading and writing skills; culture and literature courses where they learn about the traditions and perspectives of German-speaking communities; and business and translation courses, which offer practice-oriented preparation for the job market. They also have the option to participate in study abroad programs in Germany where they gain proficiency in German and experience exciting travel opportunities.

The faculty members in the German program have culturally diverse expertise in language, literature, and culture which helps majors gain a solid grounding in German language and culture and prepares them to function effectively in a variety of careers and as members of the international community.

- Please make sure to consult regularly with your departmental advisor to confirm what courses will be available and to work out your plan of study.
- Admitted and current students must meet with an academic advisor.
- Log on to Degree Works to check student-specific program progress.
- The highest math requirement for this degree is Quantitative Literacy (QL) course of the student's choice.

Admission Requirements for this Program

- 2.0 GPA Minimum
- Bridge Program students should begin by consulting the USU Bridge Program page.

Program Requirements

Total Credits Required In Program Coursework
30

Total Credits Required To Earn This Credential
120

Simple Requisites

Program Requirements

- **Total Credits:** 30
- **USU Credit Requirement**: At least half (50 percent) of the credits earned for this degree must be completed in upper-division USU courses having prefixes of GERM or LING. All other credits (including transfer and study abroad credits) must be approved by the program's academic advisor in order to be counted toward the major. Students who have completed Bridge Program Language courses should contact their advisor as these courses may count toward elective credits and credits toward major requirements.
- **Minimum Grade Requirement:** All courses for the major require a minimum grade of **C-** or better. Courses for the major *may not* be taken on a pass/fail basis.
- **Note:** Students with prior language credit or language experience should take the department placement test before admission to the German major or minor. Credits obtained in lower-division German courses *cannot* be applied to toward the German major or minor programs.

World Languages and Cultures: German Emphasis - BA

Type
Completion Requirement

A. Required Course (3 credits)

Complete at least 1 of the following courses:

- LING4100 - The Study of Language - 3cr.

B. Elective Courses (30 credits)

Students must complete at least 27 credits of upper-division coursework selected from the following:

Fulfill ANY of the following requirements:

Upper-division Coursework Elective Options

Complete ANY of the following Courses:

- GERM3116 - Popular Culture in the German-Speaking World - 3cr.
- GERM3117 - Stories and Storytelling: Young Voices & Cultural Identity - 3cr.
- GERM3118 - Berlin: Monuments, Multiculturalism, and Memory - 3cr.
- GERM3000 - Introduction to German Studies (DHA) - 3cr.
- GERM3040 - Advanced German Grammar & Culture (CI) - 3cr.
- GERM3050 - Advanced German Conversation (CI) - 3cr.
- GERM3300 - Contemporary German Speaking Cultures (DHA) - 3cr.
- GERM3510 - Business German (CI) - 3cr.
- GERM3540 - Techniques in Translating German Texts (CI) - 3cr.
- GERM3550 - Cultural History of German Speaking Peoples (DHA) - 3cr.
- GERM3600 - Classic German Art and Literature (DHA) - 3cr.
- GERM3610 - Contemporary German Art and Literature (DHA)9 - 3cr.
- GERM3800 - German III Study Abroad - 1cr.
- GERM3880 - Individual Readings - 1cr.
- GERM4200 - Applied German Linguistics and Phonetics - 3cr.
- GERM4610 - German Narratives - 3cr.
- GERM4650 - Trends in Modern Germany (DHA) - 3cr.
- GERM4800 - German IV Study Abroad - 1cr.
- GERM4880 - Individual Readings - 1cr.
- GERM4900 - Special Topics - 3cr.
- GERM4910 - German for Special Purposes - 3cr.
- GERM4920 - German Language Tutoring - 1cr.

NOTE:

1. GERM3800 GERMAN III STUDY ABRD, GERM3880 INDIVIDUAL READINGS, GERM4800 GERMAN IV STUDY ABRD, GERM4880 INDIVIDUAL READINGS, GERM4900 SPECIAL TOPICS, GERM4920 GERMAN LANGUAGE TUTOR - Are repeatable for additional credit.

OR

Additional Course Options

One of the following six courses is possible to complete German Major coursework:

Complete ANY of the following Courses:

- CMST3330 - Intercultural Communication (DSS) - 3cr.
- LING2100 - Languages in Global and Historical Context (BSS) - 3cr.
- LING3100 - Language in Social Context - 3cr.
- LING3200 - Introduction to Linguistics (DSS) - 3cr.
- LING4100 - The Study of Language - 3cr.
- LING4900 - Analysis of Cross-Cultural Difference - 3cr.

Open Electives

Complete the following as needed:
Total elective credit is determined by General Education courses taken, degree type selected, additional credits earned, and any additional math or other prerequisite courses needed. Please consult your Academic Advisor for details.

Additional Comments:

Related Programs

- German - Minor: 12 credits
- German Teaching Emphasis - Minor: With licensure: 20 credits + 29 STEP credits; without Licensure: 19 credits

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Bachelor's Degree)

Suggested Degree Maps

Degree Map Name
Suggested Degree Map - German BA
Total Degree Map Credits
121
Degree Map Effective Catalog Year
2027 -

Degree Map Narrative

- Following is a sample four-year plan. Please note that student-specific plans may differ.
- Meet with an academic advisor to create a specific plan that best fits your academic needs.
- The student is ultimately responsible for knowing and completing all degree requirements.
- Make sure you meet the registration requirements for each class by clicking the course link and checking any prerequisites or corequisites.
- Consultation with an advisor may result in an altered plan customized for an individual student.
- Check your Degree Works for requirements and completion.

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	16	0

Requirement Select

- ENGL1010 - Writing as Inquiry (CL1)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- GERM1010 - German First Year I
  OR
- GERM1030 - Accelerated German First Year

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- Breadth Requirement (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Breadth Requirement (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Breadth Requirement (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	16	0

Requirement Select
- GERM1020 - German First Year II
  OR
- GERM1030 - Accelerated German First Year

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- Quantitative Literacy (QL) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Breadth Requirement (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Breadth Requirement (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Breadth Requirement (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	16	0

Requirement Select
- ENGL2010 - Research and Argument Across Perspectives (CL2)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- GERM2010 - German Second Year I
  OR
- GERM2030 - Accelerated German Second Year

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- Depth Life and Physical Sciences (DSC) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Quantitative Intensive (QI) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	16	0

Requirement Select
- Depth Social Sciences (DSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- GERM2020 - German Second Year II
  OR
- GERM2030 - Accelerated German Second Year

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- LING4100 - The Study of Language

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Breadth Requirement (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Fall	14	0

Requirement Select
- GERM3000 - Introduction to German Studies (DHA)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- GERM3040 - Advanced German Grammar & Culture (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Upper-Division Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Upper-Division Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Spring	14	0

Requirement Select
- GERM Upper-Division Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- GERM Upper-Division Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- GERM Upper-Division Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Communications Intensive (CI) Courses

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Fall	15	0

Requirement Select
- GERM Upper-Division Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- GERM Upper-Division Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Spring	14	0

Requirement Select
- GERM Upper-Division Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- GERM Upper-Division Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Program Learning Outcomes

Program Learning Outcomes

https://artsci.usu.edu/assessments/

World Languages and Cultures: Japanese Emphasis - BA

Program Overview

College
College of Arts & Sciences

Department
World Languages and Cultures

Program Level
Undergraduate

About this Degree

The Japanese major emphasis provides intercultural competence and communication skills essential for career opportunities in the US and globally, for example in: IT, AI, engineering, research and development, international trade, banking, logistics, tourism, supply chain management, teaching, media and creative industries, or diplomacy. Students develop a deeper understanding of Japanese culture, popular culture, and traditions, as well as film, media, business culture, educational systems, and literature. Japanese proficiency allows professionals to work directly in Japan or with many worldwide companies. Graduates also pursue careers as translators, interpreters, or content localizers for gaming, media, and tech. Students develop durable, transferable skills in communication, critical thinking, and analysis.

Students with higher language proficiency and prior language experience, who test out of lower-division language courses at USU, may potentially complete degree requirements much faster. Many students also choose a World Languages & Cultures BA as a second major.

USU's Japanese program offers many unique opportunities for cultural activities, conversation and reading practice, research projects, community engagement, exchange programs in Japan, student clubs, and study abroad.

Admission Requirements for this Program

2.0 GPA minimum.

Program Requirements

Total Credits Required In Program Coursework
30

Total Credits Required To Earn This Credential
120

Simple Requisites

Program Requirements

30 credits required

World Languages and Cultures: Japanese Emphasis - BA

Type
Completion Requirement

Required Core courses (7 credits)

Complete ALL of the following Courses:

- LING4100 - The Study of Language - 3cr.
  OR JAPN4200 - Introduction to Japanese Linguistics - 3cr.
- JAPN3010 - Japanese Third Year I - 4cr.
- JAPN3020 - Japanese Third Year II - 4cr.
- JAPN3050 - Japanese Calligraphy - 1cr.
  OR ART3050 - Japanese Calligraphy - 1cr.
- JAPN3060 - Japanese Communication - 3cr.
- JAPN3080 - Japanese Service Learning - 3cr.
- JAPN3090 - Introduction to Japanese Literature - 3cr.
- JAPN3100 - Readings in Contemporary Japanese Culture - 3cr.
- JAPN3510 - Japanese for the Business Environment - 3cr.
- JAPN3560 - Studies in Japanese Film - 3cr.

Elective Courses (23 credits)

In addition to the 7 required credits above, students must complete 23 minimum elective credits selected from the following sets of courses.

Fulfill ANY of the following requirements:

Japanese Elective Courses

Complete ANY of the following Courses:

- JAPN3080 - Japanese Service Learning - 3cr.
- JAPN3090 - Introduction to Japanese Literature - 3cr.
- JAPN3100 - Readings in Contemporary Japanese Culture - 3cr.
- JAPN3150 - Tadoku: Extensive Reading in Japanese - 1cr.
- JAPN3510 - Japanese for the Business Environment - 3cr.
- JAPN3560 - Studies in Japanese Film - 3cr.
- JAPN4200 - Introduction to Japanese Linguistics - 3cr.
- JAPN4800 - Japanese Education System - Study Abroad - 3cr.
- JAPN4920 - Japanese Language Tutoring - 1cr.

NOTE:

1. JAPN3050 JAPANESE CALLIGRAPHY/ART3050 JAPANESE CALLIGRAPHY - Repeatable for credit, up to 3 credits may count toward Japanese Major emphasis.
2. JAPN4920 JAPN LANG TUTORING - Repeatable for credit, up to 3 credits may count toward Japanese Major emphasis.

OR

Elective courses taught in English

Up to two (6 credits) of the following courses, typically taught in English, may be used toward the 23 credits of electives for the Japanese Emphasis:

Complete ANY of the following Courses:

- HIST3550 - Culture of East Asia (DHA) - 3cr.
  OR LANG3550 - Culture of East Asia (DHA) - 3cr.
- HIST4150 - Japan, Europe, and the Early Modern World - 3cr.
- LANG3570 - Narrative Ethics in Asian Literature and Film (DHA) - 3cr.
- LANG3650 - Women and Gender in East Asian Culture - 3cr.
- LING2100 - Languages in Global and Historical Context (BSS) - 3cr.
- LING3100 - Language in Social Context - 3cr.
- LING3200 - Introduction to Linguistics (DSS) - 3cr.
- LING4900 - Analysis of Cross-Cultural Difference - 3cr.

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Bachelor's Degree)

Suggested Degree Maps

Degree Map Name

World Languages and Cultures BA: Japanese, sample degree map for beginner

Total Degree Map Credits
120

Degree Map Effective Catalog Year
2027 -

Degree Map Narrative

- Following is a **sample**, generic plan for a student who is just beginning to study the Japanese language.
- **Students with higher language proficiency and prior language experience, who test out of lower-division language courses at USU, may potentially complete degree requirements much faster.**
- Contact the Department of World Languages & Cultures for proficiency and placement testing in Japanese and 50+ other languages.
- Several language or linguistics courses in the department offer CI-Communications Intensive or DHA-Depth Humanities attributes.
- Meet with an academic advisor to create a specific plan that best fits your needs and goals.
- The student is ultimately responsible for knowing and completing all degree requirements.
- Consultation with an advisor may result in an altered plan customized for an individual student.
- Specific plans for each student will differ. Below is just a suggested possible plan.
- Check Degree Works for requirements and completion.

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	16	0

Requirement Select
- Communications Literacy (CL1) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- JAPN1010 - Japanese First Year I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- Breadth Physical Sciences (BPS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Breadth Creative Arts (BCA) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Breadth Life Sciences (BLS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	16	0

Requirement Select
- Quantitative Literacy (QL) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- JAPN1020 - Japanese First Year II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- Breadth Humanities (BHU) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Breadth American Institutions (BAI) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Breadth Social Sciences (BSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	15	0

Requirement Select
- Communications Literacy (CL2) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- JAPN2010 - Japanese Second Year I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- Depth Life and Physical Sciences (DSC) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Quantitative Intensive (QI) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- JAPN3150 - Tadoku: Extensive Reading in Japanese

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- Elective (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	14	0

Requirement Select
- LING3200 - Introduction to Linguistics (DSS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- JAPN2020 - Japanese Second Year II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- JAPN3050 - Japanese Calligraphy

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- Elective (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Fall	15	0

Requirement Select
- LANG3550 - Culture of East Asia (DHA)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- JAPN3010 - Japanese Third Year I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- JAPN3020 - Japanese Third Year II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- Communications Intensive (CI) Courses

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- JAPN3560 - Studies in Japanese Film

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- LING4100 - The Study of Language

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- JAPN3060 - Japanese Communication

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Elective (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Communications Intensive (CI) Courses

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Spring	15	0

Requirement Select
- JAPN3150 - Tadoku: Extensive Reading in Japanese

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select
- JAPN3050 - Japanese Calligraphy

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Fall	15	0

Requirement Select
- JAPN3080 - Japanese Service Learning

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- JAPN3090 - Introduction to Japanese Literature

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Elective (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Spring	14	0

Requirement Select
- JAPN3510 - Japanese for the Business Environment

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- JAPN3100 - Readings in Contemporary Japanese Culture

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Elective (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Elective (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- JAPN3050 - Japanese Calligraphy

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Requirement Select

- JAPN3150 - Tadoku: Extensive Reading in Japanese

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Program Learning Outcomes

Program Learning Outcomes

https://artsci.usu.edu/assessments/

World Languages and Cultures: Linguistics Emphasis - BA

Program Overview

College
College of Arts & Sciences

Department
World Languages and Cultures

Program Level
Undergraduate

About this Degree

The Linguistics major emphasis focuses on the scientific study of language, including the underlying rules and structures that make communication possible. In addition to developing proficiency in one or more languages, students gain an understanding in theory and practice of linguistics subfields, including: Phonetics, Phonology, Morphology, Syntax, Semantics, Pragmatics, Sociolinguistics, Applied Linguistics, Language Acquisition and Second Language Acquisition, etc. Students develop durable workforce skills in analysis, data analysis, communications, critical thinking, intercultural competence, language proficiency, and more. Graduates may find career pathways in: AI/machine learning, education, research, teaching, localization, editing, forensic linguistics, tech, and more. Graduates may find jobs in education or in the private sector, or continue their studies in graduate school. Additional upper-division Linguistics courses will be added to the program soon.

Admission Requirements for this Program

2.0 GPA minimum

Program Requirements

Total Credits Required In Program Coursework
30

Total Credits Required To Earn This Credential
120

Simple Requisites

Program Requirements

The Linguistics Major emphasis is 30 credits. In addition to LING4100 STUDY OF LANGUAGE, complete 21 credits in LING-prefix or other approved listed courses, including must complete required LING3100 LANGUAGE IN SOCIAL CONTEXT andLING3200 INTRO TO LINGUISTICS (DSS); and must complete 6 credits minimum in World Languages courses as outlined above (many options).

World Languages and Cultures: Linguistics Emphasis - BA

Type
Completion Requirement

Required Courses (9 credits)

Complete ALL of the following Courses:

- LING4100 - The Study of Language - 3cr.
- LING3200 - Introduction to Linguistics (DSS) - 3cr.
- LING3100 - Language in Social Context - 3cr.

Elective Courses (15 credits)

Complete ANY of the following Courses:

- LING2100 - Languages in Global and Historical Context (BSS) - 3cr.
- LING2500 - Language & Religion - 3cr.
- LING4900 - Analysis of Cross-Cultural Difference - 3cr.
- CMST3330 - Intercultural Communication (DSS) - 3cr.
- SPAN4200 - Introduction to Hispanic Linguistics - 3cr.
  OR FREN4200 - French Linguistics and Phonetics - 3cr.
  OR GERM4200 - Applied German Linguistics and Phonetics - 3cr.
  OR JAPN4200 - Introduction to Japanese Linguistics - 3cr.
- LANG3100 - A Linguistic Introduction to English - 3cr.
- LING3100 - Language in Social Context - 3cr.
- LING3200 - Introduction to Linguistics (DSS) - 3cr.
- LING3300 - Clinical Experience I - 1cr.

15 credits of elective courses if not already used to satisfy required courses above

Language Courses (6 credits)

Complete a minimum of 6 credits in one of the following:

- One single language: Complete 1 language course at the 2020/2030/2040 level (or test score of 440 minimum) **and** 1 language course at the 3XXX level or 4XXX level, with a C- or better.
- Any 2 language courses at the 3XXX or 4XXX level with a C- or better.
- Two different languages at the level of 1020/1030/1040 or higher with a C- or better (or test scores of 320 minimum).
- Two or more 3116, 3117, or 3118 Bridge program courses in high school (Spanish, Chinese, German, French, Portuguese, Russian) with a C- or better.
- **Equivalent coursework through testing:** Fulfill part or all of the credits through USU Language Proficiency Testing (50+ languages available)**. Students may choose to purchase USU credits for the credits earned through testing.**

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Bachelor's Degree)

Suggested Degree Maps

Degree Map Name
Sample Degree Map for Linguistics with an intermediate language level
Total Degree Map Credits
120
Degree Map Effective Catalog Year
2027 -

Degree Map Narrative

- Following is just a **sample, generic plan. This plan offers just as an example a student choosing 6 credits of upper-division Spanish to fulfill the language(s) requirement, but there are many possible options and other languages or ways to fulfill the language requirement for Linguistics.**
- Specific plans for each student will differ.
- N**ew Linguistics courses will be added in future semesters as this new major emphasis expands.**
- Students with higher language proficiency, who test out of lower-division language courses at USU,

may possibly complete the degree faster (it is possible to test out of 1010, 1020, 2010, 2020).

- Students with **Bridge** program upper-division language course credits may possibly complete the degree faster.
- Some accelerated language courses (covering two semesters in one) may be available in some languages.
- Several language courses offer CI-Communications Intensive or DHA-Depth Humanities attributes.
- Meet with an academic advisor to create a specific plan that best fits your needs and goals.
- The student is ultimately responsible for knowing and completing all degree requirements.
- Contact the Department of World Languages & Cultures for Language Proficiency and Placement Testing available **in over 50+ languages.**
- Consultation with an advisor may result in an altered plan customized for an individual student.
- Check your Degree Works for requirements and completion.

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	15	0

Requirement Select
- Communications Literacy (CL1) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- SPAN3040 - Advanced Spanish Grammar

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Breadth Creative Arts (BCA) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Breadth American Institutions (BAI) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Breadth Humanities (BHU) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	15	0

Requirement Select
- Quantitative Literacy (QL) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- SPAN3060 - Advanced Spanish Conversation and Composition (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Breadth Life Sciences (BLS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Breadth Physical Sciences (BPS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- LING3200 - Introduction to Linguistics (DSS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	15	0

Requirement Select
- Communications Literacy (CL2) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- LING3200 - Introduction to Linguistics (DSS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Depth Life and Physical Sciences (DSC) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Quantitative Intensive (QI) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- SPAN4200 - Introduction to Hispanic Linguistics

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	15	0

Requirement Select
- Depth Social Sciences (DSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- LING2500 - Language & Religion

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- LING4100 - The Study of Language

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Major Emphasis Elective (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- LING4900 - Analysis of Cross-Cultural Difference

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Fall	15	0

Requirement Select
- Depth Humanities and Creative Arts (DHA) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Communications Intensive (CI) Courses

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- LING2100 - Languages in Global and Historical Context (BSS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Upper-Division Elective (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Upper-Division Elective (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Spring	15	0

Requirement Select
- Major Emphasis Elective (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Major Emphasis Elective (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Communications Intensive (CI) Courses

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Major Emphasis Elective (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Fall	15	0

Requirement Select
- Major Emphasis Elective (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Major Emphasis Elective (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Spring	15	0

Requirement Select
- Major Emphasis Elective (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Major Emphasis Elective (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Program Learning Outcomes

Program Learning Outcomes
https://artsci.usu.edu/assessments/

World Languages and Cultures: Portuguese Emphasis - BA

Program Overview

College	Department	Program Level
College of Arts & Sciences	World Languages and Cultures	Undergraduate

About this Degree
From the US to Europe to South America, graduates in Portuguese find roles in global business, healthcare, translation and interpretation, localization, teaching and education, NGOs and non-profits, development, security, intelligence, and diplomacy spheres.

Students in the USU Portuguese program may take courses ranging from Business Portuguese to Healthcare Translation and Interpretation to Brazilian Media, and beyond. Students explore the many cultures and countries of the Lusophone (Portuguese-speaking) world. Free tutoring, an active student Portuguese Club with many cultural and culinary activities, scholarship opportunities, and study abroad opportunities in Brazil or Portugal are available for students of Portuguese at USU. Students build skills in communication, analysis, problem solving, critical thinking, and cultural competence.

Many students with prior language experience choose a World Languages & Cultures major, or World Languages & Cultures as a dual major, to further develop and showcase their language skills to employers. DLI (Dual Language Immersion)/Bridge/AP (Advanced Placement)/IB language students, returned missionaries with language experience, heritage speakers, bilingual students, members of the military with language experience, and study abroad participants, often select a World Languages & Cultures major or as a dual major. Please contact your advisor for more information.

Admission Requirements for this Program
2.0 GPA minimum

Admission Requirements for Teaching Licensure track

GPA: New freshmen: 3.0 GPA; Transfer students from other institutions or other programs at USU: 3.0 GPA. Students must maintain a minimum 3.0 through graduation. Pass the USOE background check. Complete admission core course requirements (see STEP application). World Languages and Cultures majors/minors-obtain required OPI exam score prior to admission. Students should consult the application checklist: https://cehs.usu.edu/teal/files/undergrad/step-application-checklist-06242021.pdf and https://cehs.usu.edu/teal/undergraduate-1/sec-ed and contact a TEAL Advisor.

Program Requirements

Total Credits Required In Program Coursework	Total Credits Required To Earn This Credential
30-65	120

Simple Requisites

Program Requirements

World Languages and Cultures: Portuguese Emphasis - BA
The Portuguese major emphasis requires 30 credits, including LING4100 STUDY OF LANGUAGE, the required core course, and PORT3040 ADV GRAMMAR/COMPOSITION (CI). **Those with prior language experience may take the USU Language Proficiency Test for placement, and may earn up to 16 USU lower-division credits. No prior language skills are required**, and students may begin a new language upon entry to the major.

World Languages & Cultures BA, Emphasis in Portuguese *with* World Languages Education Track/Secondary School Licensure

- **Credits: 65 (30 credits + 35 STEP credits). 120 Total Credits.**
- **GPA required for STEP program:** 3.0 GPA
- **Minimum Grade Requirement:** All courses taken for the major and all **STEP** courses require a minimum grade of **C** or better. Courses may NOT be taken on a pass/fail basis (**except** for courses designated as pass/fail, such as SCED 3300, SCED 5630, SPAN 3010, SPAN 3520, and SPAN 4920).
- To be licensed to teach in the Utah public secondary school system, students completing the World Languages Education with Secondary School Licensure must complete the additional courses (28 credits) required by the Secondary Education Program (STEP). Courses may be subject to change, and students should contact the Secondary Education Advising Office for a current course list of STEP requirements. STEP Program: https://www.usu.edu/degrees-majors/secondary-teacher-education-program-step_licensure
- SCED4300 CLINICAL EXPERIENCE II and LING5400 TEACHING MODERN LANGUAGES **must be taken during the same semester,** and should be the last courses taken for the minor. These courses should be taken the fall semester before student teaching.
- Students completing endorsements must follow all state requirements, including ACTFL OPI/Praxis test score requirements.
- **World Languages Endorsement information: https://www.schools.utah.gov/licensing/endorsements/World%20Languages%20Endorsement%20Specs.pdf**

World Languages and Cultures: Portuguese Emphasis - BA

Type
Completion Requirement

Required Core Courses (6 credits)

Complete ALL of the following Courses:

- LING4100 - The Study of Language - 3cr.
- PORT3040 - Advanced Portuguese Grammar and Composition (CI) - 3cr.

NOTE:

1. LING4100 STUDY OF LANGUAGE - May be taken at any time, and is taught in English.

Elective Courses (24 credits)

In addition to the 6 credits above of LING4100 STUDY OF LANGUAGE and PORT3040 ADV GRAMMAR/COMPOSITION (CI) required 24 minimum additional credits selected from the following sets of courses:

Fulfill ANY of the following requirements:

Elective Portuguese courses

Complete ANY of the following Courses:

- PORT3000 - Intermediate Grammar and Composition - 3cr.
- PORT3100 - Healthcare Portuguese - 3cr.
- PORT3081 - Healthcare Translation in Portuguese - 3cr.
- PORT3116 - Navigating Identities of the Portuguese-speaking World - 3cr.
- PORT3117 - Cultural Issues Through Literature and FIlm - 3cr.
- PORT3118 - Popular Culture in the Portuguese-speaking World - 3cr.
- PORT3510 - Business Portuguese - 3cr.
- PORT3540 - Introduction to Translation Studies in Portuguese - 3cr.
- PORT3570 - Brazilian Culture and Civilization (DHA) - 3cr.
- PORT3630 - Literatures of the Portuguese-Speaking World (DHA) - 3cr.
- PORT3700 - Contemporary Brazilian Cinema - 3cr.
- PORT3800 - Portuguese III Study Abroad - 1cr.
- PORT4000 - Contemporary Issues in Brazil - 3cr.
- PORT4071 - Simultaneous and Consecutive Healthcare Interpretation - 3cr.
- PORT4100 - Trends in Lusophone Cultures - 3cr.
- PORT4200 - Brazilian Media in Global Context - 3cr.
- PORT4300 - Luso-Afro-Brazilian Women in Translation - 3cr.
- PORT4920 - Portuguese Language Tutoring - 1cr.

NOTE:

1. PORT3000 GRAMMAR AND COMP - Taken prior to PORT3040 ADV GRAMMAR/COMPOSITION (CI)
2. PORT3116 PORTUGUESE-SPEAKING WORLD - Bridge program only
3. PORT3117 CULTURE ISSUES THRU LIT & FILM - Bridge program only
4. PORT3118 POP CULTURE PORTUGUESE - Bridge program only
5. PORT4920 PORTUGUESE LANG TUTORING - Repeatable for credit up to 3 times

OR

Elective courses taught in English

Up to two courses (6 credits) of courses taught in English may be used towards the 24 credit requirement. **See note below for courses taught in English.**

Complete ANY of the following Courses:

- ANTH3130 - Peoples of Latin America (CI) - 3cr.
- LATS2200 - Introduction to Latin America - 3cr.
- LING2100 - Languages in Global and Historical Context (BSS) - 3cr.
- LING3100 - Language in Social Context - 3cr.
- LING4900 - Analysis of Cross-Cultural Difference - 3cr.
- POLS3270 - Latin American Government and Politics (DSS) - 3cr.
- POLS4450 - United States and Latin America (CI) - 3cr.

World Languages & Cultures BA, Emphasis in Portuguese with World Languages Education Track/Secondary School Licensure

Type
Completion Requirement

Optional Teaching Licensure

Courses for teaching emphases and the teaching minors may be subject to change, and students should contact the Secondary Education Advising Office for a current course list of STEP requirements.

Complete ALL of the following Courses:

- ITLS2500 - Technology Enabled Instruction - 3cr.
- LING5400 - Teaching Modern Languages - 3cr.
  AND SCED4300 - Clinical Experience II - 1cr.
- SCED3210 - Educational and Multicultural Foundations (DSS/CI) - 3cr.
- SCED5100 - Motivation and Classroom Management - 3cr.
- SCED5200 - Language, Literacy, and Learning in the Content Areas (CI) - 3cr.
- SCED5210 - Learning Theory, Curriculum, and Assessment - 3cr.
- SCED5630 - Student Teaching in Secondary Schools - 10cr.
- SCED5500 - Student Teaching Seminar - 2cr.
  OR LING5500 - Student Teaching Seminar - 2cr.
- SPED4000 - Education of Students with Disabilities - 3cr.

NOTE:

1. The special methods course is taught under LING5400 TEACHING MODERN LANGUAGES.
2. SCED4300 CLINICAL EXPERIENCE II and LING5400 TEACHING MODERN LANGUAGES must be taken during the same semester.

Additional Comments:

Licensure Notification

This program typically leads to licensure and was designed to meet licensing qualifications in the state of Utah. If students wish to work in another state within the United States, they should review the qualifications for that state and the Education Licensure Compliance Table provided by School of Teacher Education and Leadership.

For more information, please contact the School of Teacher Education and Leadership at https://cehs.usu.edu/teal/

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Bachelor's Degree)

Suggested Degree Maps

Degree Map Name
World Languages and Cultures BA: Portuguese emphasis, sample generic degree map for complete beginner
Total Degree Map Credits
120
Degree Map Effective Catalog Year
2027 -

Degree Map Narrative

This is a sample generic degree map for a complete beginner just starting with the language. DLI/Bridge students who have taken one or more Bridge courses may fulfill requirements quicker. Students with prior language experience and higher proficiency may take the USU Language Proficiency Placement Exam and possibly "test out of" levels to complete degree requirements quicker and take more advanced courses. Degree Maps will not be the same for all students. All students should meet with a World Languages & Cultures Advisor for personalized degree planning.

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	13	0

Requirement Select
- PORT1030 - Accelerated Portuguese First Year

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- Breadth Social Sciences (BSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Breadth Creative Arts (BCA) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Breadth Humanities (BHU) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	16	0

Requirement Select
- PORT2030 - Accelerated Portuguese Second Year

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- Quantitative Literacy (QL) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Breadth Life Sciences (BLS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Breadth Physical Sciences (BPS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Breadth American Institutions (BAI) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	15	0

Requirement Select
- Communications Literacy (CL2) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- PORT3040 - Advanced Portuguese Grammar and Composition (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Depth Life and Physical Sciences (DSC) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Quantitative Intensive (QI) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	15	0

Requirement Select
- Depth Social Sciences (DSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- PORT 3XXX elective credit (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- LING4100 - The Study of Language

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Fall	15	0

Requirement Select
- PORT3570 - Brazilian Culture and Civilization (DHA)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- PORT 3XXX elective credit (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Upper-Division Elective Course (3000-level or higher) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Upper-Division Elective Course (3000-level or higher) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Upper-Division Elective Course (3000-level or higher) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Spring	15	0

Requirement Select
- PORT 3XXX elective credit (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- PORT 3XXX elective credit (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- PORT 4XXX elective credit (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Communications Intensive (CI) Courses

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective Credit (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Fall	15	0

Requirement Select
- PORT 4XXX elective credit (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective Credit (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective Credit (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Fall	16	0

Requirement Select
- PORT 4XXX elective credit (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- PORT4920 - Portuguese Language Tutoring

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Program Learning Outcomes

Program Learning Outcomes

https://artsci.usu.edu/assessments/

World Languages and Cultures: Russian Emphasis - BA

Program Overview

College
College of Arts & Sciences

Department
World Languages and Cultures

Program Level
Undergraduate

About this Degree

Students in the USU Russian program may take courses ranging from Business Russian, to Russian Translation, to Medical Interpreting in Russian, and more. Students explore the many cultures and countries of the Russian-speaking world. Free tutoring, an active student Slavic Club, and scholarship and study abroad opportunities are available for students of Russian. Students build skills in communication, analysis, problem solving, critical thinking, and cultural competence. Graduates chose many career pathways with opportunities to use Russian: diplomacy, intelligence, national security, international business, STEM fields, education, NGOs, humanitarian work, and development, as well as in translation, interpretation, and localization.

Many students with prior language experience choose a World Languages & Cultures major, or World Languages & Cultures as a dual major, to further develop and showcase their language skills to employers. DLI (Dual Language Immersion)/Bridge/AP (Advanced Placement)/IB language students, returned missionaries with language experience, heritage speakers, bilingual students, members of the military with language experience, and study abroad participants, often select a World Languages & Cultures major or as a dual major. Please contact your advisor for more information.

Admission Requirements for this Program

2.0 GPA minimum

Program Requirements

Total Credits Required In Program Coursework
30

Total Credits Required To Earn This Credential
120

Simple Requisites

Program Requirements

The Russian major emphasis requires 30 credits, including LING4100 STUDY OF LANGUAGE, the required core course, and RUSS 3040. **Those with prior language experience may take the USU Language Proficiency Test for placement, and may earn up to 16 USU lower-division credits. No prior language skills are required**, and students may begin a new language upon entry to the major.

World Languages and Cultures: Russian Emphasis - BA

Type
Completion Requirement

Required Courses (6 credits)

Complete ALL of the following Courses:

- LING4100 - The Study of Language - 3cr.
- RUSS3040 - Advanced Russian Grammar and Composition - 3cr.

NOTE:

1. LING4100 STUDY OF LANGUAGE - May be taken at any time, and is taught in English.

Elective Courses (24 credits)

In addition to the 6 credits above of LING 4100 and RUSS 3040, students must complete 24 minimum credits selected from the following sets of courses:

Fulfill ANY of the following requirements:

Russian Elective courses

Complete ANY of the following Courses:

- RUSS2030 - Accelerated Russian Second Year - 4cr.
- RUSS3050 - Advanced Russian Grammar and Composition - 3cr.
- RUSS3116 - Rusophone Popular Culture: Trends and Traditions - 3cr.
- RUSS3117 - Exploring Russia: East to West - 3cr.
- RUSS3400 - Russian Language through Art - 3cr.
- RUSS3100 - Healthcare Russian - 3cr.
- RUSS3300 - Contemporary Russian Language and Culture (DHA) - 3cr.
- RUSS3510 - Business Russian (CI) - 3cr.
- RUSS3540 - Russian Translation for Science, Business, and Culture - 3cr.
- RUSS3600 - Ethical Communication in Russian Life - 3cr.
- RUSS4081 - Medical Interpreting Training - 3cr.
- RUSS4920 - Russian Language Tutoring - 1cr.

NOTE:

1. RUSS3116 RUSS POP CULTURE - Bridge program only
2. RUSS3117 EXPLORING RUSSIA - Bridge program only
3. RUSS4920 RUSS LANG TUTORING - Repeatable for credit

OR

Elective courses taught in English

Up to four courses (12 credits) of electives taught in English may apply towards the 24 total elective credits.

Complete ALL of the following Courses:

- CAI5510 - Russian Security Affairs - 3cr.
- CMST3330 - Intercultural Communication (DSS) - 3cr.
- HIST3330 - Modern Russia and the Soviet Experiment - 3cr.
- LING2100 - Languages in Global and Historical Context (BSS) - 3cr.
- LING3100 - Language in Social Context - 3cr.
- LING3200 - Introduction to Linguistics (DSS) - 3cr.
- LING4900 - Analysis of Cross-Cultural Difference - 3cr.
- LANG4330 - Advanced Perspectives in Global Communication - 3cr.
- POLS3220 - Russian and East European Government and Politics (DSS) - 3cr.

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Bachelor's Degree)

Suggested Degree Maps

Degree Map Name
World Languages and Cultures BA: Russian Emphasis, sample map for beginner
Total Degree Map Credits
120
Degree Map Effective Catalog Year
2027 -

Degree Map Narrative

- Following is a sample four-year plan. Please note that student-specific plans may differ.
- Meet with an academic advisor to create a specific plan that best fits your academic needs.
- The student is ultimately responsible for knowing and completing all degree requirements.
- Make sure you meet the registration requirements for each class by clicking the course link and checking any prerequisites or corequisites.
- Consultation with an advisor may result in an altered plan customized for an individual student
- Check your Degree Works for requirements and completion.

NOTES:

- Following is a **sample**, generic plan for a student who is just beginning to study the Russian language.
- **Students with higher language proficiency and prior language experience, Bridge program participants, and those who test out of lower-division language courses at USU, may potentially complete degree requirements much faster.**
- Contact the Department of World Languages & Cultures for proficiency and placement testing in Russian and 50+ other languages, including other Slavic languages.
- The department offers some accelerated language courses at the beginning and intermediate levels (RUSS1040 ACCELERATED RUSSIAN I combines coverage of RUSS1010 RUSSIAN FIRST YR I and RUSS1020 RUSSIAN FIRST YR II content; and RUSS2030 ACCELERATED RUSSIAN II combines coverage of RUSS2010 RUSSIAN SECOND YR I and RUSS2020 RUSSIAN SECOND YR II content at an accelerated pace)
- Several language or linguistics courses in the department offer Communications Intensive (CI) or Depth Humanities and Creative Arts (DHA) attributes.
- Specific plans for each student will differ. Below is just a suggested possible plan.

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	16	0

Requirement Select
- RUSS1040 - Accelerated Russian First Year (Inactive)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- Communications Literacy (CL1) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Breadth Life Sciences (BLS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Breadth Humanities (BHU) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Breadth American Institutions (BAI) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	16	0

Requirement Select

- RUSS2030 - Accelerated Russian Second Year

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- Quantitative Literacy (QL) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Breadth Physical Sciences (BPS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Breadth Creative Arts (BCA) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Elective (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	15	0

Requirement Select

- RUSS3040 - Advanced Russian Grammar and Composition

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Communications Literacy (CL2) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Depth Life and Physical Sciences (DSC) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Quantitative Intensive (QI) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	15	0

Requirement Select
- RUSS3050 - Advanced Russian Grammar and Composition

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- POLS3220 - Russian and East European Government and Politics (DSS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Elective (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Fall	15	0

Requirement Select
- RUSS3300 - Contemporary Russian Language and Culture (DHA)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- RUSS 3XXX elective course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- LING4100 - The Study of Language

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- LING2100 - Languages in Global and Historical Context (BSS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Elective (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Spring	13	0

Requirement Select
- RUSS 3XXX elective course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- RUSS3510 - Business Russian (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Elective (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- RUSS4920 - Russian Language Tutoring

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1 - 3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Fall	16	0

Requirement Select
- RUSS 3XXX elective credit (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- RUSS4920 - Russian Language Tutoring

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1 - 3
Clinical	-
Criticality	No

Requirement Select
- Elective (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Spring	14	0

Requirement Select
- RUSS 4XXX elective credit (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- RUSS4920 - Russian Language Tutoring

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1 - 3
Clinical	-
Criticality	No

Requirement Select
- CAI5510 - Russian Security Affairs

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Elective (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Program Learning Outcomes

Program Learning Outcomes

https://artsci.usu.edu/assessments/

World Languages and Cultures: Spanish Emphasis - BA

Program Overview

College
College of Arts & Sciences

Department
World Languages and Cultures

Program Level
Undergraduate

About this Degree

Studying Spanish, from language to cultures, from literature to film, from Business Spanish to healthcare interpretation and beyond gives graduates additional skills and value added to be competitive in many career pathways both locally and globally: education and teaching, technology and AI, healthcare, legal, international business, global development, tourism and hospitality, law enforcement, intelligence, national security, creative industries, diplomacy, research and development, non-profits and NGOs, media, and much more. Students develop durable skills in communication, intercultural competence, analysis, critical thinking, and problem solving, as well as translation, interpretation, and localization. USU offers free Spanish language tutoring, a very active student Spanish Club, cultural activities, USU study abroad programs in Spain and Argentina, scholarship opportunities, credentials in healthcare and legal interpretation, and many hands-on internship/practicum opportunities in local companies and communities.

Admission Requirements for this Program

World Languages and Cultures: Spanish Emphasis - BA

2.0 GPA minimum

Admission Requirements for World Languages & Cultures BA, Spanish Emphasis *with* World Languages Education Track/Secondary School Licensure

GPA: New freshmen: 3.0 GPA for this program only; Transfer students from other institutions or other programs at USU: 3.0 GPA. Students must maintain a **minimum 3.0** through graduation. Pass the USOE background check. Complete admission core course requirements (see STEP application). World Languages and Cultures majors/minors-obtain required OPI exam score prior to admission. Students should consult the application checklist: https://cehs.usu.edu/teal/files/undergrad/step-application-checklist-06242021.pdf and https://cehs.usu.edu/teal/undergraduate-1/sec-ed and contact a TEAL Advisor.

Program Requirements

Total Credits Required In Program Coursework
30-65

Total Credits Required To Earn This Credential
120

Simple Requisites

Program Requirements

World Languages and Cultures: Spanish Emphasis - BA

30 credits required

World Languages & Cultures BA, Spanish Emphasis *with* World Languages Education Track/Secondary School Licensure

65 credits required (30 program + 35 STEP)

- **Credits: 58 (30 program credits + STEP credits)**
- **GPA required for STEP program:** 3.0 GPA
- **Minimum Grade Requirement:** All courses taken for the major and all **STEP** courses require a minimum grade of **C** or better. Courses may NOT be taken on a pass/fail basis (**except** for courses designated as pass/fail, such as SCED 3300, SCED 5630, SPAN 3010, SPAN 3520, and SPAN 4920).
- To be licensed to teach in the Utah public secondary school system, students completing the World Languages Education with Secondary School Licensure must complete the additional courses (28 credits) required by the Secondary Education Program (STEP). Courses may be subject to change, and students should contact the Secondary Education Advising Office for a current course list of STEP requirements. STEP Program: https://www.usu.edu/degrees-majors/secondary-teacher-education-program-step_licensure
- SCED4300 CLINICAL EXPERIENCE II and LING5400 TEACHING MODERN LANGUAGES **must be taken during the same semester,** and should be the last courses taken for the minor. These courses should be taken the fall semester before student teaching.
- Students completing endorsements must follow all state requirements, including ACTFL OPI/Praxis test score requirements.
- World Languages Endorsement information: https://www.schools.utah.gov/licensing/endorsements/World%20Languages%20Endorsement%20Specs.pdf

World Languages and Cultures: Spanish Emphasis - BA

Type
Completion Requirement

Required Courses (6 credits)

Complete ALL of the following Courses:

- SPAN3040 - Advanced Spanish Grammar - 3cr.
  OR SPAN3060 - Advanced Spanish Conversation and Composition (CI) - 3cr.
- LING4100 - The Study of Language - 3cr.

NOTE:

1. SPAN3040 ADV SPANISH GRAMMAR or SPAN3060 ADV SPANISH CONV AND COMP (CI) can be taken concurrently with the required program courses, and be completed with a C or better.
2. LING4100 STUDY OF LANGUAGE - May be taken at any time, and is taught in English

Elective Courses (24 credits)

It is strongly recommended that all Spanish Emphasis majors complete the following 21 credits as part of the 24 required credits for Spanish: SPAN3300 INTRO TO HISPANIC LITERATURE **AND** then least one SPAN 34XX- *OR* SPAN 35XX-level course (3 credits); *AND* at least one SPAN 36XX-level course (3 credits); *AND* three (9 credits) SPAN 49XX- *OR* SPAN 5XXX-level courses.

Courses for the major may **not** be taken on a pass/fail basis, **except** for SPAN 3010, SPAN 3520, and SPAN 4920 which may be taken pass/fail.

Complete ANY of the following Courses:

- SPAN3010 - Hispanic Outreach Practicum - 1cr.
- SPAN3040 - Advanced Spanish Grammar - 3cr.
- SPAN3060 - Advanced Spanish Conversation and Composition (CI) - 3cr.

- SPAN3061 - Fundamentals of Translation and Interpretation - 3cr.
- SPAN3081 - Healthcare Translation - 3cr.
- SPAN3082 - Legal and Business Translation - 3cr.
- SPAN3100 - Spanish Healthcare - 3cr.
- SPAN3116 - Spanish Pop Culture: Film, Media and Entertainment - 3cr.
- SPAN3117 - Building Identities (Breaking Down Walls, Building Identities) - 3cr.
- SPAN3118 - Literature and Film: Contemporary Issues - 3cr.
- SPAN3300 - Introduction to Hispanic Literature and Literary Analysis - 3cr.
- SPAN3400 - Introduction to Hispanic Cinema - 3cr.
- SPAN3510 - Business Spanish - 3cr.
- SPAN3520 - Business Spanish Practicum - 1cr.
- SPAN3550 - Spanish Culture and Civilization (DHA) - 3cr.
- SPAN3560 - Introduction to U.S. Latino/a Culture - 3cr.
- SPAN3570 - Hispanic American Culture and Civilization (DHA) - 3cr.
- SPAN3600 - Survey of Spanish Literature I (DHA) - 3cr.
- SPAN3610 - Survey of Spanish Literature II (DHA/CI) - 3cr.
- SPAN3620 - Survey of Hispanic American Literature I (DHA) - 3cr.
- SPAN3630 - Survey of Hispanic American Literature II (DHA) - 3cr.
- SPAN4091 - Computer Assisted Translation - 3cr.
- SPAN3640 - Introduction to U.S. Latino/a Literature - 3cr.
- SPAN3650 - Spanish Literature-Study Abroad - 1cr.
- SPAN3660 - Hispanic American Literature - Study Abroad - 1cr.
- SPAN3800 - Spanish III Study Abroad - 1cr.
- SPAN4071 - Simultaneous and Consecutive Healthcare Interpretation - 3cr.
- SPAN4072 - Simultaneous and Consecutive Legal Interpretation - 3cr.
- SPAN4081 - Medical Interpretation Training (BTG) - 3cr.
- SPAN4082 - Advanced Legal Translation and Interpretation - 3cr.
- SPAN4200 - Introduction to Hispanic Linguistics - 3cr.
- SPAN4800 - Hispanic Culture and Civilization-Study Abroad - 1cr.
- SPAN4880 - Individual Readings - 1cr.
- SPAN4900 - Topics of Spanish Cultural Production - 3cr.
- SPAN4910 - Topics of Hispanic American Cultural Production - 3cr.
- SPAN4920 - Spanish Language Tutoring - 1cr.
- SPAN4930 - Topics of U.S. Latina/o Literature and Culture - 3cr.
- SPAN5060 - Spanish for Professional and Academic Purposes - 3cr.

NOTE:

1. SPAN3040 ADV SPANISH GRAMMAR - If not already used as WL&C Major Spanish Emphasis core course.
2. SPAN3060 ADV SPANISH CONV AND COMP (CI) - If not already used as WL&C Major Spanish Emphasis core course.
3. SPAN3116 SPANISH POP CULTURE - Bridge program only.
4. SPAN3117 BUILDING IDENTITIES - Bridge program only.
5. SPAN3118 LIT AND FILM: CONTEMPORARY - Bridge program only.
6. SPAN3520 BUSINESS SPANISH PRACT - 1 credit.
7. SPAN4200 INTRO TO HISPANIC LINGUISTICS - If not used to fulfill WL&C major core course in linguistics.
8. SPAN5060 SPANISH FOR PROFESSIONS - Prerequisite for SPAN5060 SPANISH FOR PROFESSIONS; Co-requisite: one Span 36XX-level course (3 credits).

Note: Courses for the major may not be taken on a pass/fail basis, except for SPAN3010 HISPANIC OUTREACH PRACT, SPAN3520 BUSINESS SPANISH PRACT, and SPAN4920 SPANISH LANG TUTORING which may be taken as pass/fail.

World Languages & Cultures BA, Emphasis in Spanish with World Languages Education Track/Secondary School Licensure

Type
Completion Requirement

World Languages Education Track/Secondary School Licensure Required Courses (35 credits)

Courses for teaching emphases and the teaching minors may be subject to change, and students should contact the Secondary Education Advising Office for a current course list of STEP requirements.

Complete ALL of the following Courses:

- ITLS2500 - Technology Enabled Instruction - 3cr.
- LING5400 - Teaching Modern Languages - 3cr.
  AND SCED4300 - Clinical Experience II - 1cr.
- SCED3210 - Educational and Multicultural Foundations (DSS/CI) - 3cr.
- SCED5100 - Motivation and Classroom Management - 3cr.
- SCED5200 - Language, Literacy, and Learning in the Content Areas (CI) - 3cr.
- SCED5210 - Learning Theory, Curriculum, and Assessment - 3cr.
- SCED5630 - Student Teaching in Secondary Schools - 10cr.
- SCED5500 - Student Teaching Seminar - 2cr.
  OR LING5500 - Student Teaching Seminar - 2cr.
- SPED4000 - Education of Students with Disabilities - 3cr.

NOTE:

1. The special methods course is taught under LING5400 TEACHING MODERN LANGUAGES.
2. SCED4300 CLINICAL EXPERIENCE II and LING5400 TEACHING MODERN LANGUAGES must be taken during the same semester.

Additional Comments:

Licensure Notification

This program typically leads to licensure and was designed to meet licensing qualifications in the state of Utah. If students wish to work in another state within the United States, they should review the qualifications for that state and the Education Licensure Compliance Table provided by School of Teacher Education and Leadership.

For more information, please contact the School of Teacher Education and Leadership at https://cehs.usu.edu/teal/

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Bachelor's Degree)

Suggested Degree Maps

Degree Map Name
Sample Degree Map for Beginning Spanish Student
Total Degree Map Credits
120
Degree Map Effective Catalog Year
2027 -

Degree Map Narrative

- The following is a sample, generic 4-year plan for a student with no prior Spanish language experience. Student specific plans vary.
- Students with prior Spanish language experience and/or coursework should take the Language Proficiency Placement Test in the Department of World Languages & Cultures and may complete degree requirements quicker or "test out of" some courses.
- Please meet with an academic advisor. Check your Degree Works for requirements and completion information.
- Bridge program students should meet with a Dept. of World Languages & Cultures advisor because Bridge courses count for the Spanish Major emphasis and Spanish Minor.
- Check your Degree Works for requirements and completion.

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	16	0

Requirement Select
- SPAN1030 - Accelerated Spanish First Year

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- Communications Literacy (CL1) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Breadth Humanities (BHU) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Breadth Physical Sciences (BPS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Breadth Life Sciences (BLS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	16	0

Requirement Select
- SPAN2030 - Accelerated Spanish Second Year

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- Quantitative Literacy (QL) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Communications Literacy (CL2) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Breadth American Institutions (BAI) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- SPAN3040 - Advanced Spanish Grammar

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Breadth Social Sciences (BSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Depth Social Sciences (DSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Breadth Creative Arts (BCA) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Communications Intensive (CI) Courses

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	15	0

Requirement Select
- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	15	0

Requirement Select
- LING4100 - The Study of Language

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- SPAN3060 - Advanced Spanish Conversation and Composition (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Quantitative Intensive (QI) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Depth Life and Physical Sciences (DSC) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Fall	15	0

Requirement Select
- SPAN3300 - Introduction to Hispanic Literature and Literary Analysis

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- SPAN 34XX or SPAN 35XX-level course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Spanish Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Spring	15	0

Requirement Select
- SPAN3600 - Survey of Spanish Literature I (DHA)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- SPAN3620 - Survey of Hispanic American Literature I (DHA)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Spanish Upper-Division Elective Course (3000-level or higher) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Fall	15	0

Requirement Select
- SPAN4910 - Topics of Hispanic American Cultural Production

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Spanish Upper-Division Elective Course (3000-level or higher) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Spanish Upper-Division Elective Course (3000-level or higher) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Spring	13	0

Requirement Select
- SPAN4900 - Topics of Spanish Cultural Production

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Elective (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
-

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Program Learning Outcomes

Program Learning Outcomes
https://artsci.usu.edu/assessments/

World Languages and Cultures: Translation and Interpretation Emphasis - BA

Program Overview

College
College of Arts & Sciences

Department
World Languages and Cultures

Program Level
Undergraduate

About this Degree
The program in Translation and Interpretation Studies provides durable and long-lasting skills useful in healthcare, legal, business, diplomacy, and education spheres. The program integrates micro-credentials in medical interpretation, court interpretation, translation, and localization. The program offers experiential learning, with real-life, hands-on, work-based learning experiences by providing meaningful activities and community engagement. With the growing demand for qualified translators and interpreters in Utah and across the United States, this BA provides the necessary skills in fields that have high demand in the industry. Students complete industry-specific training and develop durable skills in intercultural competence, communication, localization, analysis, problem solving, and critical thinking. Faculty feature accomplished professional translators and interpreters. The active student club, Aggie Translators & Interpreters, provides valuable practice and networking opportunities. The department of World Languages & Cultures offers many opportunities for scholarships, study abroad, experiential learning, community engaged learning, and cultural activities.

The curriculum offers the choice of two tracks: one in Healthcare Translation and Interpretation, and one in Legal & Business Translation and Interpretation. Graduates of this program are poised to make a significant economic impact, filling critical roles in healthcare settings, legal proceedings, global and local business and industry, classrooms, and community services.

- Please consult regularly with your departmental advisor. Admitted and current students must meet with an advisor.
- The highest math requirement for this degree is the Quantitative Literacy (QL) of the student's choice.

Currently available for Spanish only, other languages coming soon. Courses, certificates, and community certificates are available for other languages.

Admission Requirements for this Program
- 2.0 GPA Minimum

Program Requirements

Total Credits Required In Program Coursework
30

Total Credits Required To Earn This Credential
120

Simple Requisites

Program Requirements

30 credits required.

World Languages and Cultures: Translation and Interpretation Emphasis - BA

Type
Completion Requirement

Prerequisite Courses (3 credits)

This course may be taken concurrently with the required program courses.

A minimum grade of C or better is required.

Complete at least 1 of the following courses:

- SPAN3040 - Advanced Spanish Grammar - 3cr.
- SPAN3060 - Advanced Spanish Conversation and Composition (CI) - 3cr.

Required Courses (12 credits)

The following classes can be taken concurrently with any other.

Complete ALL of the following Courses:

- SPAN3061 - Fundamentals of Translation and Interpretation - 3cr.
- SPAN4091 - Computer Assisted Translation - 3cr.
- SPAN4093 - Translation/Interpretation Internship - 3cr.
- LING4100 - The Study of Language - 3cr.
  OR ANTH4100 - The Study of Language - 3cr.

NOTE:

1. LING4100 STUDY OF LANGUAGE/ANTH4100 STUDY OF LANGUAGE is taught in English, and is required of all World Languages & Cultures majors

Track Option (12 credits)

Choose a track, in either Healthcare or Legal & Business

Fulfill ANY of the following requirements:

Healthcare Translation and Interpretation Track

Complete ALL of the following Courses:

- SPAN3081 - Healthcare Translation - 3cr.
  OR PORT3081 - Healthcare Translation in Portuguese - 3cr.
- SPAN3100 - Spanish Healthcare - 3cr.
- SPAN4071 - Simultaneous and Consecutive Healthcare Interpretation - 3cr.
  OR PORT4071 - Simultaneous and Consecutive Healthcare Interpretation - 3cr.
- SPAN4081 - Medical Interpretation Training (BTG) - 3cr.

OR

Legal and Business Translation and Interpretation Track

Complete ALL of the following Courses:

- SPAN3082 - Legal and Business Translation - 3cr.
- SPAN3510 - Business Spanish - 3cr.
- SPAN4072 - Simultaneous and Consecutive Legal Interpretation - 3cr.
- SPAN4082 - Advanced Legal Translation and Interpretation - 3cr.

Electives (3 credits)

Earn at least 3 credits from the following:

- CMST3330 - Intercultural Communication (DSS) - 3cr.
- LANG1050 - Language Skills and Career Design - 1cr.
- SPAN3083 - Literary Translation - 3cr.
- SPAN3300 - Introduction to Hispanic Literature and Literary Analysis - 3cr.
- SPAN3550 - Spanish Culture and Civilization (DHA) - 3cr.
- SPAN3570 - Hispanic American Culture and Civilization (DHA) - 3cr.
- SPAN4092 - Technical Communication Applied to Translation - 3cr.

Minimum University Requirements

Minimum University Requirements

Minimum University Requirements (Bachelor's Degree)

Suggested Degree Maps

Degree Map Name
Suggested Degree Map - Sample Degree Map for beginner in Spanish
Total Degree Map Credits
120
Degree Map Effective Catalog Year
2027 -

Degree Map Narrative

This is just a generic, sample Degree Map for a complete beginner in Spanish. Students with prior language experience and higher proficiency in the language may complete coursework faster. Students are advised to take the USU Language Proficiency and Placement test and to meet with an advisor. Some students may "test out of" lower levels.

- Following is a sample four-year plan. Please note that student-specific plans may differ.
- Meet with an academic advisor to create a specific plan that best fits your academic needs.
- The student is ultimately responsible for knowing and completing all degree requirements.
- Make sure you meet the registration requirements for each class by clicking the course link and checking any prerequisites or corequisites.
- Consultation with an advisor may result in an altered plan customized for an individual student
- Check your Degree Works for requirements and completion.

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	16	0

Requirement Select

- Communications Literacy (CL1) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- SPAN1030 - Accelerated Spanish First Year

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- Breadth Life Sciences (BLS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Breadth Humanities (BHU) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Breadth Creative Arts (BCA) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	15	0

Requirement Select
- LING4100 - The Study of Language

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Quantitative Literacy (QL) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Breadth American Institutions (BAI) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Breadth Social Sciences (BSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Breadth Physical Sciences (BPS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	16	0

Requirement Select

- Communications Literacy (CL2) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- SPAN2030 - Accelerated Spanish Second Year

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select

- Depth Social Sciences (DSS) Course

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Communications Intensive (CI) Courses

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	15	0

Requirement Select

- SPAN3060 - Advanced Spanish Conversation and Composition (CI)

  OR
- SPAN3060 - Advanced Spanish Conversation and Composition (CI)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- SPAN3100 - Spanish Healthcare

  OR
- SPAN3510 - Business Spanish

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Advanced Elective Course in program, in Spanish (DHA) (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Fall	15	0

Requirement Select

- SPAN3061 - Fundamentals of Translation and Interpretation

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- SPAN4081 - Medical Interpretation Training (BTG)
  OR
- SPAN3082 - Legal and Business Translation

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Spring	15	0

Requirement Select

- SPAN4071 - Simultaneous and Consecutive Healthcare Interpretation
  OR
- SPAN4082 - Advanced Legal Translation and Interpretation

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- SPAN4091 - Computer Assisted Translation

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select

- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Fall	15	0

Requirement Select

- SPAN4071 - Simultaneous and Consecutive Healthcare Interpretation
  OR
- SPAN4072 - Simultaneous and Consecutive Legal Interpretation

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- SPAN4092 - Technical Communication Applied to Translation

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 4	Spring	13	0

Requirement Select
- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective Course (Generic)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Requirement Select
- Elective Course (Generic)

OR
- LANG1050 - Language Skills and Career Design

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	1
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Program Learning Outcomes

Program Learning Outcomes

https://artsci.usu.edu/assessments/

Yoga Studies - Minor

Program Overview

College
College of Education & Human Services

Department
Kinesiology and Health Science

Program Level
Undergraduate

About this Degree

The Yoga Studies curriculum promotes a sequential approach to the study of yoga history, literature, philosophy, and practice and includes an accredited 200- & 300-hr YOGA ALLIANCE® Teacher Training Program. Pursuing completion of the 200-hr training only will not fulfill completion of the minor. There is no guarantee in which semester a particular course will be taught. Please consult with the advisor to plan your schedule.

Admission Requirements for this Program

Students from all USU majors who have at least a 2.0 overall GPA qualify to enter the Yoga Studies minor. A 2.0 overall GPA is also required for the minor to be awarded, and it may only be completed in conjunction with a bachelor's degree. Please note that this minor incurs differential tuition beyond plateau tuition rates, regardless of whether you pursue certification.

Program Requirements

Total Credits Required In Program Coursework
20

Total Credits Required To Earn This Credential
20

Simple Requisites

Program Requirements

A 2.0 overall GPA is also required for the minor to be awarded, and it may only be completed in conjunction with a bachelor's degree.

Section 1

Type
Completion Requirement

Yoga Studies Minor Core Curriculum (17 credits)

Fulfill ALL of the following requirements:

Fall Semester

Complete ALL of the following Courses:

- PE1057 - Yoga - 1cr.
- KIN3010 - Yoga Technique I - 3cr.
- KIN3011 - Introduction to Yoga Studies - 1cr.
- KIN3070 - Yoga Anatomy - 3cr.

NOTE:

1. PE1057 YOGA - Is the required Yoga Practicum course.
2. KIN3070 YOGA ANATOMY - Other anatomy-related courses cannot be substituted in place of KIN3070 YOGA ANATOMY. It is required to complete KIN3070 YOGA ANATOMY for the minor regardless if another anatomy course was already completed.

AND

Spring Semester

Complete ALL of the following Courses:

- KIN3020 - Yoga Teaching Methodology I - 3cr.
- KIN3021 - Yoga Technique II - 3cr.
- KIN3830 - The History of Yoga - 3cr.
  OR RELS3830 - The History of Yoga - 3cr.
  OR ENGL3830 - The History of Yoga - 3cr.
  OR HIST3830 - The History of Yoga - 3cr.

Section 2

Type
Completion Requirement

Yoga Studies Minor Electives (3 credits)

Earn at least 3 credits from the following:

- ENGL3060 - Mind And Body: The Rhetoric Of Health And Healing (DHA) - 3cr.
- KIN3700 - Meditation and Mindfulness: History and Practice - 3cr.
- KIN4015 - Yoga and Nature - 3cr.
- KIN5900 - Independent Study - 1cr.
- RELS3020 - Introduction to Hinduism (DHA) - 3cr.
  OR RELS3010 - Introduction to Buddhism (DHA) - 3cr.
  OR HIST3020 - Introduction to Hinduism (DHA) - 3cr.
- RELS3420 - Gods and Goddesses of India - 3cr.
- RELS3820 - Hindu Sacred Texts (CI) - 3cr.
- RELS4015 - Buddhism and the West - 3cr.
- RELS4910 - Special Topics in Religious Studies - 1cr.

NOTE:

1. KIN5900 INDEPENDENT STUDY can be a study abroad experience in India that may be available as part of this program. However, its future availability is currently uncertain. For the most up-to-date information, please contact the program director, Emily Perry.
2. RELS4910 ST: RELIGIOUS STUDIES is only approved on a case-by-case basis, when the topic is relevant to Yoga Studies (e. g., when it is taken for study abroad to India). This course is offered infrequently, and when it is offered, it is often on a topic that has little to do with yoga.

Teacher Certification

Please note, 200- & 300-hour certificates cannot be offered together at this time, it must be one or the other pending requirements met. We do not currently offer the 500-hour option. For additional information, please contact the Yoga program director.

Program Learning Outcomes

Program Learning Outcomes

https://cehs.usu.edu/khs/assessment

All Courses

ACCT2010 - Financial Accounting Principles - 3 - Credits

Course Overview

Course Prefix
ACCT

Course Number
2010

Department
School of Accounting

Course Title
Financial Accounting Principles

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course is a survey of uses of accounting information by investors and creditors for decision making. Emphasis is placed on basic accounting principles used to prepare, analyze, and interpret financial statements.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

ACCT2020 - Managerial Accounting Principles - 3 - Credits

Course Overview

Course Prefix
ACCT

Course Number
2020

Department
School of Accounting

Course Title
Managerial Accounting Principles

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course is a survey of uses of accounting information by managers for decision making, including planning, budgeting, and controlling operations. Emphasis is placed on accumulation, analysis, and control of product and service costs.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ACCT2010 - Financial Accounting Principles

ACCT3100 - Critical Evaluation of Accounting Issues - 3 - Credits

Course Overview

Course Prefix
ACCT

Course Number
3100

Department
School of Accounting

Course Title
Critical Evaluation of Accounting Issues

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces students to applications of the data analytics framework in accounting, emphasizing how to ask and inform questions using a variety of innovative technologies.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisites

Type
Prerequisite

Required

Complete ALL of the following Courses:

- DATA1100 - Excel for Business Analysis
- DATA2100 - Data and Information in Business

Corequisites

Type
Corequisite

Required

Enroll in the following Courses:

- DATA3100 - Making Decisions with Data

Course Learning Objectives

Course Learning Outcomes

1. Apply analytical reasoning to transform unstructured business problems into accounting questions and develop effective test plans using appropriate analytical tools.

2. Interpret and communicate accounting insights by evaluating results within established frameworks and presenting findings clearly to diverse audiences.

ACCT3110 - Intermediate Financial Accounting and Reporting I - 3 - Credits

Course Overview

Course Prefix
ACCT

Course Number
3110

Department
School of Accounting

Course Title
Intermediate Financial Accounting and Reporting I

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
In this course, students study accounting principles, theory, and practice relating to the financial reporting of assets.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Earn a minimum grade of B in the following:

- ACCT2010 - Financial Accounting Principles

Required

Complete ALL of the following Courses:

- ACCT2020 - Managerial Accounting Principles

ACCT3130 - Business Taxation - 3 - Credits

Course Overview

Course Prefix
ACCT

Course Number
3130

Department
School of Accounting

Course Title
Business Taxation

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students learn about federal income taxation of businesses and are introduced to federal income tax return preparation for businesses.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ACCT2010 - Financial Accounting Principles

ACCT3140 - Auditing Principles and Techniques - 3 - Credits

Course Overview

Course Prefix
ACCT

Course Number
3140

Department
School of Accounting

Course Title
Auditing Principles and Techniques

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students learn fundamental principles and techniques of auditing and reporting, presented in the context of the audit logic sequence, and integrative applications emphasizing audits of organizational resources, processes, and systems. Students study ethics, legal environment, auditing standards, and fraud.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ACCT3110 - Intermediate Financial Accounting and Reporting I

ACCT3400 - Auditing Principles and Techniques - 3 - Credits

Course Overview

Course Prefix
ACCT

Course Number
3400

Department
School of Accounting

Course Title
Auditing Principles and Techniques

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students learn fundamental principles and techniques of auditing and reporting, presented in the context of the audit logic sequence, and integrative applications emphasizing audits of organizational resources, processes, and systems. Students study ethics, legal environment, auditing standards, and fraud.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ACCT3110 - Intermediate Financial Accounting and Reporting I

ACCT3810 - Accounting for Entrepreneurial Strategy - 3 - Credits

Course Overview

Course Prefix
ACCT

Course Number
3810

Department
School of Accounting

Course Title
Accounting for Entrepreneurial Strategy

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces students to the foundational principles of financial, managerial, and tax accounting within the context of entrepreneurial decision-making.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Course Learning Objectives

Course Learning Outcomes

1. Explore the implications of different entity forms on business operations, including operational, financial, and tax impacts.
2. Understand the fundamental concepts of financial, managerial, and tax accounting and their relevance to entrepreneurial ventures.

ACCT4250 - Accounting Internship - 3 - Credits

Course Overview

Course Prefix
ACCT

Course Number
4250

Department
School of Accounting

Course Title
Accounting Internship

Grade Mode
Pass/Fail

Repeat Status
NR

Course Description
This course provides accounting internship experience in a career-related position approved by the School of Accountancy.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

ACCT4700 - Seminar in Accounting - 3 - Credits

Course Overview

Course Prefix
ACCT

Course Number
4700

Department
School of Accounting

Course Title
Seminar in Accounting

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers special topics in accounting, including workshops, readings, and pilot course offerings.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Special Approval

Department permission

No Requirements

ACCT4900 - Independent Research and Readings - 1 - 3 Credits

Course Overview

Course Prefix
ACCT

Course Number
4900

Department
School of Accounting

Course Title
Independent Research and Readings

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course consists of selected readings and research individually assigned, handled, and directed. Problems of mutual interest to students and the instructor are investigated and reported.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

Special Approval

Department permission

No Requirements

ACCT5010 - Intermediate Financial Accounting and Reporting II - 3 - Credits

Course Overview

Course Prefix
ACCT

Course Number
5010

Department
School of Accounting

Course Title
Intermediate Financial Accounting and Reporting II

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course consists of the study of accounting principles, theory, and practice relating to liabilities, equities, and other contemporary issues.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisites

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ACCT3110 - Intermediate Financial Accounting and Reporting I

ACCT5020 - Intermediate Managerial Accounting - 3 - Credits

Course Overview

Course Prefix
ACCT

Course Number
5020

Department
School of Accounting

Course Title
Intermediate Managerial Accounting

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers contemporary theory and applications in the accumulation, analysis, and interpretation of accounting information for internal decision making and control.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Earn a minimum grade of B in the following:

- ACCT2010 - Financial Accounting Principles

Required

Complete ALL of the following Courses:

- ACCT2020 - Managerial Accounting Principles

ACCT5030 - Individual Taxation - 3 - Credits

Course Overview

Course Prefix
ACCT

Course Number
5030

Department
School of Accounting

Course Title
Individual Taxation

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students study federal income taxation of individuals and are introduced to tax research methods and the preparation of individual federal income tax returns.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Other Enrollment Recommendations

Accounting majors are strongly encouraged to complete ACCT3510 BUSINESS TAXATION prior to this course

ACCT5040 - Accounting Information Systems - 3 - Credits

Course Overview

Course Prefix
ACCT

Course Number
5040

Department
School of Accounting

Course Title
Accounting Information Systems

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course helps students understand transaction processing systems. It explores how accounting information systems capture, process, and report information to achieve organizational objectives.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ACCT3110 - Intermediate Financial Accounting and Reporting I

ACCT5104 - Accounting Analytics - 3 - Credits

Course Overview

Course Prefix
ACCT

Course Number
5104

Department
School of Accounting

Dual-Listed Courses
ACCT6104 - Accounting Analytics

Course Title
Accounting Analytics

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students review data analytics processes (e.g., question identification, conceptual modeling, tool selection, data creation/transformation, tool application, interpretation, and presentation) and apply them to audit, tax, financial, and managerial accounting labs and comprehensive cases. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ACCT5020 - Intermediate Managerial Accounting

ACCT5105 - Taxes and Business Strategy - 3 - Credits

Course Overview

Course Prefix
ACCT

Course Number
5105

Department
School of Accounting

Dual-Listed Courses
ACCT6105 - Taxes and Business Strategy

Course Title
Taxes and Business Strategy

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students develop a framework for understanding how taxes affect financial decisions. Students apply rigorous quantitative analysis to tax planning including evaluating when parties can cooperate and achieve a Zone of Potential Agreement that makes them both better off after taxes. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ACCT3130 - Business Taxation
- ACCT3520 - Individual Taxation

ACCT5200 - Advanced Financial Accounting - 3 - Credits

Course Overview

Course Prefix
ACCT

Course Number
5200

Department
School of Accounting

Dual-Listed Courses
ACCT6200 - Advanced Financial Accounting

Course Title
Advanced Financial Accounting

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course addresses the consolidation and presentation of financial information for parent companies and subsidiaries. In addition, the course addresses the recording and presentation of accounting information for complex international transactions (e.g., cross-border affiliate results), governmental institutions, and non-profit entities. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ACCT5010 - Intermediate Financial Accounting and Reporting II

ACCT5250 - Accounting Research - 3 - Credits

Course Overview

Course Prefix
ACCT

Course Number
5250

Department
School of Accounting

Dual-Listed Courses
ACCT6250 - Accounting Research

Course Title
Accounting Research

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course surveys academic research and examines techniques used in practical research, including data management, statistical programming and analysis, and professional literature reviews to solve real-world accounting cases and to develop a conceptual framework for decision-making. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ACCT5010 - Intermediate Financial Accounting and Reporting II

ACCT5300 - Advanced Accounting Internship - 3 - Credits

Course Overview

Course Prefix
ACCT

Course Number
5300

Department
School of Accounting

Dual-Listed Courses
ACCT6300 - Advanced Accounting Internship

Course Title
Advanced Accounting Internship

Grade Mode
Pass/Fail

Repeat Status
NR

Course Description
This course provides accounting internship experience in a career-related position approved by the School of Accountancy. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Special Approval
Instructor approval required

ACCT5310 - Advanced Managerial Accounting Topics - 3 - Credits

Course Overview

Course Prefix
ACCT

Course Number
5310

Department
School of Accounting

Dual-Listed Courses
ACCT6310 - Advanced Managerial Accounting Topics

Course Title
Advanced Managerial Accounting Topics

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course examines profit and performance drivers and the design of performance measurement systems to support long-term company profitability. Students engage with cases, projects, and site visits to reinforce the concepts learned. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ACCT5020 - Intermediate Managerial Accounting

ACCT5420 - Corporate Taxation - 3 - Credits

Course Overview

Course Prefix
ACCT

Course Number
5420

Department
School of Accounting

Dual-Listed Courses
ACCT6420 - Corporate Taxation

Course Title
Corporate Taxation

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers advanced concepts and principles governing the taxation of corporations and shareholders throughout a corporation's lifespan. Practical application is covered through analyzing business transactions and strategizing optimal tax benefits using complex spreadsheets, mathematical computations, and artificial intelligence. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ACCT3130 - Business Taxation
- ACCT5030 - Individual Taxation

ACCT5440 - Partnership Taxation - 3 - Credits

Course Overview

Course Prefix
ACCT

Course Number
5440

Department
School of Accounting

Dual-Listed Courses
ACCT6440 - Partnership Taxation

Course Title
Partnership Taxation

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers advanced concepts and principles governing the taxation of partnerships and partners throughout a partnership's lifespan. Practical application is covered through analyzing business transactions and strategizing optimal tax benefits using complex spreadsheets, mathematical computations, and artificial intelligence. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ACCT3130 - Business Taxation
- ACCT5030 - Individual Taxation

ACCT5460 - Advanced Tax Topics - 3 - Credits

Course Overview

Course Prefix
ACCT

Course Number
5460

Department
School of Accounting

Dual-Listed Courses
ACCT6460 - Advanced Tax Topics

Course Title
Advanced Tax Topics

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers concepts and principles of tax planning for closely-held businesses and high-wealth individuals, among other topics. Students learn and apply tax research methodologies using tax research software. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ACCT3130 - Business Taxation
- ACCT5030 - Individual Taxation

ACCT5510 - Advanced Auditing - 3 - Credits

Course Overview

Course Prefix
ACCT

Course Number
5510

Department
School of Accounting

Dual-Listed Courses
ACCT6510 - Advanced Auditing

Course Title
Advanced Auditing

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course explores important audit concepts, including judgment, independence, and skepticism. It also covers applications of audit procedures and technology related to the audit. The course aims to increase critical thinking as students encounter application exercises related to auditing. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ACCT3140 - Auditing Principles and Techniques

ACCT5540 - Fraud Examination and Forensic Accounting - 3 - Credits

Course Overview

Course Prefix
ACCT

Course Number
5540

Department
School of Accounting

Dual-Listed Courses
ACCT6540 - Fraud Examination and Forensic Accounting

Course Title
Fraud Examination and Forensic Accounting

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students study forensic accounting. Topics include types of fraud, recognition of red flags, and fraud investigation techniques. The course includes practice with computer-aided fraud detection, interrogation techniques, and case studies. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ACCT3140 - Auditing Principles and Techniques
- ACCT5010 - Intermediate Financial Accounting and Reporting II

ACCT5620 - Financial Statement Analysis and Valuation - 3 - Credits

Course Overview

Course Prefix
ACCT

Course Number
5620

Department
School of Accounting

Dual-Listed Courses
ACCT6620 - Financial Statement Analysis and Valuation

Course Title
Financial Statement Analysis and Valuation

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students learn to access and transform financial statement data. Students analyze this data to forecast future financial statements and to derive fundamental values for businesses by employing multiple valuation models. Trading strategies, market efficiency, and other market issues are discussed. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ACCT5010 - Intermediate Financial Accounting and Reporting II

ACCT5810 - Applied Accounting for Entrepreneurial Success - 3 - Credits

Course Overview

Course Prefix
ACCT

Course Number
5810

Department
School of Accounting

Dual-Listed Courses
ACCT6810 - Applied Accounting for Entrepreneurial Success

Course Title
Applied Accounting for Entrepreneurial Success

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides an advanced exploration of financial, managerial, and tax accounting concepts applied to strategic and entrepreneurial decision-making. Designed for nonbusiness major students, it emphasizes interpreting and leveraging accounting information for complex business planning, performance management, and long-term business success. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Course Learning Objectives

Course Learning Outcomes

1. Understand and apply the implications of different entity forms on business operations, including operational, financial, and tax impacts.
2. Analyze and interpret advanced financial, managerial, and tax information to support strategic business decisions.
3. Integrate interdisciplinary perspectives to adapt accounting tools and insights to specialized professional or entrepreneurial settings.

ACCT5850 - Strategic Accounting Consulting - 3 - Credits

Course Overview

Course Prefix
ACCT

Course Number
5850

Department
School of Accounting

Dual-Listed Courses
ACCT6850 - Strategic Accounting Consulting

Course Title
Strategic Accounting Consulting

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
An experiential course in which students consult and engage with actual companies to solve real business problems. Students apply their accounting knowledge in teams while further developing their critical thinking and communication skills to create a final project deliverable. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Special Approval
Department permission

ACCT6010 - Financial and Managerial Accounting - 3 - Credits

Course Overview

Course Prefix
ACCT

Course Number
6010

Department
School of Accounting

Course Title
Financial and Managerial Accounting

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces students to financial and managerial accounting at the graduate level.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Admission to a Huntsman School of Business graduate program

No Requirements

ACCT6100 - Financial Reporting and the SEC - 3 - Credits

Course Overview

Course Prefix
ACCT

Course Number
6100

Department
School of Accounting

Course Title
Financial Reporting and the SEC

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides an overview of the SEC and its registration and periodic reporting requirements. It also provides a high-level overview of financial statements and financial statement analysis.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Admission to the Executive Master of Accounting - EMAcc (NOT CURRENTLY OFFERED) program

No Requirements

ACCT6101 - Advanced Strategic Cost Management - 3 - Credits

Course Overview

Course Prefix
ACCT

Course Number
6101

Department
School of Accounting

Course Title
Advanced Strategic Cost Management

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course involves an in-depth study of the concepts and techniques used in managerial decision making. Topics include strategic analysis, capital budgeting, manufacturing accounting, management control systems, performance measurement, and quantitative techniques for planning and control.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Admission to the Executive Master of Accounting - EMAcc (NOT CURRENTLY OFFERED) program

No Requirements

ACCT6102 - Research and Valuation - 3 - Credits

Course Overview

Course Prefix
ACCT

Course Number
6102

Department
School of Accounting

Course Title
Research and Valuation

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course reviews the professional accounting research process and introduces the basics of valuation.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Admission to the Executive Master of Accounting - EMAcc (NOT CURRENTLY OFFERED) program

No Requirements

ACCT6103 - Accounting Information and the Capital Markets - 3 - Credits

Course Overview

Course Prefix
ACCT

Course Number
6103

Department
School of Accounting

Course Title
Accounting Information and the Capital Markets

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course discusses the intersection between accounting and the capital markets. Students learn about how markets incorporate accounting and other information.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Admission to the Executive Master of Accounting - EMAcc (NOT CURRENTLY OFFERED) program

No Requirements

ACCT6104 - Accounting Analytics - 3 - Credits

Course Overview

Course Prefix
ACCT

Course Number
6104

Department
School of Accounting

Dual-Listed Courses
ACCT5104 - Accounting Analytics

Course Title
Accounting Analytics

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students review data analytics processes (e. g., question identification, conceptual modeling, tool selection, data creation/transformation, tool application, interpretation, and presentation) and apply them to audit, tax, financial, and managerial accounting labs and comprehensive cases. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ACCT5020 - Intermediate Managerial Accounting

ACCT6105 - Taxes and Business Strategy - 3 - Credits

Course Overview

Course Prefix
ACCT

Course Number
6105

Department
School of Accounting

Dual-Listed Courses
ACCT5105 - Taxes and Business Strategy

Course Title
Taxes and Business Strategy

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students develop a framework for understanding how taxes affect financial decisions. Students apply rigorous quantitative analysis to tax planning including evaluating when parties can cooperate and achieve a Zone of Potential Agreement that makes them both better off after taxes. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisites

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ACCT3130 - Business Taxation
- ACCT3520 - Individual Taxation

ACCT6106 - International Business, Finance, and Accounting - 3 - Credits

Course Overview

Course Prefix
ACCT

Course Number
6106

Department
School of Accounting

Course Title
International Business, Finance, and Accounting

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides an overview of prevailing theories and practices relating to international business, finance, and accounting.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Admission to the Executive Master of Accounting - EMAcc (NOT CURRENTLY OFFERED) program

No Requirements

ACCT6107 - Corporate Governance - 3 - Credits

Course Overview

Course Prefix
ACCT

Course Number
6107

Department
School of Accounting

Course Title
Corporate Governance

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course focuses on the role of corporate governance in helping ensure successful execution of business objectives and strategies.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Admission to the Executive Master of Accounting - EMAcc (NOT CURRENTLY OFFERED) program

No Requirements

ACCT6108 - Leadership for Financial Executives - 3 - Credits

Course Overview

Course Prefix
ACCT

Course Number
6108

Department
School of Accounting

Course Title
Leadership for Financial Executives

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces the principles of transformational and transactional leadership. It presents a framework for leading efforts toward achieving organizational objectives.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Admission to the Executive Master of Accounting - EMAcc (NOT CURRENTLY OFFERED) program

No Requirements

ACCT6109 - Financial Strategy - 3 - Credits

Course Overview

Course Prefix
ACCT

Course Number
6109

Department
School of Accounting

Course Title
Financial Strategy

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This is an integrative capstone course for the EMAcc program and is designed to allow students to use the tools and techniques they have developed in their graduate studies and professional experience.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Admission to the Executive Master of Accounting - EMAcc (NOT CURRENTLY OFFERED) program

No Requirements

ACCT6200 - Advanced Financial Accounting - 3 - Credits

Course Overview

Course Prefix
ACCT

Course Number
6200

Department
School of Accounting

Dual-Listed Courses
ACCT5200 - Advanced Financial Accounting

Course Title
Advanced Financial Accounting

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course addresses the consolidation and presentation of financial information for parent companies and subsidiaries. In addition, the course addresses the recording and presentation of accounting information for complex international transactions (e.g., cross-border affiliate results), governmental institutions, and non-profit entities. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ACCT5010 - Intermediate Financial Accounting and Reporting II

ACCT6250 - Accounting Research - 3 - Credits

Course Overview

Course Prefix
ACCT

Course Number
6250

Department
School of Accounting

Dual-Listed Courses
ACCT5250 - Accounting Research

Course Title
Accounting Research

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course surveys academic research and examines techniques used in practical research, including data management, statistical programming and analysis, and professional literature reviews to solve real-world accounting cases and to develop a conceptual framework for decision-making. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prereuqisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ACCT5010 - Intermediate Financial Accounting and Reporting II

ACCT6300 - Advanced Accounting Internship - 3 - Credits

Course Overview

Course Prefix
ACCT

Course Number
6300

Department
School of Accounting

Course Title
Advanced Accounting Internship

Grade Mode
Pass/Fail

Repeat Status
NR

Course Description
This course provides accounting internship experience in a career-related position approved by the School of Accountancy. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Special Approval

Instructor approval required

ACCT6310 - Advanced Managerial Accounting Topics - 3 - Credits

Course Overview

Course Prefix
ACCT

Course Number
6310

Department
School of Accounting

Dual-Listed Courses
ACCT5310 - Advanced Managerial Accounting Topics

Course Title
Advanced Managerial Accounting Topics

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course examines profit and performance drivers and the design of performance measurement systems to support long-term company profitability. Students engage with cases, projects, and site visits to reinforce the concepts learned. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisites

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ACCT5020 - Intermediate Managerial Accounting

ACCT6350 - Accounting for Management Decision Making - 3 - Credits

Course Overview

Course Prefix
ACCT

Course Number
6350

Department
School of Accounting

Course Title
Accounting for Management Decision Making

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course involves action-oriented case studies to demonstrate management accounting techniques for achieving profit goals and business strategies in a variety of organizations. International accounting and ethical issues are addressed.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisites

Type
Prerequisite

Required

One of the following within the last year or three consecutive semesters (including summer):

Complete ALL of the following Courses:

- ACCT2010 - Financial Accounting Principles
- ACCT2020 - Managerial Accounting Principles

with a grade of C or better in each course; and a score of 80% or better on department preparatory course

ACCT6420 - Corporate Taxation - 3 - Credits

Course Overview

Course Prefix
ACCT

Course Number
6420

Department
School of Accounting

Dual-Listed Courses
ACCT5420 - Corporate Taxation

Course Title
Corporate Taxation

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers advanced concepts and principles governing the taxation of corporations and shareholders throughout a corporation's lifespan. Practical application is covered through analyzing business transactions and strategizing optimal tax benefits using complex spreadsheets, mathematical computations, and artificial intelligence. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisites

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ACCT3130 - Business Taxation
- ACCT5030 - Individual Taxation

ACCT6440 - Partnership Taxation - 3 - Credits

Course Overview

Course Prefix
ACCT

Course Number
6440

Department
School of Accounting

Dual-Listed Courses
ACCT5440 - Partnership Taxation

Course Title
Partnership Taxation

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers advanced concepts and principles governing the taxation of partnerships and partners throughout a partnership's lifespan. Practical application is covered through analyzing business transactions and strategizing optimal tax benefits using complex spreadsheets, mathematical computations, and artificial intelligence. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ACCT3130 - Business Taxation
- ACCT5030 - Individual Taxation

ACCT6460 - Advanced Tax Topics - 3 - Credits

Course Overview

Course Prefix
ACCT

Course Number
6460

Department
School of Accounting

Dual-Listed Courses
ACCT5460 - Advanced Tax Topics

Course Title
Advanced Tax Topics

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers concepts and principles of tax planning for closely-held businesses and high-wealth individuals, among other topics. Students learn and apply tax research methodologies using tax research software. Additional coursework is required for those enrolled in the graduate-level course

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ACCT3130 - Business Taxation
- ACCT5030 - Individual Taxation

ACCT6500 - Advanced Accounting Information Systems - 3 - Credits

Course Overview

Course Prefix
ACCT

Course Number
6500

Department
School of Accounting

Course Title
Advanced Accounting Information Systems

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students study contemporary issues in accounting information systems, including emerging information technologies for supporting enterprise decision making.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ACCT5040 - Accounting Information Systems

ACCT6510 - Advanced Auditing - 3 - Credits

Course Overview

Course Prefix
ACCT

Course Number
6510

Department
School of Accounting

Dual-Listed Courses
ACCT5510 - Advanced Auditing

Course Title
Advanced Auditing

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course explores important audit concepts, including judgment, independence, and skepticism. It also covers applications of audit procedures and technology related to the audit. The course aims to increase critical thinking as students encounter application exercises related to auditing. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ACCT3140 - Auditing Principles and Techniques

ACCT6540 - Fraud Examination and Forensic Accounting - 3 - Credits

Course Overview

Course Prefix
ACCT

Course Number
6540

Department
School of Accounting

Dual-Listed Courses
ACCT5540 - Fraud Examination and Forensic Accounting

Course Title
Fraud Examination and Forensic Accounting

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students study forensic accounting. Topics include types of fraud, recognition of red flags, and fraud investigation techniques. The course includes practice with computer-aided fraud detection, interrogation techniques, and case studies. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Other Enrollment Recommendations

ACCT3120 INTERM FIN ACCT/REPORTING II and ACCT3400 AUDITING PRINCIPLES AND TECH

ACCT6560 - Businees Law and Professional Responsibilities - 3 - Credits

Course Overview

Course Prefix
ACCT

Course Number
6560

Department
School of Accounting

Course Title
Businees Law and Professional Responsibilities

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course examines the ethical and legal responsibilities of business professionals. Topics include the application of law to business organizations, contracts, government regulation of business, and the uniform commercial code.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

ACCT6600 - Information Systems Auditing and Control - 3 - Credits

Course Overview

Course Prefix
ACCT

Course Number
6600

Department
School of Accounting

Course Title
Information Systems Auditing and Control

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students study information systems and auditing methodologies, including risk assessment, systems controls, and the use of computer-assisted audit techniques.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

ACCT6620 - Financial Statement Analysis and Valuation - 3 - Credits

Course Overview

Course Prefix
ACCT

Course Number
6620

Department
School of Accounting

Dual-Listed Courses
ACCT5620 - Financial Statement Analysis and Valuation

Course Title
Financial Statement Analysis and Valuation

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students learn to access and transform financial statement data. Students analyze this data to forecast future financial statements and to derive fundamental values for businesses by employing multiple valuation models. Trading strategies, market efficiency, and other market issues are discussed. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:
- ACCT5010 - Intermediate Financial Accounting and Reporting II

ACCT6700 - Advanced Accounting Topics - 3 - Credits

Course Overview

Course Prefix
ACCT

Course Number
6700

Department
School of Accounting

Course Title
Advanced Accounting Topics

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers special topics, including governmental accounting, international accounting, professional responsibilities, ethics, etiquette, selected emerging, and important financial reporting topics.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:
- ACCT5010 - Intermediate Financial Accounting and Reporting II

ACCT6800 - Accounting Communications and Professional Conduct - 3 - Credits

Course Overview

Course Prefix
ACCT

Course Number
6800

Department
School of Accounting

Course Title
Accounting Communications and Professional Conduct

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students study written and oral communication skills appropriate for the accounting profession. The course covers interpersonal skills and professional conduct, including ethical conduct, in various business settings.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

ACCT6810 - Applied Accounting for Entrepreneurial Success - 3 - Credits

Course Overview

Course Prefix
ACCT

Course Number
6810

Department
School of Accounting

Dual-Listed Courses
ACCT5810 - Applied Accounting for Entrepreneurial Success

Course Title
Applied Accounting for Entrepreneurial Success

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides an advanced exploration of financial, managerial, and tax accounting concepts applied to strategic and entrepreneurial decision-making. Designed for nonbusiness major students, it emphasizes interpreting and leveraging accounting information for complex business planning, performance management, and long-term business success. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Course Learning Objectives

Course Learning Outcomes

1. Understand and apply the implications of different entity forms on business operations, including operational, financial, and tax impacts.
2. Analyze and interpret advanced financial, managerial, and tax information to support strategic business decisions.
3. Integrate interdisciplinary perspectives to adapt accounting tools and insights to specialized professional or entrepreneurial settings.

ACCT6850 - Strategic Accounting Consulting - 3 - Credits

Course Overview

Course Prefix
ACCT

Course Number
6850

Department
School of Accounting

Dual-Listed Courses
ACCT5850 - Strategic Accounting Consulting

Course Title
Strategic Accounting Consulting

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
An experiential course in which students consult and engage with actual companies to solve real business problems. Students apply their accounting knowledge in teams while further developing their critical thinking and communication skills to create a final project deliverable. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Special Approval
Department permission

No Requirements

ACCT6900 - Independent Reading and Research - 1 - 3 Credits

Course Overview

Course Prefix
ACCT

Course Number
6900

Department
School of Accounting

Course Title
Independent Reading and Research

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course entails independent work in accounting areas: theory, auditing, taxation, and other related areas.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

Special Approval
Department permission

No Requirements

ACCT6960 - Professional Paper - 1 - 3 Credits

Course Overview

Course Prefix
ACCT

Course Number
6960

Department
School of Accounting

Course Title
Professional Paper

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
The student prepares a paper of professional quality. This course is designed to enable students to demonstrate the ability to complete a major business-related project and to effectively present the results.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

Special Approval
Department permission

ACCT6990 - Continuing Graduate Advisement - 1 - 3 Credits

Course Overview

Course Prefix
ACCT

Course Number
6990

Department
School of Accounting

Course Title
Continuing Graduate Advisement

Grade Mode
Temporary Pass/Fail

Repeat Status
RP

Course Description
This course involves continuing enrollment at the University, required after completing coursework.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

Special Approval
Department permission

No Requirements

ADVS1050 - Animal, Dairy and Veterinary Science Academic and Career Orientation I - 1 - Credits

Course Overview

Course Prefix
ADVS

Course Number
1050

Department
Animal, Dairy & Veterinary Sciences

Course Title
Animal, Dairy and Veterinary Science Academic and Career Orientation I

Grade Mode
Pass/Fail

Repeat Status
NR

Course Description
This course introduces new students to university academic scholarship and career paths in animal, dairy and veterinary science.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Identify key academic resources, faculty, and support services within the ADVS department that promote student success.
2. Explore career pathways in animal and veterinary sciences, relating them to personal strengths and goals.
3. Demonstrate professional and ethical habits for academic success, including responsible use of digital and AI tools.

ADVS1060 - Animal, Dairy, and Veterinary Science Academic and Career Orientation II - 1 - Credits

Course Overview

Course Prefix
ADVS

Course Number
1060

Department
Animal, Dairy & Veterinary Sciences

Course Title
Animal, Dairy, and Veterinary Science Academic and Career Orientation II

Grade Mode
Pass/Fail

Repeat Status
NR

Course Description
This course ensures that ADVS students are aware of different careers in animal science, and provides them with the necessary skills needed to reach their career goals.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ADVS1050 - Animal, Dairy and Veterinary Science Academic and Career Orientation I

Course Learning Objectives

Course Learning Outcomes

1. Explore and evaluate career opportunities across animal, dairy, equine, and veterinary industries through interaction with professionals and guest speakers.
2. Demonstrate effective networking, communication, and professional etiquette in career-related contexts.
3. Develop a personal career strategy that connects individual strengths and interests with pathways in animal, dairy, equine, and veterinary professions.

ADVS1100 - Small-Scale and Specialty Animal Production - 3 - Credits

Course Overview

Course Prefix
ADVS

Course Number
1100

Department
Animal, Dairy & Veterinary Sciences

Course Title

Small-Scale and Specialty Animal Production

Grade Mode
Standard Letter

Repeat Status
NR

Course Description

This course explores husbandry practices, sustainable management, and niche markets for small-scale, hobby, or specialty farming operations, including the production of traditional livestock (horses, cattle, poultry) and "specialty" animals (for example, rabbits, quail, guinea pigs, bees).

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Course Learning Objectives

Course Learning Outcomes

1. Explain terminology, classification, and methods used in small-scale and specialty animal production.
2. Identify management systems and practices for both traditional and specialty animals.
3. Analyze the challenges and opportunities in small-scale farming and niche markets.
4. Compare traditional livestock with specialty animals in terms of husbandry, health, and production systems.
5. Examine cultural and economic perspectives on specialty animals globally.
6. Apply principles of sustainable animal husbandry, including housing, feeding, disease management, and marketing.

ADVS1110 - Introduction to Animal Science (BLS) - 3 - Credits

Course Overview

Course Prefix
ADVS

Course Number
1110

Department
Animal, Dairy & Veterinary Sciences

Course Title
Introduction to Animal Science (BLS)

General Education Attribute
BLS

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students study the influence and contributions of animal production and its commodities toward society. This course introduces scientific principles of animal science, livestock production systems, and contemporary issues, as well as professions and careers in animal agriculture and veterinary sciences.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Course Learning Objectives

Course Learning Outcomes
1. Use appropriate terminology to describe common domestic animal species, products, and management practices.
2. Explain fundamental biological principles—including reproduction, genetics, nutrition, health, and welfare—as they apply to animal agriculture and companion animal care.
3. Compare major sectors of animal production, recognizing historical developments, current practices, and the role of animals in meeting human needs for food, fiber, and other products.
4. Evaluate credible scientific information and apply the scientific method to form evidence-based perspectives on issues in animal science and animal management.
5. Demonstrate understanding of industry standards for safe, ethical, and sustainable animal handling and product use.

ADVS1200 - Basic Horsemanship Skills - 3 - Credits

Course Overview

Course Prefix
ADVS

Course Number
1200

Department
Animal, Dairy & Veterinary Sciences

Course Title
Basic Horsemanship Skills

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course focuses on the necessary elements of horsemanship for the beginning equine student.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Course Learning Objectives

Course Learning Outcomes
1. Identify and correctly use basic equipment, tack, and terminology related to horse handling and care.
2. Demonstrate safe and effective practices for approaching, leading, grooming, and handling horses in varied settings.
3. Evaluate equine behavior, basic anatomy, gaits, fitness, and biomechanical concepts to inform appropriate horsemanship principles and their effect on athletic performance.
4. Apply foundational principles of horsemanship that promote effective communication and responsiveness between horse and handler.
5. Reflect on professional ethics and responsibilities in equine care, emphasizing safety, welfare, and continuous learning.

ADVS1600 - Riding Fundamentals I - 3 - Credits

Course Overview

Course Prefix
ADVS

Course Number
1600

Department
Animal, Dairy & Veterinary Sciences

Course Title
Riding Fundamentals I

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Lectures explore the theory necessary to be a successful rider. Students study the use of natural and artificial aids with hunt seat and western-style riding. In riding labs, students develop their riding skills and understanding of riding theory.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Course Requirements

PREREQUISITES
Course Number 1200, Subject Code ADVS, Level UG, Grade UG; OR Test Code RPA, Test Score 80

ADVS2000 - Introduction to Veterinary Technology - 1 - Credits

Course Overview

Course Prefix
ADVS

Course Number
2000

Department
Animal, Dairy & Veterinary Sciences

Course Title
Introduction to Veterinary Technology

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces the fundamentals of veterinary technology and its relationship to veterinary practice. Topics include career opportunities, professional ethics, veterinarian-client-patient-relationships, client communication, practice management and economics, public health, and regulatory agencies.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Course Learning Objectives

Course Learning Outcomes

1. Describe the role of the veterinary technician within the hierarchy of the veterinary healthcare team, including patient care, client communication, public health, medical records, professional behavior, and ethics.
2. Identify the professional and regulatory agencies associated with the practice of veterinary medicine, including credentialing veterinary technicians.
3. Discuss career, education, and specialty opportunities for the veterinary technician.
4. Describe the industry trends, economic aspects, and business of operating a successful veterinary practice.
5. Develop client relationships, office skills, and communication skills.

ADVS2010 - Companion Animal Science and Management - 2 - Credits

Course Overview

Course Prefix
ADVS

Course Number
2010

Department
Animal, Dairy & Veterinary Sciences

Course Title
Companion Animal Science and Management

Grade Mode
Standard Letter

Repeat Status
NR

Course Description

This course teaches the principles of the care and management of companion animals, including breeds, anatomy, physiology, behavior, nutrition, infectious diseases, non-infectious diseases, parasites, and animal welfare issues.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Simple Requisites

Corequisite

Type
Corequisite

Required

Enroll in the following Courses:

- ADVS2015 - Companion Animal Science and Management Laboratory

Course Learning Objectives

Course Learning Outcomes

1. Identify and describe major companion animal breeds, their characteristics, and normal patterns of growth, development, and behavior.
2. Demonstrate humane and safe techniques for handling, restraining, and housing companion animals, applying principles of welfare and facility management.
3. Perform and interpret comprehensive physical examinations, distinguishing between normal and abnormal clinical findings, and accurately communicating results.
4. Explain fundamental anatomical and physiological differences among companion species and how these influence health, care, and welfare.
5. Identify and discuss the etiology, clinical signs, prevention, and treatment of common infectious and noninfectious diseases in dogs and cats, including relevant zoonotic concerns.
6. Evaluate nutritional requirements and body condition in companion animals and formulate basic feeding or dietary management plans to promote optimal health.

ADVS2015 - Companion Animal Science and Management Laboratory - 1 - Credits

Course Overview

Course Prefix
ADVS

Course Number
2015

Department
Animal, Dairy & Veterinary Sciences

Course Title
Companion Animal Science and Management Laboratory

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This laboratory course provides hands on practical experience in animal behavior, comparative anatomy and physiology, nutrition, infectious and non-infectious diseases, and animal welfare issues.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Simple Requisites

Corequisite

Type
Corequisite

Required

Enroll in the following Courses:

- ADVS2010 - Companion Animal Science and Management

Course Learning Objectives

Course Learning Outcomes

1. Demonstrate proper sanitation, restraint, and client communication techniques essential for patient safety and accurate medical record keeping.
2. Recognize and interpret common clinical findings and health concerns identified during physical examination.
3. Perform diagnostic collection and identification techniques for parasites, fungi, and microbial pathogens associated with infectious and toxicologic diseases.
4. Design and implement individualized nutrition and wellness plans for companion animals at various life stages.

ADVS2020 - Companion Animal Nursing - 2 - Credits

Course Overview

Course Prefix
ADVS

Course Number
2020

Department
Animal, Dairy & Veterinary Sciences

Course Title
Companion Animal Nursing

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces the skills required by a veterinary nurse to care for the companion animal patient. Emphasis is on the administration of medical terminology, medication, surgical nursing, and basic and critical care nursing skills

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Simple Requisites

Corequisite

Type
Corequisite

Required

Enroll in the following Courses:

- ADVS2025 - Companion Animal Nursing Laboratory

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ADVS2010 - Companion Animal Science and Management
- ADVS2015 - Companion Animal Science and Management Laboratory

Course Learning Objectives

Course Learning Outcomes

1. Interpret and apply common medical terminology, abbreviations, and measurements used in veterinary practice.
2. Demonstrate knowledge of proper sanitation, infection control, and safety procedures in animal care and surgical settings.
3. Provide basic nursing care and first aid for companion animals, including wound management, medication administration, and grooming.
4. Assist in emergency and critical care situations by identifying clinical signs, applying triage principles, and utilizing appropriate equipment and procedures.
5. Perform foundational clinical and laboratory techniques, including venipuncture, fluid therapy calculations, and monitoring of cardiovascular function.
6. Explain and apply principles of diagnostic imaging and physical or rehabilitative therapies to support patient diagnosis and recovery.

ADVS2025 - Companion Animal Nursing Laboratory - 1 - Credits

Course Overview

Course Prefix
ADVS

Course Number
2025

Department
Animal, Dairy & Veterinary Sciences

Course Title
Companion Animal Nursing Laboratory

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This laboratory course provides hands on practical experience in veterinary facility maintenance and sanitation, basic nursing skills, sterile techniques, and surgical nursing skills.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Simple Requisites

Corequisite

Type
Corequisite

Required

Enroll in the following Courses:

- ADVS2020 - Companion Animal Nursing

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ADVS2010 - Companion Animal Science and Management
- ADVS2015 - Companion Animal Science and Management Laboratory

Course Learning Objectives

Course Learning Outcomes

1. Demonstrate foundational nursing and patient care techniques in companion animal practice, including medication administration, grooming, feeding, and clinical record keeping.
2. Prepare and assist in surgical procedures by maintaining asepsis, managing instruments and equipment, and supporting veterinarians as surgical or circulating nurses.
3. Monitor and manage anesthesia and recovery by evaluating vital signs, interpreting ECG readings, maintaining accurate records, and providing post-operative care and pain management.
4. Perform diagnostic and therapeutic techniques, including venipuncture, imaging, and basic physical or rehabilitative therapies, using appropriate safety and animal-handling practices.
5. Maintain a safe, sanitary, and welfare-centered clinical environment through adherence to infection-control, sterilization, and hazardous-waste procedures.

ADVS2030 - Exotic and Laboratory Animal Health and Care - 1 - Credits

Course Overview

Course Prefix
ADVS

Course Number
2030

Department
Animal, Dairy & Veterinary Sciences

Course Title
Exotic and Laboratory Animal Health and Care

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides an overview into the study of exotic and laboratory animals. Topics include husbandry, nutritional requirements, common diseases, and nursing care.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Simple Requisites

Corequisite

Type
Corequisite

Required

Enroll in the following Courses:

- ADVS2035 - Exotic and Laboratory Animal Health and Care Laboratory

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ADVS2010 - Companion Animal Science and Management
- ADVS2015 - Companion Animal Science and Management Laboratory

Course Learning Objectives

Course Learning Outcomes

1. Identify common species, breeds, and/or types of laboratory and exotic animals.
2. Demonstrate and provide client education on the proper husbandry of exotic animals, including nutritional needs, environment, reproduction, and overall care of exotic animals.
3. Explain basic principles of animal research.
4. Discuss common infectious and non-infectious diseases in laboratory and exotic animals.
5. Describe basic care procedures, including feeding, watering, and environment sanitation/cleaning for mice, rats, and rabbits.
6. Describe a variety of nursing skills, including restraint, nail trimming, administration of medication, and venipuncture on common laboratory and exotic animal species.

ADVS2035 - Exotic and Laboratory Animal Health and Care Laboratory - 1 - Credits

Course Overview

Course Prefix
ADVS

Course Number
2035

Department
Animal, Dairy & Veterinary Sciences

Course Title
Exotic and Laboratory Animal Health and Care Laboratory

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides practical experience in restraint, drug administration, sample collection, and other nursing techniques with laboratory and exotic animals.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Simple Requisites

Corequisite

Type
Corequisite

Required

Enroll in the following Courses:

- ADVS2030 - Exotic and Laboratory Animal Health and Care

Prerquisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ADVS2010 - Companion Animal Science and Management
- ADVS2015 - Companion Animal Science and Management Laboratory

Course Learning Objectives

Course Learning Outcomes

1. Handle and restrain common laboratory and exotic species safely and effectively for physical examination and medical procedures.
2. Demonstrate appropriate husbandry, sanitation, and environmental management practices to promote animal health and welfare.
3. Perform basic nursing and clinical techniques, including medication administration, venipuncture, and grooming, for a variety of small animal species.
4. Conduct post-mortem examination and tissue collection on small laboratory animals following approved safety and ethical guidelines.

ADVS2040 - Veterinary Critical Care Nursing - 2 - Credits

Course Overview

Course Prefix
ADVS

Course Number
2040

Department
Animal, Dairy & Veterinary Sciences

Course Title
Veterinary Critical Care Nursing

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course is designed for students entering the veterinary nursing or medicine professions and teaches advanced critical care nursing of animals. Topics emphasized include triage procedures, lifesaving procedures, and nutritional, cardiovascular, and other supportive measures for critically ill patients.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Registration Restrictions
Admission to the Veterinary Technology AS program

Other Enrollment Recommendations
Recommended corequisite ADVS2045 VET CRITICAL CARE NURSING LAB

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ADVS2020 - Companion Animal Nursing
- ADVS2025 - Companion Animal Nursing Laboratory

Course Learning Objectives

Course Learning Outcomes
1. Discuss the steps and procedures required for triaging incoming and in-hospital patients to prioritize those needing the most urgent medical attention.
2. Describe the steps, procedures, and drugs involved in the veterinary resuscitation guidelines, RECOVER.
3. Describe and address the unique nutritional needs of critically ill patients in a clinical care setting.
4. Describe and address cardiovascular support in the critically ill patient.
5. Describe methods for providing supportive care in managing chronic and debilitating diseases in companion animals.
6. Discuss issues of contagious disease transmission and isolation protocols in clinical settings

ADVS2045 - Veterinary Critical Care Nursing Laboratory - 1 - Credits

Course Overview

Course Prefix
ADVS

Course Number
2045

Department
Animal, Dairy & Veterinary Sciences

Course Title
Veterinary Critical Care Nursing Laboratory

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This laboratory course provides practical experience in critical care nursing.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Registration Restrictions

Admission to the Veterinary Technology - AS (NOT CURRENTLY OFFERED) program

Other Enrollment Recommendations

Recommended corequisite ADVS2040 VET CRITICAL CARE NURSING

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ADVS2020 - Companion Animal Nursing
- ADVS2025 - Companion Animal Nursing Laboratory

Course Learning Objectives

Course Learning Outcomes

1. Assess and manage critically ill or injured animals by applying appropriate diagnostic, therapeutic, and resuscitation protocols in accordance with current veterinary standards.
2. Formulate and implement individualized fluid and nutritional support plans for hospitalized patients, including parenteral and enteral therapies.
3. Demonstrate safe and effective technical skills for performing clinical procedures and maintaining biosecurity, including isolation, sample handling, and infection control.
4. Recognize and interpret behavioral and physiological indicators of pain, distress, or recovery to support appropriate patient care and welfare.
5. Communicate clearly and professionally with veterinary team members and clients to coordinate treatment plans, explain care procedures, and support decision-making.

ADVS2050 - Veterinary Nurse Specialty - 2 - Credits

Course Overview

Course Prefix
ADVS

Course Number
2050

Department
Animal, Dairy & Veterinary Sciences

Course Title
Veterinary Nurse Specialty

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides advanced veterinary nursing instruction in veterinary specialty (radiology, anesthesiology, dentistry, etc.) areas, and prepares students to sit for and pass the national veterinary technician exam.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Registration Restrictions
Admission to the Veterinary Technology AS program

Other Enrollment Recommendations
Recommended corequisite ADVS2055 VET NURSING SPECIALTY LAB

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ADVS2040 - Veterinary Critical Care Nursing
- ADVS2045 - Veterinary Critical Care Nursing Laboratory

Course Learning Objectives

Course Learning Outcomes
1. Demonstrate advanced competency in veterinary anesthesia and analgesia by performing pre-anesthetic assessment, equipment preparation, drug calculation and administration, patient monitoring, and peri-operative care.
2. Produce and evaluate diagnostic-quality radiographs and other imaging studies through proper patient positioning, technical settings, and adherence to radiologic safety standards.
3. Apply principles of diagnostic imaging physics and equipment operation, including digital radiography and ultrasound, to obtain and interpret high-quality images across species.
4. Perform basic dental procedures and oral assessments, accurately identifying normal and abnormal dental anatomy, pathology, and appropriate preventive or corrective care techniques.
5. Integrate knowledge from multiple specialty areas—anesthesiology, radiology, imaging, and dentistry—to support effective, safe, and ethical veterinary nursing practice in preparation for professional credentialing exams.

ADVS2055 - Veterinary Nursing Specialty Laboratory - 1 - Credits

Course Overview

Course Prefix
ADVS

Course Number
2055

Department
Animal, Dairy & Veterinary Sciences

Course Title
Veterinary Nursing Specialty Laboratory

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides practical experience in advanced veterinary specialty (radiology, anesthesiology, dentistry, etc.) areas.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Registration Restrictions
Admission to the Veterinary Technology AS program

Other Enrollment Recommendations
Recommended corequisite ADVS2050 VETERINARY NURSE SPECIALTY

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ADVS2040 - Veterinary Critical Care Nursing
- ADVS2045 - Veterinary Critical Care Nursing Laboratory

Course Learning Objectives

Course Learning Outcomes
1. Demonstrate proper preparation, operation, and maintenance of anesthetic and radiologic equipment following established safety and aseptic protocols.
2. Perform advanced veterinary nursing procedures, including IV catheter placement, injection techniques, anesthetic induction and monitoring, and fluid therapy management under supervision.
3. Obtain and evaluate diagnostic-quality radiographs and ultrasound images using correct positioning, restraint, and imaging parameters across multiple species.
4. Identify and address common dental abnormalities and develop appropriate home care and preventive plans to support companion animal oral health.

ADVS2060 - Clinical Laboratory Techniques - 1 - Credits

Course Overview

Course Prefix
ADVS

Course Number
2060

Department
Animal, Dairy & Veterinary Sciences

Course Title
Clinical Laboratory Techniques

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides detailed information on principles and procedures of clinical tests performed on companion animals. Emphasis is placed on hematology, serology, clinical chemistry, parasitology, urinalysis, and cytology.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Registration Restrictions

Admission to the Veterinary Technology AS program

Simple Requisites

Corequisite

Type
Corequisite

Required

Enroll in the following Courses:

- ADVS2065 - Clinical Laboratory Techniques Laboratory

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ADVS2010 - Companion Animal Science and Management
- ADVS2015 - Companion Animal Science and Management Laboratory

Course Learning Objectives

Course Learning Outcomes

1. Explain the principles of hematology, serology, immunology, and clinical chemistry as they relate to the diagnosis and monitoring of animal health and disease.
2. Collect, prepare, and analyze biological samples, including blood, urine, and tissue, using standard veterinary laboratory procedures to obtain diagnostic data.
3. Identify and interpret cellular, biochemical, and morphological abnormalities in blood, urine, and other body fluids, relating findings to physiological and disease processes.
4. Recognize and characterize common parasites, fungi, and other infectious agents of veterinary importance, explaining their life cycles, diagnostic methods, and zoonotic potential.
5. Demonstrate understanding of quality control, biosafety, and ethical standards in veterinary laboratory practice, including sample handling, equipment use, and result reporting.
6. Apply diagnostic findings to case scenarios by correlating laboratory results with clinical signs to support accurate interpretation and effective communication with the veterinary team.

ADVS2065 - Clinical Laboratory Techniques Laboratory - 2 - Credits

Course Overview

Course Prefix
ADVS

Course Number
2065

Department
Animal, Dairy & Veterinary Sciences

Course Title
Clinical Laboratory Techniques Laboratory

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This laboratory course provides students training to be veterinary technicians with practical experience in performing common clinical tests in veterinary medicine.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Registration Restrictions

Admission to the Veterinary Technology AS program

Simple Requisites

Corequisite

Type
Corequisite

Required

Enroll in the following Courses:

- ADVS2060 - Clinical Laboratory Techniques

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ADVS2010 - Companion Animal Science and Management
- ADVS2015 - Companion Animal Science and Management Laboratory

Course Learning Objectives

Course Learning Outcomes

1. Collect, label, and prepare diagnostic specimens using proper handling, storage, and submission procedures that maintain sample integrity and biosafety compliance.
2. Demonstrate safe and effective use of laboratory equipment—including microscopes, centrifuges, and automated analyzers—while performing quality control and adhering to OSHA and regulatory standards.
3. Perform and interpret hematological, serological, and immunological tests used in the diagnosis of health and disease in veterinary patients.
4. Conduct and evaluate clinical chemistry, parasitology, urinalysis, microbiology, and mycology procedures using both manual and automated methods.
5. Apply diagnostic results to clinical scenarios by correlating laboratory findings with animal health status and identifying potential errors or quality control issues.

ADVS2070 - Food Animal and Equine Care and Nursing - 3 - Credits

Course Overview

Course Prefix
ADVS

Course Number
2070

Department
Animal, Dairy & Veterinary Sciences

Course Title
Food Animal and Equine Care and Nursing

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers identifying common breeds, equine and food animal behavior, diseases, health management, restraint methods, medication administration, physical examinations, neonatal care, pain management, perioperative nursing, surgical procedures, and reproductive cycles in large animals.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Registration Restrictions

Admission to the Veterinary Technology AS program

Other Enrollment Recommendations

Recommended corequisite ADVS2075 FOOD ANIM EQU CARE NURS LAB

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ADVS2040 - Veterinary Critical Care Nursing
- ADVS2045 - Veterinary Critical Care Nursing Laboratory

Course Learning Objectives

Course Learning Outcomes

1. Identify and describe common breeds, characteristics, and normal behaviors of equine and food animal species, applying knowledge of herd dynamics and body language to support safe handling and restraint.
2. Recognize and explain the causes, clinical signs, diagnosis, treatment, and prevention of infectious and noninfectious diseases affecting equine and food animals, including zoonotic concerns.
3. Develop and evaluate preventive health programs, including vaccination, nutrition, hoof and dental care, parasite control, and biosecurity plans tailored to species, facility type, and production goals.
4. Perform and interpret physical examinations, record and communicate findings, and apply appropriate medication and fluid therapy techniques for large animal patients.
5. Demonstrate principles of neonatal care, perioperative nursing, and pain management to promote recovery and welfare in critically ill or surgical patients.
6. Describe and assist with common surgical and reproductive procedures, recognizing technician roles, required instruments, and appropriate patient preparation and aftercare.

ADVS2075 - Food Animal and Equine Care and Nursing Laboratory - 1 - Credits

Course Overview

Course Prefix
ADVS

Course Number
2075

Department
Animal, Dairy & Veterinary Sciences

Course Title
Food Animal and Equine Care and Nursing Laboratory

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides practical experience in handling food animals and horses, conducting basic care and physical examinations, and performing basic nursing procedures.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Registration Restrictions
Admission to the Veterinary Technology AS program

Other Enrollment Recommendations
Recommended corequisite ADVS2070 FOOD ANIM EQUINE CARE NURSING

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ADVS2040 - Veterinary Critical Care Nursing
- ADVS2045 - Veterinary Critical Care Nursing Laboratory

Course Learning Objectives

Course Learning Outcomes
1. Observe, interpret, and respond appropriately to equine and food animal behavior, demonstrating safe and effective handling and restraint techniques in farm and clinical settings.
2. Perform complete physical examinations on horses and ruminants, accurately assessing vital signs, hydration status, and gastrointestinal function.
3. Administer medications and fluids using correct routes and techniques, including venipuncture, intravenous catheterization, and regional or local anesthesia blocks.
4. Document clinical findings and treatment plans in a professional medical record, applying proper terminology and recordkeeping procedures.

ADVS2080 - Beef Production Practices - 3 - Credits

Course Overview

Course Prefix
ADVS

Course Number
2080

Department
Animal, Dairy & Veterinary Sciences

Course Title
Beef Production Practices

Grade Mode
Standard Letter

Repeat Status
NR

Course Description

This course explores beef cattle production from calf management to the final product. Topics include herd management, health, reproduction, and quality assurance. Students learn industry standards and practices applicable to modern beef production management. Course includes an in-person, hands-on lab.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ADVS1110 - Introduction to Animal Science (BLS)

may be taken concurrently

Course Learning Objectives

Course Learning Outcomes

1. Apply principles of herd health management, biosecurity, and disease prevention to promote productivity and animal welfare in beef and dairy operations.
2. Evaluate and troubleshoot production and health issues in cattle herds using data and evidence-based, problem-solving approaches.
3. Demonstrate understanding of sustainable cattle management practices that balance animal health, resource stewardship, and economic viability.

ADVS2090 - Sheep Production Practices - 3 - Credits

Course Overview

Course Prefix
ADVS

Course Number
2090

Department
Animal, Dairy & Veterinary Sciences

Course Title
Sheep Production Practices

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces production practices in the handling, selection, and care of sheep. Students observe demonstrations of equipment, facilities, and skills relevant to sheep and wool production. This course includes an in-person, hands-on lab.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Perequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ADVS1110 - Introduction to Animal Science (BLS)

may be taken concurrently

Course Learning Objectives

Course Learning Outcomes

1. Describe and compare major sheep and goat production systems in the United States, including farm flock, seedstock, commercial range, and intensive operations.
2. Identify and evaluate common sheep and goat breeds, recognizing their behavioral characteristics, advantages, and suitability for different production systems.
3. Demonstrate sound husbandry and health management practices across different stages of production including maintenance, breeding, lambing, lactation, and weaning.
4. Apply knowledge of wool production, grading, and classing to assess fleece quality and market value.
5. Integrate knowledge of animal health, nutrition, and management to support sustainable and welfare-centered sheep and goat operations.

ADVS2100 - Weanling Behavior and Handling - 3 - Credits

Course Overview

Course Prefix
ADVS

Course Number
2100

Department
Animal, Dairy & Veterinary Sciences

Course Title
Weanling Behavior and Handling

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students gain hands-on experience with weanling behavior, as the weanlings' first handlers, and develop skills to create desired behavior in young horses, with emphasis on comprehending and applying classical behaviorism. Students prepare themselves for future courses and the equine industry.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Other Enrollment Recommendations
Students must pass the ADVS Equine Safety & Handling Canvas course in order to participate and maintain registration in this course. This will be discussed on the first day of class. A link to the safety course can also be found in the syllabus.

Course Learning Objectives

Course Learning Outcomes
1. Explain the principles of equine weaning, nutrition, vaccination, and parasite management as they relate to the health and development of young horses.
2. Observe and interpret normal weanling behavior and apply low-stress, evidence-based techniques for haltering, leading, and handling.
3. Demonstrate foundational training, grooming, and hoof care practices that promote safety, welfare, and positive early training experiences.
4. Document the progress and care of individual weanlings using appropriate recordkeeping and registration procedures.

ADVS2110 - Poultry Production and Management - 3 - Credits

Course Overview

Course Prefix
ADVS

Course Number
2110

Department
Animal, Dairy & Veterinary Sciences

Course Title
Poultry Production and Management

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course explores poultry production from hatchery management to product marketing. Topics include breeding, nutrition, housing, health, and processing. Students learn industry standards and practices for managing meat and egg production. Course includes an in-person, hands-on lab.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Course Learning Objectives

Course Learning Outcomes
1. Describe the structure, terminology, and trends of the U.S. poultry industry and major production systems.
2. Explain the biological and management principles (breeding, nutrition, housing, and health) for various poultry species.
3. Apply production practices by managing a broiler flock through feeding, evaluation, and marketing stages.
4. Analyze factors affecting poultry product quality, processing, and marketability in industrial and commercial contexts.
5. Evaluate the economic, sustainability, and ethical dimensions of poultry enterprise systems, and communicate recommendations in written and oral form.

ADVS2120 - Swine Production and Management - 3 - Credits

Course Overview

Course Prefix
ADVS

Course Number
2120

Department
Animal, Dairy & Veterinary Sciences

Course Title
Swine Production and Management

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Introduces swine production and management, covering nutrition, breeding, health, records, and marketing. Students gain hands-on experience with equipment, facilities, and industry practices, building practical skills for effective herd care and decision-making in swine operations. This course includes an in-person, hands-on lab.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ADVS1110 - Introduction to Animal Science (BLS)

(may be taken concurrently)

Course Learning Objectives

Course Learning Outcomes

1. Describe the stages of the swine production cycle and explain how management decisions in one phase affect outcomes in later stages.
2. Evaluate swine health, nutrition, and productivity through practical observation and performance data collection.
3. Apply principles of breeding, feeding, and facility management to optimize animal welfare and production efficiency.
4. Demonstrate safe and effective handling, farrowing, and record-keeping techniques consistent with modern industry standards.

ADVS2130 - Dairy Cattle Production - 3 - Credits

Course Overview

Course Prefix
ADVS

Course Number
2130

Department
Animal, Dairy & Veterinary Sciences

Course Title
Dairy Cattle Production

Grade Mode
Standard Letter

Repeat Status
NR

Course Description

This course covers dairy science and production, focusing on the life cycle of dairy animals, herd health, and management. It includes insights into dairy and beef cattle integration, sustainability, and practical farm management. This course includes an in-person, hands-on lab.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ADVS1110 - Introduction to Animal Science (BLS)

(may be taken concurrently)

Course Learning Objectives

Course Learning Outcomes

1. Describe the dairy production lifecycle from birth to lactation, including neonatal care, heifer development, calving, and dry period management.
2. Analyze the nutritional, environmental, and management factors that influence dairy herd health and productivity.
3. Apply knowledge of nutrition, disease prevention, and facility management to design comprehensive herd management plans.
4. Evaluate the integration of dairy and beef production systems, including crossbreeding strategies and management of dairy-beef crossbred calves.

ADVS2140 - Pharmacology and Toxicology for Veterinary Technicians - 1 - Credits

Course Overview

Course Prefix
ADVS

Course Number
2140

Department
Animal, Dairy & Veterinary Sciences

Course Title
Pharmacology and Toxicology for Veterinary Technicians

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course examines veterinary drugs, medicines, and toxic agents. Topics include classes and actions of drugs, pharmacokinetics, pharmacy maintenance and record keeping, and drug dispensing laws and procedures.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ADVS2020 - Companion Animal Nursing
- ADVS2025 - Companion Animal Nursing Laboratory

Course Learning Objectives

Course Learning Outcomes

1. Define and utilize terminology related to pharmacology and toxicology.
2. Discuss the four actions which define pharmacokinetics, including factors that affect drug absorption and distribution, and the different mechanisms of biotransformation and elimination.
3. List and describe the different classification of drugs used to treat and/or prevent various conditions of the different organ systems, including identifying specific examples for each drug class, describing the mechanism of action for each drug class, discussing the indications and contraindications for use, and the normal and abnormal responses to these agents.
4. Calculate the dose of oral, parenteral, and injectable drugs and solutions.
5. Describe the role of the veterinary technician in the pharmacy, including maintenance, recordkeeping, and dispensing of drugs.
6. Research common drugs used in veterinary medicine and identify pharmacokinetic parameters, including half-life, clearance, withdrawal time, bioavailability, and lethal and/or toxic dose, using a variety of printed and online formularies.
7. Identify and manage common toxicology issues in veterinary practice, including recognizing common toxic agents, household hazards, dangerous plants and understanding supportive care approaches.

ADVS2150 - Yearling Fitting and Sales Preparation - 3 - Credits

Course Overview

Course Prefix
ADVS

Course Number
2150

Department
Animal, Dairy & Veterinary Sciences

Course Title
Yearling Fitting and Sales Preparation

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces the specificities of preparing a yearling for proper health and condition. Students gain hands-on experience with exercise, nutrition, and handling of yearling colts, and prepare their colts for marketing, including training for photo and video sessions.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Other Enrollment Recommendations

Students must pass the ADVS Equine Safety & Handling Canvas course in order to participate and maintain registration in this course. This will be discussed on the first day of class. A link to the safety course can also be found in the syllabus.

Course Learning Objectives

Course Learning Outcomes

1. Evaluate the growth, condition, and nutritional management of yearlings to support healthy development and sale readiness.
2. Develop marketing and presentation materials that effectively communicate yearling quality and value.
3. Analyze economic and breeding factors that influence yearling sale preparation, including sire selection, production costs, and pricing strategies.

ADVS2160 - Introduction to Exotic Animals - 3 - Credits

Course Overview

Course Prefix
ADVS

Course Number
2160

Department
Animal, Dairy & Veterinary Sciences

Course Title
Introduction to Exotic Animals

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces students to the basics of exotic animal keeping, nutrition, health, and husbandry.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ADVS1110 - Introduction to Animal Science (BLS)

Course Learning Objectives

Course Learning Outcomes

1. Describe taxonomy, anatomy, and physiological traits of major groups of exotic animals including mammals, birds, and reptiles.
2. Apply principles of nutrition, health management, and husbandry to the care and welfare of captive exotic animals.
3. Explain the role of enrichment, training, and behavioral observation in

maintaining animal well-being and facilitating management.
4. Summarize the mission, organization, and regulatory systems that guide the operation of zoos and other exotic animal facilities.

ADVS2190 - Horse Production Practices - 3 - Credits

Course Overview

Course Prefix
ADVS

Course Number
2190

Department
Animal, Dairy & Veterinary Sciences

Course Title
Horse Production Practices

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course focuses on horse production, beginning with aspects of management including anatomy, nutrition, disease, and handling safety. Students are introduced to the digestive tract and feeding, reproduction, and behavior and alternative medicines. This course includes an in-person, hands-on lab.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

ADVS2200 - Anatomy and Physiology of Animals - 3 - Credits

Course Overview

Course Prefix
ADVS

Course Number
2200

Department
Animal, Dairy & Veterinary Sciences

Course Title
Anatomy and Physiology of Animals

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces the normal structure and function of animal anatomy and physiology studied systematically. Students study livestock, poultry, pleasure and companion animals, laboratory animals, and humans comparatively. This course includes an in-person hands-on lab.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- BIOL1620 - Biology II (BLS)

Course Learning Objectives

Course Learning Outcomes

1. Identify and describe the anatomical structures and physiological functions of major organ systems in animals, including muscular, skeletal, circulatory, respiratory, urinary, endocrine, reproductive, digestive, and nervous systems.
2. Explain and apply the mechanisms animals use to maintain homeostasis through

hormonal, neural, and feedback regulation.
3. Analyze and integrate the physiological processes of reproduction, growth, lactation, and adaptation to understand how animals respond to developmental and environmental challenges.

ADVS2203 - Anatomy and Physiology of Animals: Exploratory Laboratory - 1 - Credits

Course Overview

Course Prefix
ADVS

Course Number
2203

Department
Animal, Dairy & Veterinary Sciences

Course Title
Anatomy and Physiology of Animals: Exploratory Laboratory

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Explores animal anatomy and physiology through interactive media, simulations, and case studies, providing flexible learning opportunities tailored to Animal and Dairy Science, Equine Science and Management, and Veterinary Technology students.

Credit Hours

Credit Hours Min:
1

Contact Hours

Contact Hours Min:
1

Billing Hours

Billing Hours Min:
1

Lecture Hours

Lecture Hours Min:
1

Other Enrollment Recommendations
Not recommended for students intending to apply to a veterinary medicine professional program.

This course does not meet typical admissions requirements for veterinary medical professional programs.

Simple Requisites

Prerequisite

Type
Completion Requirement

Required

Complete ALL of the following Courses:

- ADVS2200 - Anatomy and Physiology of Animals

May be taken concurrently

Course Learning Objectives

Course Learning Outcomes

1. Identify and describe anatomical structures of major organ systems in animals using virtual resources and media.
2. Relate anatomical structures to physiological functions through simulations and case studies.
3. Integrate exploratory learning activities to reinforce understanding of animal anatomy across species.

ADVS2205 - Anatomy and Physiology of Animals: Applied Laboratory - 1 - Credits

Course Overview

Course Prefix
ADVS

Course Number
2205

Department
Animal, Dairy & Veterinary Sciences

Course Title
Anatomy and Physiology of Animals: Applied Laboratory

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Hands-on laboratory emphasizing applied techniques and practical skills in animal anatomy and physiology to support Veterinary Science program requirements.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Simple Requisites

Prerequisite

Type
Completion Requirement

Required

Complete ALL of the following Courses:

- ADVS2200 - Anatomy and Physiology of Animals

May be taken concurrently

Course Learning Objectives

Course Learning Outcomes

1. Identify and describe anatomical structures of major organ systems in animals through direct observation and dissection.

2. Relate anatomical structures to physiological function using hands-on laboratory methods.
3. Apply anatomical knowledge to support professional skills in animal and veterinary sciences.

ADVS2250 - Cooperative Work Experience - 1 - 12 Credits

Course Overview

Course Prefix
ADVS

Course Number
2250

Department
Animal, Dairy & Veterinary Sciences

Course Title
Cooperative Work Experience

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course prepares students who require animal industry experience for advanced curriculum in Animal, Dairy, or Bioveterinary Science.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
12

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
12

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
12

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
12

Lecture Hours Operator:
TO

Course Learning Objectives

Course Learning Outcomes

1. Apply disciplinary knowledge and technical skills in a professional animal industry setting.
2. Demonstrate professional conduct, effective communication, and ethical

ADVS2300 - Horse Health Care - 2 - Credits

Course Overview

Course Prefix
ADVS

Course Number
2300

Department
Animal, Dairy & Veterinary Sciences

Course Title
Horse Health Care

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students learn the basics of common infectious and non-infectious equine disease processes and injuries to help them recognize risk factors, implement preventative strategies, identify problems, initiate treatment when appropriate, and know when and how to interface with a veterinarian.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Course Learning Objectives

Course Learning Outcomes

1. Identify common infectious and noninfectious equine diseases, their causative agents, and routes of transmission.
2. Recognize clinical signs of illness or injury in horses and perform a basic health assessment, including vital signs and lameness evaluation.
3. Apply safe and effective methods for administering medications and performing basic health care procedures such as bandaging and physical exams.
4. Develop a preventative health care plan that includes vaccination, deworming, and biosecurity strategies appropriate for different equine settings.
5. Demonstrate understanding of when and how to seek veterinary assistance and communicate effectively with animal health professionals.

ADVS2350 - Equine Marketing: Buying, Selling, Trading - 3 - Credits

Course Overview

Course Prefix
ADVS

Course Number
2350

Department
Animal, Dairy & Veterinary Sciences

Course Title
Equine Marketing: Buying, Selling, Trading

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers how horses are marketed. Students learn how the equine market works in the ranch horse industry, and how regional sales tie into national and international markets. Students examine traditional business methods and the unlimited opportunities of social media.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

ADVS2400 - Riding Fundamentals II - Intermediate - 3 - Credits

Course Overview

Course Prefix
ADVS

Course Number
2400

Department
Animal, Dairy & Veterinary Sciences

Course Title
Riding Fundamentals II - Intermediate

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students will develop skills of an intermediate rider. Lecture will include principles and theories to understand biomechanics and the rider's influence on maneuvering the horse's body. Riding lab will be used to demonstrate student's understanding through intermediate patterns and movements.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ADVS1600 - Riding Fundamentals I

Course Learning Objectives

Course Learning Outcomes

1. Demonstrate intermediate-level Western or English riding skills, showing correct posture, control, and communication with the horse.
2. Identify and describe the biomechanics of equine movement under saddle and explain how rider position influences performance.
3. Apply appropriate cues and aids to perform coordinated maneuvers and patterns with accuracy and consistency

ADVS2500 - Feeds and Feeding - 3 - Credits

Course Overview

Course Prefix
ADVS

Course Number
2500

Department
Animal, Dairy & Veterinary Sciences

Course Title
Feeds and Feeding

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides a general introduction to physiological processes associated with nutrition, chemical composition of feedstuffs, nutritive requirements of domestic/production animals, and an introduction to formulating and balancing rations. This course includes an in-person, hands-on lab.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Course Learning Objectives

Course Learning Outcomes

1. Explain the physiological functions of nutrients and how they support maintenance, growth, reproduction, and production in animals.
2. Compare digestive systems across livestock and companion animal species to relate structure to nutritional strategy.
3. Classify and assess feedstuffs based on their nutrient composition, digestibility, and use in balanced rations.
4. Formulate and evaluate nutritionally adequate rations that meet species-specific requirements for various life stages and production goals.

ADVS2600 - Riding Fundamentals II--Western - 2 - Credits

Course Overview

Course Prefix
ADVS

Course Number
2600

Department
Animal, Dairy & Veterinary Sciences

Course Title
Riding Fundamentals II--Western

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Lecture includes detailed discussion of upper-level riding skills necessary for western-style riding. Riding labs provide students with opportunity to develop more advanced riding skills.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Simple Requisites

Prerequisites

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ADVS1600 - Riding Fundamentals I

with a minimum C- grade or higher

Course Learning Objectives

Course Learning Outcomes

1. Demonstrate intermediate to advanced Western riding skills, including body control, collection, and precise cueing to achieve effective communication with the horse.
2. Execute and evaluate discipline-specific maneuvers used in reining, cutting, and ranch riding according to established performance criteria.
3. Apply principles of equine conditioning, fitness, and welfare to support safe and sustainable performance in Western disciplines.
4. Analyze training methods and rider techniques to identify strategies that improve partnership, responsiveness, and performance outcomes.

ADVS2800 - Riding Fundamentals for Instructors - 3 - Credits

Course Overview

Course Prefix
ADVS

Course Number
2800

Department
Animal, Dairy & Veterinary Sciences

Course Title
Riding Fundamentals for Instructors

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides instruction in the progression of riding skills for Adaptive and Recreational Riding and how to teach these skills in preparation for certification. Students are expected to demonstrate safe and effective riding skills at an intermediate level upon completion.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ADVS1200 - Basic Horsemanship Skills

ADVS2810 - Volunteerism in Equine-Assisted Services - 1 - Credits

Course Overview

Course Prefix
ADVS

Course Number
2810

Department
Animal, Dairy & Veterinary Sciences

Course Title
Volunteerism in Equine-Assisted Services

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Students apply equine handling skills and learn basic facility maintenance as they fulfill volunteer needs of USU's equine-assisted services program. They learn principles of volunteering, horse handling, and community relations by hosting a clinic or horse show.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Course Learning Objectives

Course Learning Outcomes

1. Demonstrate safe and effective equine handling, grooming, and basic care procedures used in EAS settings.
2. Perform facility maintenance and preparation tasks that support horse welfare and client safety in equine programs.
3. Apply principles of communication, professionalism, and teamwork while assisting in clinics, lessons, or horse shows.
4. Reflect on personal learning and growth through participation and service in equine-assisted activities.

ADVS3000 - Animal Health and Hygiene - 3 - Credits

Course Overview

Course Prefix
ADVS

Course Number
3000

Department
Animal, Dairy & Veterinary Sciences

Course Title
Animal Health and Hygiene

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Introduction to basic principles of disease. Agents, mechanisms, and preventive measures for common diseases of farm animals are emphasized. This course includes an in-person, hands-on lab.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ADVS2200 - Anatomy and Physiology of Animals

Course Learning Objectives

Course Learning Outcomes

1. Identify and describe the causes, risk factors, clinical signs, and prevention strategies for common farm animal diseases.
2. Evaluate management practices that reduce disease incidence and promote livestock health.
3. Explain fundamental principles of disease treatment and biosecurity in animal

populations.
4. Apply diagnostic reasoning to interpret case scenarios and identify likely disease conditions.
5. Perform technical procedures used in disease diagnosis and treatment as demonstrated in laboratory sessions.

ADVS3100 - Equine Evaluation and Judging - 3 - Credits

Course Overview

Course Prefix
ADVS

Course Number
3100

Department
Animal, Dairy & Veterinary Sciences

Course Title
Equine Evaluation and Judging

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course focuses on the principles of equine confirmation and performance. Students will learn to evaluate and select a horse for a suitable purpose. Students will learn to make choices, form opinions and defend their ideas. Evaluation of young horse potential, pre-purchase, common unsoundness issues will also be discussed.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Evaluate and compare equine conformation and performance across breeds and disciplines using established judging criteria.
2. Analyze and justify conformation and performance rankings through written and oral reasons that demonstrate organized, evidence-based judgment.
3. Demonstrate professional confidence and accuracy in evaluating equine classes, applying appropriate terminology and industry standards.

ADVS3150 - Principles of Equine-Assisted Services - 3 - Credits

Course Overview

Course Prefix
ADVS

Course Number
3150

Department
Animal, Dairy & Veterinary Sciences

Course Title
Principles of Equine-Assisted Services

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides an overview of the growing field of Equine-assisted Services (EAS). It explores the various disciplines within EAS; the standards and best practices for providing EAS services; and how horses and humans interact within the EAS setting.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Course Learning Objectives

Course Learning Outcomes

1. Explain the historical, theoretical, and ethical foundations of equine-assisted services and the role of horse–human interactions in promoting wellness.
2. Differentiate among categories of equine-assisted services and describe the terminology, professional roles, and client populations associated with each.
3. Analyze clients served in equine-assisted services, integrating inclusive language and risk assessment to promote ethical, effective, and safe horse–human interactions.
4. Analyze the roles, behaviors, welfare considerations, and training needs of horses in equine-assisted services and apply best practices and industry standards to promote their physical and emotional well-being.
5. Interpret and evaluate research evidence to assess the efficacy and ethical implications of equine-assisted services for diverse populations.
6. Identify and reflect on professional competencies, legal and business practices, and personal career pathways in the equine-assisted services industry.

ADVS3170 - Techniques in Adaptive Riding - 3 - Credits

Course Overview

Course Prefix
ADVS

Course Number
3170

Department
Animal, Dairy & Veterinary Sciences

Course Title
Techniques in Adaptive Riding

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course is foundational in becoming an adaptive riding instructor. It teaches the components necessary to be an effective and safe instructor in training, including: client-centered planning, understanding precautions, contraindications, disability/ability specific riding goals, and horse selection.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ADVS3150 - Principles of Equine-Assisted Services

Course Learning Objectives

Course Learning Outcomes

1. Demonstrate effective teamwork and communication skills essential for safe and coordinated adaptive riding sessions.
2. Identify and describe common disabilities and related considerations for lesson planning, horse selection, and rider support.

3. Select and fit appropriate tack, horses, and equipment to meet the needs and safety requirements of individual riders.
4. Design and evaluate adaptive riding lesson plans that align with therapeutic or educational goals.
5. Assess client suitability for participation in equine-assisted activities based on established safety and ethical guidelines.

ADVS3280 - Applied Animal Molecular & Cellular Biology - 4 - Credits

Course Overview

Course Prefix
ADVS

Course Number
3280

Department
Animal, Dairy & Veterinary Sciences

Course Title
Applied Animal Molecular & Cellular Biology

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides an introduction to different techniques related to assays commonly performed within the biotechnology industry. This course includes a lecture portion as well as a hands-on lab.

Credit Hours

Credit Hours
Min:
4

Contact Hours

Contact Hours
Min:
4

Billing Hours

Billing Hours
Min:
4

Lecture Hours

Lecture Hours
Min:
4

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- BIOL1620 - Biology II (BLS)
- CHEM1220 - Principles of Chemistry II (BPS)

Course Learning Objectives

Course Learning Outcomes

1. Explain key molecular biology processes (DNA replication, transcription, translation, and regulation) in the context of animal physiology and health.
2. Describe cell structure, function, and communication mechanisms relevant to animal growth, reproduction, and disease.

3. Apply basic biotechnology techniques in a laboratory setting, including sterile handling, DNA/RNA extraction, electrophoresis, PCR, and protein detection methods.
4. Interpret experimental data from common molecular assays, connecting results to biological questions in animal science.
5. Discuss ethical considerations in animal biotechnology, such as cloning, gene editing, and diagnostic testing.
6. Demonstrate scientific professionalism through accurate lab documentation, safety practices, and collaborative teamwork.

ADVS3300 - Equine Lower Limb Form and Function - 3 - Credits

Course Overview

Course Prefix
ADVS

Course Number
3300

Department
Animal, Dairy & Veterinary Sciences

Course Title
Equine Lower Limb Form and Function

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course will cover the equine lower limb form and function. This course will consist of lecture and laboratory experiences. Where appropriate, subject matter experts will be invited to cover certain topics.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Admission to the Equine Science and Management - BS program

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ADVS2200 - Anatomy and Physiology of Animals

Course Learning Objectives

Course Learning Outcomes

1. Identify anatomical structures of the equine lower limb and describe their functions in locomotion and weight-bearing.
2. Recognize and describe the correct use of common farrier tools and explain their applications in hoof care and maintenance.
3. Evaluate hoof balance and discuss the principles influencing soundness and performance.
4. Assess lameness in horses using an established lameness scale and discuss potential causes of common lower limb issues.
5. Demonstrate safe and effective handling techniques when lifting limbs, restraining horses, and removing shoes under supervision.

ADVS3400 - Equine Specialist in Equine-Assisted Interventions - 3 - Credits

Course Overview

Course Prefix
ADVS

Course Number
3400

Department
Animal, Dairy & Veterinary Sciences

Course Title
Equine Specialist in Equine-Assisted Interventions

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students learn the broad role played by equine specialists in equine-assisted mental health and experiential education programs. Topics include training and assessment of the therapy horse, therapeutic environments, safety procedures, understanding theories commonly used, and designing arena activities.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ADVS3150 - Principles of Equine-Assisted Services

ADVS3500 - Principles of Animal Nutrition - 3 - Credits

Course Overview

Course Prefix
ADVS

Course Number
3500

Department
Animal, Dairy & Veterinary Sciences

Course Title
Principles of Animal Nutrition

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers metabolic roles and characteristics of carbohydrates, proteins, lipids, minerals, vitamins, and water as they affect animal nutrition. Each nutrient's metabolic process is also taught, and digestion, absorption, and the use of nutrients and their metabolites are discussed.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Contact Hours Operator:
OR

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ADVS2200 - Anatomy and Physiology of Animals

Course Learning Objectives

Course Learning Outcomes

1. Compare the anatomy and physiology of digestive systems across animal species and explain how structure relates to nutrient utilization.
2. Describe the digestion, absorption, and metabolism of carbohydrates, proteins, lipids, vitamins, and minerals in animals.
3. Analyze the roles of nutrients in supporting different physiological states and evaluate how nutrient imbalances affect physiological function.

ADVS3520 - Equine Nutrition and Exercise Physiology - 3 - Credits

Course Overview

Course Prefix
ADVS

Course Number
3520

Department
Animal, Dairy & Veterinary Sciences

Course Title
Equine Nutrition and Exercise Physiology

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers the nutritional needs of horses and explores muscle function, demand and exercise physiology of equine athletes. It presents topics in lecture format together with hands-on experiences to highlight lecture topics. Guest experts cover certain topics.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ADVS2200 - Anatomy and Physiology of Animals

Course Learning Objectives

Course Learning Outcomes

1. Describe the anatomy and physiology of the equine digestive tract and explain how nutrients are digested and absorbed.
2. Analyze the nutritional and physiological demands of exercise in horses, including energy metabolism, muscle physiology, and thermoregulation.
3. Identify and evaluate common equine metabolic and developmental disorders and explain their relationship to nutrition and management practices.
4. Formulate and balance rations to meet horses' nutritional requirements for growth, performance, and maintenance, adjusting for energy intake, forage quality, and activity level.
5. Assess body condition, feeding practices, and exercise programs and recommend evidence-based improvements to optimize equine health and performance.

ADVS3600 - Equine Behavior and Training - 3 - Credits

Course Overview

Course Prefix
ADVS

Course Number
3600

Department
Animal, Dairy & Veterinary Sciences

Course Title
Equine Behavior and Training

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Focuses on developing the trust and confidence of both horse and handler when introducing and progressing through ground and under-saddle work.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ADVS2600 - Riding Fundamentals II--Western

Course Learning Objectives

Course Learning Outcomes

1. Interpret equine behavior and body language to ensure safe and effective handling in ground and under saddle work.
2. Apply principles of learning theory including habituation, desensitization, and

ADVS3610 - Training and Conditioning of the Lesson Horse - 3 - Credits

Course Overview

Course Prefix
ADVS

Course Number
3610

Department
Animal, Dairy & Veterinary Sciences

Course Title
Training and Conditioning of the Lesson Horse

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers the importance of selection and development of appropriate equines for the safety of any riding program providing services for beginners or fragile riders. It includes the process of selection/evaluation, equine cognition/ learning theory, and introducing horses into the lesson setting.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ADVS1200 - Basic Horsemanship Skills

Course Requirements

PREREQUISITES
Course Number 3150, Subject Code ADVS, Level UG, Grade UG

ADVS3650 - Live Animal and Carcass Evaluation - 3 - Credits

Course Overview

Course Prefix
ADVS

Course Number
3650

Department
Animal, Dairy & Veterinary Sciences

Course Title
Live Animal and Carcass Evaluation

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Judging, grading, and pricing of market animals and carcasses, with emphasis on comparative evaluation of live animals and carcasses.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Course Learning Objectives

Course Learning Outcomes

1. Explain the principles of growth, development, and carcass composition as they relate to livestock production.
2. Evaluate live animals for market and breeding purposes using industry-accepted standards and performance data.
3. Assess carcass yield and quality characteristics to determine product value and consumer acceptability.
4. Compare live animal evaluation results with carcass data to interpret accuracy and sources of variation in livestock grading.
5. Demonstrate practical skills in livestock handling, evaluation, and communication of oral reasons to justify grading and selection decisions.

ADVS3690 - Administrative Issues in Providing Equine-Assisted Services - 3 - Credits

Course Overview

Course Prefix
ADVS

Course Number
3690

Department
Animal, Dairy & Veterinary Sciences

Course Title
Administrative Issues in Providing Equine-Assisted Services

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students gain knowledge of effective resource management in the provision of equine-assisted services. Course topics include: grant writing, non-profit and for-profit equine program models, volunteer management and leadership issues, understanding industry standards, and policy and legal issues.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ADVS3150 - Principles of Equine-Assisted Services

Course Learning Objectives

Course Learning Outcomes

1. Apply resource management strategies to effectively operate nonprofit and for-profit equine-assisted services programs.
2. Identify and evaluate potential risks associated with equine activities, implementing best practices for safety and liability management.

3. Design a basic grant proposal or funding plan to support program development and sustainability in EAS.
4. Analyze and integrate leadership principles to enhance teamwork, communication, and ethical decision-making in EAS settings.
5. Utilize appropriate digital tools and technologies for efficient administrative, recordkeeping, and outreach tasks in EAS programs.

ADVS3710 - Advanced Livestock Judging - 2 - Credits

Course Overview

Course Prefix
ADVS

Course Number
3710

Department
Animal, Dairy & Veterinary Sciences

Course Title
Advanced Livestock Judging

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Advanced methods of selection and identification of superior animals for breeding stock. Emphasis on performance records, judging, grading, and oral reasons.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ADVS3650 - Live Animal and Carcass Evaluation

Course Learning Objectives

Course Learning Outcomes

1. Evaluate livestock using advanced criteria of conformation, performance data, and breed standards to identify superior breeding and market animals.
2. Interpret and justify livestock selection decisions using objective data and industry guidelines.
3. Prepare and deliver structured oral reasons that clearly communicate evaluation logic and defend selection outcomes.

4. Apply critical thinking and decision-making skills in simulated and competitive judging environments.
5. Demonstrate professionalism, teamwork, and ethical conduct in collegiate livestock judging activities.

ADVS3750 - Equine Behavior and Training II - 3 - Credits

Course Overview

Course Prefix
ADVS

Course Number
3750

Department
Animal, Dairy & Veterinary Sciences

Course Title
Equine Behavior and Training II

Grade Mode
Standard Letter

Repeat Status
NR

Course Description

This course advances skills in colt training, conditioning, and two-year-old nutrition. Students adapt methods to individual horses while training colts to an industry standard, producing well prepared two-year-old horses suitable for marketing and sale within professional equine.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Special Approval

Instructor permission

Other Enrollment Recommendations

Students must pass the ADVS Equine Safety & Handling Canvas course in order to participate and maintain registration in this course. This will be discussed on the first day of class. A link to the safety course can also be found in the syllabus.

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ADVS3600 - Equine Behavior and Training

Course Learning Objectives

Course Learning Outcomes

1. Apply advanced training principles and exercises to develop two-year-old horses suitable for sale or performance work.
2. Evaluate and adapt training methods to address individual behavioral and physical differences among horses.
3. Prepare and present horses for sale by demonstrating appropriate conditioning, fitting, and marketing techniques.

ADVS3900 - Special Problems and Readings - 1 - 3 Credits

Course Overview

Course Prefix
ADVS

Course Number
3900

Department
Animal, Dairy & Veterinary Sciences

Course Title
Special Problems and Readings

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Students conduct short-term studies and/or literature review with critical analysis of individualized subject matter. Formal written reports required.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

Special Approval
Instructor permission

Course Learning Objectives

Course Learning Outcomes

1. Locate and interpret scientific literature relevant to an individualized research topic.
2. Critically evaluate methodologies, data, and conclusions presented in scientific

studies.
3. Synthesize information from multiple sources to identify patterns, gaps, or emerging themes within the topic area.
4. Communicate scientific concepts and analyses clearly in written and oral forms appropriate to a professional audience.

ADVS3910 - Special Topics - 1 - 5 Credits

Course Overview

Course Prefix
ADVS

Course Number
3910

Department
Animal, Dairy & Veterinary Sciences

Course Title
Special Topics

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Topics of special interest to those who have needs not satisfied by courses currently offered.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
5

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
5

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
5

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
5

Lecture Hours Operator:
TO

Course Learning Objectives

Course Learning Outcomes

1. Integrate discipline-specific concepts and methods to explore a specialized topic in animal, dairy, or veterinary sciences.
2. Apply relevant theoretical or practical approaches to address a defined problem or area of inquiry.
3. Communicate findings, reflections, or products through written, oral, or creative

formats appropriate to the topic.
4. Demonstrate professional growth through independent learning, collaboration, or instructional support activities.

ADVS3920 - Ag Animal Extension Field Experience - 1 - Credits

Course Overview

Course Prefix
ADVS

Course Number
3920

Department
Animal, Dairy & Veterinary Sciences

Course Title
Ag Animal Extension Field Experience

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course provides undergraduate students with an immersive introduction to Extension careers through hands-on program development and delivery in animal agriculture. Date of experience will vary each year.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Registration Restrictions

Sophomore Standing

Course Learning Objectives

Course Learning Outcomes

1. Describe the role and mission of Extension within the Land-Grant university system, particularly as it relates to animal agriculture.
2. Develop educational materials (e.g., posters, handouts, demonstrations) that effectively communicate scientific and practical content to diverse audiences.
3. Collaborate with Extension professionals to design and implement mini-programs that align with best practices in outreach and engagement.
4. Demonstrate effective communication and teaching strategies in an outreach setting, including the delivery of interactive, age-appropriate lessons to youth.
5. Reflect on personal growth and career interests related to Extension, teaching, or animal science education.

ADVS3930 - Sheep Day - 1 - 2 Credits

Course Overview

Course Prefix
ADVS

Course Number
3930

Department
Animal, Dairy & Veterinary Sciences

Course Title
Sheep Day

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course engages students in current U.S. Sheep Production systems through basics of sheep handling, management practices, and steps of conducting ram breeding soundness exams. Students will ultimately apply learning objectives in a real-world scenario.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
2

Credit Hours Operator:
OR

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
2

Contact Hours Operator:
OR

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
2

Billing Hours Operator:
OR

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
2

Lecture Hours Operator:
OR

Course Learning Objectives

Course Learning Outcomes
1. Describe sheep behavior and basic handling skills.
2. Recall the proper steps in conducting breeding soundness exams on rams.
3. Diagnose ram health concerns through observational and analytical group work.

ADVS3980 - Beef Cattle Handling Practices - 1 - Credits

Course Overview

Course Prefix
ADVS

Course Number
3980

Department
Animal, Dairy & Veterinary Sciences

Course Title
Beef Cattle Handling Practices

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course provides hands-on learning in beef cattle behavior, livestock management skills, and show techniques, enhancing practical experience and understanding critical for careers in the agricultural industry.

Credit Hours

Credit Hours Min:
1

Contact Hours

Contact Hours Min:
1

Billing Hours

Billing Hours Min:
1

Lecture Hours

Lecture Hours Min:
1

Other Enrollment Recommendations
ADVS2080 BEEF PROD PRACTICES

Course Learning Objectives

Course Learning Outcomes
Course Learning Outcomes:

1. By the end of this course, students will be able to analyze beef cattle disposition and behavior in various handling scenarios and evaluate the effectiveness of different handling techniques to ensure the welfare and safety of both cattle and handlers.
2. Students will be able to apply principles of halter breaking, leading, and grooming, and demonstrate proper show techniques, ensuring adherence to industry standards and best practices.

ADVS4200 - Physiology of Reproduction and Lactation (CI) - 4 - Credits

Course Overview

Course Prefix
ADVS

Course Number
4200

Department
Animal, Dairy & Veterinary Sciences

Course Title
Physiology of Reproduction and Lactation (CI)

General Education Attribute
CI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Introduction to principles of physiology as they relate to the reproductive and lactation processes in domestic mammals. Factors affecting reproductive and lactation performance and their applications in animal management are also covered. This course includes an in-person, hands-on lab.

Credit Hours

Credit Hours Min:
4

Contact Hours

Contact Hours Min:
4

Billing Hours

Billing Hours Min:
4

Lecture Hours

Lecture Hours Min:
4

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ADVS2200 - Anatomy and Physiology of Animals

Course Learning Objectives

Course Learning Outcomes
1. Explain the anatomy, hormonal regulation, and physiological mechanisms governing reproduction and lactation in domestic mammals.
2. Analyze endocrine interactions and cellular processes underlying gametogenesis, fertilization, pregnancy, parturition, and lactation.
3. Apply knowledge of reproductive physiology to interpret experimental data and practical applications in animal management and biotechnology.
4. Develop and communicate a scientific review paper that synthesizes peer-reviewed research in reproductive or lactation physiology using professional scientific writing conventions.
5. Evaluate current scientific literature to identify research questions and assess experimental approaches in animal reproduction and lactation studies.

ADVS4210 - Applied Reproduction and Artificial Insemination - 2 - Credits

Course Overview

Course Prefix
ADVS

Course Number
4210

Department
Animal, Dairy & Veterinary Sciences

Course Title
Applied Reproduction and Artificial Insemination

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers applied reproduction, artificial insemination, and semen handling. Gross anatomy and physiology of common reproductive tracts and reproductive management of farm animals is discussed. This course includes an in-person, hands-on lab.

Credit Hours

Credit Hours Min:
2

Contact Hours

Contact Hours Min:
2

Billing Hours

Billing Hours Min:
2

Lecture Hours

Lecture Hours Min:
2

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ADVS4200 - Physiology of Reproduction and Lactation (CI)

Course Learning Objectives

Course Learning Outcomes

1. Evaluate animals for breeding readiness by interpreting behavioral and physiological indicators of estrus.
2. Apply appropriate animal restraint and handling techniques to safely perform reproductive procedures.
3. Demonstrate correct technique for artificial insemination and maintain frozen semen inventory using standard operating procedures.
4. Design and implement estrus and ovulation synchronization protocols suited to specific herd management goals.
5. Analyze reproductive performance data and recommend management adjustments to address herd-level fertility challenges.

ADVS4220 - Applied Equine Reproduction I - 3 - Credits

Course Overview

Course Prefix
ADVS

Course Number
4220

Department
Animal, Dairy & Veterinary Sciences

Course Title
Applied Equine Reproduction I

Grade Mode
Standard Letter

Repeat Status
NR

Course Description

This course focuses on reproductive management of the mare. Students will focus on breeding soundness exam for open mares, foaling, estrus cycle manipulation, diagnostic ultrasound for ovulation prediction, breeding with cooled shipped or frozen semen and finally pregnancy detection and maintenance. Students are required to participate in an early morning lecture and lab using mares maintained for the Equine Science breeding program.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ADVS4200 - Physiology of Reproduction and Lactation (CI)

Course Learning Objectives

Course Learning Outcomes

1. Explain the anatomy, physiology, and reproductive endocrinology in mares across seasonal and cyclic phases.
2. Apply knowledge of endocrine and behavioral cues to manage breeding cycles and optimize conception rates.
3. Explain how to manipulate the estrous cycle to optimize breeding outcomes.
4. Demonstrate competency in handling broodmares for reproductive examinations and procedures, assist the veterinarian during examinations and artificial insemination, and observe and interpret transrectal ultrasonography images to identify and correlate findings with stages of the estrous cycle.
5. Interpret breeding records, reproductive exams, and pregnancy detection data to support clinical decision-making.
6. Prepare and manage mares for breeding, pregnancy, foaling, and postpartum recovery using industry-standard protocols.
7. Identify and explain common causes of subfertility and infertility in mares.

ADVS4230 - Supervised Hours in Providing Equine-Assisted Services - 3 - Credits

Course Overview

Course Prefix
ADVS

Course Number
4230

Department
Animal, Dairy & Veterinary Sciences

Course Title
Supervised Hours in Providing Equine-Assisted Services

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students gain practical experience by assisting with the provision of Equine-Assisted Services. Supervised hours are completed at the USU Equine Experience program or another accredited center. Hours may be documented to meet certain Professional Association of Therapeutic Horsemanship International (PATH Intl.) portfolio requirements.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Special Approval
Instructor permission

Simple Requisites

Prerequisites

Type
Completion Requirement

Required

Complete ALL of the following Courses:

- ADVS3170 - Techniques in Adaptive Riding
  OR ADVS3400 - Equine Specialist in Equine-Assisted Interventions
- ADVS3610 - Training and Conditioning of the Lesson Horse

Course Learning Objectives

Course Learning Outcomes

1. Apply foundational knowledge of equine-assisted services to safely support clients and horses in therapeutic and educational settings.
2. Demonstrate effective teamwork, communication, and professionalism while assisting in EAS sessions.
3. Assess client and horse suitability for various EAS activities, considering safety, welfare, and individual needs.
4. Design and implement lesson plans and activities that align with participant goals and best practices in adaptive riding and horsemanship.
5. Evaluate participant progress and reflect on the instructor's own role in facilitating learning and well-being through equine-assisted services.
6. Integrate principles of community-engaged learning by contributing meaningfully to an EAS program that serves the broader community.

ADVS4250 - Internship in Animal Industry - 1 - 12 Credits

Course Overview

Course Prefix
ADVS

Course Number
4250

Department
Animal, Dairy & Veterinary Sciences

Course Title
Internship in Animal Industry

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Directed and evaluated educational work experience with an animal production unit, related business, or government facility in cooperation with the Livestock Education Foundation.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
12

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
12

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
12

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
12

Lecture Hours Operator:
TO

Special Approval
Instructor permission

Course Learning Objectives

Course Learning Outcomes
1. Apply academic and technical knowledge to real-world situations in the animal industry.
2. Demonstrate professional communication and presentation skills through discussion and reporting of internship experiences.
3. Analyze workplace practices, problem-solving strategies, and career competencies observed during the internship.
4. Reflect on professional growth, integrating feedback and experience to update career materials such as résumés and skill inventories.

ADVS4260 - Internship in Animal Biotechnology Industry - 2 - 12 Credits

Course Overview

Course Prefix
ADVS

Course Number
4260

Department
Animal, Dairy & Veterinary Sciences

Course Title
Internship in Animal Biotechnology Industry

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Directed and evaluated educational work experience with an animal biotechnology unit, or with a related business or government facility.

Credit Hours

Credit Hours Min:
2

Credit Hours Max:
12

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
2

Contact Hours Max:
12

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
2

Billing Hours Max:
12

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
2

Lecture Hours Max:
12

Lecture Hours Operator:
TO

Special Approval
Instructor permission

Course Learning Objectives

Course Learning Outcomes

1. Apply academic and technical knowledge to real-world situations in the biotechnology industry.
2. Demonstrate professional communication and presentation skills through discussion and reporting of internship experiences.
3. Analyze workplace practices, problem-solving strategies, and career competencies observed during the internship.
4. Reflect on professional growth, integrating feedback and experience to update career materials such as résumés and skill inventories.

ADVS4270 - Internship in Equine Industry - 1 - 12 Credits

Course Overview

Course Prefix
ADVS

Course Number
4270

Department
Animal, Dairy & Veterinary Sciences

Course Title
Internship in Equine Industry

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Directed and evaluated work experience with an equine facility.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
12

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
12

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
12

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
12

Lecture Hours Operator:
TO

Special Approval
Instructor permission

Course Learning Objectives

Course Learning Outcomes

1. Apply academic and technical knowledge to real-world situations in the equine industry.
2. Demonstrate professional communication and presentation skills through discussion and reporting of internship experiences.
3. Analyze workplace practices, problem-solving strategies, and career competencies observed during the internship.
4. Reflect on professional growth, integrating feedback and experience to update career materials such as résumés and skill inventories.

ADVS4310 - Animal Growth and Development - 3 - Credits

Course Overview

Course Prefix
ADVS

Course Number
4310

Department
Animal, Dairy & Veterinary Sciences

Course Title
Animal Growth and Development

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers the basics of animal growth and development and integrates other topics the students have learned (nutrition, reproduction, management, genetics, etc.) in relation to this topic.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ADVS2200 - Anatomy and Physiology of Animals

Course Learning Objectives

Course Learning Outcomes

1. Describe the process of growth and development from a single cell level to a whole organism level
2. Describe the principles and basic biological functions associated with animal growth and development applied to animal production systems
3. Explain what factors affect livestock growth and development and how alteration of these factors impact growth performance of livestock
4. Integrate and apply multi-disciplinary knowledges acquired from this course to estimate and enhance growth and efficiency of animal products

ADVS4560 - Principles of Animal Genetics and Breeding (QI) - 3 - Credits

Course Overview

Course Prefix
ADVS

Course Number
4560

Department
Animal, Dairy & Veterinary Sciences

Course Title
Principles of Animal Genetics and Breeding (QI)

General Education Attribute
QI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course explores genetic influences affecting animal performance and the application of selection principles, breeding systems, and methods of improvement to farm animals, including beef and dairy cattle, sheep, swine, and horses.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Course Learning Objectives

Course Learning Outcomes
1. Describe concepts, strategies, and emerging technologies used in animal genetics.
2. Develop and evaluate strategies for improving the genetics of livestock and companion animals through selection and breeding.
3. Use standard methods for collecting, organizing, and analyzing genetic information in animal populations.
4. Apply genetic principles to interpret traits and inheritance patterns in livestock and companion animals.
5. Apply quantitative and genetic tools to solve problems related to animal selection and genetic improvement.

ADVS4800 - Undergraduate Research or Creative Opportunity - 1 - 6 Credits

Course Overview

Course Prefix
ADVS

Course Number
4800

Department
Animal, Dairy & Veterinary Sciences

Course Title
Undergraduate Research or Creative Opportunity

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Research or creative activity pertaining to animals. May include management, production, medical, or basic science, with consideration of biological, chemical, or physical aspects, or instrument design.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
6

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
6

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
6

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
6

Lecture Hours Operator:
TO

Special Approval
Instructor permission

Course Learning Objectives

Course Learning Outcomes

1. Apply the scientific method or creative process to address a problem or question relevant to animal, dairy, veterinary, or equine sciences.
2. Demonstrate technical and analytical skills appropriate to the chosen research or creative project.
3. Interpret data, results, or creative products within the context of current knowledge in the field.
4. Communicate findings and conclusions effectively in written, visual, or oral form suitable for a scientific or professional audience.

ADVS4920 - Undergraduate Seminar (CI) - 2 - Credits

Course Overview

Course Prefix
ADVS

Course Number
4920

Department
Animal, Dairy & Veterinary Sciences

Course Title
Undergraduate Seminar (CI)

General Education Attribute
CI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description

Current developments in agricultural field selected by student. Each student is responsible for the research and oral presentation of a topic in the animal industries. Group investigations, preparations, and deliberations on issues in animal agriculture.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Registration Restrictions

Senior standing

Course Learning Objectives

Course Learning Outcomes

1. Locate, evaluate, and synthesize current research on a topic within the animal sciences.
2. Communicate scientific information clearly and accurately through both written and oral formats tailored to a professional audience.
3. Integrate knowledge from multiple areas of animal science, such as health and well-being, breeding and genetics, reproduction, and nutrition, to analyze contemporary issues in animal agriculture.
4. Develop and deliver evidence-based arguments on topics relevant to agricultural or companion animal industries.

ADVS5020 - One Health: People, Animals, and the Environment - 3 - Credits

Course Overview

Course Prefix
ADVS

Course Number
5020

Department
Animal, Dairy & Veterinary Sciences

Dual-Listed Courses
ADVS6020 - One Health: People, Animals, and the Environment

Course Title
One Health: People, Animals, and the Environment

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces core concepts of One Health, exploring the interconnected health of humans, animals, and the environment. It covers emerging disease dynamics, food and water security, ecological impacts, and the interdisciplinary approaches to addressing health challenges. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Other Enrollment Recommendations
BIOL3300 GENERAL MICROBIOLOGY recommended

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- BIOL1610 - Biology I
- CHEM2310 - Organic Chemistry I

OR CHEM3700 - Introductory Biochemistry

Course Learning Objectives

Course Learning Outcomes
1. Define and explain the core principles of the One Health framework, including the interconnections among human, animal, and environmental health.
2. Identify and analyze real-world examples that illustrate how human, animal, and environmental systems influence one another.
3. Apply a One Health approach to the assessment and proposed resolution of health challenges requiring multidisciplinary collaboration.
4. Describe and evaluate One Health dimensions of infectious and zoonotic diseases, food safety, antimicrobial resistance, and environmental change.
5. Discuss the human–animal bond and its relevance to physical, emotional, and societal well-being within the One Health context.
6. Strengthen professional networking and collaboration skills relevant to the One Health field.

ADVS5030 - Sustainable Agricultural Production Systems with Animals - 3 - Credits

Course Overview

Course Prefix
ADVS

Course Number
5030

Department
Animal, Dairy & Veterinary Sciences

Course Title
Sustainable Agricultural Production Systems with Animals

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Study of various domestic animal production systems in relation to sustainable agriculture and integrated ranch and farm management strategies. Consideration of environmental factors and overall profitability.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ADVS1110 - Introduction to Animal Science (BLS)

Course Learning Objectives

Course Learning Outcomes
1. Explain principles of sustainable and regenerative agricultural systems as they relate to livestock production, including ecological, economic, and social dimensions informed by both global frameworks and regional priorities for the Intermountain West.
2. Analyze animal production systems using ecological concepts such as biodiversity, nutrient cycling, grazing ecology, and ecosystem function.
3. Evaluate ranch and farm management strategies for environmental stewardship, resource use efficiency, and long-term system resilience.
4. Assess sustainability challenges and trade-offs in livestock systems, including land use, water resources, grazing pressure, climate impacts, and socio-economic constraints.
5. Develop evidence-based recommendations for improving the sustainability and resilience of livestock-based agricultural operations using integrative systems thinking.

ADVS5080 - Beef Cattle Management - 3 - Credits

Course Overview

Course Prefix
ADVS

Course Number
5080

Department
Animal, Dairy & Veterinary Sciences

Dual-Listed Courses
ADVS6080 - Beef Cattle Management

Course Title
Beef Cattle Management

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Managing the beef enterprise to yield optimum returns through integrating resource use and applying breeding, nutrition, reproduction, and animal health practices.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:
- ADVS2080 - Beef Production Practices

Required

Complete ALL of the following Courses:
- ADVS4200 - Physiology of Reproduction and Lactation (CI)
  OR ADVS4560 - Principles of Animal Genetics and Breeding (QI)

may be taken concurrently

Course Learning Objectives

Course Learning Outcomes
1. Analyze current beef production scenarios and make evidence-based management decisions.
2. Integrate knowledge from breeding, reproduction, nutrition, health, economics, marketing, and rangeland management to evaluate beef cattle operations.
3. Evaluate the economic and biological impacts of alternative management strategies within the beef industry.
4. Develop innovative approaches to improving beef cattle production systems.
5. Communicate management recommendations clearly and professionally in both written and oral formats.

ADVS5090 - Sheep Management and Wool Technology - 3 - Credits

Course Overview

Course Prefix
ADVS

Course Number
5090

Department
Animal, Dairy & Veterinary Sciences

Dual-Listed Courses
ADVS6090 - Sheep Management and Wool Technology

Course Title
Sheep Management and Wool Technology

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Detailed study of the managerial considerations for range and farm flock operations. Examinations of wool, and review of wool clip handling and merchandising. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ADVS2090 - Sheep Production Practices
- ADVS4200 - Physiology of Reproduction and Lactation (CI)
  OR ADVS4560 - Principles of Animal Genetics and Breeding (QI)

ADVS4200 PHYSIOLOGY REPROD/LACTATN (CI), ADVS4560 ANIMAL GENETICS AND BREED (QI) may be taken concurrently

Course Learning Objectives

Course Learning Outcomes
1. Describe the structure and key sectors of the U.S. sheep industry.
2. Apply knowledge of sheep breeds and fundamental biology—including reproduction, nutrition, immune function, and behavior—to make management decisions.
3. Evaluate wool characteristics and demonstrate proper handling techniques consistent with commercial classing standards.
4. Identify and assess common health, disease, parasite, and predation challenges in sheep and goat operations.

ADVS5130 - Dairy Cattle Management - 3 - Credits

Course Overview

Course Prefix
ADVS

Course Number
5130

Department
Animal, Dairy & Veterinary Sciences

Dual-Listed Courses
ADVS6130 - Dairy Cattle Management

Course Title
Dairy Cattle Management

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Capstone course drawing together concepts and applying them to a total dairy farm management program.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ADVS2130 - Dairy Cattle Production
- ADVS4200 - Physiology of Reproduction and Lactation (CI)
  OR ADVS4560 - Principles of Animal Genetics and Breeding (QI)

Either ADVS4200 PHYSIOLOGY REPROD/LACTATN (CI), ADVS4560 ANIMAL GENETICS AND BREED (QI) option may be taken concurrently

Course Learning Objectives

Course Learning Outcomes

1. Analyze dairy production, health, and reproductive records to assess herd performance and identify priority management issues.
2. Evaluate forage quality, ration structure, and feeding systems to judge nutritional adequacy and recommend improvements.
3. Assess facilities, cow comfort, and environmental management using structured on-farm evaluation tools.
4. Integrate data from nutrition, reproduction, health, facilities, and economics to develop practical, evidence-based recommendations for whole-farm improvement.
5. Communicate management findings clearly and professionally to producers and industry stakeholders.

ADVS5190 - Equine Business Management - 2 - Credits

Course Overview

Course Prefix
ADVS

Course Number
5190

Department
Animal, Dairy & Veterinary Sciences

Dual-Listed Courses
ADVS6190 - Equine Business Management

Course Title
Equine Business Management

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Deciding to turn passion for horses into a profitable business requires planning and business insight. This course creates a connection between business concepts acquired from prerequisite coursework and explores equine industry applications. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ADVS2190 - Horse Production Practices
- APEC2120 - Small Firm Accounting Basics
- APEC2310 - Small Firm Management

Course Learning Objectives

Course Learning Outcomes
1. Analyze key sectors and emerging trends in the equine industry to identify viable entrepreneurial opportunities.
2. Conduct a basic industry and market analysis to determine the feasibility and strategic implications of a selected equine enterprise.
3. Develop the core components of an equine business plan, including purpose, services, facility needs, risk mitigation, and marketing considerations and revise it using structured peer, instructor, and professional feedback to achieve industry-ready standards.
4. Interpret introductory financial documents, including income statements, balance sheets, and cash-flow summaries, to evaluate the financial position of an equine business.

ADVS5500 - Applied Animal Nutrition - 2 - Credits

Course Overview

Course Prefix
ADVS

Course Number
5500

Department
Animal, Dairy & Veterinary Sciences

Dual-Listed Courses
ADVS6500 - Applied Animal Nutrition

Course Title
Applied Animal Nutrition

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course will teach students how to use the information they have learned in introductory animal nutrition courses in applicable, real-life agricultural scenarios that can be applied in an industry setting.

Credit Hours

Credit Hours Min:
2

Contact Hours

Contact Hours Min:
2

Billing Hours

Billing Hours Min:
2

Lecture Hours

Lecture Hours Min:
2

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ADVS3500 - Principles of Animal Nutrition

Course Learning Objectives

Course Learning Outcomes
1. Evaluate feed analyses and nutrient profiles to determine whether rations meet the physiological requirements of beef and dairy cattle at different stages of production.
2. Formulate balanced rations by integrating forage quality, concentrate levels, fiber requirements, and metabolic constraints across production phases.
3. Identify and assess nutritional factors contributing to metabolic disorders and incorporate preventive strategies into ration design.
4. Analyze the economic implications of ration choices by evaluating input costs, nutrient density, and expected production outcomes.
5. Critically evaluate ration scenarios to identify errors, nutritional imbalances, or management issues and propose evidence-based corrections.

ADVS5530 - Nutrient Metabolization & Utilization - 3 - Credits

Course Overview

Course Prefix
ADVS

Course Number
5530

Department
Animal, Dairy & Veterinary Sciences

Dual-Listed Courses
ADVS6530 - Nutrient Metabolization & Utilization

Course Title
Nutrient Metabolization & Utilization

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers how nutrients are absorbed and metabolized in livestock animals to create end-products such as meat, milk, wool and eggs.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ADVS3500 - Principles of Animal Nutrition
- ADVS2200 - Anatomy and Physiology of Animals

Course Learning Objectives

Course Learning Outcomes
1. Explain how anatomy, physiology, and nutrition interact to influence nutrient digestion, absorption, and metabolism in production animals.
2. Describe and compare how carbohydrates, proteins, and lipids are metabolized to produce energy and end products such as muscle, fat, and milk.
3. Compare and contrast metabolic and nutrient utilization pathways in ruminant versus nonruminant species.
4. Critically evaluate primary scientific literature related to nutrient metabolism and utilization, and synthesize findings into written or oral reviews.

ADVS5620 - Advanced Animal Physiology - 3 - Credits

Course Overview

Course Prefix
ADVS

Course Number
5620

Department
Animal, Dairy & Veterinary Sciences

Dual-Listed Courses
ADVS6620 - Advanced Animal Physiology

Course Title
Advanced Animal Physiology

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course explores the physiological mechanisms and principles governing the function of domestic animals. Students will analyze body systems including nervous, renal, respiratory, cardiovascular, and endocrine systems. Emphasis is placed on clinical relevance and intersystem coordination in maintaining homeostasis. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ADVS2200 - Anatomy and Physiology of Animals

Course Learning Objectives

Course Learning Outcomes

1. Explain the physiological structure and function of major animal systems including nervous, sensory, renal, respiratory, cardiovascular, and endocrine systems.
2. Analyze homeostatic mechanisms in fluid balance, acid-base regulation, and temperature control.
3. Interpret and apply physiological principles to clinical and real-world animal health scenarios.
4. Evaluate the adaptive functions of body systems in various species and under stress or disease.
5. Integrate knowledge from multiple systems to assess whole-animal physiological responses.

ADVS5630 - Endocrinology (CI) - 3 - Credits

Course Overview

Course Prefix
ADVS

Course Number
5630

Department
Animal, Dairy & Veterinary Sciences

Cross-Listed Courses
BIOL5630 - Endocrinology (CI)

Dual-Listed Courses
ADVS6630 - Endocrinology

Course Title
Endocrinology (CI)

General Education Attribute
CI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Molecular, cellular and physiological aspects of the endocrine system in vertebrates, presented with a species comparative approach. Clinical aspects and diseases associated with dysfunction of the endocrine system.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- BIOL1620 - Biology II (BLS)

Course Learning Objectives

Course Learning Outcomes
1. Explain how hormones regulate physiological processes in vertebrates at the molecular, cellular, and whole-organism levels.
2. Describe mechanisms of hormone–receptor interaction and downstream signal transduction.
3. Interpret the organization and regulation of major endocrine axes, including positive and negative feedback systems.
4. Analyze endocrine function in healthy organisms and evaluate how disease or environmental disruptions alter hormonal regulation.
5. Critically evaluate primary scientific literature in endocrinology and communicate scientific interpretations clearly.

ADVS5650 - Science Communication - 3 - Credits

Course Overview

Course Prefix
ADVS

Course Number
5650

Department
Animal, Dairy & Veterinary Sciences

Dual-Listed Courses
ADVS6650 - Science Communication

Course Title
Science Communication

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Principles of effective science communication intended for scientific peers and general lay audiences. Instruction will center on effective written and/or oral communication for journal articles, proposals, conference presentation, public lectures and new media. This course is not discipline-specific.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Course Learning Objectives

Course Learning Outcomes
1. Describe historical and contemporary conventions in science communication and explain how they shape the organization and dissemination of scientific knowledge.
2. Explain the processes involved in scientific publishing and grant submission, including manuscript preparation, journal submission workflows, editorial decisions, and peer review.
3. Communicate scientific concepts effectively to specialist and non-specialist audiences through clear, accurate oral and written formats.
4. Locate and use appropriate resources, such as journal guidelines, funding announcements, and public-communication tools, to develop scientific manuscripts, proposals, or outreach materials.
5. Analyze and evaluate the role of science and scientists in local, national, and global contexts, using evidence to support critical perspectives.

ADVS5710 - Conceptualizing the Human-Animal Bond - 3 - Credits

Course Overview

Course Prefix
ADVS

Course Number
5710

Department
Animal, Dairy & Veterinary Sciences

Dual-Listed Courses
ADVS6710 - Conceptualizing the Human-Animal Bond

Course Title
Conceptualizing the Human-Animal Bond

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course is an interdisciplinary examination of human-animal interactions and the human-animal bond. Topics include historical foundations, theoretical orientations, psychological and physiological benefits of companion animals, the roles animals have with various special and multicultural populations, and animal welfare. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Registration Restrictions
Junior or senior standing

Course Learning Objectives

Course Learning Outcomes
Explain historical, philosophical, and cultural foundations of human–animal relationships.
2. Compare major theoretical frameworks used to interpret the human–animal bond and evaluate their explanatory value.
3. Summarize and critique empirical research on the health, psychosocial, and developmental effects of companion animals across the lifespan.
4. Analyze core principles of animal-assisted interventions and assess their impact on human wellbeing across diverse settings and populations.
5. Evaluate welfare and ethical dimensions of human–animal relationships, including issues related to animal abuse, domestic violence, and professional responsibility.
6. Locate, synthesize, and apply scholarly literature to support evidence-based perspectives on human–animal relationships.

ADVS5720 - Animal-Assisted Interventions and Special Populations - 3 - Credits

Course Overview

Course Prefix
ADVS

Course Number
5720

Department
Animal, Dairy & Veterinary Sciences

Dual-Listed Courses
ADVS6720 - Animal-Assisted Interventions and Special Populations

Course Title
Animal-Assisted Interventions and Special Populations

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course reviews theories of animal-assisted interventions (AAI) and specific therapeutic techniques as they apply to various special populations. Animal selection, program outcomes, and best practice approaches for developing and evaluating AAI programs are examined. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Registration Restrictions
Junior or senior standing

Other Enrollment Recommendations
ADVS5710 CONCEPT HUMAN ANIMAL BOND recommended

Course Learning Objectives

Course Learning Outcomes
1. Explain the physical, psychological, and developmental benefits of human–animal interactions across diverse populations.
2. Describe the range of animal-assisted activities, therapies, and service programs, and compare their goals, methods, and intended outcomes.
3. Apply theoretical frameworks and therapeutic techniques to analyze how animal-assisted interventions support individuals with specific needs.
4. Identify best practices for designing, implementing, and evaluating animal-assisted intervention programs, including appropriate animal selection and training.
5. Evaluate ethical and welfare considerations associated with involving animals in therapeutic or supportive roles.
6. Critique evaluation research related to animal-assisted interventions and use evidence to support program design or improvement.

ADVS5730 - Welfare and Behavior of Animals in Animal-Assisted Interventions - 3 - Credits

Course Overview

Course Prefix
ADVS

Course Number
5730

Department
Animal, Dairy & Veterinary Sciences

Dual-Listed Courses
ADVS6730 - Welfare and Behavior of Animals in Animal-Assisted Interventions

Course Title
Welfare and Behavior of Animals in Animal-Assisted Interventions

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers the foundations of animal welfare and behavior within the context of animal-assisted interventions (AAIs), providing students with the knowledge and practical skills to best advocate for the safety and well-being of animals in therapeutic settings. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Registration Restrictions
Junior or senior standing

Other Enrollment Recommendations
ADVS5710 CONCEPT HUMAN ANIMAL BOND and ADVS5720 AAI AND SPECIAL POPULATIONS

Course Learning Objectives

Course Learning Outcomes
1. Explain core ethical principles guiding the protection of therapy animal welfare in AAI settings.
2. Interpret behavioral indicators of stress, comfort, and engagement in therapy animals, and describe appropriate mitigation strategies.
3. Describe how a therapy animal's needs and functional abilities evolve across different life stages.
4. Explain foundational principles for supporting the physical and emotional well-being of animals working in AAI programs.

ADVS5740 - Capstone in Humans and Animal-Assisted Interventions - 3 - Credits

Course Overview

Course Prefix
ADVS

Course Number
5740

Department
Animal, Dairy & Veterinary Sciences

Dual-Listed Courses
ADVS6740 - Capstone in Humans and Animal-Assisted Interventions

Course Title
Capstone in Humans and Animal-Assisted Interventions

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
In this capstone course, students apply theoretical and practical knowledge to design, implement, and evaluate interventions, emphasizing animal welfare, multidisciplinary integration, and research methodologies to address key issues in human-animal interactions. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ADVS5710 - Conceptualizing the Human-Animal Bond
- ADVS5720 - Animal-Assisted Interventions and Special Populations
- ADVS5730 - Welfare and Behavior of Animals in Animal-Assisted Interventions

Course Learning Objectives

Course Learning Outcomes
1. Integrate concepts from human–animal interaction theory, animal welfare, and population-specific needs to design an evidence-based animal-assisted intervention.
2. Evaluate welfare, behavioral, and ethical considerations to ensure the safety and well-being of animals involved in intervention plans.
3. Apply qualitative, quantitative, or survey-based research methods to investigate a key question in the field of animal-assisted interventions.
Reflects your proposal's emphasis on methodological breadth.
4. Analyze intervention data or case findings to assess program effectiveness and identify areas for improvement.
5. Communicate intervention designs, research findings, and welfare justifications clearly and professionally to both specialist and non-specialist audiences.

ADVS5860 - Poisonous Range Plants Affecting Livestock - 3 - Credits

Course Overview

Course Prefix
ADVS

Course Number
5860

Department
Animal, Dairy & Veterinary Sciences

Cross-Listed Courses
WILD5860 - Poisonous Range Plants Affecting Livestock

Dual-Listed Courses
ADVS6860 - Poisonous Range Plants Affecting Livestock

Course Title
Poisonous Range Plants Affecting Livestock

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Introductory course on toxic plants and plant-induced diseases affecting livestock in the western U.S., combining lectures, field trips, and labs. Covers toxin mechanisms, diagnosis, treatment, and prevention. Intended for producers, educators, scientists, veterinarians, toxicologists, and diagnosticians.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Course Learning Objectives

Course Learning Outcomes

1. Identify major poisonous range plants and describe their toxic botanical, chemical, and ecological characteristics.
2. Explain mechanisms of plant toxin synthesis, metabolism, and action in grazing livestock.
3. Assess clinical signs, lesions, and biomarkers associated with toxic plant exposure and outline diagnostic approaches for common poisonings.
4. Evaluate management strategies, including grazing practices, range assessment, and animal treatments, to reduce or prevent toxic plant poisoning in livestock.

ADVS6020 - One Health: People, Animals, and the Environment - 3 - Credits

Course Overview

Course Prefix
ADVS

Course Number
6020

Department
Animal, Dairy & Veterinary Sciences

Cross-Listed Courses
VCLS6020 - One Health: People, Animals, and the Environment

Dual-Listed Courses
ADVS5020 - One Health: People, Animals, and the Environment

Course Title
One Health: People, Animals, and the Environment

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces core concepts of One Health, exploring the interconnected health of humans, animals, and the environment. It covers emerging disease dynamics, food and water security, ecological impacts, and the interdisciplinary approaches to addressing health challenges. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Other Enrollment Recommendations

BIOL3300 GENERAL MICROBIOLOGY recommended

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- BIOL1610 - Biology I

OR CHEM2310 - Organic Chemistry I
OR CHEM3700 - Introductory Biochemistry

Course Learning Objectives

Course Learning Outcomes

1. Define and explain the core principles of the One Health framework, including the interconnections among human, animal, and environmental health.
2. Identify and analyze real-world examples that illustrate how human, animal, and environmental systems influence one another.
3. Apply a One Health approach to the assessment and proposed resolution of health challenges requiring multidisciplinary collaboration.
4. Describe and evaluate One Health dimensions of infectious and zoonotic diseases, food safety, antimicrobial resistance, and environmental change.
5. Discuss the human–animal bond and its relevance to physical, emotional, and societal well-being within the One Health context.
6. Strengthen professional networking and collaboration skills relevant to the One Health field.
7. Synthesize interdisciplinary scientific and policy evidence to develop more advanced One Health analyses and justify integrated solutions to complex health challenges.

ADVS6080 - Beef Cattle Management - 3 - Credits

Course Overview

Course Prefix
ADVS

Course Number
6080

Department
Animal, Dairy & Veterinary Sciences

Dual-Listed Courses

ADVS5080 - Beef Cattle Management

Course Title

Beef Cattle Management

Grade Mode
Standard Letter

Repeat Status
NR

Course Description

Managing the beef enterprise to yield optimum returns through integrating resource use and applying breeding, nutrition, reproduction, and animal health practices.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ADVS2080 - Beef Production Practices
- ADVS4200 - Physiology of Reproduction and Lactation (CI)
  OR ADVS4560 - Principles of Animal Genetics and Breeding (QI)

ADVS4200 PHYSIOLOGY REPROD/LACTATN (CI), ADVS4560 ANIMAL GENETICS AND BREED (QI) may be taken concurrently

Course Learning Objectives

Course Learning Outcomes

1. Analyze current beef production scenarios and make evidence-based management decisions.
2. Integrate knowledge from breeding, reproduction, nutrition, health, economics, marketing, and rangeland management to evaluate beef cattle operations.
3. Evaluate the economic and biological impacts of alternative management strategies within the beef industry.
4. Develop innovative approaches to improving beef cattle production systems.
5. Communicate management recommendations clearly and professionally in both written and oral formats.
6. Demonstrate advanced analysis of beef cattle management issues by integrating scientific literature and applying higher-level critical reasoning to justify management decisions.

ADVS6090 - Sheep Management and Wool Technology - 3 - Credits

Course Overview

Course Prefix
ADVS

Course Number
6090

Department
Animal, Dairy & Veterinary Sciences

Dual-Listed Courses

ADVS5090 - Sheep Management and Wool Technology

Course Title

Sheep Management and Wool Technology

Grade Mode
Standard Letter

Repeat Status
NR

Course Description

Detailed study of the managerial considerations for range and farm flock operations. Examinations of wool, and review of wool clip handling and merchandising. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ADVS2090 - Sheep Production Practices
- ADVS4200 - Physiology of Reproduction and Lactation (CI)
  OR ADVS4560 - Principles of Animal Genetics and Breeding (QI)

ADVS4200 PHYSIOLOGY REPROD/LACTATN (CI), ADVS4560 ANIMAL GENETICS AND BREED (QI) may be taken concurrently

Course Learning Objectives

Course Learning Outcomes

1. Describe the structure and key sectors of the U.S. sheep industry.
2. Apply knowledge of sheep breeds and fundamental biology—including reproduction, nutrition, immune function, and behavior—to make management decisions.
3. Evaluate wool characteristics and demonstrate proper handling techniques consistent with commercial classing standards.
4. Identify and assess common health, disease, parasite, and predation challenges in sheep and goat operations.
5. Demonstrate advanced synthesis of scientific and industry research to analyze complex issues in sheep production or wool technology and justify management recommendations with a higher level of critical reasoning.

ADVS6130 - Dairy Cattle Management - 3 - Credits

Course Overview

Course Prefix
ADVS

Course Number
6130

Department
Animal, Dairy & Veterinary Sciences

Dual-Listed Courses

ADVS5130 - Dairy Cattle Management

Course Title

Dairy Cattle Management

Grade Mode
Standard Letter

Repeat Status
NR

Course Description

Capstone course drawing together concepts and applying them to a total dairy farm management program.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ADVS4200 - Physiology of Reproduction and Lactation (CI)
  OR ADVS4560 - Principles of Animal Genetics and Breeding (QI)

may be taken concurrently

Course Learning Objectives

Course Learning Outcomes

1. Analyze dairy production, health, and reproductive records to assess herd performance and identify priority management issues.
2. Evaluate forage quality, ration structure, and feeding systems to judge nutritional adequacy and recommend improvements.
3. Assess facilities, cow comfort, and environmental management using structured on-farm evaluation tools.
4. Integrate data from nutrition, reproduction, health, facilities, and economics to develop practical, evidence-based recommendations for whole-farm improvement.
5. Communicate management findings clearly and professionally to producers and industry stakeholders.
6. Synthesize scientific literature and industry benchmarks to provide deeper analytical justification for management recommendations.

ADVS6190 - Equine Business Management - 2 - Credits

Course Overview

Course Prefix
ADVS

Course Number
6190

Department
Animal, Dairy & Veterinary Sciences

Dual-Listed Courses

ADVS5190 - Equine Business Management

Course Title

Equine Business Management

Grade Mode
Standard Letter

Repeat Status
NR

Course Description

Deciding to turn passion for horses into a profitable business requires planning and business insight. This course creates a connection between business concepts acquired from prerequisite coursework and explores equine industry applications. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ADVS2190 - Horse Production Practices
- APEC2120 - Small Firm Accounting Basics
- APEC2310 - Small Firm Management

Course Learning Objectives

Course Learning Outcomes

1. Analyze key sectors and emerging trends in the equine industry to identify viable entrepreneurial opportunities.
2. Conduct a basic industry and market analysis to determine the feasibility and strategic implications of a selected equine enterprise.
3. Develop the core components of an equine business plan, including purpose, services, facility needs, risk mitigation, and marketing considerations and revise it using structured peer, instructor, and professional feedback to achieve industry-ready standards.
4. Interpret introductory financial documents, including income statements, balance sheets, and cash-flow summaries, to evaluate the financial position of an equine business.
5. Synthesize industry research and conduct advanced financial analysis to justify strategic decisions in an equine business plan

ADVS6200 - Physiology of Reproduction - 3 - Credits

Course Overview

Course Prefix
ADVS

Course Number
6200

Department
Animal, Dairy & Veterinary Sciences

Course Title
Physiology of Reproduction

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Study of processes of reproduction in mammals, including fertilization, embryonic development, reproductive endocrinology, and mechanisms of control.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ADVS4200 - Physiology of Reproduction and Lactation (CI)
- CHEM3700 - Introductory Biochemistry

ADVS6210 - Molecular Reproduction and Development - 3 - Credits

Course Overview

Course Prefix
ADVS

Course Number
6210

Department
Animal, Dairy & Veterinary Sciences

Dual-Listed Courses
ADVS7210 - Molecular Reproduction and Development

Course Title
Molecular Reproduction and Development

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Lecture-based course focusing on current knowledge of genes associated with gametogenesis, fertilization, nuclear reprogramming, and embryonic and fetal development.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ADVS6200 - Physiology of Reproduction

ADVS6310 - Advanced Animal Growth and Development - 3 - Credits

Course Overview

Course Prefix
ADVS

Course Number
6310

Department
Animal, Dairy & Veterinary Sciences

Course Title
Advanced Animal Growth and Development

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces students to advanced principles of animal growth presented by faculty experts from multiple institutions across the United States. Designed for graduate students with an interest in growth biology and a background in biology, biochemistry and physiology.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Course Learning Objectives

Course Learning Outcomes
1. Explain the structure, development, and function of extracellular matrix, muscle, adipose, and mammary tissue, along with the basics of cell communication and the importance of the gut microbiome.
2. Apply knowledge of tissue biology to principles of growth curves, body composition, growth promotion, and meat quality.
3. Critically evaluate emerging research through critiques of scientific literature and, in the process, expand their network of peer researchers in related fields of Animal Science.

ADVS6500 - Applied Animal Nutrition - 2 - Credits

Course Overview

Course Prefix
ADVS

Course Number
6500

Department
Animal, Dairy & Veterinary Sciences

Dual-Listed Courses
ADVS5500 - Applied Animal Nutrition

Course Title
Applied Animal Nutrition

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course will teach students how to use the information they have learned in introductory animal nutrition courses in applicable, real-life agricultural scenarios that can be applied in an industry setting. In addition, graduate students enrolled in the course will learn how techniques in applied animal nutrition can be modified and applied to research settings.

Credit Hours

Credit Hours Min:
2

Contact Hours

Contact Hours Min:
2

Billing Hours

Billing Hours Min:
2

Lecture Hours

Lecture Hours Min:
2

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ADVS3500 - Principles of Animal Nutrition

Course Learning Objectives

Course Learning Outcomes
1. Evaluate feed analyses and nutrient profiles to determine whether rations meet the physiological requirements of beef and dairy cattle at different stages of production.
2. Formulate balanced rations by integrating forage quality, concentrate levels, fiber requirements, and metabolic constraints across production phases.
3. Identify and assess nutritional factors contributing to metabolic disorders and incorporate preventive strategies into ration design.
4. Analyze the economic implications of ration choices by evaluating input costs, nutrient density, and expected production outcomes.
5. Critically evaluate ration scenarios to identify errors, nutritional imbalances, or management issues and propose evidence-based corrections.
6. Integrate scientific literature and advanced nutritional models to justify ration strategies and management recommendations with a higher level of analytical rigor.

ADVS6510 - Advanced Ruminant Nutrition and Emerging Technologies - 3 - Credits

Course Overview

Course Prefix
ADVS

Course Number
6510

Department
Animal, Dairy & Veterinary Sciences

Dual-Listed Courses
ADVS7510 - Advanced Ruminant Nutrition and Emerging Technologies

Course Title
Advanced Ruminant Nutrition and Emerging Technologies

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course examines nutritional strategies in ruminant digestion, metabolism, and health. Emphasizes precision technologies to enhance feed efficiency, animal welfare, and sustainability. Includes critical evaluation of current research and its application in agricultural and research settings.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Other Enrollment Recommendations
Equivalent prior learning may fulfill the prerequisite requirement, please see advisor for further details

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ADVS3500 - Principles of Animal Nutrition

Course Learning Objectives

Course Learning Outcomes
1. Explain how ruminant physiology and metabolism influence nutrition, production, and health.
2. Analyze the role of precision technologies in managing ruminant nutrition and welfare.
3. Critically evaluate and apply current research in ruminant nutrition to practical scenarios.

ADVS6530 - Nutrient Metabolization & Utilization - 3 - Credits

Course Overview

Course Prefix
ADVS

Course Number
6530

Department
Animal, Dairy & Veterinary Sciences

Dual-Listed Courses
ADVS5530 - Nutrient Metabolization & Utilization

Course Title
Nutrient Metabolization & Utilization

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course will cover how nutrients are absorbed and metabolized in livestock animals to create end-products such as meat, milk, wool and eggs.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ADVS3500 - Principles of Animal Nutrition
- ADVS2200 - Anatomy and Physiology of Animals

Course Learning Objectives

Course Learning Outcomes
1. Explain how anatomy, physiology, and nutrition interact to influence nutrient digestion, absorption, and metabolism in production animals.
2. Describe and compare how carbohydrates, proteins, and lipids are metabolized to produce energy and end products such as muscle, fat, and milk.
3. Compare and contrast metabolic and nutrient utilization pathways in ruminant versus nonruminant species.
4. Critically evaluate primary scientific literature related to nutrient metabolism and utilization, and synthesize findings into written or oral reviews.
5. Demonstrate advanced integration and critical analysis of nutrient metabolism concepts by synthesizing current scientific literature to support more complex physiological interpretations and applications.

ADVS6620 - Advanced Animal Physiology - 3 - Credits

Course Overview

Course Prefix
ADVS

Course Number
6620

Department
Animal, Dairy & Veterinary Sciences

Dual-Listed Courses
ADVS5620 - Advanced Animal Physiology

Course Title
Advanced Animal Physiology

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course explores the physiological mechanisms and principles governing the function of domestic animals. Students will analyze body systems including nervous, renal, respiratory, cardiovascular, and endocrine systems. Emphasis is placed on clinical relevance and intersystem coordination in maintaining homeostasis. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ADVS2200 - Anatomy and Physiology of Animals

An equivalent undergraduate physiology course is also acceptable.

Course Learning Objectives

Course Learning Outcomes
1. Explain the physiological structure and function of major animal systems including nervous, sensory, renal, respiratory, cardiovascular, and endocrine systems.
2. Analyze homeostatic mechanisms in fluid balance, acid-base regulation, and temperature control.
3. Interpret and apply physiological principles to clinical and real-world animal health scenarios.
4. Evaluate the adaptive functions of body systems in various species and under stress or disease.
5. Integrate knowledge from multiple systems to assess whole-animal physiological responses.
6. Critically evaluate current research literature in animal physiology.
7. Design and propose experimental approaches to investigate physiological questions.
8.Communicate complex physiological concepts effectively in both written and oral formats tailored to scientific and lay audiences.

ADVS6630 - Endocrinology - 3 - Credits

Course Overview

Course Prefix
ADVS

Course Number
6630

Department
Animal, Dairy & Veterinary Sciences

Cross-Listed Courses
BIOL6630 - Endocrinology

Dual-Listed Courses
ADVS5630 - Endocrinology (CI)

Course Title
Endocrinology

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Molecular, cellular and physiological aspects of the endocrine system in vertebrates, presented with a species comparative approach. Clinical aspects and diseases associated with dysfunction of the endocrine system.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- BIOL1620 - Biology II (BLS)

Course Learning Objectives

Course Learning Outcomes
1. Explain how hormones regulate physiological processes in vertebrates at the molecular, cellular, and whole-organism levels.
2. Describe mechanisms of hormone–receptor interaction and downstream signal transduction.
3. Interpret the organization and regulation of major endocrine axes, including positive and negative feedback systems.
4. Analyze endocrine function in healthy organisms and evaluate how disease or environmental disruptions alter hormonal regulation.
5. Critically evaluate primary scientific literature in endocrinology and communicate scientific interpretations clearly.
6. Synthesize advanced scientific literature to develop deeper mechanistic interpretations of endocrine regulation and its disruption.

ADVS6650 - Science Communication - 3 - Credits

Course Overview

Course Prefix
ADVS

Course Number
6650

Department
Animal, Dairy & Veterinary Sciences

Dual-Listed Courses
ADVS5650 - Science Communication

Course Title
Science Communication

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Principles of effective science communication intended for scientific peers and general lay audiences. Instruction will center on effective written and/or oral communication for journal articles, proposals, conference presentation, public lectures and new media. This course is not discipline-specific.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Course Learning Objectives

Course Learning Outcomes

1. Describe historical and contemporary conventions in science communication and explain how they shape the organization and dissemination of scientific knowledge.
2. Explain the processes involved in scientific publishing and grant submission, including manuscript preparation, journal submission workflows, editorial decisions, and peer review.
3. Communicate scientific concepts effectively to specialist and non-specialist audiences through clear, accurate oral and written formats.
4. Locate and use appropriate resources—such as journal guidelines, funding announcements, and public-communication tools—to develop scientific manuscripts, proposals, or outreach materials.
5. Analyze and evaluate the role of science and scientists in local, national, and global contexts, using evidence to support critical perspectives.
6. Synthesize advanced scientific and societal literature to produce deeper, more analytically rigorous communication products tailored to professional and public audiences.

ADVS6700 - Epigenetics - 3 - Credits

Course Overview

Course Prefix
ADVS

Course Number
6700

Department
Animal, Dairy & Veterinary Sciences

Course Title
Epigenetics

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Epigenetics is the study of heritable changes in gene expression that do not involve changes to the underlying DNA sequence. This course is an in-depth discussion- and literature-based treatment of the molecular mechanisms and manifestations of epigenetics in eukaryotic systems.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- CHEM5700 - General Biochemistry I

ADVS6710 - Conceptualizing the Human-Animal Bond - 3 - Credits

Course Overview

Course Prefix
ADVS

Course Number
6710

Department
Animal, Dairy & Veterinary Sciences

Dual-Listed Courses
ADVS5710 - Conceptualizing the Human-Animal Bond

Course Title
Conceptualizing the Human-Animal Bond

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course is an interdisciplinary examination of human-animal interactions and the human-animal bond. Topics include historical foundations, theoretical orientations, psychological and physiological benefits of companion animals, the roles animals have with various special and multicultural populations, and animal welfare. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Graduate standing

ADVS6720 - Animal-Assisted Interventions and Special Populations - 3 - Credits

Course Overview

Course Prefix
ADVS

Course Number
6720

Department
Animal, Dairy & Veterinary Sciences

Dual-Listed Courses
ADVS5720 - Animal-Assisted Interventions and Special Populations

Course Title
Animal-Assisted Interventions and Special Populations

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course reviews theories of animal-assisted interventions (AAI) and specific therapeutic techniques as they apply to various special populations. Animal selection, program outcomes, and best practice approaches for developing and evaluating AAI programs are examined. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Graduate standing

Other Enrollment Recommendations
ADVS6710 CONCEPT HUMAN ANIMAL BOND

Course Learning Objectives

Course Learning Outcomes
1. Explain historical, philosophical, and cultural foundations of human–animal relationships.
2. Compare major theoretical frameworks used to interpret the human–animal bond and evaluate their explanatory value.
3. Summarize and critique empirical research on the health, psychosocial, and developmental effects of companion animals across the lifespan.

4. Analyze core principles of animal-assisted interventions and assess their impact on human wellbeing across diverse settings and populations.
5. Evaluate welfare and ethical dimensions of human–animal relationships, including issues related to animal abuse, domestic violence, and professional responsibility.
6. Locate, synthesize, and apply scholarly literature to support evidence-based perspectives on human–animal relationships.
7. Synthesize advanced theoretical and empirical literature to generate deeper, more critical interpretations of human–animal relationship frameworks.

ADVS6730 - Welfare and Behavior of Animals in Animal-Assisted Interventions - 3 - Credits

Course Overview

Course Prefix
ADVS

Course Number
6730

Department
Animal, Dairy & Veterinary Sciences

Dual-Listed Courses
ADVS5730 - Welfare and Behavior of Animals in Animal-Assisted Interventions

Course Title
Welfare and Behavior of Animals in Animal-Assisted Interventions

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers the foundations of animal welfare and behavior within the context of animal-assisted interventions (AAIs), providing students with the knowledge and practical skills to best advocate for the safety and well-being of animals in therapeutic settings. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Graduate standing

Other Enrollment Recommendations
ADVS6710 CONCEPT HUMAN ANIMAL BOND and ADVS6720 AAI AND SPECIAL POPULATIONS

Course Learning Objectives

Course Learning Outcomes
1. Explain core ethical principles guiding the protection of therapy animal welfare in AAI settings.
2. Interpret behavioral indicators of stress, comfort, and engagement in therapy animals, and describe appropriate mitigation strategies.
3. Describe how a therapy animal's needs and functional abilities evolve across

different life stages.
4. Explain foundational principles for supporting the physical and emotional well-being of animals working in AAI programs.
5. Evaluate welfare-related scientific literature and integrate evidence into an informed perspective on behavioral management and welfare support for therapy animals.

ADVS6740 - Capstone in Humans and Animal-Assisted Interventions - 3 - Credits

Course Overview

Course Prefix
ADVS

Course Number
6740

Department
Animal, Dairy & Veterinary Sciences

Dual-Listed Courses
ADVS5740 - Capstone in Humans and Animal-Assisted Interventions

Course Title
Capstone in Humans and Animal-Assisted Interventions

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
In this capstone course, students apply theoretical and practical knowledge to design, implement, and evaluate interventions, emphasizing animal welfare, multidisciplinary integration, and research methodologies to address key issues in human-animal interactions. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Graduate standing

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ADVS6710 - Conceptualizing the Human-Animal Bond
- ADVS6720 - Animal-Assisted Interventions and Special Populations

- ADVS6730 - Welfare and Behavior of Animals in Animal-Assisted Interventions

Course Learning Objectives

Course Learning Outcomes

1. Integrate concepts from human–animal interaction theory, animal welfare, and population-specific needs to design an evidence-based animal-assisted intervention program.
2. Evaluate welfare, behavioral, and ethical considerations to ensure the safety and well-being of animals involved in intervention plans.
3. Apply qualitative, quantitative, or survey-based research methods to investigate a key question in the field of animal-assisted interventions and human animal interactions.
4. Analyze intervention data or case findings to assess program effectiveness and identify areas for improvement.
5. Communicate intervention designs, research findings, and welfare justifications clearly and professionally to both specialist and non-specialist audiences.
6. Demonstrate critical thinking skills throughout the development of the different components of your project.
7. Design and conduct a research project that utilizes theory-based applications of qualitative, quantitative, and survey research methodologies to explore significant questions and challenges in AAI/HAI contexts.
8. Synthesize advanced theoretical and empirical literature to justify more complex intervention designs and produce deeper analytical evaluations of program outcomes.

ADVS6800 - Graduate Student Seminar - 1 - Credits

Course Overview

Course Prefix
ADVS

Course Number
6800

Department
Animal, Dairy & Veterinary Sciences

Course Title
Graduate Student Seminar

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
Students participate in seminars on topics of interest in animal, dairy and veterinary sciences.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Design and deliver a clear, well-organized oral presentation that effectively communicates research-based information to a professional audience.
2. Critically evaluate peer presentations by providing constructive, evidence-based feedback and engaging in scholarly discussion.
3. Synthesize current or emerging research in animal, dairy, or veterinary sciences and communicate its significance, methodology, and implications.

ADVS6860 - Poisonous Range Plants Affecting Livestock - 3 - Credits

Course Overview

Course Prefix
ADVS

Course Number
6860

Department
Animal, Dairy & Veterinary Sciences

Dual-Listed Courses
ADVS5860 - Poisonous Range Plants Affecting Livestock

Course Title
Poisonous Range Plants Affecting Livestock

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Introductory course on toxic plants and plant-induced diseases affecting livestock in the western U.S., combining lectures, field trips, and labs. Covers toxin mechanisms, diagnosis, treatment, and prevention. Intended for producers, educators, scientists, veterinarians, toxicologists, and diagnosticians. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Course Learning Objectives

Course Learning Outcomes
1. Identify major poisonous range plants and describe their toxic botanical, chemical, and ecological characteristics.
2. Explain mechanisms of plant toxin synthesis, metabolism, and action in grazing livestock.
3. Assess clinical signs, lesions, and biomarkers associated with toxic plant exposure and outline diagnostic approaches for common poisonings.
4. Evaluate management strategies, including grazing practices, range assessment, and animal treatments, to reduce or prevent toxic plant poisoning in livestock.
5. Investigate a clinical toxic plant case and communicate an in-depth analysis of poisoning mechanisms, diagnosis, and management in both written and oral formats.

ADVS6900 - Special Problems - 1 - 3 Credits

Course Overview

Course Prefix
ADVS

Course Number
6900

Department
Animal, Dairy & Veterinary Sciences

Course Title
Special Problems

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Readings, discussions, lectures, literature reviews, and research problems in animal, dairy, and bioveterinary sciences.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

Special Approval
Department and instructor permission

Course Learning Objectives

Course Learning Outcomes
1. Critically evaluate and synthesize current scientific literature relevant to a specialized problem in animal, dairy, or bioveterinary sciences.
2. Design and conduct an independent investigation or project addressing a clearly defined research question or applied problem.

3. Interpret and assess results or theoretical frameworks within the broader scientific context of the discipline.
4. Communicate findings and implications in a format appropriate for professional or scholarly audiences.

ADVS6950 - Teaching Experiences in Animal, Dairy and Veterinary Sciences - 3 - Credits

Course Overview

Course Prefix
ADVS

Course Number
6950

Department
Animal, Dairy & Veterinary Sciences

Course Title
Teaching Experiences in Animal, Dairy and Veterinary Sciences

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
Students work with faculty in the Department of Animal, Dairy & Veterinary Sciences to gain experience in teaching.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Course Learning Objectives

Course Learning Outcomes

1. Demonstrate professional and ethical conduct in all aspects of instructional support, including communication, grading, and classroom interactions.

2. Develop, implement, and/or evaluate instructional materials or learning activities that support course objectives and enhance student learning.

3. Evaluate student learning and provide constructive, timely feedback using fair and transparent grading practices.

4. Reflect critically on their development as an educator, integrating feedback from mentors and students to formulate goals for continued teaching improvement.

ADVS6970 - Research and Thesis - 1 - 12 Credits

Course Overview

Course Prefix
ADVS

Course Number
6970

Department
Animal, Dairy & Veterinary Sciences

Course Title
Research and Thesis

Grade Mode
Temporary Pass/Fail

Repeat Status
RP

Course Description
Research and Thesis

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
12

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
12

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
12

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
12

Lecture Hours Operator:
TO

No Requirements

ADVS6990 - Continuing Graduate Advisement - 1 - 3 Credits

Course Overview

Course Prefix
ADVS

Course Number
6990

Department
Animal, Dairy & Veterinary Sciences

Course Title
Continuing Graduate Advisement

Grade Mode
Temporary Pass/Fail

Repeat Status
RP

Course Description
Continuing Graduate Advisement

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

No Requirements

ADVS7210 - Molecular Reproduction and Development - 3 - Credits

Course Overview

Course Prefix
ADVS

Course Number
7210

Department
Animal, Dairy & Veterinary Sciences

Dual-Listed Courses
ADVS6210 - Molecular Reproduction and Development

Course Title
Molecular Reproduction and Development

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Lecture-based course focusing on current knowledge of genes associated with gametogenesis, fertilization, nuclear reprogramming, and embryonic and fetal development.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ADVS6200 - Physiology of Reproduction

ADVS7510 - Advanced Ruminant Nutrition and Emerging Technologies - 3 - Credits

Course Overview

Course Prefix
ADVS

Course Number
7510

Department
Animal, Dairy & Veterinary Sciences

Dual-Listed Courses
ADVS6510 - Advanced Ruminant Nutrition and Emerging Technologies

Course Title
Advanced Ruminant Nutrition and Emerging Technologies

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course examines nutritional strategies in ruminant digestion, metabolism, and health. Precision technologies to enhance feed efficiency, animal welfare, and sustainability is emphasized. Includes critical evaluation of current research and its application in agricultural and research settings.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Other Enrollment Recommendations
Equivalent prior learning may fulfill the prerequisite requirement, please see advisor for further details

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ADVS3500 - Principles of Animal Nutrition

Course Learning Objectives

Course Learning Outcomes
1. Explain how ruminant physiology and metabolism influence nutrition, production, and health.
2. Analyze the role of precision technologies in managing ruminant nutrition and welfare.
3. Critically evaluate and apply current research in ruminant nutrition to practical scenarios.

ADVS7970 - Dissertation Research - 1 - 12 Credits

Course Overview

Course Prefix
ADVS

Course Number
7970

Department
Animal, Dairy & Veterinary Sciences

Course Title
Dissertation Research

Grade Mode
Temporary Pass/Fail

Repeat Status
RP

Course Description
This course consists of individual work on research problems for students enrolled in doctoral programs.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
12

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
12

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
12

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
12

Lecture Hours Operator:
TO

ADVS7990 - Continuing Graduate Advisement - 1 - 9 Credits

Course Overview

Course Prefix
ADVS

Course Number
7990

Department
Animal, Dairy & Veterinary Sciences

Course Title
Continuing Graduate Advisement

Grade Mode
Temporary Pass/Fail

Repeat Status
RP

Course Description
This course provides graduate students with continued support and advisement. It is usually taken following completion of all coursework required for the degree.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
9

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
9

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
9

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
9

Lecture Hours Operator:
TO

AG4250 - Advanced Internship and Cooperative Experience - 1 - 6 Credits

Course Overview

Course Prefix
AG

Course Number
4250

Department
College of Agriculture & Natural Resources

Course Title
Advanced Internship and Cooperative Experience

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course comprises an advanced or middle-level internship or cooperative experience to be approved by the Dean's Office. It is intended for nonformal students interested in a broad agricultural experience.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
6

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
6

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
6

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
6

Lecture Hours Operator:
TO

AG4900 - Special Problems-Ag Ambassadors - 1 - Credits

Course Overview

Course Prefix
AG

Course Number
4900

Department
College of Agriculture & Natural Resources

Course Title
Special Problems-Ag Ambassadors

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course is a one-semester leadership course for Ag Ambassadors.

Credit Hours

Credit Hours Min:
1

Contact Hours

Contact Hours Min:
1

Billing Hours

Billing Hours Min:
1

Lecture Hours

Lecture Hours Min:
1

Special Approval

Approval from the Dean's Office

ALC5500 - Readings in Sanskrit Literature - 3 - Credits

Course Overview

Course Prefix
ALC

Course Number
5500

Department
History, Cultures & Ideas

Course Title
Readings in Sanskrit Literature

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Students read texts written in Sanskrit with the goal of building language skills and gaining insight into history and culture. Assessment is based on the student's abilities to translate and provide critical analysis.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Course Learning Objectives

Course Learning Outcomes

Students will be able to:

1. Demonstrate increased fluency in the language and idiom of the texts under review.
2. Comprehend syntax and vocabulary related to critical historical texts in Indian literature.
3. Engage in informed discussion about the historical, cultural, and religious contexts of Sanskrit literature.

ALC6300 - Readings in Latin - 3 - Credits

Course Overview

Course Prefix
ALC

Course Number
6300

Department
History, Cultures & Ideas

Course Title
Readings in Latin

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Students read texts written in Latin with the goal of building language skills and gaining insight into history. Assessment is based on the student's abilities to translate and provide critical analysis.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

ALC6350 - Readings in Classical Literature - 3 - Credits

Course Overview

Course Prefix
ALC

Course Number
6350

Department
History, Cultures & Ideas

Course Title
Readings in Classical Literature

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Students read texts written in Latin and/or Greek with the goal of building language skills and gaining insight into history. Assessment is based on the student's abilities to translate and provide critical analysis.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Student must be admitted into the Ancient Languages and Cultures - MA, MS program.

Course Learning Objectives

Course Learning Outcomes

1. To increase students familiarity with the evolution of classical languages.

2. To improve student fluency in Latin and/or Greek.

ALC6400 - Readings in Ancient Greek - 3 - Credits

Course Overview

Course Prefix
ALC

Course Number
6400

Department
History, Cultures & Ideas

Course Title
Readings in Ancient Greek

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Students read texts written in ancient Greek with the goal of building language skills and gaining insight into history. Assessment is based on the student's abilities to translate and provide critical analysis.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

ALC6800 - Ancient Language Laboratory - 3 - Credits

Course Overview

Course Prefix
ALC

Course Number
6800

Department
History, Cultures & Ideas

Course Title
Ancient Language Laboratory

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students collaborate with faculty and peers in the study of historical documents written in an ancient language. The goal is to translate as-yet untranslated texts which underlie current research. Credit is based on attendance and participation.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

ALC6900 - Directed Readings - 1 - 3 Credits

Course Overview

Course Prefix
ALC

Course Number
6900

Department
History, Cultures & Ideas

Course Title
Directed Readings

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course covers directed readings in historical fields where the knowledge of ancient language is required.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

Special Approval

Instructor signature required

ANTH1010 - Cultural Anthropology (BSS) - 3 - Credits

Course Overview

Course Prefix
ANTH

Course Number
1010

Department
School of Social Sciences

Course Title
Cultural Anthropology (BSS)

General Education Attribute
BSS

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Role of cultural concepts within discipline of anthropology. Relationship of cultural concepts to survival and adaptation, society and social life, ideology and symbolism, and cultural change and diversity. Applications to contemporary world problems.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

ANTH1020 - Biological Anthropology (BLS) - 3 - Credits

Course Overview

Course Prefix
ANTH

Course Number
1020

Department
School of Social Sciences

Course Title
Biological Anthropology (BLS)

General Education Attribute
BLS

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Survey of multidisciplinary field of biological anthropology. Includes study of fossil and living primates, fossil evidence for human evolution, bioarchaeology, contemporary human variation and adaptation, principles of evolutionary theory, and introductory population genetics.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

ANTH1030 - World Archaeology (BSS) - 3 - Credits

Course Overview

Course Prefix
ANTH

Course Number
1030

Department
School of Social Sciences

Course Title
World Archaeology (BSS)

General Education Attribute
BSS

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Surveys archaeology and the means by which inferences about the past are made. Examines major processes shaping humans, including world colonization, our foraging legacy, origins of agriculture and civilization, and implications of our past for the present and future.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

ANTH1090 - Introduction to Interfaith Leadership (BHU) - 3 - Credits

Course Overview

Course Prefix
ANTH

Course Number
1090

Department
School of Social Sciences

Cross-Listed Courses
RELS1090 - Introduction to Interfaith Leadership (BHU)

Course Title
Introduction to Interfaith Leadership (BHU)

General Education Attribute
BHU

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This is a foundations course for the Interfaith Leadership Certificate Program. It is a required course for students in this program and is open to all students. The course introduces students to knowledge, vision, and skills of interfaith leadership and is applicable to all majors.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

ANTH1099 - Resources in Anthropology at USU - 1 - Credits

Course Overview

Course Prefix
ANTH

Course Number
1099

Department
School of Social Sciences

Course Title
Resources in Anthropology at USU

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Familiarizes incoming freshmen, new majors, and transfer students with the academic resources available to Anthropology students at USU. Covers program, department, library, college, campus, intercampus, and internet resources.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

ANTH2010 - Peoples of the Contemporary World (BSS) - 3 - Credits

Course Overview

Course Prefix
ANTH

Course Number
2010

Department
School of Social Sciences

Course Title
Peoples of the Contemporary World (BSS)

General Education Attribute
BSS

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Introduces different ways of life, rural and urban, from the world's major culture areas. Focuses on how contemporary societies have evolved in ecological, historical, and political context. Introduces problems arising from third world social change.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

ANTH2011 - Introduction to Peoples of the Southwest (BHU) - 3 - Credits

Course Overview

Course Prefix
ANTH

Course Number
2011

Department
School of Social Sciences

Course Title
Introduction to Peoples of the Southwest (BHU)

General Education Attribute
BHU

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Course will appeal to those interested in the prehistoric and living peoples of the American Southwest. A variety of classroom and field trip experiences will be used to apply the principles of archaeology and anthropology to the native peoples of the region.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Other Enrollment Recommendations
Previous anthropology experience or coursework suggested

ANTH2018 - Introduction to Native American History and Culture (BSS) - 3 - Credits

Course Overview

Course Prefix
ANTH

Course Number
2018

Department
School of Social Sciences

Cross-Listed Courses
HIST2018 - Introduction to Native American History and Culture (BSS)

Course Title
Introduction to Native American History and Culture (BSS)

General Education Attribute
BSS

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides a broad overview of the historical and contemporary issues experienced by Native American communities. Students engage with these issues through scholarly articles, podcasts, literature, film, and oral history.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

ANTH2030 - Principles of Archaeology (BSS) - 3 - Credits

Course Overview

Course Prefix
ANTH

Course Number
2030

Department
School of Social Sciences

Course Title
Principles of Archaeology (BSS)

General Education Attribute
BSS

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course addresses different ways of interpreting the past by exploring archaeology's historical, theoretical, and methodological development. This course provides students with the basic tools for conducting archaeological research and with an understanding of the background of the discipline.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

ANTH2210 - Introduction to Folklore (BHU) - 3 - Credits

Course Overview

Course Prefix
ANTH

Course Number
2210

Department
School of Social Sciences

Cross-Listed Courses
ENGL2210 - Introduction to Folklore (BHU), HIST2210 - Introduction to Folklore (BHU)

Course Title
Introduction to Folklore (BHU)

General Education Attribute
BHU

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Introduction to major genres of folklore (folk narrative, custom, folk music and song, vernacular architecture and arts), folk groups (regional, ethnic, occupational, familial), and basic folklore research method (collecting and archiving).

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

ANTH2520 - Introductory Archaeology Field School - 3 - 5 Credits

Course Overview

Course Prefix
ANTH

Course Number
2520

Department
School of Social Sciences

Course Title
Introductory Archaeology Field School

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Internship on archaeological field project, including survey, excavation, recording, mapping, and scientific conduct or archaeological problem solving. Application process may begin as early as December. Additional field support fee required.

Credit Hours

Credit Hours Min:
3

Credit Hours Max:
5

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
3

Contact Hours Max:
5

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
3

Billing Hours Max:
5

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
3

Lecture Hours Max:
5

Lecture Hours Operator:
TO

Special Approval
Instructor Permission

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ANTH1030 - World Archaeology (BSS)

ANTH2525 - Introductory Archaeology Lab - 1 - 3 Credits

Course Overview

Course Prefix
ANTH

Course Number
2525

Department
School of Social Sciences

Course Title
Introductory Archaeology Lab

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Laboratory experience enabling participation in analysis/reporting stages of archaeology projects. Includes methods component.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

Special Approval
Instructor permission

ANTH2720 - Survey of American Folklore - 3 - Credits

Course Overview

Course Prefix
ANTH

Course Number
2720

Department
School of Social Sciences

Cross-Listed Courses
ENGL2720 - Survey of American Folklore, HIST2720 - Survey of American Folklore

Course Title
Survey of American Folklore

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Principal ethnic, regional, and occupational folk groups in America. Relations between folklore and American history, literature, and society. Key genres in American folklore (narrative, art, song, etc.) and their role in American culture.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

ANTH2977 - Cooperative Education - 1 - 3 Credits

Course Overview

Course Prefix
ANTH

Course Number
2977

Department
School of Social Sciences

Course Title
Cooperative Education

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Provides on-the-job experience for students in most aspects of archaeological work.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

Special Approval
Instructor permission

ANTH2988 - Independent Studies - 1 - 3 Credits

Course Overview

Course Prefix
ANTH

Course Number
2988

Department
School of Social Sciences

Course Title
Independent Studies

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Customized study or readings on topics not covered in regular courses.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

Special Approval
Approval of proposal written by student in consultation with instructor

ANTH2999 - Workshop - 1 - 3 Credits

Course Overview

Course Prefix
ANTH

Course Number
2999

Department
School of Social Sciences

Course Title
Workshop

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Designed to meet the changing needs of the student in Anthropology.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

ANTH3090 - Introduction to Shamanism: Shamanic Healing for Personal and Planetary Transformation - 3 - Credits

Course Overview

Course Prefix
ANTH

Course Number
3090

Department
School of Social Sciences

Course Title
Introduction to Shamanism: Shamanic Healing for Personal and Planetary Transformation

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course provides an introduction to methods utilized by shamanic healers as well as background information on indigenous views of relationships between matter, mind, and spirit to help students understand how shamanic healing is used in multiple settings.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

ANTH3110 - North American Indian Cultures (DSS) - 3 - Credits

Course Overview

Course Prefix
ANTH

Course Number
3110

Department
School of Social Sciences

Course Title
North American Indian Cultures (DSS)

General Education Attribute
DSS

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Introduces ethnography of native cultures found within the USA and Canada, documenting their pre-contact adaptations and their interactions with changing national policies leading to today's resurgence of native peoples.

Credit Hours

Credit Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

ANTH3120 - African Healing Systems - 3 - Credits

Course Overview

Course Prefix
ANTH

Course Number
3120

Department
School of Social Sciences

Course Title
African Healing Systems

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Provides an overview of health and illness, healing, and health care systems in cultural contexts among African societies. Offers opportunities to engage problems arising at the intersections of indigenous ethnomedical systems, religious healing traditions, and biomedicine in Africa.

Credit Hours

Credit Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

ANTH3130 - Peoples of Latin America (CI) - 3 - Credits

Course Overview

Course Prefix
ANTH

Course Number
3130

Department
School of Social Sciences

Course Title
Peoples of Latin America (CI)

General Education Attribute
CI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Survey of Latin American cultures, past and present. Emphasis on culture as a dynamic, adaptive system and on contemporary issues in rural and urban Andean South America, Amazonia, and Mesoamerica. Appropriate for both majors and nonmajors.

Credit Hours

Credit Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

ANTH3140 - Anthropology of Sex and Gender (DSS) - 3 - Credits

Course Overview

Course Prefix
ANTH

Course Number
3140

Department
School of Social Sciences

Course Title
Anthropology of Sex and Gender (DSS)

General Education Attribute
DSS

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Increases awareness of sexuality and gender and of feminist perspectives about social problems related to sex and gender that cross-cut cultural boundaries and paradigms.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

ANTH3150 - Applied Anthropology Survey: History, Uses, Methods, and Careers - 3 - Credits

Course Overview

Course Prefix
ANTH

Course Number
3150

Department
School of Social Sciences

Course Title
Applied Anthropology Survey: History, Uses, Methods, and Careers

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Surveys the field of applied anthropology, including discussions of emergence, application, and usefulness. Introduces students to methods and skills used by practitioners, as well as to those used to prepare for careers in applied anthropology.

Credit Hours

Credit Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

ANTH3160 - Anthropology of Religion (DSS) - 3 - Credits

Course Overview

Course Prefix
ANTH

Course Number
3160

Department
School of Social Sciences

Cross-Listed Courses
RELS3160 - Anthropology of Religion (DSS)

Course Title
Anthropology of Religion (DSS)

General Education Attribute
DSS

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Cross-cultural description and theoretical analysis of religion and its functional relationships to human psychology, society, and the natural environment.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

ANTH3165 - Bridging Religious Difference in Theory and Practice: an Introduction to Interfaith Leadership - 3 - Credits

Course Overview

Course Prefix
ANTH

Course Number
3165

Department
School of Social Sciences

Cross-Listed Courses
RELS3165 - Bridging Religious Difference in Theory and Practice: an Introduction to Interfaith Leadership

Course Title
Bridging Religious Difference in Theory and Practice: an Introduction to Interfaith Leadership

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces students to the knowledge, values, and skill-sets needed to navigate religious complexity and diversity in the world today.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

ANTH3180 - Peoples of the Middle East (DSS) - 3 - Credits

Course Overview

Course Prefix
ANTH

Course Number
3180

Department
School of Social Sciences

Course Title
Peoples of the Middle East (DSS)

General Education Attribute
DSS

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course examines Middle Eastern everyday lives and cultures. The course introduces the region, its people and cultures, and everyday life challenges of Middle Easterners through frameworks of community, environment, and well-being.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

ANTH3200 - Perspectives on Race (DSS/CI) - 3 - Credits

Course Overview

Course Prefix
ANTH

Course Number
3200

Department
School of Social Sciences

Course Title
Perspectives on Race (DSS/CI)

General Education Attribute
CI, DSS

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Study of the processes of racial differentiation, the basis of biological differences found among existing human groups, the influence of biology and culture on human variation, and the influence of social context on perceptions of race.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

ANTH3225 - Sex, Evolution, and Health (DSC) - 3 - Credits

Course Overview

Course Prefix
ANTH

Course Number
3225

Department
School of Social Sciences

Course Title
Sex, Evolution, and Health (DSC)

General Education Attribute
DSC

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course employs an evolutionary ecology perspective to explore the family-formation patterns, sexuality, reproduction, parenting, and health of humans throughout the life course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Other Enrollment Recommendations
Background in anthropology and/or biology recommended

ANTH3240 - Anthropology of Disease (DSC) - 3 - Credits

Course Overview

Course Prefix
ANTH

Course Number
3240

Department
School of Social Sciences

Course Title
Anthropology of Disease (DSC)

General Education Attribute
DSC

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students explore the topic of disease in humans and primate relatives from an anthropological perspective. The primary focus of the class is on infectious disease today and in recent human history.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

ANTH3250 - Osteology - 3 - Credits

Course Overview

Course Prefix
ANTH

Course Number
3250

Department
School of Social Sciences

Course Title
Osteology

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Detailed hands-on study of human skeleton, including component of comparative vertebrate skeletal anatomy. Applications to fields of archaeology, forensic science, paleopathology, and zoology. Includes methods component.

Credit Hours

Credit Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

ANTH3260 - Men's Health and Wellness - 3 - Credits

Course Overview

Course Prefix
ANTH

Course Number
3260

Department
School of Social Sciences

Course Title
Men's Health and Wellness

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course explores men's health across the lifespan through biological, evolutionary, cultural, demographic, and economic perspectives. Students critically examine the social determinants of men's health disparities.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Course Learning Objectives

Course Learning Outcomes

1. Understand why and how men's health differs from health of other sexes and genders – unraveling the social, cultural, and economic factors associated with men's health.
2. Explore trends in men's physical and mental health across the lifespan—how anthropologists, demographers, public health practitioners, and economists address them.
3. Analyze men's health and behaviors through the lens of evolutionary theory.
4. Address ways to improve men's health issues in public health.

ANTH3300 - Archaeology in North America (DSS) - 3 - Credits

Course Overview

Course Prefix
ANTH

Course Number
3300

Department
School of Social Sciences

Course Title
Archaeology in North America (DSS)

General Education Attribute
DSS

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Prehistoric and historic archaeology of the North American continent. Explores initial colonization and Native American origins; variability among foraging adaptations; spread of farming; cultural complexity in Midwest, Southwest, and West Coast; Indian-environment relationships; European contact; depopulation; and historic archaeology of Euro-Americans.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

ANTH3310 - Introduction to Museum Studies (CI) - 3 - Credits

Course Overview

Course Prefix
ANTH

Course Number
3310

Department
School of Social Sciences

Cross-Listed Courses
MUSM3310 - Introduction to Museum Studies (CI)

Course Title
Introduction to Museum Studies (CI)

General Education Attribute
CI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Explores all aspects of museum work, from the acquisition and storage of collections to fundraising and educational programs. As part of course requirements, students tour area museums and get first-hand perspectives on the challenges and rewards of museum work from professionals in the field. Course fee for field trip(s) required.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

ANTH3320 - Archaeology of Climate Change (DSS) - 3 - Credits

Course Overview

Course Prefix
ANTH

Course Number
3320

Department
School of Social Sciences

Cross-Listed Courses
ENVS3320 - Archaeology of Climate Change (DSS)

Course Title
Archaeology of Climate Change (DSS)

General Education Attribute
DSS

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course explores human-environment relationships during the past 40,000-plus years, from small-scale societies to ancient civilizations. In this problem-oriented, topical course, emphasis is placed on small group projects, discussion, writing, and oral presentation.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

ANTH3330 - Geophysical Survey Systems for Archaeology - 3 - Credits

Course Overview

Course Prefix
ANTH

Course Number
3330

Department
School of Social Sciences

Course Title
Geophysical Survey Systems for Archaeology

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces undergraduates to the application of geophysical inquiry in archaeological research. No prerequisites or previous experience is required.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

ANTH3340 - Geographic Information Science for Anthropology (QI) - 3 - Credits

Course Overview

Course Prefix
ANTH

Course Number
3340

Department
School of Social Sciences

Course Title
Geographic Information Science for Anthropology (QI)

General Education Attribute
QI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces undergraduate students to the application of Geographic Information Systems in anthropological research. No prior GIS experience is required for enrollment.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

ANTH3350 - Archaeology of Ancient Civilizations (DSS) - 3 - Credits

Course Overview

Course Prefix
ANTH

Course Number
3350

Department
School of Social Sciences

Course Title
Archaeology of Ancient Civilizations (DSS)

General Education Attribute
DSS

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Mesoamerica. In-depth study of the process of their formation and theories of their origins. Emphasis is anthropological and scientific to complement the classical and humanistic.

Credit Hours

Credit Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

ANTH3360 - Utah Archaeology (DSS) - 3 - Credits

Course Overview

Course Prefix
ANTH

Course Number
3360

Department
School of Social Sciences

Course Title
Utah Archaeology (DSS)

General Education Attribute
DSS

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Popular introduction to the archaeology and prehistory of Utah and surrounding regions. Employs approachable texts with some supplementary readings. Features liberal use of photographs and maps to illustrate lectures. Class website provides context, discussion forums, and study aids.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

ANTH3370 - Archaeology of Prehistoric Europe (DSS) - 3 - Credits

Course Overview

Course Prefix
ANTH

Course Number
3370

Department
School of Social Sciences

Course Title
Archaeology of Prehistoric Europe (DSS)

General Education Attribute
DSS

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Explores major issues in European prehistory, from the arrival of the first hominids through the establishment of settled farming and pastoral communities just before the rise of the state societies.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

ANTH3380 - Archaeology Field Trip - 1 - 3 Credits

Course Overview

Course Prefix
ANTH

Course Number
3380

Department
School of Social Sciences

Course Title
Archaeology Field Trip

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Field trip to archaeological points of interest. Trips vary in destination (local to surrounding sates) and duration (1-7 days). Credits vary from 1-3 and are determined by the instructor based on the duration of the trip and the accompanying reading, writing, and any other assignments on a particular trip. Consult with instructor for details.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

Special Approval
Instructor permission

ANTH3390 - Objects of War - 3 - Credits

Course Overview

Course Prefix
ANTH

Course Number
3390

Department
School of Social Sciences

Cross-Listed Courses
HIST3390 - Objects of War

Course Title
Objects of War

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This interdisciplinary course focuses on the history and material culture of modern war, especially the World Wars and the Vietnam War. In addition to studying these conflicts, students will help with outreach to digitally collect wartime objects and object stories.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Course Learning Objectives

Course Learning Outcomes

1. Demonstrate familiarity with the basic facts concerning twentieth-century wars and with some of the representative cultural and material expressions of these wars.
2. Develop capacity to locate appropriate and accurate research materials.
3. Develop interpersonal communication skills with public audience.
4. Master basic skills including opportunities to practice: Distinguishing between historical primary and secondary sources, Effective written presentation of historical questions and sources, Effective oral communication through discussions and presentations, Competence engaging with multimedia and digital forums for communicating evidence.
5. Demonstrate familiarity with the differing experiences and interpretations of the wars of the twentieth-century and some of their legacies.

ANTH3550 - Culture of East Asia (DHA) - 3 - Credits

Course Overview

Course Prefix
ANTH

Course Number
3550

Department
School of Social Sciences

Course Title
Culture of East Asia (DHA)

General Education Attribute
DHA

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students explore the cultures of three East Asian countries: China, Japan and Korea. Students gain an understanding of these cultures through readings, activities, video materials, writing, and discussions. Topics include: customs, traditions, beliefs, food, contemporary issues, and more.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

ANTH3710 - Topics in Folklore (CI) - 3 - Credits

Course Overview

Course Prefix
ANTH

Course Number
3710

Department
School of Social Sciences

Cross-Listed Courses
ENGL3710 - Topics in Folklore (CI), HIST3710 - Topics in Folklore (CI), RELS3710 - Topics in Folklore (CI)

Course Title
Topics in Folklore (CI)

General Education Attribute
CI

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course includes issues, problems, and methodologies in folklore study. The focus and instructor are variable.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

ANTH4100 - The Study of Language - 3 - Credits

Course Overview

Course Prefix
ANTH

Course Number
4100

Department
School of Social Sciences

Cross-Listed Courses
LING4100 - The Study of Language

Course Title
The Study of Language

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Investigates ways in which human languages are structured, how they change, how they reflect the cultures in which they are used, and how they are learned.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

ANTH4115 - Tourism, Culture, and Development - 3 - Credits

Course Overview

Course Prefix
ANTH

Course Number
4115

Department
School of Social Sciences

Course Title
Tourism, Culture, and Development

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course examines the socio-cultural, political, and economic dimensions of global tourism. Students explore theories of authenticity, modernity, identity, social justice, and representation, as well as the uses of tourism for sustainable development and conservation, especially in the Global South.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

ANTH4120 - Anthropology of Childhood (DSS/CI) - 3 - Credits

Course Overview

Course Prefix
ANTH

Course Number
4120

Department
School of Social Sciences

Course Title
Anthropology of Childhood (DSS/CI)

General Education Attribute
CI, DSS

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Focuses on the anthropological study of childhood. Students design and carry out an ethnology (using library and archival sources) on an issue in the study of children. Readings of ethnographic studies of childhood from the U.S. and abroad. Includes methods component.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete at least 1 course in the following course sets:

- Communications Literacy (CL2) Course

ANTH4130 - Introduction to Medical Anthropology (DSS) - 3 - Credits

Course Overview

Course Prefix
ANTH

Course Number
4130

Department
School of Social Sciences

Course Title
Introduction to Medical Anthropology (DSS)

General Education Attribute
DSS

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Introduction to the discipline of Medical Anthropology. Examines the bio-ecological (matter) and socio-cultural aspects of disease/illness in human populations and examines “spiritual” dimensions of health in cross-cultural context. Includes methods component for anthropology majors and serves as a Liberal Arts cluster capstone course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

ANTH4150 - Cognition, Stress, and Health - 3 - Credits

Course Overview

Course Prefix
ANTH

Course Number
4150

Department
School of Social Sciences

Course Title
Cognition, Stress, and Health

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course examines how “cognition,” or how we view and think about ourselves and the world around us, shapes well-being. Students explore how culture, cognition, behavior, and health are inextricably intertwined.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

ANTH4160 - Evolution of Religion: The Cognitive Science of Religion and Faith - 3 - Credits

Course Overview

Course Prefix
ANTH

Course Number
4160

Department
School of Social Sciences

Course Title
Evolution of Religion: The Cognitive Science of Religion and Faith

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course examines "religion" through the framework of evolutionary theory. Students inquire why religious belief is seemingly unique to our species, the possible reasons for its development, and how religion continues to shape psychological and social development.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

ANTH4180 - Ethnography of Virtual Cultures - 3 - Credits

Course Overview

Course Prefix
ANTH

Course Number
4180

Department
School of Social Sciences

Course Title
Ethnography of Virtual Cultures

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course examines the emergence, construction, and actions of online cultures. Students investigate how identity is constructed, the role of gender and sexuality, and how global orders and nationalities are simultaneously challenged and reproduced within virtual spaces and places.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

ANTH4190 - Anthropology of Narratives, Stories, and Fiction - 3 - Credits

Course Overview

Course Prefix
ANTH

Course Number
4190

Department
School of Social Sciences

Course Title
Anthropology of Narratives, Stories, and Fiction

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This class explores the relationship of narrative traditions and the social and cultural contexts of their creation and consumption. This course considers why stories are a powerful means of critiquing social institutions and cultural constructions.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Course Learning Objectives

Course Learning Outcomes

1. Familiarize students with the monomyth and other theories of narrative interpretation.
2. Teach students to read socio-cultural meanings from narratives.

3. Explore the ways literary theory might usefully inform cultural anthropology (and vice versa).

ANTH4200 - The Anthropology of War - 3 - Credits

Course Overview

Course Prefix
ANTH

Course Number
4200

Department
School of Social Sciences

Course Title
The Anthropology of War

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course takes a broad anthropological perspective on warfare. The purpose of the course is to explore the history of human warfare in its entirety and to seek answers to the question “Why War?”

Credit Hours

Credit Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

ANTH4240 - Primates of the World - 3 - Credits

Course Overview

Course Prefix
ANTH

Course Number
4240

Department
School of Social Sciences

Course Title
Primates of the World

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces students to primates, the closest living relatives to humans. Students explore how primate diversity can increase the understanding of human evolution and behavior by comparing the ecology, behavior, anatomy, and conservation of each primate group.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

ANTH4250 - Behavioral Ecology - 3 - Credits

Course Overview

Course Prefix
ANTH

Course Number
4250

Department
School of Social Sciences

Course Title
Behavioral Ecology

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Behavioral ecology is the study of adaptive behaviors in an ecological context. This course introduces students to the field, examining human and primate subsistence and foraging patterns, social behaviors, cultures, reproduction, and life histories using evolutionary and ecological perspectives.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Other Enrollment Recommendations
Background in anthropology and/or biology highly recommended

ANTH4330 - Archaeology of Latin America (DSS) - 3 - Credits

Course Overview

Course Prefix
ANTH

Course Number
4330

Department
School of Social Sciences

Course Title
Archaeology of Latin America (DSS)

General Education Attribute
DSS

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces the archaeology of Mesoamerica, Central America, and South America. Students study the rich cultures and environments of the Latin American past with specific focus on Mexico, the Yucatán, the Andes, and jungle sites throughout the region.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

ANTH4650 - Utah's Public Lands: Past, Present, Future (DSS/HASS) - 3 - Credits

Course Overview

Course Prefix
ANTH

Course Number
4650

Department
School of Social Sciences

Course Title
Utah's Public Lands: Past, Present, Future (DSS/HASS)

General Education Attribute
HASS, DSS

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course teaches students about the history and debates surrounding the creation, management, and activism involving Utah's public lands.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

ANTH4800 - Topics in Anthropology - 1 - 3 Credits

Course Overview

Course Prefix
ANTH

Course Number
4800

Department
School of Social Sciences

Course Title
Topics in Anthropology

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Focuses on special topics in anthropology. Topics and course format vary.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

ANTH4980 - History and Theories of Anthropology - 3 - Credits

Course Overview

Course Prefix
ANTH

Course Number
4980

Department
School of Social Sciences

Course Title
History and Theories of Anthropology

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Explores the epistemological foundations of anthropology. Traces the history of anthropology, including the main currents of theoretical thought, the paradigm shifts that revitalize the discipline, and the major scholars that illustrate each period. This is an advanced course that benefits from some anthropology and familiarity with the intellectual traditions of the Western World.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ANTH1010 - Cultural Anthropology (BSS)

Required

Complete at least one other upper-division course in cultural anthropology.

ANTH4990 - Contemporary Issues in Anthropology (CI) - 3 - Credits

Course Overview

Course Prefix
ANTH

Course Number
4990

Department
School of Social Sciences

Course Title
Contemporary Issues in Anthropology (CI)

General Education Attribute
CI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Capstone course in anthropological theory and method, required for all majors.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Other Enrollment Recommendations

ANTH4980 HIST AND THEORY OF ANTH

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ANTH1010 - Cultural Anthropology (BSS)

ANTH5110 - Southwest Indian Cultures, Past and Present (DSS) - 3 - Credits

Course Overview

Course Prefix
ANTH

Course Number
5110

Department
School of Social Sciences

Dual-Listed Courses
ANTH6110 - Southwest Indian Cultures, Past and Present

Course Title
Southwest Indian Cultures, Past and Present (DSS)

General Education Attribute
DSS

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Reviews past and present Indian cultures of greater southwest region. Examines the prehistoric Anasazi, the Pueblos, the canyon and desert peoples, the Utes, and the Navajos. Interprets these cultures in ecological, historic, and political contexts. Additional coursework is required for those enrolled in the graduate-level course

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

ANTH5115 - Applied Anthropology/ Ethnographic Research Lab - 1 - 3 Credits

Course Overview

Course Prefix
ANTH

Course Number
5115

Department
School of Social Sciences

Dual-Listed Courses
ANTH6115 - Applied Anthropology/Ethnographic Research Lab

Course Title
Applied Anthropology/Ethnographic Research Lab

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This lab course provides an opportunity for students to gain experience analyzing qualitative data and generating reports that are associated with ethnographic/ applied anthropology field research as well as related tasks associated with ethnographic/applied anthropology research.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

ANTH5130 - Ethnographic Field School - 3 - 6 Credits

Course Overview

Course Prefix
ANTH

Course Number
5130

Department
School of Social Sciences

Cross-Listed Courses
SOC5130 - Ethnographic Field School

Dual-Listed Courses
ANTH6130 - Ethnographic Field School

Course Title
Ethnographic Field School

Grade Mode
Standard Letter

Repeat Status
NR

Course Description

Provides practical training in use of ethnographic field methods, qualitative data analysis, and ethnographic report-writing. Combines classroom instruction with supervised off-campus field research, while living in a cross-cultural setting. Fulfills program methods requirement. Application and additional fee required.

Credit Hours

Credit Hours Min:
3

Credit Hours Max:
6

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
3

Contact Hours Max:
6

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
3

Billing Hours Max:
6

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
3

Lecture Hours Max:
6

Lecture Hours Operator:
TO

ANTH5140 - Anthropology of Global Health (CI) - 3 - Credits

Course Overview

Course Prefix
ANTH

Course Number
5140

Department
School of Social Sciences

Dual-Listed Courses
ANTH6140 - Anthropology of Global Health

Course Title
Anthropology of Global Health (CI)

General Education Attribute
CI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description

This course provides an overview of anthropology of global health and anthropology in global health. The course offers students the opportunity to understand health problems in global perspective, public health initiatives in "development" contexts, and local responses to international health issues. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

ANTH5170 - Ethnographic Methods in Anthropology - 3 - Credits

Course Overview

Course Prefix
ANTH

Course Number
5170

Department
School of Social Sciences

Dual-Listed Courses
ANTH6170 - Ethnographic Methods in Anthropology

Course Title
Ethnographic Methods in Anthropology

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Course familiarizes students with methods of anthropological field research including data collection, recording, analysis and write-up giving students the opportunity for conducting field research in a controlled, supervised setting. Fulfills methods requirement for anthropology. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

ANTH5190 - Applied Anthropology Practicum - 1 - 5 Credits

Course Overview

Course Prefix
ANTH

Course Number
5190

Department
School of Social Sciences

Dual-Listed Courses
ANTH6190 - Applied Anthropology Practicum

Course Title
Applied Anthropology Practicum

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Seminar with supervised projects in applied anthropology for advanced students. Integrates academic knowledge and field technique. Includes methods component.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
5

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
5

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
5

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
5

Lecture Hours Operator:
TO

Special Approval
Instructor permission

ANTH5195 - Interfaith Leadership Practicum Experience - 3 - Credits

Course Overview

Course Prefix
ANTH

Course Number
5195

Department
School of Social Sciences

Cross-Listed Courses
RELS5195 - Interfaith Leadership Practicum Experience

Course Title
Interfaith Leadership Practicum Experience

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This is a semester-length, supervised, practicum/capstone experience for the Interfaith Leadership Certificate. Students apply classroom-based methods and theories in interfaith leadership to real-world problems.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ANTH1090 - Introduction to Interfaith Leadership (BHU)
  OR RELS1090 - Introduction to Interfaith Leadership (BHU)
- ANTH3160 - Anthropology of Religion (DSS)
  OR RELS1010 - Introduction to Religious Studies (BHU)

ANTH5200 - Anthropological Perspectives on Conservation - 3 - Credits

Course Overview

Course Prefix
ANTH

Course Number
5200

Department
School of Social Sciences

Cross-Listed Courses
ENVS5200 - Anthropological Perspectives on Conservation

Dual-Listed Courses
ANTH6200 - Anthropological Perspectives on Conservation

Course Title
Anthropological Perspectives on Conservation

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course examines human impact on contemporary environments and the transforming capabilities of anthropogenic activity on the world at large. It also examines anthropological perspectives and methods used to address the preservation of the natural environment and similar challenges. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

ANTH5210 - Women's Reproductive Health Research - 3 - Credits

Course Overview

Course Prefix
ANTH

Course Number
5210

Department
School of Social Sciences

Course Title
Women's Reproductive Health Research

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course prepares students to address female reproductive health issues in a global context. The students learn the complexity of female pubertal timing, pregnancy and childbirth, reproductive aging and menopause, and reproductive health issues across the lifespan.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Other Enrollment Recommendations

ANTH3225 SEX, EVOLUTION, HEALTH (DSC)

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ANTH1020 - Biological Anthropology (BLS)

ANTH5250 - Problems in Bioarchaeology (QI) - 3 - Credits

Course Overview

Course Prefix
ANTH

Course Number
5250

Department
School of Social Sciences

Dual-Listed Courses
ANTH6250 - Problems in Bioarchaeology

Course Title
Problems in Bioarchaeology (QI)

General Education Attribute
QI

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course examines various approaches to the study of human biocultural adaptation through the analysis of human remains from archaeological sites. Includes methods component. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ANY of the following Courses:

- ANTH3250 - Osteology
  OR STAT1040 - Introduction to Statistics (QL)
  OR STAT1045 - Introduction to Statistics with Elements with Algebra (QL)
  OR STAT1080 - Foundations of Data Science (QL)

ANTH5260 - Impact of Environmental Factors on Health - 3 - Credits

Course Overview

Course Prefix
ANTH

Course Number
5260

Department
School of Social Sciences

Course Title
Impact of Environmental Factors on Health

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course explores how environmental factors influence human health, especially in communities experiencing poverty, industrial exposure, and vulnerable to climate change. Students critically examine strategies to mitigate health disparities within the context of environmental variabilities.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Course Learning Objectives

Course Learning Outcomes

1. Understand how environmental factors influence health throughout the life course.
2. Explore the global trends of the impact of environmental factors on maternal and child, men, and women's health.
3. Address ways to improve health issues related to environmental chemicals exposure in public health.

ANTH5300 - Archaeology Field School - 6 - Credits

Course Overview

Course Prefix
ANTH

Course Number
5300

Department
School of Social Sciences

Dual-Listed Courses
ANTH6300 - Archaeology Field School

Course Title
Archaeology Field School

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Internship on archaeological field project, including survey, excavation, recording, mapping, and scientific conduct of archaeological problem solving. Application process may begin as early as December. Additional field support fee required.

Credit Hours

Credit Hours Min:
6

Contact Hours

Contact Hours Min:
6

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
6

Lecture Hours

Lecture Hours Min:
6

Special Approval

Instructor Permission

Simple Requisites

Prerequisite

Type
Completion Requirement

Required

Complete ALL of the following Courses:

- ANTH1030 - World Archaeology (BSS)

ANTH5320 - Zooarchaeology - 3 - Credits

Course Overview

Course Prefix
ANTH

Course Number
5320

Department
School of Social Sciences

Dual-Listed Courses
ANTH6320 - Zooarchaeology

Course Title
Zooarchaeology

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Advanced undergraduate and graduate course on laboratory methods in zooarchaeology. Structured to address anthropologically significant questions that can be investigated through zooarchaeological analysis, and to provide students with the basic analytical skills to address these questions. Graduate students will be required to conduct a more extensive research project and write-up.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

ANTH5330 - Geoarchaeology - 3 - Credits

Course Overview

Course Prefix
ANTH

Course Number
5330

Department
School of Social Sciences

Dual-Listed Courses
ANTH6330 - Geoarchaeology

Course Title
Geoarchaeology

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course explores the ways the earth sciences are employed in archaeological analysis. Topics include: sedimentology, pedology, geomorphology, paleoclimatology, geophysical methods of dating archaeological materials, artifact and materials sourcing, and modeling environment-human interaction. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Fulfill ANY of the following requirements:

Required

Complete ALL of the following Courses:

- ANTH1030 - World Archaeology (BSS)
  AND ANTH2030 - Principles of Archaeology (BSS)

OR

OR

Required

Complete ALL of the following Courses:

- GEO1110 - Physical Geology (BPS)
  AND GEO2200 - The Earth Through Time

ANTH5340 - Archaeology of the Desert West - 3 - Credits

Course Overview

Course Prefix
ANTH

Course Number
5340

Department
School of Social Sciences

Dual-Listed Courses
ANTH6340 - Archaeology of the Desert West

Course Title
Archaeology of the Desert West

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This class provides students with a general historical, methodological, and theoretical overview of archaeological research in the American Great Basin and Colorado Plateau including a focus on both hunting and gathering and agricultural societies. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ANTH1030 - World Archaeology (BSS)
  AND ANTH2030 - Principles of Archaeology (BSS)

ANTH5420 - Lithic Analysis - 1 - 3 Credits

Course Overview

Course Prefix
ANTH

Course Number
5420

Department
School of Social Sciences

Dual-Listed Courses
ANTH6420 - Lithic Analysis

Course Title
Lithic Analysis

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Students learn the fundamental methodological and theoretical areas of chipped stone technological organization--one of the principal areas of applied archaeological research. This course has a strong hands-on component and provides students with fundamental skills for the archaeological workplace. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ANTH2030 - Principles of Archaeology (BSS)

ANTH5650 - Developing Societies (DSS) - 3 - Credits

Course Overview

Course Prefix
ANTH

Course Number
5650

Department
School of Social Sciences

Dual-Listed Courses
ANTH6650 - Developing Societies

Course Title
Developing Societies (DSS)

General Education Attribute
DSS

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course reviews how sociology, cultural geography, and economic anthropology analyze processes of globalization in postcolonial societies. Students examine changing livelihoods, patterns of spatial incorporation and societal evolution, and emergent policy problems associated with rapid socioeconomic change.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

ANTH5700 - Folk Narrative - 3 - Credits

Course Overview

Course Prefix
ANTH

Course Number
5700

Department
School of Social Sciences

Cross-Listed Courses
ENGL5700 - Folk Narrative, HIST5700 - Folk Narrative

Course Title
Folk Narrative

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Forms and functions of folk narrative genres: myth, legend, folktale, memorate, and ballad.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ANY of the following Course Sets:

- Communications Literacy (CL2) Course

Required

Completion of a 3000-level course in ANTH, ENGL, or HIST

ANTH5800 - Museum Development - 1 - 3 Credits

Course Overview

Course Prefix
ANTH

Course Number
5800

Department
School of Social Sciences

Dual-Listed Courses
ANTH6800 - Museum Development

Course Title
Museum Development

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
In this apprenticeship in the USU Museum of Anthropology, students learn to operate a small museum, collaborating closely with its director and staff. Projects can include curation, exhibit development, public outreach, etc. Time, credit, and Individual work approved by instructor.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

Special Approval
Instructor permission

ANTH5820 - Museum Collections Handling - 3 - Credits

Course Overview

Course Prefix
ANTH

Course Number
5820

Department
School of Social Sciences

Dual-Listed Courses
ANTH6820 - Museum Collections Handling

Course Title
Museum Collections Handling

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course combines biological, environmental, and cultural aspects of museum studies to introduce students to handling objects within diverse collections. Students work with material collections from across campus with hands-on labs to build their museum collections handling repertoire. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

ANTH5900 - Independent Studies - 1 - 3 Credits

Course Overview

Course Prefix
ANTH

Course Number
5900

Department
School of Social Sciences

Course Title
Independent Studies

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course provides customized study or readings for undergraduate students on topics not covered in regular classes.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

Special Approval
Instructor permission

ANTH5980 - Senior Project - 1 - Credits

Course Overview

Course Prefix
ANTH

Course Number
5980

Department
School of Social Sciences

Course Title
Senior Project

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Develops advanced research and writing skills in a specialty area, and results in a research project/report. Completed in consultation with faculty instructor and subject to approval.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

ANTH6110 - Southwest Indian Cultures, Past and Present - 3 - Credits

Course Overview

Course Prefix
ANTH

Course Number
6110

Department
School of Social Sciences

Dual-Listed Courses
ANTH5110 - Southwest Indian Cultures, Past and Present (DSS)

Course Title
Southwest Indian Cultures, Past and Present

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Reviews past and present Indian cultures of greater southwest region. Examines the prehistoric Anasazi, the Pueblos, the canyon and desert peoples, the Utes, and the Navajos. Interprets these cultures in ecological, historic, and political contexts. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

ANTH6115 - Applied Anthropology/ Ethnographic Research Lab - 1 - 3 Credits

Course Overview

Course Prefix
ANTH

Course Number
6115

Department
School of Social Sciences

Dual-Listed Courses
ANTH5115 - Applied Anthropology/Ethnographic Research Lab

Course Title
Applied Anthropology/Ethnographic Research Lab

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This lab course provides an opportunity for students to gain experience analyzing qualitative data and generating reports that are associated with ethnographic/ applied anthropology field research as well as related tasks associated with ethnographic/applied anthropology research.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

No Requirements

ANTH6130 - Ethnographic Field School - 3 - 6 Credits

Course Overview

Course Prefix
ANTH

Course Number
6130

Department
School of Social Sciences

Cross-Listed Courses
SOC6130 - Ethnographic Field School

Dual-Listed Courses
ANTH5130 - Ethnographic Field School

Course Title
Ethnographic Field School

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Provides practical training in use of ethnographic field methods, qualitative data analysis, and ethnographic report-writing. Combines classroom instruction with supervised off-campus field research, while living in a cross-cultural setting. Fulfills program methods requirement. Application and additional fee required.

Credit Hours

Credit Hours Min:
3

Credit Hours Max:
6

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
3

Contact Hours Max:
6

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
3

Billing Hours Max:
6

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
3

Lecture Hours Max:
6

Lecture Hours Operator:
TO

No Requirements

ANTH6140 - Anthropology of Global Health - 3 - Credits

Course Overview

Course Prefix
ANTH

Course Number
6140

Department
School of Social Sciences

Dual-Listed Courses
ANTH5140 - Anthropology of Global Health (CI)

Course Title
Anthropology of Global Health

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides an overview of anthropology of global health and anthropology in global health. The course offers students the opportunity to understand health problems in global perspective, public health initiatives in "development" contexts, and local responses to international health issues. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

ANTH6170 - Ethnographic Methods in Anthropology - 3 - Credits

Course Overview

Course Prefix
ANTH

Course Number
6170

Department
School of Social Sciences

Dual-Listed Courses
ANTH5170 - Ethnographic Methods in Anthropology

Course Title
Ethnographic Methods in Anthropology

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Course familiarizes students with methods of anthropological field research including data collection, recording, analysis and write-up giving students the opportunity for conducting field research in a controlled, supervised setting. Fulfills methods requirement for anthropology. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

ANTH6190 - Applied Anthropology Practicum - 1 - 5 Credits

Course Overview

Course Prefix
ANTH

Course Number
6190

Department
School of Social Sciences

Dual-Listed Courses
ANTH5190 - Applied Anthropology Practicum

Course Title
Applied Anthropology Practicum

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Seminar with supervised projects in applied anthropology for advanced students. Integrates academic knowledge and field technique. Includes methods component.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
5

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
5

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
5

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
5

Lecture Hours Operator:
TO

Special Approval
Instructor permission

No Requirements

ANTH6200 - Anthropological Perspectives on Conservation - 3 - Credits

Course Overview

Course Prefix
ANTH

Course Number
6200

Department
School of Social Sciences

Dual-Listed Courses
ANTH5200 - Anthropological Perspectives on Conservation

Course Title
Anthropological Perspectives on Conservation

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course examines human impact on contemporary environments and the transforming capabilities of anthropogenic activity on the world at large. It also examines anthropological perspectives and methods used to address the preservation of the natural environment and similar challenges. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

ANTH6250 - Problems in Bioarchaeology - 3 - Credits

Course Overview

Course Prefix
ANTH

Course Number
6250

Department
School of Social Sciences

Dual-Listed Courses
ANTH5250 - Problems in Bioarchaeology (QI)

Course Title
Problems in Bioarchaeology

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course examines various approaches to the study of human biocultural adaptation through the analysis of human remains from archaeological sites. Includes methods component. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

ANTH6300 - Archaeology Field School - 6 - Credits

Course Overview

Course Prefix
ANTH

Course Number
6300

Department
School of Social Sciences

Dual-Listed Courses
ANTH5300 - Archaeology Field School

Course Title
Archaeology Field School

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Internship on archaeological field project, including survey, excavation, recording, mapping, and scientific conduct of archaeological problem solving. Application process may begin as early as December. Additional field support fee required.

Credit Hours

Credit Hours
Min:
6

Contact Hours

Contact Hours
Min:
6

Billing Hours

Billing Hours
Min:
6

Lecture Hours

Lecture Hours
Min:
6

ANTH6320 - Zooarchaeology - 3 - Credits

Course Overview

Course Prefix
ANTH

Course Number
6320

Department
School of Social Sciences

Dual-Listed Courses
ANTH5320 - Zooarchaeology

Course Title
Zooarchaeology

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Advanced undergraduate and graduate course on laboratory methods in zooarchaeology. Structured to address anthropologically significant questions that can be investigated through zooarchaeological analysis, and to provide students with the basic analytical skills to address these questions. Graduate students will be required to conduct a more extensive research project and write-up.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

ANTH6330 - Geoarchaeology - 3 - Credits

Course Overview

Course Prefix
ANTH

Course Number
6330

Department
School of Social Sciences

Dual-Listed Courses
ANTH5330 - Geoarchaeology

Course Title
Geoarchaeology

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course explores the ways the earth sciences are employed in archaeological analysis. Topics include: sedimentology, pedology, geomorphology, paleoclimatology, geophysical methods of dating archaeological materials, artifact and materials sourcing, and modeling environment-human interaction. Additional coursework is required for those enrolled in the graduate-level course..

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

ANTH6340 - Archaeology of the Desert West - 3 - Credits

Course Overview

Course Prefix
ANTH

Course Number
6340

Department
School of Social Sciences

Dual-Listed Courses
ANTH5340 - Archaeology of the Desert West

Course Title
Archaeology of the Desert West

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This class provides students with a general historical, methodological, and theoretical overview of archaeological research in the American Great Basin and Colorado Plateau including a focus on both hunting and gathering and agricultural societies. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

ANTH6350 - Archaeological Theory - 3 - Credits

Course Overview

Course Prefix
ANTH

Course Number
6350

Department
School of Social Sciences

Course Title
Archaeological Theory

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Survey and critique of archaeological theory from the 19th century to current issues in the 21st century. Emphasizes shifting paradigms and research strategies. As a seminar course, includes reading, discussion, and critical writing.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

ANTH6360 - Research Design and Quantitative Methods in Archaeology - 3 - Credits

Course Overview

Course Prefix
ANTH

Course Number
6360

Department
School of Social Sciences

Course Title
Research Design and Quantitative Methods in Archaeology

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Develops skills required for conducting original research at the professional level. Focuses on linking research with relevant theoretical, empirical, and methodological questions; developing statistically sound sampling strategies; using statistics to interpret data; and deriving conclusions from data.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Registration Restrictions
Graduate standing

No Requirements

ANTH6370 - GIS in Archaeology - 3 - Credits

Course Overview

Course Prefix
ANTH

Course Number
6370

Department
School of Social Sciences

Course Title
GIS in Archaeology

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course presents background and develops skills necessary to use geographic information systems (GIS) for recording and maintaining archaeological data. It provides an overview on how to use GIS to analyze and interpret these types of data.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

ANTH6390 - Cultural Resources Management Policy - 3 - Credits

Course Overview

Course Prefix
ANTH

Course Number
6390

Department
School of Social Sciences

Course Title
Cultural Resources Management Policy

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course reviews the history of Cultural Resource Management (CRM) legislation, addressing how laws are interpreted and implemented by contract archaeologists working mainly in the United States. The course focuses on how to run modern CRM projects within this legislative framework.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

ANTH6400 - Collections Management - 1 - 3 Credits

Course Overview

Course Prefix
ANTH

Course Number
6400

Department
School of Social Sciences

Course Title
Collections Management

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Teaches techniques for accessioning, curating, storing, and managing anthropological collections. Emphasizes computer software commonly used to track ethnographic and archaeological assemblages of objects.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

No Requirements

ANTH6410 - Writing for Archaeologists - 3 - Credits

Course Overview

Course Prefix
ANTH

Course Number
6410

Department
School of Social Sciences

Course Title
Writing for Archaeologists

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Teaches future archaeologists to communicate effectively in the various genres of the discipline demanding writing proficiency. Emphasizes professional writing, including research papers, grant proposals, bids for archaeological work, curriculum vitae, and cover letters.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

ANTH6420 - Lithic Analysis - 1 - 3 Credits

Course Overview

Course Prefix
ANTH

Course Number
6420

Department
School of Social Sciences

Dual-Listed Courses
ANTH5420 - Lithic Analysis

Course Title
Lithic Analysis

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Students learn the fundamental methodological and theoretical areas of chipped stone technological organization--one of the principal areas of applied archaeological research. This course has a strong hands-on component and provides students with fundamental skills for the archaeological workplace. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

ANTH6430 - Archaeometry - 3 - Credits

Course Overview

Course Prefix
ANTH

Course Number
6430

Department
School of Social Sciences

Course Title
Archaeometry

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course is a graduate seminar that focuses on advanced instrumental analysis of archaeological materials. The semester course is divided into two sections that include techniques in archaeological chronology and archaeological chemistry. Instruction includes lecture, laboratory exercises, and critical review of appropriate literature in technique development and applicaitons to the regional archaeological record.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

ANTH6460 - Engaging Communities in Archaeology - 3 - Credits

Course Overview

Course Prefix
ANTH

Course Number
6460

Department
School of Social Sciences

Course Title
Engaging Communities in Archaeology

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course builds effective skills for engaging diverse communities in ways that enhances the social value of archaeology. This class adapts the University of Kansas Framework for Collaborative Community Action on Health for application to archaeology.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Students will learn how to effectively create and maintain community partnerships.

2. Students will gain experience in understanding best practices for assessing community values and needs related to cultural resource management.

3. Students will develop communication skills for promoting public interest in archaeology and cultural resource management.

4. Students will gain an appreciation for the role of advocacy in cultural resource management as a tool for collective action and social change.

5. Students will gain technical competence in evaluating program effectiveness.

ANTH6650 - Developing Societies - 3 - Credits

Course Overview

Course Prefix
ANTH

Course Number
6650

Department
School of Social Sciences

Dual-Listed Courses
ANTH5650 - Developing Societies (DSS)

Course Title
Developing Societies

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Reviews how sociology, cultural geography, and economic anthropology analyze processes of globalization in postcolonial societies. Examines changing livelihoods, patterns of spatial incorporation and societal evolution, and emergent policy problems associated with rapid socioeconomic change.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

ANTH6700 - Archaeology Internship - 2 - 3 Credits

Course Overview

Course Prefix
ANTH

Course Number
6700

Department
School of Social Sciences

Course Title
Archaeology Internship

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course provides an internship opportunity with governmental agencies, tribal offices, museums, or private archaeology firms. Students locate and establish an internship in coordination with the Anthropology graduate program director(s) and the chair of their supervisory committee.

Credit Hours

Credit Hours Min:
2

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
2

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
2

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
2

Lecture Hours Max:
3

Lecture Hours Operator:
TO

ANTH6800 - Museum Development - 1 - 3 Credits

Course Overview

Course Prefix
ANTH

Course Number
6800

Department
School of Social Sciences

Dual-Listed Courses
ANTH5800 - Museum Development

Course Title
Museum Development

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
In this apprenticeship in the USU Museum of Anthropology, students learn to operate a small museum, collaborating closely with its director and staff. Projects can include curation, exhibit development, public outreach, etc. Time, credit, and Individual work approved by instructor. Additional coursework may be required for graduate students.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

Special Approval

Instructor permission

No Requirements

ANTH6810 - Museum Collections Law, Policy, and Best Practices - 3 - Credits

Course Overview

Course Prefix
ANTH

Course Number
6810

Department
School of Social Sciences

Course Title
Museum Collections Law, Policy, and Best Practices

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
The course provides students with a foundational knowledge of museum administration by examining legal frameworks that govern museum collections, institutional policies, and best practices in twenty-first-century museum practice. The course focuses on anthropological, paleontological, and historical museum collections.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Understand the fundamental principles of museum administration.

2. Define the role and responsibilities of museum administrators.

3. Identify key stakeholders in museum administration.

4. Explore the historical development of museum administration.

5. Grasp the principles of museum governance and ethical considerations.

6. Examine the ethical responsibilities of museum administrators.

7. Understand the importance of transparency and accountability in museum

governance.

8. Analyze case studies involving ethical dilemmas in museum administration.

9. Explore legal frameworks and regulations governing museums.

10. Identify and understand key museum legislation and regulations.

11. Examine the impact of legal requirements on museum operations.

12. Develop strategies for compliance and risk management.

13. Develop financial literacy specific to museum administration.

14. Understand budgeting and financial planning for museums.

15. Analyze funding sources, including grants, sponsorships, and donations.

16. Explore strategies for revenue generation and sustainability.

17. Evaluate the economic impact of museums on communities.

18. Examine case studies on the economic contributions of museums.

19. Understand the role of museums in cultural tourism.

20. Develop strategies for community engagement and partnerships.

21. Gain insights into global museum practices and collaboration.

22. Explore international museum trends and innovations.

23. Understand the challenges and opportunities of cross-cultural collaboration.

24. Analyze case studies of successful international museum partnerships.

25. Discuss cultural heritage preservation on a global scale.

26. Examine UNESCO guidelines and initiatives for cultural heritage preservation.

27. Understand the role of museums in safeguarding cultural heritage.

28. Explore challenges related to repatriation and restitution.

ANTH6820 - Museum Collections Handling - 3 - Credits

Course Overview

Course Prefix
ANTH

Course Number
6820

Department
School of Social Sciences

Dual-Listed Courses
ANTH5820 - Museum Collections Handling

Course Title
Museum Collections Handling

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course combines biological, environmental, and cultural aspects of museum studies to introduce students to handling objects within diverse collections. Students work with material collections from across campus with hands-on labs to build their museum collections handling repertoire. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

ANTH6900 - Independent Studies - 1 - 3 Credits

Course Overview

Course Prefix
ANTH

Course Number
6900

Department
School of Social Sciences

Course Title
Independent Studies

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Customized study or readings for graduate students on topics not covered in regular courses.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

Special Approval

Approval of proposal written by student in consultation with instructor

No Requirements

ANTH6950 - Archaeology Special Topics/ Seminar - 1 - 3 Credits

Course Overview

Course Prefix
ANTH

Course Number
6950

Department
School of Social Sciences

Course Title
Archaeology Special Topics/Seminar

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This is a special topics course or seminar for graduate students in the Master of Science in Anthropology program.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

No Requirements

ANTH6970 - Thesis Research - 1 - 12 Credits

Course Overview

Course Prefix
ANTH

Course Number
6970

Department
School of Social Sciences

Course Title
Thesis Research

Grade Mode
Temporary Pass/Fail

Repeat Status
RP

Course Description
This course is designed for students preparing a master's degree thesis.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
12

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
12

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
12

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
12

Lecture Hours Operator:
TO

No Requirements

APEC1400 - Introduction to Agriculture Policy (BSS) - 3 - Credits

Course Overview

Course Prefix
APEC

Course Number
1400

Department
Applied Economics

Course Title
Introduction to Agriculture Policy (BSS)

General Education Attribute
BSS

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students are introduced to agriculture policy, helping them understand its history and how historical policies have shaped current issues facing society. It also addresses current issues, often controversial, providing the background necessary to understand complex agriculture issues facing society today.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

APEC1600 - Natural Resources and American Economic Institutions (BAI) - 3 - Credits

Course Overview

Course Prefix
APEC

Course Number
1600

Department
Applied Economics

Course Title
Natural Resources and American Economic Institutions (BAI)

General Education Attribute
BAI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description

This course explores how the American economy and quality of life is linked to the development of the nation's resources. Focus is on the interaction of individual citizens, business, and government institutions from the Colonial Era to present. Topics explore the role of democracy, property rights, free markets, government, agencies, and financial institutions in the development of the United States.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

APEC2010 - Introduction to Microeconomics (BSS) - 3 - Credits

Course Overview

Course Prefix
APEC

Course Number
2010

Department
Applied Economics

Course Title
Introduction to Microeconomics (BSS)

General Education Attribute
BSS

Grade Mode
Standard Letter

Repeat Status
NR

Course Description

Students learn marketplace economics from both the consumer and producer/ business perspectives. They study the development and application of microeconomic principles to demonstrate the role and limitations of competitive markets in motivating socially-efficient consumer, business, and public sector choices.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- APEC1600 - Natural Resources and American Economic Institutions (BAI)
  OR ECON2020 - Introduction to Macroeconomics (BAI)

may be taken concurrently

APEC2120 - Small Firm Accounting Basics - 3 - Credits

Course Overview

Course Prefix
APEC

Course Number
2120

Department
Applied Economics

Course Title
Small Firm Accounting Basics

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course involves the application of basic accounting principles to agriculture and small firms as used in the preparation and analysis of financial statements, in order to appropriately analyze the financial performance and position of the business.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

APEC2310 - Small Firm Management - 3 - Credits

Course Overview

Course Prefix
APEC

Course Number
2310

Department
Applied Economics

Course Title
Small Firm Management

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides an introduction to the economic essentials of operating a small business with emphasis on College of Agriculture and Applied Sciences majors. Concepts of planning, organizing, marketing, managing, financing, and operating small entrepreneurial businesses are covered.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- APEC2120 - Small Firm Accounting Basics

APEC2500 - Commodity Futures and Options Trading and Analysis - 3 - Credits

Course Overview

Course Prefix
APEC

Course Number
2500

Department
Applied Economics

Course Title
Commodity Futures and Options Trading and Analysis

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces commodity futures and options trading. Students learn about fundamental and technical analysis of markets and how to hedge to offset commodity price risk. Speculative trading strategies are also introduced.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

APEC2830 - Agribusiness Sales and Marketing - 3 - Credits

Course Overview

Course Prefix
APEC

Course Number
2830

Department
Applied Economics

Course Title
Agribusiness Sales and Marketing

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers the basic principles of agribusiness sales and marketing. After completing a series of self-assessments relating to sales, learning, and personality preferences, students learn to complete each major step of the sales process.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

APEC2900 - Agricultural and Natural Resource Law - 3 - Credits

Course Overview

Course Prefix
APEC

Course Number
2900

Department
Applied Economics

Course Title
Agricultural and Natural Resource Law

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course focuses on key legal issues of American agricultural and natural resource law, including numerous applicable exceptions within the legal system. It also covers key topics such as the Endangered Species Act, water law, and federal land issues.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

APEC3010 - Agricultural Economics (DSS) - 3 - Credits

Course Overview

Course Prefix
APEC

Course Number
3010

Department
Applied Economics

Course Title
Agricultural Economics (DSS)

General Education Attribute
DSS

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Introduction to economic principles as they apply to the food and agricultural industry. Emphasizes production and consumption of food and fiber products, the structure of the agricultural/agribusiness industry, major farm problems, and public policy issues impacting agribusiness firms.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

APEC3012 - Introduction to Natural Resource Economics (DSS) - 3 - Credits

Course Overview

Course Prefix
APEC

Course Number
3012

Department
Applied Economics

Course Title
Introduction to Natural Resource Economics (DSS)

General Education Attribute
DSS

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces economic principles as they apply to the use of natural resources and as they affect environmental quality. It analyzes the changes in natural resource use and environmental quality to determine the economic impact upon rural communities and regions.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

APEC3310 - Analytical Methods in Applied Economics (QI) - 3 - Credits

Course Overview

Course Prefix
APEC

Course Number
3310

Department
Applied Economics

Course Title
Analytical Methods in Applied Economics (QI)

General Education Attribute
QI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course explores the application of economic reasoning to logical and empirical problem-solving in agricultural, resource, environmental, and regional economics. Topics include basic data analysis, graphical analysis, probability, and expected value, basic numerical optimization, and linear regression.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- APEC2010 - Introduction to Microeconomics (BSS)

APEC3400 - Introduction to Behavioral Economics - 3 - Credits

Course Overview

Course Prefix
APEC

Course Number
3400

Department
Applied Economics

Course Title
Introduction to Behavioral Economics

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers the four pillars of behavioral economics: laboratory experiments (where students compete solely against themselves), games (where students compete against and/or cooperate with each other), Prospect Theory, and a review of published field experiments and empirical studies.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. The learning objectives for the course are two-fold. One objective is for the students to learn about the field of behavioral economics, partly through "hands-on" participation in the seminal laboratory experiments and games that spawned the field itself, and partly through an investigation of new theories proposed by behavioral economists.
2. They will learn firsthand how these experiments and games exposed weaknesses in traditional economic theory, theory that has been used to explain human behavior and inform public policy for centuries.
3. Students will also learn about the exciting studies that have more recently been conducted by economists and psychologists to test the implications of these weaknesses.
4. Another objective is that, in the process of meeting the first objective, students will gain insight into how they formulate their own personal decisions, and how they might improve their formulations in order to lead happier and more productive lives.

APEC4010 - Intermediate Microeconomics - 3 - Credits

Course Overview

Course Prefix
APEC

Course Number
4010

Department
Applied Economics

Course Title
Intermediate Microeconomics

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course includes analysis of the behavior of consumers and business firms. Students learn the application of theory to the solution of real-world problems. Credit will not be given for both ECN 3010 and APEC/ECN 4010.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- APEC2010 - Introduction to Microeconomics (BSS)
  OR ECON2010 - Introduction to Microeconomics (BSS)

Required

Complete ALL of the following Courses:

- MATH1100 - Calculus Techniques (QL)
  OR MATH1210 - Calculus I (QL)

Required

Complete ALL of the following Courses:

- STAT2300 - Business Statistics (QL)
  OR STAT2000 - Statistical Methods (QI)

APEC4250 - Applied Economics Internship - 1 - 3 Credits

Course Overview

Course Prefix
APEC

Course Number
4250

Department
Applied Economics

Course Title
Applied Economics Internship

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
This course consists of a professional internship, which is a directed and evaluated educational work experience in agribusiness, international agribusiness, or environmental and natural resource economics. Internships can be with private firms; local, state or federal agencies; or non-profit organizations.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

Special Approval

Instructor permission

No Requirements

APEC4310 - Agribusiness Finance - 3 - Credits

Course Overview

Course Prefix
APEC

Course Number
4310

Department
Applied Economics

Course Title
Agribusiness Finance

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course applies financial theory to the investment analysis of capital projects in agriculture. Students develop financial models utilizing Microsoft Excel and evaluate agribusiness and farm firm asset and liability management problems.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Students will recognize and discuss the importance of financial management problems in agriculture.
2. Students will apply the processes of financial analysis and planning in and Agribusiness context.
3. Students will employ the relevant economic and finance principles, concepts, and tools with which to address financial problems, including (a) financial statements and their use in analysis and planning, (b) the role of liquidity and risk management in guiding financial decisions, and (c) the tools of capital budgeting for improved investment decisions.
3. Students will utilize Microsoft Excel in modeling financial decisions.
4. Students will develop expertise in using these financial management concepts and tools to apply them in the "real world" problems of agriculture.

APEC4900 - Directed Readings, Research, or Seminar Series - 1 - 3 Credits

Course Overview

Course Prefix
APEC

Course Number
4900

Department
Applied Economics

Course Title
Directed Readings, Research, or Seminar Series

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course is for students who are undertaking a directed readings, participating in a research project or are attending a seminar series. To receive credit in the Applied Economics department, prior approval of a faculty member is required.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

No Requirements

APEC5000 - International Trade and Finance - 3 - Credits

Course Overview

Course Prefix
APEC

Course Number
5000

Department
Applied Economics

Course Title
International Trade and Finance

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course explores various issues in international trade and international finance with an emphasis on agriculturalgoods and products. Topics include comparative advantage, gains from trade, trade policy, the balance ofpayments, foreign exchange rates and policies, and international investment.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Fulfill ANY of the following requirements:

Option 1

Complete ALL of the following Courses:

- APEC3010 - Agricultural Economics (DSS)
- APEC3310 - Analytical Methods in Applied Economics (QI)

OR

Option 2

Complete ALL of the following Courses:

- APEC4010 - Intermediate Microeconomics

Required

Complete ALL of the following Courses:

- APEC4010 - Intermediate Microeconomics

APEC5010 - Firm Marketing and Price Analysis (QI) - 3 - Credits

Course Overview

Course Prefix
APEC

Course Number
5010

Department
Applied Economics

Course Title
Firm Marketing and Price Analysis (QI)

General Education Attribute
QI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description

This course focuses on empirical price analysis in food and agricultural markets. It includes institutional aspects ofpricing, temporal and spatial price relationships, commodity supply and demand, price forecasting, and economicconsequences of pricing decisions. Students learn tools, techniques and methods used by professional priceanalysts.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- APEC3010 - Agricultural Economics (DSS)
- APEC3310 - Analytical Methods in Applied Economics (QI)

APEC5015 - Applied Economics for Decision Making (QI) - 3 - Credits

Course Overview

Course Prefix
APEC

Course Number
5015

Department
Applied Economics

Course Title
Applied Economics for Decision Making (QI)

General Education Attribute
QI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students learn the application of principles and practices used by managers of agribusiness firms. The course includes the evaluation of alternative actions using budgeting (enterprise, cash flow, partial, whole firm, and capital) and optimization programs.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- APEC2310 - Small Firm Management
- APEC3310 - Analytical Methods in Applied Economics (QI)

APEC5020 - Strategic Firm Management (CI) - 3 - Credits

Course Overview

Course Prefix
APEC

Course Number
5020

Department
Applied Economics

Course Title
Strategic Firm Management (CI)

General Education Attribute
CI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Explores principles and concepts needed to evaluate the impact of industry structure, policies, and international forces on the management of agribusiness firms. Emphasizes the evaluation of producing and marketing new or differentiated products or services.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- APEC3010 - Agricultural Economics (DSS)
- APEC3310 - Analytical Methods in Applied Economics (QI)

APEC5040 - Rural Economic Development and Agriculture (CI) - 3 - Credits

Course Overview

Course Prefix
APEC

Course Number
5040

Department
Applied Economics

Course Title
Rural Economic Development and Agriculture (CI)

General Education Attribute
CI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course explores rural economic development strategies in the context of agricultural and food-based tourism. Emphasis is placed on the evaluation of visitor preferences and needs, cross-industry and public-private partnership models, as well as destination image and marketing methods.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

APEC5150 - Advanced Agricultural Credit Analysis - 3 - Credits

Course Overview

Course Prefix
APEC

Course Number
5150

Department
Applied Economics

Course Title
Advanced Agricultural Credit Analysis

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students learn to apply credit analysis principles, including loan structure, financial analysis, borrower-lender relationship, legal aspects of lending, collateral valuation, and the role of financial intermediaries in agriculture.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ACCT2010 - Financial Accounting Principles
- APEC3010 - Agricultural Economics (DSS)

APEC5250 - Advanced Ranch Economics & Management - 3 - Credits

Course Overview

Course Prefix
APEC

Course Number
5250

Department
Applied Economics

Course Title
Advanced Ranch Economics & Management

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students use economic decision frameworks to analyze real-world ranch decisions: optimal calving/lambing dates, selling at weaning versus retaining ownership, and optimal cow size are examples.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Senior standing in the Ranch Economics and Management - BS major

Course Learning Objectives

Course Learning Outcomes

1. Students will be proficient at using a spreadsheet to analyze ranch decisions using the proper economic decision framework.
2. Students will learn to work as part of a team to analyze case studies and to present their findings in a written document and in an oral presentation.
3. Students will learn to look past the simple initial results of a ranch decision and see and analyze the subsequent ramifications of that decision.

APEC5300 - Quantitative Analysis for Business and Policy Decisions - 3 - Credits

Course Overview

Course Prefix
APEC

Course Number
5300

Department
Applied Economics

Dual-Listed Courses
APEC6300 - Quantitative Analysis for Business and Policy Decisions

Course Title
Quantitative Analysis for Business and Policy Decisions

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Provides an introduction to applied mathematical programming, operations research, simulation, risk analysis, adaptive management, and other decision theoretic tools used by government policy makers and managers of firms. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- APEC3310 - Analytical Methods in Applied Economics (QI)

APEC5330 - Applied Econometrics (QI) - 3 - Credits

Course Overview

Course Prefix
APEC

Course Number
5330

Department
Applied Economics

Dual-Listed Courses
APEC6330 - Applied Econometrics

Course Title
Applied Econometrics (QI)

General Education Attribute
QI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces students to the basics of applied econometrics. Topics include simple linear regression, multiple regression, and other statistical inference techniques. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Corequisite

Type
Corequisite

Required

Enroll in the following Courses:

- APEC5331 - Applied Econometrics Lab

Prerequisite

Type
Prerequisite

Required

Complete ANY of the following Courses:

- STAT2000 - Statistical Methods (QI)
  OR STAT2300 - Business Statistics (QL)
  OR STAT3000 - Statistics for Scientists (QI)
  OR APEC3310 - Analytical Methods in Applied Economics (QI)

APEC5331 - Applied Econometrics Lab - 1 - Credits

Course Overview

Course Prefix
APEC

Course Number
5331

Department
Applied Economics

Dual-Listed Courses
APEC6331 - Applied Econometrics Lab

Course Title
Applied Econometrics Lab

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
The lab section provides hands-on experience with econometric software, data analysis, and model estimation, reinforcing theoretical concepts through practical applications, hypothesis testing, and diagnostic checks, culminating in the ability to conduct and present empirical research projects. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Simple Requisites

Corequisite

Type
Corequisite

Required

Enroll in the following Courses:

- APEC5330 - Applied Econometrics (QI)

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- APEC3310 - Analytical Methods in Applied Economics (QI)
  OR STAT2000 - Statistical Methods (QI)

APEC5500 - Climate Change Economics and Policy - 3 - Credits

Course Overview

Course Prefix
APEC

Course Number
5500

Department
Applied Economics

Course Title
Climate Change Economics and Policy

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course explores how economics and policy can effectively mitigate greenhouse gas (GHG) emissions to combat climate change.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

APEC5560 - Natural Resource and Environmental Economics - 3 - Credits

Course Overview

Course Prefix
APEC

Course Number
5560

Department
Applied Economics

Course Title
Natural Resource and Environmental Economics

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Economics of developing, managing, and conserving natural resources and the environment. Topics include resource use and conservation, environmental quality, public and private resource management, and valuation of nonmarket goods.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ANY of the following Courses:

- APEC2010 - Introduction to Microeconomics (BSS)
  OR APEC3012 - Introduction to Natural Resource Economics (DSS)
  OR ECON2010 - Introduction to Microeconomics (BSS)

APEC5700 - Regional and Community Economic Development - 3 - Credits

Course Overview

Course Prefix
APEC

Course Number
5700

Department
Applied Economics

Dual-Listed Courses
APEC6700 - Regional and Community Economic Development

Course Title
Regional and Community Economic Development

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Building on microeconomic theory, models for regional and urban structure and change are explored. Policy decision models based on advances in economic growth and development, economic structure, land-use, public finance, housing, social welfare, and transportation are developed. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

APEC5710 - Frontiers in Agribusiness - 3 - Credits

Course Overview

Course Prefix
APEC

Course Number
5710

Department
Applied Economics

Dual-Listed Courses
APEC6710 - Frontiers in Agribusiness

Course Title
Frontiers in Agribusiness

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course focuses on tools used by local and regional economic development specialists as they relate to planning and impact assessment. Specific topics will include I/O models, IMPLAN models, and computable CGE modeling approaches as they are used in a planning environment. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

APEC5940 - U.S. Agricultural Policy Analysis - 3 - Credits

Course Overview

Course Prefix
APEC

Course Number
5940

Department
Applied Economics

Course Title
U.S. Agricultural Policy Analysis

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course focuses on the identification and analysis of past and current agricultural policy issues. Throughout this process, other applied economics course concepts and methods are brought together to help students understand and analyze policy issues.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

APEC5950 - Applied Economics Policy Analysis - 3 - Credits

Course Overview

Course Prefix
APEC

Course Number
5950

Department
Applied Economics

Dual-Listed Courses
APEC6950 - Applied Economic Policy Analysis

Course Title
Applied Economics Policy Analysis

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course focuses on the identification and analysis of current natural resource and environmental economic policy issues. Throughout this process, other applied economics course concepts and methods are brought together to help students understand and analyze policy issues. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

APEC6030 - Agricultural Marketing - 3 - Credits

Course Overview

Course Prefix
APEC

Course Number
6030

Department
Applied Economics

Course Title
Agricultural Marketing

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Covers a variety of topics relating to price analysis for agricultural commodities. Explores econometric and time series modeling and forecasting of agricultural prices. Includes a section on futures and options on futures contracts, focusing on fundamental and technical analysis.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- APEC6330 - Applied Econometrics
  OR ECON6030 - Applied Econometrics

APEC6040 - Production Economics, Applied Risk Analysis and Simulation - 3 - Credits

Course Overview

Course Prefix
APEC

Course Number
6040

Department
Applied Economics

Course Title
Production Economics, Applied Risk Analysis and Simulation

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course focuses on risk problems, measurement, and risk management in production economics and agribusiness supply chains. It introduces the use of stochastic simulation and risk analysis. Illustrated applications build upon those used in agribusiness, logistics, food safety, and finance.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

APEC6100 - Microeconomic Theory I - 3 - Credits

Course Overview

Course Prefix
APEC

Course Number
6100

Department
Applied Economics

Course Title
Microeconomic Theory I

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Provides a rigorous introduction to graduate-level microeconomic theory. While the specific focus is on the theoretical construct of graduate-level microeconomic models, the broad objective of the class is to lay the foundation for empirical applications in microeconomics. To meet this broad objective, the course covers theory of the firm, consumer theory, market structure, theory of public goods and externalities, and welfare economics.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

APEC6120 - Economics and Strategy - 3 - Credits

Course Overview

Course Prefix
APEC

Course Number
6120

Department
Applied Economics

Course Title
Economics and Strategy

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
In this course, students apply microeconomic concepts to strategic issues facing agribusiness firms. Topics include supply and demand drivers, market structure, the economics of scale and scope, the boundaries of the firm, and diversification strategies.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

APEC6140 - Decision Making and Strategy - 3 - Credits

Course Overview

Course Prefix
APEC

Course Number
6140

Department
Applied Economics

Course Title
Decision Making and Strategy

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course explores how firms respond to prices, costs, and risk in their management decisions. Decisions on the structure of contracts, the types of insurance, and vertical integration are affected by these aforementioned factors and are examined in the course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

APEC6250 - Graduate Internship - 1 - 3 Credits

Course Overview

Course Prefix
APEC

Course Number
6250

Department
Applied Economics

Course Title
Graduate Internship

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This professional internship is a directed and evaluated educational work experience in agribusiness or applied economics. Internships can be with private firms, local, state or federal agencies, or non-profit organizations.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

Special Approval

Instructor permission

No Requirements

APEC6300 - Quantitative Analysis for Business and Policy Decisions - 3 - Credits

Course Overview

Course Prefix
APEC

Course Number
6300

Department
Applied Economics

Dual-Listed Courses
APEC5300 - Quantitative Analysis for Business and Policy Decisions

Course Title
Quantitative Analysis for Business and Policy Decisions

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Provides an introduction to applied mathematical programming, operations research, simulation, risk analysis, adaptive management, and other decision theoretic tools used by government policy makers and managers of firms. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

APEC6330 - Applied Econometrics - 3 - Credits

Course Overview

Course Prefix
APEC

Course Number
6330

Department
Applied Economics

Dual-Listed Courses
APEC5330 - Applied Econometrics (QI)

Course Title
Applied Econometrics

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces students to the basics of applied econometrics. Topics include simple linear regression, multiple regression, and other statistical inference techniques. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Corequisite

Type
Corequisite

Required

Enroll in the following Courses:
- APEC6331 - Applied Econometrics Lab

APEC6331 - Applied Econometrics Lab - 1 - Credits

Course Overview

Course Prefix
APEC

Course Number
6331

Department
Applied Economics

Dual-Listed Courses
APEC5331 - Applied Econometrics Lab

Course Title
Applied Econometrics Lab

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
The lab section provides hands-on experience with econometric software, data analysis, and model estimation, reinforcing theoretical concepts through practical applications, hypothesis testing, and diagnostic checks, culminating in the ability to conduct and present empirical research projects. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Simple Requisites

Corequisite

Type
Corequisite

Required

Enroll in the following Courses:
- APEC6330 - Applied Econometrics

APEC6500 - Introduction to Natural Resource Economics - 3 - Credits

Course Overview

Course Prefix
APEC

Course Number
6500

Department
Applied Economics

Course Title
Introduction to Natural Resource Economics

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Introduction to the legal and regulatory foundations of natural resource policy, with specific attention to water, minerals, rangelands, forests, fish, and off-site impacts of agricultural and industrial production. Topics include externalities, property rights, public goods, public choice, and public trust.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ANY of the following Courses:

- ECON3010 - Intermediate Microeconomics (DSS)
  OR APEC4010 - Intermediate Microeconomics
  OR APEC5560 - Natural Resource and Environmental Economics

APEC6510 - Introduction to Environmental Economics - 3 - Credits

Course Overview

Course Prefix
APEC

Course Number
6510

Department
Applied Economics

Course Title
Introduction to Environmental Economics

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Introduction to the foundations of environmental economics. Adaptation of market mechanisms to ameliorate pollution problems and provide amenity services. Methods for determining the value of nonmarketed goods and services. Topics include economic principles regarding social choice and market exchange, as well as current and historical issues involving pollution, environmental regulation, and the effects of environmental regulation on the profitability of private and public entities.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ANY of the following Courses:

- ECON3010 - Intermediate Microeconomics (DSS)
  OR APEC4010 - Intermediate Microeconomics
  OR APEC5560 - Natural Resource and Environmental Economics
  OR APEC6500 - Introduction to Natural Resource Economics

APEC6700 - Regional and Community Economic Development - 3 - Credits

Course Overview

Course Prefix
APEC

Course Number
6700

Department
Applied Economics

Dual-Listed Courses
APEC5700 - Regional and Community Economic Development

Course Title
Regional and Community Economic Development

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Building on microeconomic theory, models for regional and urban structure and change are explored. Policy decision models based on advances in economic growth and development, economic structure, land-use, public finance, housing, social welfare, and transportation are developed. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

APEC6710 - Frontiers in Agribusiness - 3 - Credits

Course Overview

Course Prefix
APEC

Course Number
6710

Department
Applied Economics

Dual-Listed Courses
APEC5710 - Frontiers in Agribusiness

Course Title
Frontiers in Agribusiness

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course focuses on tools used by local and regional economic development specialists as they relate to planning and impact assessment. Specific topics will include I/O models, IMPLAN models, and computable CGE modeling approaches as they are used in a planning environment. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- APEC6700 - Regional and Community Economic Development

APEC6910 - Independent Research - 1 - 3 Credits

Course Overview

Course Prefix
APEC

Course Number
6910

Department
Applied Economics

Course Title
Independent Research

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Directed readings. Credits from this course toward any applied economics graduate degree require approval of the student's advisory committee, and the department head.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

Registration Restrictions
Graduate standing in the Applied Economics Department

Special Approval
Advisory-committee and department-head approval

APEC6950 - Applied Economic Policy Analysis - 3 - Credits

Course Overview

Course Prefix
APEC

Course Number
6950

Department
Applied Economics

Dual-Listed Courses
APEC5950 - Applied Economics Policy Analysis

Course Title
Applied Economic Policy Analysis

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course focuses on the identification and analysis of current natural resource and environmental economic policy issues. Throughout this process, other applied economics course concepts and methods are brought together to help students understand and analyze policy issues. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

APEC6970 - Thesis Research - 1 - 9 Credits

Course Overview

Course Prefix
APEC

Course Number
6970

Department
Applied Economics

Course Title
Thesis Research

Grade Mode
Temporary Pass/Fail

Repeat Status
RP

Course Description
This course involves Master's-level research in Applied Economics.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
9

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
9

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
9

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
9

Lecture Hours Operator:
TO

No Requirements

APEC6990 - Continuing Graduate Advisement - 1 - 9 Credits

Course Overview

Course Prefix
APEC

Course Number
6990

Department
Applied Economics

Course Title
Continuing Graduate Advisement

Grade Mode
Temporary Pass/Fail

Repeat Status
RP

Course Description
This course involves Master's-level advisement in Applied Economics.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
9

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
9

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
9

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
9

Lecture Hours Operator:
TO

No Requirements

APEC7130 - Microeconomic Theory I - 3 - Credits

Course Overview

Course Prefix
APEC

Course Number
7130

Department
Applied Economics

Cross-Listed Courses
ECON7130 - Microeconomic Theory I

Course Title
Microeconomic Theory I

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Provides a rigorous introduction to graduate-level microeconomic theory. While the specific focus is on the theoretical construct of graduate-level microeconomic models, the broad objective of the class is to lay the foundation for empirical applications in microeconomics. To meet this broad objective, the course covers theory of the firm, consumer theory, market structure, theory of public goods and externalities, and welfare economics.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

APEC7140 - Microeconomic Theory II - 3 - Credits

Course Overview

Course Prefix
APEC

Course Number
7140

Department
Applied Economics

Course Title
Microeconomic Theory II

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Extends the theoretical foundations of microeconomics with an emphasis on model building in economics. Topics include static games of complete and incomplete information, dynamic games of complete and incomplete information, imperfectly competitive markets, risk and uncertainty, public goods, general equilibrium, and information economics.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- APEC7130 - Microeconomic Theory I
  OR ECON7130 - Microeconomic Theory I
- APEC7360 - Mathematical Economics II
  OR ECON7360 - Mathematical Economics II

APEC7150 - Applied Microeconomics - 3 - Credits

Course Overview

Course Prefix
APEC

Course Number
7150

Department
Applied Economics

Course Title
Applied Microeconomics

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course explores the uses of microeconomic theory in multiple areas of economics.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- APEC7140 - Microeconomic Theory II

APEC7310 - Econometrics I - 3 - Credits

Course Overview

Course Prefix
APEC

Course Number
7310

Department
Applied Economics

Cross-Listed Courses
ECON7310 - Econometrics I

Course Title
Econometrics I

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Begins with a review of probability and statistics. Remainder of course is spent discussing the Classical linear regression model, least squares and maximum likelihood estimation, finite and asymptotic sample properties, inference, prediction, and nonlinear optimization.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

APEC7320 - Econometrics II - 3 - Credits

Course Overview

Course Prefix
APEC

Course Number
7320

Department
Applied Economics

Cross-Listed Courses
ECON7320 - Econometrics II

Course Title
Econometrics II

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Extension of APEC 7310, covering topics such as nonspherical disturbances, panel data, simultaneous equations, time series and distributed lag models, and limited and qualitative dependent variable models.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- APEC7310 - Econometrics I
  OR ECON7310 - Econometrics I

APEC7330 - Econometrics III - 3 - Credits

Course Overview

Course Prefix
APEC

Course Number
7330

Department
Applied Economics

Course Title
Econometrics III

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides in-depth coverage of current topics/techniques in applied econometric time series analysis, with an emphasis on econometric model development, estimation, and interpretation.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- APEC7320 - Econometrics II
  OR ECON7320 - Econometrics II

APEC7350 - Mathematical Economics I - 3 - Credits

Course Overview

Course Prefix
APEC

Course Number
7350

Department
Applied Economics

Cross-Listed Courses
ECON7350 - Mathematical Economics I

Course Title
Mathematical Economics I

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Includes linear equations, matrix algebra, multivariate calculus, static optimization, comparative static analysis, constrained optimization, and Kuhn-Tucker conditions.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

APEC7360 - Mathematical Economics II - 3 - Credits

Course Overview

Course Prefix
APEC

Course Number
7360

Department
Applied Economics

Cross-Listed Courses
ECON7360 - Mathematical Economics II

Course Title
Mathematical Economics II

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course extends the presentation of APEC 7350 by covering applications of constrained optimization, the envelope theorem and applications, differential equations, dynamic economics, and optimal control.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

APEC7400 - International Trade and Agriculture - 3 - Credits

Course Overview

Course Prefix
APEC

Course Number
7400

Department
Applied Economics

Course Title
International Trade and Agriculture

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides an in-depth analysis of international trade with a focus on agricultural commodities, covering both positive and normative aspects. Topics include, but are not limited to, the basis for international trade, gains from trade, and trade policies including agricultural policies.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

APEC7500 - Resource Economics - 3 - Credits

Course Overview

Course Prefix
APEC

Course Number
7500

Department
Applied Economics

Course Title
Resource Economics

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Focuses on formal economic models associated with optimal exploitation of renewable and nonrenewable resources. Applications to minerals, groundwater, energy resources, soil, forests, fisheries, rangelands, watersheds, wildlife, etc.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

APEC7510 - Environmental Economics - 3 - Credits

Course Overview

Course Prefix
APEC

Course Number
7510

Department
Applied Economics

Course Title
Environmental Economics

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Covers the theory of environmental policy. Topics include, but are not limited to, externalities, uncertainty and the choice of policy instruments, market imperfections and the number of participants, nonconvexities in the production set, the charges and standards approach, marketable emission permits, the environment and development, international environmental issues, and ecological economics.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

APEC7950 - Department of Economics Graduate Seminar - 1 - Credits

Course Overview

Course Prefix
APEC

Course Number
7950

Department
Applied Economics

Course Title
Department of Economics Graduate Seminar

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
Exposes students to new developments in research and management in the field of economics. Features participation by students, faculty, and guest lecturers.

Credit Hours

Credit Hours Min:
1

Contact Hours

Contact Hours Min:
1

Billing Hours

Billing Hours Min:
1

Lecture Hours

Lecture Hours Min:
1

APEC7960 - Applied Economics Teaching Practicum - 3 - Credits

Course Overview

Course Prefix
APEC

Course Number
7960

Department
Applied Economics

Course Title
Applied Economics Teaching Practicum

Grade Mode
Pass/Fail

Repeat Status
NR

Course Description
This course provides hands-on teaching experience through leading discussions, lecturing, grading, and holding office hours. Supervised by a faculty mentor, students receive essential guidance, feedback, and support throughout this structured component of their doctoral training.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Registration Restrictions
Admission to the Economics - PhD program in the Department of Applied Economics

Special Approval
Department permission based on successful completion of a qualifying exam

Course Learning Objectives

Course Learning Outcomes

1. Develop Teaching Skills: Equip students with effective teaching strategies and techniques for engaging and motivating students.

2. Practical Teaching Experience: Provide hands-on experience in leading classes, giving lectures, and managing classroom activities.

3. Curriculum Development: Teach students how to create comprehensive syllabi, assignments, and assessments.

4. Feedback and Evaluation: Enable students to receive and incorporate feedback from mentors, peers, and students to improve their teaching methods.

5. Integration with Research: Help students balance teaching responsibilities with their research commitments.

6. Professional Development: Prepare students for future academic roles by enhancing their communication, organization, and instructional skills.

APEC7970 - Dissertation Research - 1 - 9 Credits

Course Overview

Course Prefix
APEC

Course Number
7970

Department
Applied Economics

Course Title
Dissertation Research

Grade Mode
Temporary Pass/Fail

Repeat Status
RP

Course Description
PhD dissertation research.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
9

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
9

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
9

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
9

Lecture Hours Operator:
TO

No Requirements

APEC7990 - Continuing Graduate Advisement - 1 - 9 Credits

Course Overview

Course Prefix
APEC

Course Number
7990

Department
Applied Economics

Course Title
Continuing Graduate Advisement

Grade Mode
Temporary Pass/Fail

Repeat Status
RP

Course Description
PhD-level advisement.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
9

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
9

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
9

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
9

Lecture Hours Operator:
TO

No Requirements

APPR2301 - Electrical Apprentice 1-A - 5 - Credits

Course Overview

Course Prefix
APPR

Course Number
2301

Department
Technology, Design & Technical Ed

Course Title
Electrical Apprentice 1-A

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Designed for electrical apprentices, this course introduces electrical theory, covering electricity fundamentals, DC theory, voltage, current, resistance, batteries, and magnetism. Students learn formulas, math, and principles for simple, series, parallel, combination circuits, power calculations, through lecture and hands-on laboratory experiences.

Credit Hours

Credit Hours Min:
5

Contact Hours

Contact Hours Min:
5

Billing Hours

Billing Hours Min:
5

Lecture Hours

Lecture Hours Min:
5

Other Enrollment Recommendations

Willingness to obtain apprentice license

No Requirements

APPR2302 - Electrical Apprentice 1-B - 5 - Credits

Course Overview

Course Prefix
APPR

Course Number
2302

Department
Technology, Design & Technical Ed

Course Title
Electrical Apprentice 1-B

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Designed for students enrolled in electrical apprenticeship. Introduces measuring instruments, magnetism, circuits, devices, National Electrical Code, blueprint reading, DC motors, low voltage circuits, DC motor control, DC generators, 3 and 4 way switches, and conduit bending.

Credit Hours

Credit Hours
Min:
5

Contact Hours

Contact Hours
Min:
5

Billing Hours

Billing Hours
Min:
5

Lecture Hours

Lecture Hours
Min:
5

Other Enrollment Recommendations

Student should have apprentice license.

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- APPR2301 - Electrical Apprentice 1-A

APPR2303 - Electrical Apprentice 2-A - 5 - Credits

Course Overview

Course Prefix
APPR

Course Number
2303

Department
Technology, Design & Technical Ed

Course Title
Electrical Apprentice 2-A

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Designed for electrical apprentices, this course applies AC theory to industrial electrical work, covering inductance, capacitance, resistance, and LCR circuits. Students gain hands-on experience correcting motor power factor and comparing true and reactive power in inductors, capacitors, and resistors applications.

Credit Hours

Credit Hours
Min:
5

Contact Hours

Contact Hours
Min:
5

Billing Hours

Billing Hours
Min:
5

Lecture Hours

Lecture Hours
Min:
5

Other Enrollment Recommendations

Student should have apprentice license.

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- APPR2302 - Electrical Apprentice 1-B

APPR2304 - Electrical Apprentice 2-B - 5 - Credits

Course Overview

Course Prefix
APPR

Course Number
2304

Department
Technology, Design & Technical Ed

Course Title
Electrical Apprentice 2-B

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Designed for electrical apprentices, this course covers installation, troubleshooting, preventive maintenance, and repair of AC motors, motor controls, and transformers. Students learn proper use of tools and test equipment through integrated theory and hands-on laboratory experiences.

Credit Hours

Credit Hours
Min:
5

Contact Hours

Contact Hours
Min:
5

Billing Hours

Billing Hours
Min:
5

Lecture Hours

Lecture Hours
Min:
5

Other Enrollment Recommendations
Student should have their apprentice license.

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:
- APPR2303 - Electrical Apprentice 2-A

APPR2310 - Electrical Apprentice 3-A - 5 - Credits

Course Overview

Course Prefix
APPR

Course Number
2310

Department
Technology, Design & Technical Ed

Course Title
Electrical Apprentice 3-A

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Designed for electrical apprentices, this course covers installation, troubleshooting, preventive maintenance, and repair of AC motor controls. Students learn proper use of hand tools and test equipment, preparing them for entry-level positions maintaining AC motor control equipment in industrial environments.

Credit Hours

Credit Hours
Min:
5

Contact Hours

Contact Hours
Min:
5

Billing Hours

Billing Hours
Min:
5

Lecture Hours

Lecture Hours
Min:
5

Other Enrollment Recommendations
Student should have their apprentice license.

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:
- APPR2304 - Electrical Apprentice 2-B

APPR2320 - Electrical Apprentice 3-B - 5 - Credits

Course Overview

Course Prefix
APPR

Course Number
2320

Department
Technology, Design & Technical Ed

Course Title
Electrical Apprentice 3-B

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Designed for electrical apprentices, this course covers electronic devices used in industrial control systems. Students study test equipment, installation, maintenance, troubleshooting, and repair of control circuits, with introduction to instrumentation and process control theory, preparing them for related entry-level industry positions.

Credit Hours

Credit Hours
Min:
5

Contact Hours

Contact Hours
Min:
5

Billing Hours

Billing Hours
Min:
5

Lecture Hours

Lecture Hours
Min:
5

Other Enrollment Recommendations
Student should have their apprentice license.

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:
- APPR2310 - Electrical Apprentice 3-A

APPR2410 - Electrical Apprentice 4-A - 5 - Credits

Course Overview

Course Prefix
APPR

Course Number
2410

Department
Technology, Design & Technical Ed

Course Title
Electrical Apprentice 4-A

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Designed for electrical apprentices, this course studies industrial motor control with emphasis on the National Electrical Code and programmable logic controllers. Students explore PLC components, functions, and system integration, preparing them for entry-level industrial positions in electrical control environments.

Credit Hours

Credit Hours
Min:
5

Contact Hours

Contact Hours
Min:
5

Billing Hours

Billing Hours
Min:
5

Lecture Hours

Lecture Hours
Min:
5

Other Enrollment Recommendations
Student should have their apprentice license.

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:
- APPR2320 - Electrical Apprentice 3-B

APPR2420 - Electrical Apprentice 4-B - 5 - Credits

Course Overview

Course Prefix
APPR

Course Number
2420

Department
Technology, Design & Technical Ed

Course Title
Electrical Apprentice 4-B

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Capstone course for electrical apprentices reviewing DC and AC theory, circuits, transformers, motors, and controls. Covers single- and three-phase load calculations, sizing conductors and conduit, voltage drop, and National Electrical Code study, preparing students for the Utah State Journeyman Exam.

Credit Hours

Credit Hours Min:
5

Contact Hours

Contact Hours Min:
5

Billing Hours

Billing Hours Min:
5

Lecture Hours

Lecture Hours Min:
5

Other Enrollment Recommendations
Student should have apprentice license.

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- APPR2410 - Electrical Apprentice 4-A

APPR2988 - Special Problems - 1 - 3 Credits

Course Overview

Course Prefix
APPR

Course Number
2988

Department
Technology, Design & Technical Ed

Course Title
Special Problems

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Individual work approved by instructor. Time and credit to be arranged.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

No Requirements

ARBC1010 - Arabic First Year I - 4 - Credits

Course Overview

Course Prefix
ARBC

Course Number
1010

Department
World Languages and Cultures

Course Title
Arabic First Year I

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Communicative competencies in the four language skills: speaking, listening, reading, and writing, with exposure to cultures and customs. This course is only for students with no previous background in the Arabic language.

Credit Hours

Credit Hours
Min:
4

Contact Hours

Contact Hours
Min:
4

Billing Hours

Billing Hours
Min:
4

Lecture Hours

Lecture Hours
Min:
4

ARBC1020 - Arabic First Year II - 4 - Credits

Course Overview

Course Prefix
ARBC

Course Number
1020

Department
World Languages and Cultures

Course Title
Arabic First Year II

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Communicative competencies in the four language skills: speaking, listening, reading, and writing, with exposure to cultures and customs.

Credit Hours

Credit Hours
Min:
4

Contact Hours

Contact Hours
Min:
4

Billing Hours

Billing Hours
Min:
4

Lecture Hours

Lecture Hours
Min:
4

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ARBC1010 - Arabic First Year I

Or equivalent

ARBC1800 - Study-Abroad Arabic Language and Society I - 1 - 8 Credits

Course Overview

Course Prefix
ARBC

Course Number
1800

Department
World Languages and Cultures

Course Title
Study-Abroad Arabic Language and Society I

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This is a 4-week program of Arabic language and culture for students having no previous exposure to Arabic. The program aims to develop the students? communicative competencies and expose them to the society, culture, and customs of the Arab people.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
8

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
8

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
8

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
8

Lecture Hours Operator:
TO

No Requirements

ARBC2010 - Intermediate Standard Arabic Second Year I - 4 - Credits

Course Overview

Course Prefix
ARBC

Course Number
2010

Department
World Languages and Cultures

Course Title
Intermediate Standard Arabic Second Year I

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course focuses on developing proficiency in the formal oral and written Arabic language, with emphasis on advanced grammar topics, oral fluency skills, non-technical prose reading and writing, and cultural awareness activities.

Credit Hours

Credit Hours Min:
4

Contact Hours

Contact Hours Min:
4

Billing Hours

Billing Hours Min:
4

Lecture Hours

Lecture Hours Min:
4

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ARBC1020 - Arabic First Year II

ARBC2020 - Intermediate Standard Arabic Second Year II - 4 - Credits

Course Overview

Course Prefix
ARBC

Course Number
2020

Department
World Languages and Cultures

Course Title
Intermediate Standard Arabic Second Year II

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Continuation of ARBC 2010

Credit Hours

Credit Hours Min:
4

Contact Hours

Contact Hours Min:
4

Billing Hours

Billing Hours Min:
4

Lecture Hours

Lecture Hours Min:
4

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ARBC2010 - Intermediate Standard Arabic Second Year I

ARBC2800 - Study-Abroad Arabic Language and Society II - 1 - 8 Credits

Course Overview

Course Prefix
ARBC

Course Number
2800

Department
World Languages and Cultures

Course Title
Study-Abroad Arabic Language and Society II

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This is a 4-week program of Arabic language and culture for students having a beginner level of Arabic. The program aims to develop the students? communicative competencies and expose them to the society, culture, and customs of the Arab people.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
8

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
8

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
8

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
8

Lecture Hours Operator:
TO

No Requirements

ARBC3010 - Advanced Arabic I - 3 - Credits

Course Overview

Course Prefix
ARBC

Course Number
3010

Department
World Languages and Cultures

Course Title
Advanced Arabic I

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Advanced course on Arabic grammar, morphology, and vocabulary in Modern Standard Arabic. The course is designed for the non-native speaker and will further develop student's ability to communicate in Arabic orally and in reading and writing.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ARBC2020 - Intermediate Standard Arabic Second Year II

Or equivalent proficiency testing score of 500+

ARBC3020 - Advanced Arabic II - 3 - Credits

Course Overview

Course Prefix
ARBC

Course Number
3020

Department
World Languages and Cultures

Course Title
Advanced Arabic II

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course is designed to develop increased communication competence in Arabic. The course will focus on grammar, morphology, and vocabulary in Modern Standard Arabic.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Other Enrollment Recommendations

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ARBC3010 - Advanced Arabic I

ARBC3030 - Introduction to Islam (DHA) - 3 - Credits

Course Overview

Course Prefix
ARBC

Course Number
3030

Department
World Languages and Cultures

Course Title
Introduction to Islam (DHA)

General Education Attribute
DHA

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course focuses on what Muslim jurists, theologians, exegetes and traditionalists think of their own traditions. It focuses on the core beliefs, practices, scriptures and sentiments that have defined historically Muslim communities.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

ARBC3800 - Study Abroad in Jordan - 3 - Credits

Course Overview

Course Prefix
ARBC

Course Number
3800

Department
World Languages and Cultures

Course Title
Study Abroad in Jordan

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This is an intensive two-week study-abroad course aiming to develop students' understanding of the Arabic culture, society, and history through first-hand experiences in Jordan.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

A minimum GPA of 2.8

ARBC4040 - Language and Culture of the Arab World (DHA) - 3 - Credits

Course Overview

Course Prefix
ARBC

Course Number
4040

Department
World Languages and Cultures

Course Title
Language and Culture of the Arab World (DHA)

General Education Attribute
DHA

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Communicative competencies in the four language skills: speaking, listening, reading, and writing, with exposure to cultures and customs. This course is only for students with no previous background in the Arabic language.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

ARBC4920 - Arabic Language Tutoring - 1 - 3 Credits

Course Overview

Course Prefix
ARBC

Course Number
4920

Department
World Languages and Cultures

Course Title
Arabic Language Tutoring

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course allows students to develop tutoring and communication skills by assisting in Arabic language courses or fulfilling instructional duties for a comparable amount of time in the language laboratory, public schools, or similar activities with departmental approval.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

Other Enrollment Recommendations
Completion of an upper-division Arabic course

Course Learning Objectives

Course Learning Outcomes

Students gain a deeper understanding of the Arabic language, develop essential teaching and interpersonal skills, and contribute to a stronger and more engaged learning community. The tutoring experience provides valuable durable skills and experience that can benefit future academic pursuits and professional careers.

1. Tutors will reinforce their own Arabic language proficiency and deepen their understanding of Arabic grammar, vocabulary, pronunciation, and the four language skills (listening, speaking, reading, and writing).
2. Tutors will learn to implement some techniques relevant to Arabic language instruction, such as conversational practice, role-playing exercises, and technology-assisted learning.
3. Tutors will learn to begin to identify and address some learning challenges and learning styles.
4. Tutors will develop their ability to clearly explain complex Arabic language structures to others.
5. Tutors will continue developing effective communication and leadership strategies.
6. Tutors will learn how to give basic effective and supportive feedback.

ARSC2250 - Introductory Internship/Co-op - 1 - 5 Credits

Course Overview

Course Prefix
ARSC

Course Number
2250

Department
College of Arts & Sciences

Course Title

Introductory Internship/Co-op

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description

An introductory-level educational work experience in an internship or cooperative education position approved by the department and/or the College of Arts & Sciences.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
5

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
5

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
5

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
5

Lecture Hours Operator:
TO

Other Enrollment Recommendations

Check with major department for limitations on number of credits that can be counted for graduation.

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Introduce students to the options available through the College of Humanities and Social Sciences in the way of majors, minors, certificates, experiential learning opportunities, and scholarships.
2. Broaden students educational experience by introducing them to and encouraging co-curricular and community engaged learning activities provided or supported by the college and USU.
3. Connect students with the people and tools that can help them intentionally design purpose for their education and career.
4. Strengthen students desire and ability to be an informed and engaged participant in the educational process.
5. Build awareness of CHaSS and USU resources to support students ability to participate in learning opportunities.
6. Create an environment that helps students establish connections and support networks.

ART1010 - Exploring Art (BCA) - 3 - Credits

Course Overview

Course Prefix
ART

Course Number
1010

Department
Art and Design

Course Title
Exploring Art (BCA)

General Education Attribute
BCA

Grade Mode
Standard Letter

Repeat Status
NR

Course Description

Introduction to the visual arts, including the language, elements, and history of art.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

ART1020 - Drawing I (BCA) - 3 - Credits

Course Overview

Course Prefix
ART

Course Number
1020

Department
Art and Design

Course Title
Drawing I (BCA)

General Education Attribute
BCA

Grade Mode
Standard Letter

Repeat Status
NR

Course Description

Students are introduced to the visual language of drawing, the graphic elements, various drawing media, and the creative problems involved.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Admission to the Art and Design department; some sections may be available for non-majors (this restriction applies to Logan Campus sections only)

No Requirements

ART1050 - Introduction to Photography - 3 - Credits

Course Overview

Course Prefix
ART

Course Number
1050

Department
Art and Design

Course Title
Introduction to Photography

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
An overview of photography. Operation of basic camera (and related) equipment, employment of the photographic medium for creative purposes with a strong emphasis on composition, photographic aesthetics and vernacular photography.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

ART1120 - Two-Dimensional Design - 3 - Credits

Course Overview

Course Prefix
ART

Course Number
1120

Department
Art and Design

Course Title
Two-Dimensional Design

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course teaches the study and problem-solving of form, space, texture, value, and color theory.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Admission to Art and Design department; some sections may be available for non-majors (this restriction applies to Logan Campus sections only)

No Requirements

ART1130 - Three-Dimensional Design - 3 - Credits

Course Overview

Course Prefix
ART

Course Number
1130

Department
Art and Design

Course Title
Three-Dimensional Design

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course fosters the development of basic understanding of three-dimensional form and space relationships. It includes three-dimensional problem-solving as well as the use of a range of materials.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Admission to Art and Design department; some sections may be available for non-majors (this restriction applies to Logan Campus sections only)

No Requirements

ART1140 - 4D Design: Time Research - 3 - Credits

Course Overview

Course Prefix
ART

Course Number
1140

Department
Art and Design

Course Title
4D Design: Time Research

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This 3-credit course is an introduction to the relationship of time with that of Art & Design, which includes discussing duration, tempo, intensity, scope, setting, and chronology as the six major elements of time design.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Admission to Art and Design department (this restriction applies to Logan Campus sections only)

No Requirements

ART1430 - Basic Illustration - 3 - Credits

Course Overview

Course Prefix
ART

Course Number
1430

Department
Art and Design

Course Title
Basic Illustration

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Will emphasize basic drawing and painting skills in illustration problems in a variety of media and techniques. Emphasis will be placed on materials. Students will draw and paint from the model in some assignments.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

ART2100 - Art Education Foundations Seminar - 1 - Credits

Course Overview

Course Prefix
ART

Course Number
2100

Department
Art and Design

Course Title
Art Education Foundations Seminar

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces students to ideas, issues and career possibilities in secondary visual art education. Students engage with historical, philosophical, and sociological foundations and contemporary issues of art education, including learning theories in American public education.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Registration Restrictions

Students must be enrolled in the Art - BS, Art-BA, or Art Preprogram at USU.

Course Learning Objectives

Course Learning Outcomes

1. Students will be able to apply critical thinking skills in reading written histories of education/art education to identify and question interpretations of historical events and their impact on contemporary art education. (IDEA 1)
2. Students will be able to interpret ideas, events, and art educators of the past in their intellectual, social, cultural, political and economic contexts, nationally and in relation to the purposes for art education and contemporary art education practice. (IDEA 1)
3. Students will be able to demonstrate an understanding of educational movements in American history by contributing to an artistic mapping timeline that aims to identify historical themes and movements that have impacted the field of contemporary art education. (IDEA 1)

4. Students will be able to apply USBE standards of learning to develop a lesson for a secondary school environment. (IDEA 3)
5. Students will understand the professional expectations of educators and engage in reflective practices to begin the development of an artist-teacher identity. (IDEA 4)
6. Students will be able to build relationships with peers and actively engage in a variety of artistic, educational, and/or service projects that will help develop the professional competencies required of art education professionals.

ART2110 - Drawing II - 3 - Credits

Course Overview

Course Prefix
ART

Course Number
2110

Department
Art and Design

Course Title
Drawing II

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
A continuation of ART 1020 or ART 1110 , with an emphasis on more complex problems and techniques.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Registration Restrictions

Admission to Art and Design department; (this restriction applies to Logan Campus sections only)

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ART1020 - Drawing I (BCA)

ART2200 - Painting I - 3 - Credits

Course Overview

Course Prefix
ART

Course Number
2200

Department
Art and Design

Course Title
Painting I

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Introduction to visual language of painting. Focuses on organization of visual ideas and basic oil painting techniques. Provides experience in both direct and indirect painting methods, as well as introducing applied color concepts.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Admission to Art and Design department (this restriction applies to Logan Campus sections only)

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ART1020 - Drawing I (BCA)
  AND ART1120 - Two-Dimensional Design

ART2220 - Watercolor Painting - 3 - Credits

Course Overview

Course Prefix
ART

Course Number
2220

Department
Art and Design

Course Title
Watercolor Painting

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Exploration of formal, technical, and conceptual problems in water media, for students with basic painting experience. Emphasis on gaining proficiency in both transparent and opaque watercolor techniques.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ART2200 - Painting I

ART2230 - Basic Printmaking - 3 - Credits

Course Overview

Course Prefix
ART

Course Number
2230

Department
Art and Design

Course Title
Basic Printmaking

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This introductory course acquaints students with the broader aspects of relief, intaglio, and planographic processes.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Admission to Art and Design department; some sections may be available for non-majors (this restriction applies to Logan Campus sections only)

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ART1020 - Drawing I (BCA)
  AND ART1120 - Two-Dimensional Design

ART2260 - Intermediate Portfolio Preparation - 2 - Credits

Course Overview

Course Prefix
ART

Course Number
2260

Department
Art and Design

Course Title
Intermediate Portfolio Preparation

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Designed for sophomore students who will transfer to a four-year program or begin professional careers as artists. Course addresses photographing and assembling a digital portfolio and writing artist statements, cover letters, and resumes. Critical analysis skills will be built through a series of formal critiques. Required of all art majors.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

No Requirements

ART2400 - Introduction to Graphic Design - 3 - Credits

Course Overview

Course Prefix
ART

Course Number
2400

Department
Art and Design

Course Title
Introduction to Graphic Design

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course offers fundamental skills relevant to the discipline of graphic design. Through studio projects, students learn the vocabulary of visual communication design and become familiar with graphic design digital and analog production processes.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Admission to Art and Design department (this restriction applies to Logan Campus sections only)

Simple Requisites

Prerequisite

Type
Completion Requirement

Required

Complete ALL of the following Courses:

- ART1020 - Drawing I (BCA)
  AND ART1120 - Two-Dimensional Design
  AND ART1130 - Three-Dimensional Design

ART2500 - Advanced Photography - 3 - Credits

Course Overview

Course Prefix
ART

Course Number
2500

Department
Art and Design

Course Title
Advanced Photography

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
A continuation of ART 2810, the advanced course will further the skills and experiences of the photographer in technical controls, lighting and exposure. A greater emphasis will be placed on aesthetics and photographic style. The instructor will use lectures, demonstrations and reviews to help the student better understand the medium. An introduction to experimental photography and image enhancement processes will be explored. The student, in conjunction with the instructor, will develop a project that will be presented in portfolio form at the end of the semester. Emphasis will be placed on the aesthetic and presentation skills acquired during the class.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ART2810 - Photography I

ART2600 - Basic Sculpture - 3 - Credits

Course Overview

Course Prefix
ART

Course Number
2600

Department
Art and Design

Course Title
Basic Sculpture

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces students to additive and subtractive processes in the realization of sculptural ideas. Students are involved in carving, clay modeling, and construction projects.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Admission to Art and Design department; some sections may be available for non-majors (this restriction applies to Logan Campus sections only)

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ART1130 - Three-Dimensional Design

ART2650 - Introduction to Ceramics - 3 - Credits

Course Overview

Course Prefix
ART

Course Number
2650

Department
Art and Design

Course Title
Introduction to Ceramics

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces the basic processes of ceramics and the operation of the USU ceramics lab including hand-building, throwing, and firing.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Admission to Art and Design department; some sections may be available for non-majors (this restriction applies to Logan Campus sections only)

No Requirements

ART2660 - Intermediate Ceramics - 3 - Credits

Course Overview

Course Prefix
ART

Course Number
2660

Department
Art and Design

Course Title
Intermediate Ceramics

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Includes all the descriptions in ART 2650 course with an emphasis on throwing larger forms, extruded sculptural forms and Raku firing of wheel thrown forms.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

ART2680 - Introduction to Figure Drawing - 3 - Credits

Course Overview

Course Prefix
ART

Course Number
2680

Department
Art and Design

Course Title
Introduction to Figure Drawing

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This drawing course introduces students to the human figure as a subject. The course explores basic structure and surface anatomy, emphasizing observational drawing for greater accuracy and expression, and includes gestural and stationary poses of both draped and undraped models.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ART2110 - Drawing II

ART2690 - Introduction to Sculpting the Human Figure - 3 - Credits

Course Overview

Course Prefix
ART

Course Number
2690

Department
Art and Design

Course Title
Introduction to Sculpting the Human Figure

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces students to sculpting the human form in three-dimensions. Students create unique artworks using live models, anatomical study, and historical and contemporary approaches to the body. Students strengthen and expand their abilities in and comprehension of sculptural mediums.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

ART2700 - Fine Art Seminar - 0.5 - Credits

Course Overview

Course Prefix
ART

Course Number
2700

Department
Art and Design

Course Title
Fine Art Seminar

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
This seminar course is composed of lectures delivered by artists, designers, and scholars who visit USU as part of the Department of Art & Design visiting artist/ designer series.

Credit Hours

Credit Hours Min:
0.5

Contact Hours

Contact Hours Min:
0.5

Billing Hours

Billing Hours Min:
0.5

Lecture Hours

Lecture Hours Min:
0.5

Registration Restrictions

Admission to Art and Design department

No Requirements

ART2810 - Photography I - 3 - Credits

Course Overview

Course Prefix
ART

Course Number
2810

Department
Art and Design

Course Title
Photography I

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students learn essential digital photography skills, and camera operation through the employment of aperture, shutter speed, etc. Compositional and editorial skills within the photographic medium are fostered as well as the application of digital imaging software. Coursework concludes with a printed and digital portfolio.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Admission to Art and Design department; some sections may be available for non-majors (this restriction applies to Logan Campus sections only)

No Requirements

ART2830 - Photographic Technologies - 3 - Credits

Course Overview

Course Prefix
ART

Course Number
2830

Department
Art and Design

Course Title
Photographic Technologies

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course introduces students to the advanced practices of photographic technology. By exploring the creative potentials and properties of available photographic methods, students develop a comprehensive understanding of various techniques applicable to the medium. As a result, students will engage in a combination of lab management and technical support to the working environment of photographic facilities.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Admission to ART BS or Art - BA or ART BFA only

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ART2810 - Photography I

ART2900 - Introductory Internship/CO-OP - 3 - Credits

Course Overview

Course Prefix
ART

Course Number
2900

Department
Art and Design

Course Title
Introductory Internship/CO-OP

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Introductory level educational work experience in an internship/cooperative education position approved by the Department of Art.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Registration Restrictions

Admission to ART BS or ART BA or ART BFA only

No Requirements

ART2920 - Sophomore Independent Projects - 1 - 3 Credits

Course Overview

Course Prefix
ART

Course Number
2920

Department
Art and Design

Course Title
Sophomore Independent Projects

Grade Mode
Temporary Pass/Fail

Repeat Status
RP

Course Description
Sophomore-intermediate level problems in emphasis, medium, and idiom of student's choice. Student-planned projects, executed through individual initiative and scheduled consultation with instructor.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ART1020 - Drawing I (BCA)
  AND ART1120 - Two-Dimensional Design
  AND ART1130 - Three-Dimensional Design

ART3000 - Secondary Art Methods I - 3 - Credits

Course Overview

Course Prefix
ART

Course Number
3000

Department
Art and Design

Course Title
Secondary Art Methods I

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Focuses on developing art curricula by formulating objectives for teaching art history, art appreciation, and the making of art in the secondary schools. Required for art education majors.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Admission to Art: Art Education - BFA only

ART3050 - Japanese Calligraphy - 1 - Credits

Course Overview

Course Prefix
ART

Course Number
3050

Department
Art and Design

Cross-Listed Courses
JAPN3050 - Japanese Calligraphy

Course Title
Japanese Calligraphy

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Study of Japanese writing system through practicing the art of calligraphy.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

No Requirements

ART3100 - Art Education Seminar - 1 - Credits

Course Overview

Course Prefix
ART

Course Number
3100

Department
Art and Design

Course Title
Art Education Seminar

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This seminar investigates issues in visual art education, including evolving views on practices and changes in educational policy at the local, state and national levels. The seminar engages students in professional development including artistic, educational, research, and service projects.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Course Learning Objectives

Course Learning Outcomes

1. Students will be able to connect arts-based knowledge and skills with other fields and methods of inquiry.
2. Students will be able to develop and refine a portfolio documenting achievements as an educator, artist, scholar, leader and professional
3. Students will be able to collaboratively design and facilitate meaningful and engaging curriculum, exploring topics related to art education
4. Students will be able to build relationships with peers and actively engage in a variety of artistic, educational research and/or service projects that will help develop the professional competencies required of art education professionals
5. Students will understand that the constantly shifting landscape of arts education policy and contemporary issues at the local, state and national levels directly impacts practice a preservice art educators and will be able to develop and articulate clear perspectives on these issues
6. Students will be able to critically engage and reflect upon teaching praxis, considering the impacts of their work and self assessing strengths and areas for continued development

ART3200 - Painting II - 3 - Credits

Course Overview

Course Prefix
ART

Course Number
3200

Department
Art and Design

Course Title
Painting II

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Continuation of concepts and techniques covered in ART 2200, emphasizing more complex formal and conceptual problems.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Admission to ART BS or ART BA or ART BFA only

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ART2200 - Painting I

ART3220 - Screen Printing - 3 - Credits

Course Overview

Course Prefix
ART

Course Number
3220

Department
Art and Design

Course Title
Screen Printing

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Investigation of the basic processes employed in screen printing. Includes surface preparation, image preparation, drawing techniques, registration, and printing of the screen.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Admission to Art and Design department

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ART2230 - Basic Printmaking

ART3230 - Lithography - 3 - Credits

Course Overview

Course Prefix
ART

Course Number
3230

Department
Art and Design

Course Title
Lithography

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Investigation of the basic processes employed in lithography, including surface preparation, basic drawing techniques, registration, processing, and printing of the stone or plate, as well as photo, transfer, and color methods.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Admission to Art and Design department

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ART2230 - Basic Printmaking

ART3240 - Intaglio - 3 - Credits

Course Overview

Course Prefix
ART

Course Number
3240

Department
Art and Design

Course Title
Intaglio

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Investigation of the basic processes employed in intaglio, including acid (line etch, aquatint, lift grounds, soft ground) and nonacid (dry point, mezzotint, engraving) techniques, as well as transfer and color methods.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Admission to Art and Design department

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ART2230 - Basic Printmaking

ART3250 - Relief Prints - 3 - Credits

Course Overview

Course Prefix
ART

Course Number
3250

Department
Art and Design

Course Title
Relief Prints

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Introduction to relief printing, including woodcut, linoleum cut, and wood engraving.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Admission to Art and Design department

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ART2230 - Basic Printmaking

ART3260 - Introduction to Book Arts - 3 - Credits

Course Overview

Course Prefix
ART

Course Number
3260

Department
Art and Design

Course Title
Introduction to Book Arts

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Investigation into the basic processes and techniques employed in creating hand bound books. Includes exploring traditional and contemporary book forms and binding techniques, relating concept, form and context, incorporating image and text.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Admission to ART BS, ART BA, or ART BFA only

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ART1020 - Drawing I (BCA)
- ART1120 - Two-Dimensional Design
- ART1130 - Three-Dimensional Design
- ART2230 - Basic Printmaking

ART3270 - Color: Theory and Practice - 3 - Credits

Course Overview

Course Prefix
ART

Course Number
3270

Department
Art and Design

Course Title
Color: Theory and Practice

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Explores both the theory and application of color in the visual arts. Special emphasis placed on the development of applied color skills.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Admission to ART BS or ART BA or ART BFA only

No Requirements

ART3280 - Special Topics in Printmaking - 3 - Credits

Course Overview

Course Prefix
ART

Course Number
3280

Department
Art and Design

Course Title
Special Topics in Printmaking

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This is an advanced exploration of specific printmaking processes. Students develop skills through a progression of projects while increasing their awareness of conceptual concerns unique to printmaking through discussion and other activities.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Admission to a program in the Art and Design department

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ART2230 - Basic Printmaking

ART3300 - Clinical Experience I - 1 - Credits

Course Overview

Course Prefix
ART

Course Number
3300

Department
Art and Design

Course Title
Clinical Experience I

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
This course includes a 45-hour clinical practicum in middle or high schools, arranged by instructors and the Office of Field Experience in the School of Teacher Education and Leadership (TEAL).

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Registration Restrictions
Admission to Teacher Education BFA Art Education only.

No Requirements

ART3370 - Illustration Concepts - 3 - Credits

Course Overview

Course Prefix
ART

Course Number
3370

Department
Art and Design

Course Title
Illustration Concepts

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students learn to develop visual ideas for illustrations and carry an idea through the stage of roughs to a comprehensive and finished image, using both digital and traditional media.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Admission to Art: Graphic Design - BFA only

ART3400 - Typography - 3 - Credits

Course Overview

Course Prefix
ART

Course Number
3400

Department
Art and Design

Course Title
Typography

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Introductory graphic design course, dealing with concepts and principles related to the exploration of typography as an art and design element. Series of exercises designed to give students professional and philosophical look at aesthetic and functional use of type and related visual elements.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Admission to BFA only

No Requirements

ART3410 - History of Graphic Design Studio - 3 - Credits

Course Overview

Course Prefix
ART

Course Number
3410

Department
Art and Design

Course Title
History of Graphic Design Studio

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This hybrid history/studio course will study the history of the discipline of graphic design from its origins to the present day.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Admission to Art: Graphic Design - BFA

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ART2400 - Introduction to Graphic Design

ART3420 - Hashimoto Communication Arts Seminar - 1 - Credits

Course Overview

Course Prefix
ART

Course Number
3420

Department
Art and Design

Course Title
Hashimoto Communication Arts Seminar

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Lecture seminars by professional guest artists in illustration and graphic design.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

No Requirements

ART3610 - Intermediate Sculpture - 3 - Credits

Course Overview

Course Prefix
ART

Course Number
3610

Department
Art and Design

Course Title
Intermediate Sculpture

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Further development in the materials, techniques, and traditions of sculpture. Expands on specific explorations, such as modeling, construction, and carving. Emphasizes strong relationship between concept and the technical execution of a sculptural form.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Admission to ART BS, ART BA, or ART BFA only (this restriction applies to Logan Campus sections only)

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ART2600 - Basic Sculpture

ART3650 - Intermediate Ceramics: Handbuilding - 3 - Credits

Course Overview

Course Prefix
ART

Course Number
3650

Department
Art and Design

Course Title
Intermediate Ceramics: Handbuilding

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Application of traditional ceramic construction techniques to vessel and sculptural subjects.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Admission to Art BS, ART BA, or ART BFA only (this restriction applies to Logan Campus sections only)

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Earn a minimum grade (UG) of D in the following:

- ART2650 - Introduction to Ceramics

ART3660 - Intermediate Ceramics: Throwing on the Potter's Wheel - 3 - Credits

Course Overview

Course Prefix
ART

Course Number
3660

Department
Art and Design

Course Title
Intermediate Ceramics: Throwing on the Potter's Wheel

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Focuses on throwing and trimming techniques using the potter's wheel. Emphasizes production of multiples.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Admission to ART BS, ART BA, or ART BFA only (this restriction applies to Logan Campus sections only)

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ART2650 - Introduction to Ceramics

ART3700 - Elementary Art Methods - 3 - Credits

Course Overview

Course Prefix
ART

Course Number
3700

Department
Art and Design

Course Title
Elementary Art Methods

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course focuses on developing art curricula by formulating objectives for teaching art processes, art history, and art appreciation in the elementary schools. It also covers required preparation for a grade school teacher.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete at least 1 of the following courses:

- ELED3000 - Historical, Social, and Cultural Foundations of Education (CI)
  OR ART2200 - Painting I
  OR ART2230 - Basic Printmaking
  OR ART2400 - Introduction to Graphic Design
  OR ART2650 - Introduction to Ceramics
  OR ART2810 - Photography I

AND

- ***Completion of a minimum 45 credits***

ART3810 - Photography II - 3 - Credits

Course Overview

Course Prefix
ART

Course Number
3810

Department
Art and Design

Course Title
Photography II

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students gain experience in different areas relevant to the discipline of photography. Students demonstrate their developing skill concerning the technical knowledge and aesthetic basics of various styles of photography.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Admission to ART BS, ART BA, or ART BFA only

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ART2810 - Photography I

ART3825 - Analog Photography - 3 - Credits

Course Overview

Course Prefix
ART

Course Number
3825

Department
Art and Design

Course Title
Analog Photography

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Students explore traditional and historic analog photographic processes with an emphasis in black-and-white darkroom methods. Students advance technical, conceptual, and historical knowledge and develop a photographic voice through use of large format view cameras, film processing, and darkroom printing.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Admission to Art: Photography - BFA only; some sections may be available to non-majors

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ART2810 - Photography I

ART3830 - Documentary and Visual Storytelling - 3 - Credits

Course Overview

Course Prefix
ART

Course Number
3830

Department
Art and Design

Course Title
Documentary and Visual Storytelling

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course studies the practice, history, theory, ethics, and concerns of traditional and experimental documentary photography and visual storytelling. Students complete research-driven visual projects relevant to contemporary topical concerns.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Admission to the Art: Photography - BFA; some sections may be available to non-majors

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ART3810 - Photography II

Course Learning Objectives

Course Learning Outcomes

1. Understand the relationship and role of photography to social, economic, ecological, political and cultural realities.

2. Understand, analyze, and evaluate the history, ethics, current issues, and future direction of photographic art in context of traditional and experimental documentary practices.

3. Use the technology and equipment of the photographic discipline to successfully communicate complex ideas, experiences, and perspectives.

ART4000 - Secondary Art Methods II - 3 - Credits

Course Overview

Course Prefix
ART

Course Number
4000

Department
Art and Design

Course Title
Secondary Art Methods II

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Focuses on developing methodologies for presenting art concepts and techniques in the secondary schools.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Registration Restrictions
Admission to Art: Art Education - BFA only

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ART3000 - Secondary Art Methods I

ART4200 - Advanced Drawing and Painting Studio - 3 - 6 Credits

Course Overview

Course Prefix
ART

Course Number
4200

Department
Art and Design

Course Title
Advanced Drawing and Painting Studio

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Advanced individual painting and drawing projects. Students may use a variety of painting and drawing methods to execute a series of closely related paintings and drawings that are intended to develop a focused and personal portfolio.

Credit Hours

Credit Hours Min:
3

Credit Hours Max:
6

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
3

Contact Hours Max:
6

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
3

Billing Hours Max:
6

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
3

Lecture Hours Max:
6

Lecture Hours Operator:
TO

Registration Restrictions
Admission to ART BS or ART BA or ART BFA only

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ART3200 - Painting II

ART4210 - Figure Drawing & Painting - 3 - Credits

Course Overview

Course Prefix
ART

Course Number
4210

Department
Art and Design

Course Title
Figure Drawing & Painting

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Students produce drawings and paintings from the subject of figure.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Admission to the Art - BA, Art - BS, or any Art - BFA program only

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ART2200 - Painting I

ART4220 - Landscape Drawing and Painting - 3 - Credits

Course Overview

Course Prefix
ART

Course Number
4220

Department
Art and Design

Course Title
Landscape Drawing and Painting

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course challenges students to draw and paint from the landscape subject matter both onsite (plein-air) and in the classroom. In addition to studio work, students research and study the history of artists who work from the landscape.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ART2200 - Painting I

Course Learning Objectives

Course Learning Outcomes

1. To sort and render complexity of light and space.

2. To work rapidly with ala-prima/plein-air painting techniques.

ART4250 - Advanced Printmaking Studio - 3 - Credits

Course Overview

Course Prefix
ART

Course Number
4250

Department
Art and Design

Course Title
Advanced Printmaking Studio

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course provides an in-depth investigation of one printmaking process with emphasis placed on both technical and aesthetic considerations.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Admission to the Art: Printmaking - BFA program

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete at least 1 of the following courses:

- ART3220 - Screen Printing
  OR ART3230 - Lithography
  OR ART3240 - Intaglio
  OR ART3250 - Relief Prints

ART4260 - Life Drawing - 3 - Credits

Course Overview

Course Prefix
ART

Course Number
4260

Department
Art and Design

Course Title
Life Drawing

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Drawing from live models with emphasis on exploring interpretation, techniques, and compositional approach.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Admission to ART BS, ART BA, or ART BFA only

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ART2110 - Drawing II

ART4270 - Special Topics: Drawing and Painting - 3 - Credits

Course Overview

Course Prefix
ART

Course Number
4270

Department
Art and Design

Course Title
Special Topics: Drawing and Painting

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Focuses on various issues in the field of drawing and painting. Allows students to pursue production of their own creative endeavors related to the topic of the course. Course content varies from semester to semester.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Admission to any of these three programs: Art - BS, Art - BA, or Art BFA

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ART2200 - Painting I
  AND ART3200 - Painting II

ART4300 - Clinical Experience II - 1 - Credits

Course Overview

Course Prefix
ART

Course Number
4300

Department
Art and Design

Course Title
Clinical Experience II

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
This course includes a 45-hour clinical practicum in middle or high schools, arranged by instructors and the Office of Field Experience in the School of Teacher Education and Leadership (TEAL).

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Registration Restrictions

Admission to Art: Art Education - BFA only

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ART3300 - Clinical Experience I

ART4410 - Graphic Interface Design I - 3 - Credits

Course Overview

Course Prefix
ART

Course Number
4410

Department
Art and Design

Course Title
Graphic Interface Design I

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Concentrates on development of graphic design techniques and theories necessary to create successful graphical user interfaces. Students explore aesthetic and functional uses of motion, sound, interactivity, information architecture, branding, and typography as they relate to graphic interface design.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Registration Restrictions
Admission to Art: Graphic Design - BFA only

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:
- ART3400 - Typography

ART4420 - Brand Identity Design - 3 - Credits

Course Overview

Course Prefix
ART

Course Number
4420

Department
Art and Design

Course Title
Brand Identity Design

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Advanced studio course focusing on the visual expression of a brand. Students study the design and application of trademarks/logos, related brand strategies, positioning, and processes of research and analysis. Students complete a series of symbol design and application projects.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Registration Restrictions
Admission to Art: Art Education - BFA only

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:
- ART3400 - Typography

ART4425 - Advanced Branding/Packaging Design - 3 - Credits

Course Overview

Course Prefix
ART

Course Number
4425

Department
Art and Design

Course Title
Advanced Branding/Packaging Design

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course explores the application of a visual brand to a three-dimensional package. Topics addressed include: brand architecture, brand reinvention, personality packaging, sustainable packaging, systems packaging, asset development, market positioning, container function/aesthetics, innovation process, sketching for visualization/presentation and comprehensive production.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Admission to Art: Graphic Design - BFA only

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ART4420 - Brand Identity Design

ART4430 - Graphic Interface Design II - 3 - Credits

Course Overview

Course Prefix
ART

Course Number
4430

Department
Art and Design

Course Title
Graphic Interface Design II

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Advanced graphic design course exploring dynamic interactivity. Students take a professional and philosophical look at the use of multimedia as it relates to business and society. Emphasizes research and the exploration of innovative ideas using interactive interface as a vehicle for communicating information.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Admission to Art: Graphic Design - BFA only

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ART4410 - Graphic Interface Design I

ART4440 - Type, Image, and Visual Continuity - 3 - Credits

Course Overview

Course Prefix
ART

Course Number
4440

Department
Art and Design

Course Title
Type, Image, and Visual Continuity

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Examines the application of design theory and process to complex information organization systems. Focuses on relationships between typography, imagery, and visual continuity. Students design varied text-intensive publications and image-intensive poster projects.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Admission to Art: Graphic Design - BFA only

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:
- ART3400 - Typography

ART4445 - Book Cover Design - 3 - Credits

Course Overview

Course Prefix
ART

Course Number
4445

Department
Art and Design

Course Title
Book Cover Design

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course explores the application of visual communication design theory and principles to book cover design. Specific focuses: designing for content, author and publisher; design that arrests the browsing consumer; pushing boundaries of tradition.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Admission to Art: Graphic Design - BFA only

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:
- ART4440 - Type, Image, and Visual Continuity

ART4450 - Senior Capstone - 3 - Credits

Course Overview

Course Prefix
ART

Course Number
4450

Department
Art and Design

Course Title
Senior Capstone

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This capstone course builds students' job-seeking portfolios through lectures, critiques and studio work. The course culminates in the annual Senior BFA Exhibition.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Admission to Art: Graphic Design - BFA only

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ART4410 - Graphic Interface Design I
  AND ART4420 - Brand Identity Design
  AND ART4440 - Type, Image, and Visual Continuity

ART4455 - Advanced Typography - 3 - Credits

Course Overview

Course Prefix
ART

Course Number
4455

Department
Art and Design

Course Title
Advanced Typography

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course offers advanced projects with a focus on typography. Projects cover topics including typeface design, type as image, and advanced editorial layout and typesetting. Projects focus on theoretical concerns along with research development.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ART4440 - Type, Image, and Visual Continuity

ART4460 - Motion Design - 3 - Credits

Course Overview

Course Prefix
ART

Course Number
4460

Department
Art and Design

Course Title
Motion Design

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
An exploration of motion and time as it applies to visual communication in linear narratives. Examines the basic principles of digital video capture, editing for broadcast and film; covers the integration of motion graphics and sound within these formats. May be repeated for up to 6 credits.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Registration Restrictions

Admission to Art: Graphic Design - BFA only

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ART4440 - Type, Image, and Visual Continuity

ART4470 - Special Topics in Graphic Design I - 1 - 9 Credits

Course Overview

Course Prefix
ART

Course Number
4470

Department
Art and Design

Course Title
Special Topics in Graphic Design I

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Focuses on various issues in the field of visual communications design. Allows students to pursue production of digital and traditional projects related to the topic of the course. Content of this studio course varies from semester to semester.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
9

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
9

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
9

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
9

Lecture Hours Operator:
TO

Registration Restrictions

Admission to Art: Graphic Design - BFA only

Special Approval

No Requirements

ART4475 - Special Topics in Graphic Design II - 1 - 9 Credits

Course Overview

Course Prefix
ART

Course Number
4475

Department
Art and Design

Course Title
Special Topics in Graphic Design II

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Focuses on various issues in the field of visual communications design. Allows students to pursue production of digital and traditional projects related to the topic of the course. Content of this studio course varies from semester to semester.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
9

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
9

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
9

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
9

Lecture Hours Operator:
TO

Registration Restrictions

Admission to Art: Graphic Design - BFA only

No Requirements

ART4610 - Sculpture Projects - 3 - Credits

Course Overview

Course Prefix
ART

Course Number
4610

Department
Art and Design

Course Title
Sculpture Projects

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Develops skills in a particular sculptural methodology. Investigates genres of public sculpture, installation, and advanced modeling, from traditional to contemporary. Stresses ideas based in a broader context of social and cultural issues.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Registration Restrictions

Admission to ART BS, ART BA or ART BFA only

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ART3610 - Intermediate Sculpture

ART4620 - Sculpture Seminar - 3 - Credits

Course Overview

Course Prefix
ART

Course Number
4620

Department
Art and Design

Course Title
Sculpture Seminar

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Designed to focus on and challenge current assumptions in regard to contemporary issues in sculpture.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Admission to ART BS or ART BA or ART BFA only

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:
- ART4660 - Advanced Sculpture Studio

ART4630 - Figure Study for Sculpture - 3 - Credits

Course Overview

Course Prefix
ART

Course Number
4630

Department
Art and Design

Course Title
Figure Study for Sculpture

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course focuses on creating sculpture from observations of the human figure, sculpting from live models. Students will also become familiar with some important figurative sculptors and consider issues facing the creating of figurative sculpture in a contemporary art context.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Admission to ART BS or ART BA or ART BFA only

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:
- ART2600 - Basic Sculpture

ART4640 - Technology of Ceramic Art - 3 - Credits

Course Overview

Course Prefix
ART

Course Number
4640

Department
Art and Design

Course Title
Technology of Ceramic Art

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Selected topics in aesthetics and technology of ceramic art, including ceramic history, glaze chemistry and calculation, firing techniques, kiln design and construction, etc. Students enrolling for more than 3 credits arrange credit for directed studies in specific topics.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Registration Restrictions

Admission to ART BS or ART BA or ART BFA only

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ART3650 - Intermediate Ceramics: Handbuilding **AND** ART3660 - Intermediate Ceramics: Throwing on the Potter's Wheel

ART4650 - Advanced Ceramic Studio - 3 - 6 Credits

Course Overview

Course Prefix
ART

Course Number
4650

Department
Art and Design

Course Title
Advanced Ceramic Studio

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Provides time, equipment, and facilities for advanced students to pursue directed studies leading to personal expression through ceramic media. To be repeated during at least four semesters by art majors with ceramics emphasis.

Credit Hours

Credit Hours Min:
3

Credit Hours Max:
6

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
3

Contact Hours Max:
6

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
3

Billing Hours Max:
6

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
3

Lecture Hours Max:
6

Lecture Hours Operator:
TO

Registration Restrictions

Admission to ART BS or ART BA or ART BFA only

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ART3650 - Intermediate Ceramics: Handbuilding **AND** ART3660 - Intermediate Ceramics: Throwing on the Potter's Wheel

ART4660 - Advanced Sculpture Studio - 1 - 9 Credits

Course Overview

Course Prefix
ART

Course Number
4660

Department
Art and Design

Course Title
Advanced Sculpture Studio

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Advanced directed study in specific technical, aesthetic, and/or conceptual issues in sculpture.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
9

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
9

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
9

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
9

Lecture Hours Operator:
TO

Registration Restrictions

Admission to ART BS or ART BA or ART BFA only

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ART4610 - Sculpture Projects

ART4820 - Special Topics in Photography - 3 - Credits

Course Overview

Course Prefix
ART

Course Number
4820

Department
Art and Design

Course Title
Special Topics in Photography

Grade Mode
Standard Letter

Repeat Status
RP

Course Description

This Special Topics course focuses on various issues in the field of photography and visual methodologies. It allows students to pursue production of photographic work and visual research related to the topic of the course. Content varies semester to semester.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Admission to the Art: Photography - BFA; some sections may be available to non-majors

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ART3810 - Photography II

Course Learning Objectives

Course Learning Outcomes

1. Advancement and refinement of skills for building relevant, contemporary art making and photographic research.

ART4835 - Theory of Photography - 3 - Credits

Course Overview

Course Prefix
ART

Course Number
4835

Department
Art and Design

Course Title
Theory of Photography

Grade Mode
Standard Letter

Repeat Status
NR

Course Description

This course studies comprehensive and critical readings, screenings, and exhibition visits surrounding the medium of photography. Emphasis is focused on the aesthetic and conceptual implications of current lens-based practices, particularly photography's relationship to contemporary art, culture, politics, commerce, science, history, and social concerns.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Registration Restrictions

Admission to ART BS or ART BA or ART BFA only

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ANY of the following Courses:

- ART3810 - Photography II
  OR ART3825 - Analog Photography

ART4865 - Nineteenth Century Photographic Processes - 3 - Credits

Course Overview

Course Prefix
ART

Course Number
4865

Department
Art and Design

Course Title
Nineteenth Century Photographic Processes

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Intensive study and practice of traditional and alternative photographic processes highlighting technological developments relevant to the history of photography. Producton of a variety of different printing techniques. Emphasis on technical control, research and portfolio building.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Admission to Art: Photography - BFA only

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:
- ART3810 - Photography II

ART4875 - Studio Lighting - 3 - Credits

Course Overview

Course Prefix
ART

Course Number
4875

Department
Art and Design

Course Title
Studio Lighting

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course explores the photographic studio and principles of applied lighting. Students work in a professional lighting studio environment and in the field with state-of-the-art digital cameras and imaging software.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Admission to Art: Photography - BFA only

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ANY of the following Courses:
- ART3810 - Photography II
  OR ART3825 - Analog Photography

ART4885 - Advanced Photography Studio - 3 - Credits

Course Overview

Course Prefix
ART

Course Number
4885

Department
Art and Design

Course Title
Advanced Photography Studio

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Students focus on refining skills for building long term, in-depth, research-driven photographic projects. Photography majors must repeat this course three times in sequence.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Repeatable for Credit:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ART3810 - Photography II
  AND ART3825 - Analog Photography

OR

Required

Complete ALL of the following Courses:

- ART4835 - Theory of Photography

ART4900 - Advanced Internship/Coop - 1 - 3 Credits

Course Overview

Course Prefix
ART

Course Number
4900

Department
Art and Design

Course Title
Advanced Internship/Coop

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Internship/cooperative education work experience in art. For those students needing complexity and a more professional level of experience in the workplace.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

Registration Restrictions
Admission to the ART BS, ART BA, or BFA

Special Approval
Instructor permission

No Requirements

ART4910 - BFA Professional Practice - 1 - Credits

Course Overview

Course Prefix
ART

Course Number
4910

Department
Art and Design

Course Title
BFA Professional Practice

Grade Mode
Pass/Fail

Repeat Status
NR

Course Description
Students learn fundamentals of professional practice in preparation for graduation. This course is required for all art education, ceramics, drawing & painting, photography, printmaking, and sculpture BFA candidates.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Registration Restrictions
Admission to a BFA program and junior or senior status

Special Approval
Advisor permission

No Requirements

ART4915 - Senior BFA Exhibition - 1 - Credits

Course Overview

Course Prefix
ART

Course Number
4915

Department
Art and Design

Course Title
Senior BFA Exhibition

Grade Mode
Pass/Fail

Repeat Status
NR

Course Description
Students learn about proper exhibition procedures and organize an exhibit of their own artwork. This course is required for all art education, ceramics, drawing and painting, photography, printmaking, and sculpture BFA candidates.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Registration Restrictions
Senior standing and BFA candidates only. Advisor permission

Special Approval

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ART4910 - BFA Professional Practice

ART4920 - Independent Projects - 1 - 9 Credits

Course Overview

Course Prefix
ART

Course Number
4920

Department
Art and Design

Course Title
Independent Projects

Grade Mode
Temporary Standard Letter

Repeat Status
RP

Course Description
Student-planned projects, executed through individual initiative and scheduled consultation with instructor.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
9

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
9

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
9

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
9

Lecture Hours Operator:
TO

Registration Restrictions
Admission to ART BS or ART BA or ART BFA only

Special Approval
Instructor permission

No Requirements

ART5480 - Special Topics Art and Design - 1 - 6 Credits

Course Overview

Course Prefix
ART

Course Number
5480

Department
Art and Design

Dual-Listed Courses
ART6480 - Special Topics Art and Design

Course Title
Special Topics Art and Design

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course focuses on various issues in art and design and allows advanced undergraduate students to pursue production of their own creative work related to the topic of the course. Course content may vary by semester. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
6

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
6

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
6

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
6

Lecture Hours Operator:
TO

Registration Restrictions
Admission to ART BS, ART BA, or ART BFA only

No Requirements

ART5500 - Student Teaching Seminar - 2 - Credits

Course Overview

Course Prefix
ART

Course Number
5500

Department
Art and Design

Course Title
Student Teaching Seminar

Grade Mode
Pass/Fail

Repeat Status
NR

Course Description
Capstone seminar focused upon student teaching issues, professional development, and principles of effective instruction, emphasizing a reflective methodology.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Registration Restrictions

- Admission to Teacher Education
- Admission to Elementary Education or Secondary Education Student Teaching

ART5630 - Student Teaching in Secondary Schools - 10 - Credits

Course Overview

Course Prefix
ART

Course Number
5630

Department
Art and Design

Course Title
Student Teaching in Secondary Schools

Grade Mode
Pass/Fail

Repeat Status
NR

Course Description
Thirteen-week culminating practicum in which students assume full-time teaching responsibilities under direction of cooperating teachers in major and minor fields.

Credit Hours

Credit Hours
Min:
10

Contact Hours

Contact Hours
Min:
10

Billing Hours

Billing Hours
Min:
10

Lecture Hours

Lecture Hours
Min:
10

Registration Restrictions

Admission to Teacher Education and Admission to Elementary Education or Secondary Education Student Teaching

ART6100 - Design Strategies for Film, Broadcast, and Advertising - 3 - Credits

Course Overview

Course Prefix
ART

Course Number
6100

Department
Art and Design

Course Title
Design Strategies for Film, Broadcast, and Advertising

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course focuses on the strategic design process for motion graphics in visual media. Students learn to interpret client briefs, develop concepts, and create assets for film, broadcast, advertising, and promotional content tailored to professional standards.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Registration Restrictions
Admission to Motion Design - MA only.

Course Learning Objectives

Course Learning Outcomes
1. Develop strategies for interpreting client briefs and translating them into motion design concepts.
2. Master techniques for creating compelling visuals tailored to broadcast, advertising, and digital platforms.
3. Explore creative workflows for developing motion graphics campaigns that meet industry standards.
4. Create motion-ready projects showcasing advanced design strategies in motion media.
5. Critique and refine motion design solutions for diverse audiences and contexts.
6. Introduce and explore foundational 2D motion methodologies and technologies.
7. Gain proficiency with industry-standard software such as Adobe After Effects and other animation software.
8. Learn to make animated content that is engaging and adheres to design principles.
9. Produce work that is portfolio-worthy.

ART6110 - 2D Motion Studio - 3 - Credits

Course Overview

Course Prefix
ART

Course Number
6110

Department
Art and Design

Course Title
2D Motion Studio

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces students to the foundational principles of 2D motion graphics and animation. Students explore creative approaches and develop skills in industry-standard software and techniques to produce engaging and innovative work.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Registration Restrictions
Admission to Motion Design - MA only.

ART6120 - Kinetic Brand Identity Studio - 3 - Credits

Course Overview

Course Prefix
ART

Course Number
6120

Department
Art and Design

Course Title
Kinetic Brand Identity Studio

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course emphasizes creative problem-solving, design innovation, and the application of branding principles in contemporary digital media. Students develop comprehensive brand systems and bring them to life through engaging animation, creating cohesive and visually compelling assets.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Admission to -Motion Design - MA only.

Simple Requisites

Prerequsite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ART6100 - Design Strategies for Film, Broadcast, and Advertising
  AND ART6110 - 2D Motion Studio

Course Learning Objectives

Course Learning Outcomes

1. Create motion branding assets, including animated logos, transitions, and iconography.

2. Develop cohesive motion identities that align with brand messaging.

3. Explore advanced techniques for integrating typography and motion in branding.

4. Design professional-level branding campaigns for diverse media platforms.

5. Produce portfolio-ready branding projects demonstrating innovation and creativity.

ART6125 - Digital Media Theory and Visual Culture - 3 - Credits

Course Overview

Course Prefix
ART

Course Number
6125

Department
Art and Design

Course Title
Digital Media Theory and Visual Culture

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course examines digital media's influence on communication, visual practices, and culture. Drawing on established theoretical texts, students apply media frameworks to critically analyze how technology shapes contemporary visual culture and society's evolving relationship with digital content creation.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ART6100 - Design Strategies for Film, Broadcast, and Advertising
- ART6110 - 2D Motion Studio

Course Learning Objectives

Course Learning Outcomes

1. Explore the relationship between digital media, cultural trends, and societal influences.
2. Apply theoretical frameworks, including semiotics and media ecology, to analyze visual content.
3. Critically evaluate the impact of digital technology on communication and design practices.
4. Examine contemporary visual culture through the lens of media theory.
5. Develop critical thinking and research skills to contextualize digital media within visual practices.

ART6130 - Advanced 2D Motion Studio - 3 - Credits

Course Overview

Course Prefix
ART

Course Number
6130

Department
Art and Design

Course Title
Advanced 2D Motion Studio

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course emphasizes animating complex 2D motion projects. Students focus on storytelling, pacing, and professional workflows to create compelling, narrative-driven motion graphics that showcase technical and creative expertise.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Admission to Motion Design - MA only.

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ART6100 - Design Strategies for Film, Broadcast, and Advertising
  AND ART6110 - 2D Motion Studio

Course Learning Objectives

Course Learning Outcomes

1. Develop and animate longer-form motion projects that emphasize narrative and cohesion.
2. Transition from static concepts and storyboards to fully realized animated designs.
3. Master advanced animation workflows for seamless, professional-quality motion graphics.
4. Explore the creative and technical challenges of pacing, structure, and storytelling in motion.
5. Build a portfolio of polished projects that demonstrate expertise in advanced 2D motion design.

ART6140 - Narrative Cinematography - 3 - Credits

Course Overview

Course Prefix
ART

Course Number
6140

Department
Art and Design

Course Title
Narrative Cinematography

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course explores contemporary cinematography. Students learn about lighting, camera movement, and shot composition. The course highlights how these techniques enhance narrative storytelling in commercial, broadcast, and digital media, preparing students for industry demands.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Admission to Motion Design - MA only.

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ART6100 - Design Strategies for Film, Broadcast, and Advertising
  AND ART6110 - 2D Motion Studio

Course Learning Objectives

Course Learning Outcomes

1. Build a portfolio showcasing professional-quality cinematographic storytelling.
2. Develop projects that demonstrate the ability to plan, shoot, and edit cinematic content.
3. Explore the principles of storytelling through visual language and narrative flow.
4. Master cinematography techniques, including lighting, shot composition, and camera movement

ART6150 - 3D Motion Studio - 3 - Credits

Course Overview

Course Prefix
ART

Course Number
6150

Department
Art and Design

Course Title
3D Motion Studio

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces the fundamentals of 3D motion graphics. Students learn to create 3D objects, environments, and scenes using industry-standard software. The course covers key concepts, including lighting, texturing, and modeling, emphasizing the creation of visually compelling 3D motion.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Admission to Motion Design - MA only.

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ART6100 - Design Strategies for Film, Broadcast, and Advertising
  AND ART6110 - 2D Motion Studio

ART6160 - Experimental Motion - 3 - Credits

Course Overview

Course Prefix
ART

Course Number
6160

Department
Art and Design

Course Title
Experimental Motion

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course explores experimental approaches to motion design, encouraging students to push creative boundaries by using unconventional techniques and emerging technologies. Students develop innovative projects that challenge traditional workflows and aesthetics.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Admission to Motion Design - MA only.

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ART6120 - Kinetic Brand Identity Studio
  AND ART6130 - Advanced 2D Motion Studio
  AND ART6140 - Narrative Cinematography
  AND ART6150 - 3D Motion Studio

Course Learning Objectives

Course Learning Outcomes

1. Build a body of work showcasing original and boundary-pushing motion design work.
2. Embrace creative risk-taking to produce innovative and thought-provoking motion graphics.
3. Investigate the use of generative design, mixed media, and procedural animation.
4. Develop experimental projects that challenge traditional workflows and aesthetics.
5. Explore unconventional techniques and mediums in motion design.

ART6170 - Advanced 3D Motion Studio - 3 - Credits

Course Overview

Course Prefix
ART

Course Number
6170

Department
Art and Design

Course Title
Advanced 3D Motion Studio

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course focuses on advanced 3D motion design, including modeling, animation, and physics simulations. Students explore physics dynamics, lighting, and rendering to create technically sophisticated projects with strong visual impact.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Admission to Motion Design - MA only.

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ART6120 - Kinetic Brand Identity Studio
  AND ART6130 - Advanced 2D Motion Studio
  AND ART6140 - Narrative Cinematography
  AND ART6150 - 3D Motion Studio

Course Learning Objectives

Course Learning Outcomes

1. Develop advanced 3D motion projects that integrate modeling, animation, and physics simulations.

2. Explore creative workflows to produce cohesive, professional-quality 3D motion designs.

3. Refine technical and storytelling skills for complex, polished projects.

4. Develop body of work showcasing innovative and technically advanced 3D motion graphics.

ART6180 - Motion Design Thesis - 3 - Credits

Course Overview

Course Prefix
ART

Course Number
6180

Department
Art and Design

Course Title
Motion Design Thesis

Grade Mode
Standard Letter

Repeat Status
NR

Course Description

This capstone course includes a thesis project and curated motion reel. Students conduct research, refine their work, and prepare a portfolio showcasing their strongest, industry-ready projects.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Admission to Motion Design - MA only.

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ART6120 - Kinetic Brand Identity Studio
  AND ART6130 - Advanced 2D Motion Studio
  AND ART6140 - Narrative Cinematography
  AND ART6150 - 3D Motion Studio

Course Learning Objectives

Course Learning Outcomes

1. Develop a comprehensive motion design thesis project that demonstrates mastery of the field.
2. Craft a professional-quality motion reel that highlights the strongest work completed throughout the program.
3. Conduct independent research to inform creative and technical decision-making.
4. Synthesize feedback to refine and present a portfolio-ready thesis and motion reel to peers, faculty, and industry professionals.
5. Apply advanced technical, conceptual, and problem-solving skills to create a polished final project.

ART6200 - Graduate Drawing and Painting Studio - 1 - 9 Credits

Course Overview

Course Prefix
ART

Course Number
6200

Department
Art and Design

Course Title
Graduate Drawing and Painting Studio

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Emphasizes individual attainment of personal conviction or direction in painting.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
9

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
9

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
9

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
9

Lecture Hours Operator:
TO

Registration Restrictions

Graduate status

No Requirements

ART6250 - Graduate Printmaking Studio - 1 - 9 Credits

Course Overview

Course Prefix
ART

Course Number
6250

Department
Art and Design

Course Title
Graduate Printmaking Studio

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Intensive individual production in advanced printmaking techniques.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
9

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
9

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
9

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
9

Lecture Hours Operator:
TO

Registration Restrictions
Graduate status

Special Approval
Instructor permission

No Requirements

ART6260 - Graduate Book Arts Studio - 3 - Credits

Course Overview

Course Prefix
ART

Course Number
6260

Department
Art and Design

Course Title
Graduate Book Arts Studio

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Investigation into advanced processes and techniques employed in creating hand bound books. Includes exploring traditional and contemporary book forms and binding techniques, relating concept, form, and context, incorporating image and text. Graduates investigate the book form as installation or interactive sculpture, and how relates to emphasis media.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

ART6400 - Graduate Graphic Design Studio - 3 - 9 Credits

Course Overview

Course Prefix
ART

Course Number
6400

Department
Art and Design

Course Title
Graduate Graphic Design Studio

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Graphic design problems leading to understanding of major concepts in this area.

Credit Hours

Credit Hours Min:
3

Credit Hours Max:
9

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
3

Contact Hours Max:
9

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
3

Billing Hours Max:
9

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
3

Lecture Hours Max:
9

Lecture Hours Operator:
TO

Registration Restrictions

Graduate status

No Requirements

ART6480 - Special Topics Art and Design - 1 - 6 Credits

Course Overview

Course Prefix
ART

Course Number
6480

Department
Art and Design

Dual-Listed Courses
ART5480 - Special Topics Art and Design

Course Title
Special Topics Art and Design

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course focuses on various issues in art and design and allows graduate students to pursue production of their own creative work related to the topic of the course. Course content may vary by semester. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
6

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
6

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
6

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
6

Lecture Hours Operator:
TO

Registration Restrictions

Admission to Art MA and Art MFA students only

No Requirements

ART6640 - Technology of Ceramic Art - 3 - Credits

Course Overview

Course Prefix
ART

Course Number
6640

Department
Art and Design

Course Title
Technology of Ceramic Art

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Selected topics in aesthetics and technology of ceramic art, including ceramic history, glaze chemistry and calculation, firing techniques, kiln design and construction, etc.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Registration Restrictions

Graduate status

No Requirements

ART6650 - Graduate Ceramic Studio - 3 - 9 Credits

Course Overview

Course Prefix
ART

Course Number
6650

Department
Art and Design

Course Title
Graduate Ceramic Studio

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Arranged to provide time, equipment, and facilities for graduate students to pursue directed studies. Tutorial format with group critiques.

Credit Hours

Credit Hours Min:
3

Credit Hours Max:
9

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
3

Contact Hours Max:
9

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
3

Billing Hours Max:
9

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
3

Lecture Hours Max:
9

Lecture Hours Operator:
TO

Registration Restrictions

Graduate status

No Requirements

ART6660 - Graduate Sculpture Studio - 3 - 9 Credits

Course Overview

Course Prefix
ART

Course Number
6660

Department
Art and Design

Course Title
Graduate Sculpture Studio

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Advanced individual problems in various media and technique.

Credit Hours

Credit Hours Min:
3

Credit Hours Max:
9

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
3

Contact Hours Max:
9

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
3

Billing Hours Max:
9

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
3

Lecture Hours Max:
9

Lecture Hours Operator:
TO

Registration Restrictions

Graduate status

No Requirements

ART6800 - Graduate Photography Studio - 3 - 9 Credits

Course Overview

Course Prefix
ART

Course Number
6800

Department
Art and Design

Course Title
Graduate Photography Studio

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Designed to cover several phases of photography, with emphasis on composing what we see in an artistic manner. Allows graduate students to further emphasize their thesis project area of study.

Credit Hours

Credit Hours Min:
3

Credit Hours Max:
9

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
3

Contact Hours Max:
9

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
3

Billing Hours Max:
9

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
3

Lecture Hours Max:
9

Lecture Hours Operator:
TO

Registration Restrictions

Graduate status

No Requirements

ART6900 - Professional Practices - 3 - Credits

Course Overview

Course Prefix
ART

Course Number
6900

Department
Art and Design

Course Title
Professional Practices

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Designed to familiarize graduate students with practical experiences shared by all studio disciplines, including researching opportunities, financing, and practicing a post-graduate career in the studio. Explores preparation of a portfolio, writing materials, and documentation of studio works for individualized application strategies. Details extensive research into employment possibilities, such as teaching, gallery and museum positions, and artist residencies.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Graduate status

No Requirements

ART6910 - Graduate Interdisciplinary Critique - 3 - Credits

Course Overview

Course Prefix
ART

Course Number
6910

Department
Art and Design

Course Title
Graduate Interdisciplinary Critique

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Focuses on current work of critique participants. Brings disciplinary analysis to specific problem.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Graduate status

No Requirements

ART6920 - Graduate Independent Projects in Art - 1 - 9 Credits

Course Overview

Course Prefix
ART

Course Number
6920

Department
Art and Design

Course Title
Graduate Independent Projects in Art

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Advanced problems in emphasis, medium, and idiom of student's choice. Student plans project and executes it through individual initiative and scheduled consultation with the instructor.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
9

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
9

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
9

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
9

Lecture Hours Operator:
TO

Registration Restrictions
Graduate status

Special Approval
Instructor permission

No Requirements

ART6940 - Graduate Internship/Coop - 1 - 9 Credits

Course Overview

Course Prefix
ART

Course Number
6940

Department
Art and Design

Course Title
Graduate Internship/Coop

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Internship/cooperative education work experience in art. Designed to allow graduate students to receive more complex and professional workplace experience.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
9

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
9

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
9

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
9

Lecture Hours Operator:
TO

Registration Restrictions
Graduate status

No Requirements

ART6970 - Research and Thesis - 3 - Credits

Course Overview

Course Prefix
ART

Course Number
6970

Department
Art and Design

Course Title
Research and Thesis

Grade Mode
Temporary Pass/Fail

Repeat Status
RP

Course Description
This course is designed for students preparing a master's degree thesis.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Registration Restrictions

Candidacy status

No Requirements

ART6990 - Continuing Graduate Advisement - 1 - 3 Credits

Course Overview

Course Prefix
ART

Course Number
6990

Department
Art and Design

Course Title
Continuing Graduate Advisement

Grade Mode
Temporary Pass/Fail

Repeat Status
RP

Course Description
This course provides graduate students with continued support and advisement. It is usually taken following completion of all coursework required for the degree.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

No Requirements

ARTH1270 - Native American Arts and Crafts - 3 - Credits

Course Overview

Course Prefix
ARTH

Course Number
1270

Department
Art and Design

Course Title
Native American Arts and Crafts

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Introduces prehistoric, historic, and contemporary Native American art forms and the underlying philosophical belief systems that gave rise to them. Goal is to provide basic principles for understanding and evaluating the artistic expression of Native Americans. Organized around geographical regions and cultural types.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

ARTH2710 - Survey of Western Art: Prehistoric to Medieval (BHU) - 3 - Credits

Course Overview

Course Prefix
ARTH

Course Number
2710

Department
Art and Design

Course Title
Survey of Western Art: Prehistoric to Medieval (BHU)

General Education Attribute
BHU

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course surveys prehistoric art through the end of the Gothic era.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Admission to Art and Design department students only; some sections may be available for non-majors (this restriction applies to Logan Campus sections only)

No Requirements

ARTH2720 - Survey of Western Art: Renaissance to Post-Modern (BHU) - 3 - Credits

Course Overview

Course Prefix
ARTH

Course Number
2720

Department
Art and Design

Course Title
Survey of Western Art: Renaissance to Post-Modern (BHU)

General Education Attribute
BHU

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course surveys Western Art of the Renaissance through post-modern periods.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Admission to Art and Design department students only; some sections may be available for non-majors (this restriction applies to Logan Campus sections only)

No Requirements

ARTH2730 - Art of the African Diaspora (BHU) - 3 - Credits

Course Overview

Course Prefix
ARTH

Course Number
2730

Department
Art and Design

Course Title
Art of the African Diaspora (BHU)

General Education Attribute
BHU

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Examination of the visual arts rooted in the broad experience of the of the global African diaspora from the 18th century onwards.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

ARTH3200 - Experiential Learning in Art History - Study Abroad - 1 - 3 Credits

Course Overview

Course Prefix
ARTH

Course Number
3200

Department
Art and Design

Course Title
Experiential Learning in Art History - Study Abroad

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Learning from travel-based experience in museums, galleries, and historic cities/ sites worldwide is an invaluable part of the education of artists, designers, and art historians. This course is designed to allow student to earn credit in structured, professor-led study aboard programs.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

ARTH3210 - Classical Mythology - 3 - Credits

Course Overview

Course Prefix
ARTH

Course Number
3210

Department
Art and Design

Cross-Listed Courses
CLAS3210 - Classical Mythology, ENGL3210 - Classical Mythology, HIST3210 - Classical Mythology, RELS3210 - Classical Mythology

Course Title
Classical Mythology

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces major myths of the Classical world and explores how these myths serve as keys to understanding the documents and arts of Classical civilization.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

ARTH3215 - Art of Ancient Greece (CI) - 3 - Credits

Course Overview

Course Prefix
ARTH

Course Number
3215

Department
Art and Design

Course Title
Art of Ancient Greece (CI)

General Education Attribute
CI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Course Description:This course teaches contexts and processes for the making and viewing of ancient Greek art. Using artwork as a lens for understanding the ancient Greeks, students will also consider the ongoing significance of classical culture in the modern age.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Admission to the Art major, Art History major, the Art History minor

Special Approval

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:
- ARTH2710 - Survey of Western Art: Prehistoric to Medieval (BHU)

ARTH3220 - The Art & Architecture of Ancient Rome (CI/DHA) - 3 - Credits

Course Overview

Course Prefix
ARTH

Course Number
3220

Department
Art and Design

Course Title
The Art & Architecture of Ancient Rome (CI/DHA)

General Education Attribute
CI, DHA

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course teaches contexts and processes for the making and viewing of ancient Roman art. Using artwork as a lens for understanding the ancient Romans, students also consider the ongoing significance of classical culture in the modern age.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Admission to the Art major, Art History major, or the Art History minor

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:
- ARTH2710 - Survey of Western Art: Prehistoric to Medieval (BHU)

ARTH3270 - Native North American Art (CI) - 3 - Credits

Course Overview

Course Prefix
ARTH

Course Number
3270

Department
Art and Design

Course Title
Native North American Art (CI)

General Education Attribute
CI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Through lectures, discussions, media, research, and museum engagement, students examine the peoples, lifeways, and material cultures of Native North America, exploring ancient traditions, artistic change following European contact, and selected contemporary practices.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Admission to Art or Art History programs.

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ARTH2710 - Survey of Western Art: Prehistoric to Medieval (BHU)
  AND ARTH2720 - Survey of Western Art: Renaissance to Post-Modern (BHU)

ARTH3295 - Latinx Art (CI/DHA) - 3 - Credits

Course Overview

Course Prefix
ARTH

Course Number
3295

Department
Art and Design

Course Title
Latinx Art (CI/DHA)

General Education Attribute
CI, DHA

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course teaches modern and postmodern art made by Americans of Latin American descent and/or artwork exploring the American experience through the lens of Latinx issues and concepts.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ARTH2710 - Survey of Western Art: Prehistoric to Medieval (BHU)
  AND ARTH2720 - Survey of Western Art: Renaissance to Post-Modern (BHU)

ARTH3310 - History of Asian Art: Ancient to Modern - 3 - Credits

Course Overview

Course Prefix
ARTH

Course Number
3310

Department
Art and Design

Course Title
History of Asian Art: Ancient to Modern

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course will introduce students to the arts of Asia from antiquity to the modern period.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ARTH2710 - Survey of Western Art: Prehistoric to Medieval (BHU)
  AND ARTH2720 - Survey of Western Art: Renaissance to Post-Modern (BHU)

ARTH3320 - Pre-Columbian Art (CI) - 3 - Credits

Course Overview

Course Prefix
ARTH

Course Number
3320

Department
Art and Design

Course Title
Pre-Columbian Art (CI)

General Education Attribute
CI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Through lectures, videos, discussions, research, and optional field trips, students gain familiarity with Native Meso-American, Central, and South American art, focusing on Pre-Columbian works while including selected contemporary Latin American art forms.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Admission to ART majors, and ARTH majors

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ARTH2710 - Survey of Western Art: Prehistoric to Medieval (BHU)
  AND ARTH2720 - Survey of Western Art: Renaissance to Post-Modern (BHU)

ARTH3340 - African Art (CI) - 3 - Credits

Course Overview

Course Prefix
ARTH

Course Number
3340

Department
Art and Design

Course Title
African Art (CI)

General Education Attribute
CI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Through lectures, videos, discussions, research, and field trips, students examine African arts across regions, emphasizing traditional small-scale societies, with limited contemporary examples and concluding lectures on contemporary African and African-American art.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Admission to Art majors, and Art History majors

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Earn a minimum grade (UG) of D in the following:

- ARTH2710 - Survey of Western Art: Prehistoric to Medieval (BHU)
  AND ARTH2720 - Survey of Western Art: Renaissance to Post-Modern (BHU)

ARTH3420 - Early Modern Art in Italy - 3 - Credits

Course Overview

Course Prefix
ARTH

Course Number
3420

Department
Art and Design

Course Title
Early Modern Art in Italy

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course covers Early Modern art history from around 1400 to 1650 with a particular focus on art and material culture produced in Rome and Florence. It combines lecture, discussion, research, and experiential learning during field trips.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ARTH2710 - Survey of Western Art: Prehistoric to Medieval (BHU)
- ARTH2720 - Survey of Western Art: Renaissance to Post-Modern (BHU)

ARTH3430 - Visual Cultures of the Global Early Modern - 3 - Credits

Course Overview

Course Prefix
ARTH

Course Number
3430

Department
Art and Design

Course Title
Visual Cultures of the Global Early Modern

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
The period between 1350 and 1600 saw the globalization of economies, religion, politics, and cultural production. This course explores art produced worldwide in this period through lecture, discussion, small-group activities, and online assignments.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Other Enrollment Recommendations

ARTH2710 SURVEY OF WESTERN ART (BHU) or AP Art History with a minimum score of 3.

Course Learning Objectives

Course Learning Outcomes

1. Develop general knowledge of early modern history and culture specifically in regard to the visual arts.

2. Understand the connection between “doing” early modern art history and questions of contemporary concern, such as cultural variation, religious intolerance, violence.

3. Improve writing and oral communications through both formal and informal, group and individual writing and presentations.

4. Build fundamental and transferable research skills.

ARTH3510 - Islamic Visual Cultures (CI/DHA) - 3 - Credits

Course Overview

Course Prefix
ARTH

Course Number
3510

Department
Art and Design

Cross-Listed Courses
RELS3510 - Islamic Visual Cultures (CI/DHA)

Course Title
Islamic Visual Cultures (CI/DHA)

General Education Attribute
CI, DHA

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Explores the emergence and development of Islamic visual cultures in Asia and around the Mediterranean between 622 and 1250.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ARTH2710 - Survey of Western Art: Prehistoric to Medieval (BHU)

ARTH3590 - Imaging Classical Warfare - 3 - Credits

Course Overview

Course Prefix
ARTH

Course Number
3590

Department
Art and Design

Course Title
Imaging Classical Warfare

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course teaches the visual rhetoric of classical warfare. Through surviving art and text, students learn about how ancients justified the horrors of war and how those tactics remain applicable in the present.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Other Enrollment Recommendations
ARTH2710 SURVEY OF WESTERN ART (BHU) ***or*** ARTH2720 SURVEY OF WESTERN ART (BHU)

Course Learning Objectives

Course Learning Outcomes
1. Build knowledge of art history, vocabulary, and methods.

2. Develop written and oral communication skills.

3. Develop critical thinking for the analysis of visual and textual evidence.

4. Gaining factual knowledge.

5. Gaining broader understanding & appreciation of intellectual/cultural activity.

6. Developing skills in expressing oneself orally or in writing.

ARTH3610 - Classical Art History: Greece and Rome (CI) - 3 - Credits

Course Overview

Course Prefix
ARTH

Course Number
3610

Department
Art and Design

Course Title
Classical Art History: Greece and Rome (CI)

General Education Attribute
CI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course focuses on the art of the ancient Mediterranean world with an emphasis on the Greek and Roman traditions. It is writing and reading intensive.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Admission to Art or Art History programs.

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ARTH2710 - Survey of Western Art: Prehistoric to Medieval (BHU)

ARTH3615 - Pompeii: Roman Domestic Art and Architecture (CI/DHA) - 3 - Credits

Course Overview

Course Prefix
ARTH

Course Number
3615

Department
Art and Design

Course Title
Pompeii: Roman Domestic Art and Architecture (CI/DHA)

General Education Attribute
CI, DHA

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course teaches ancient Roman art and architecture in the domestic context. Students learn about the everyday lives and environments of ordinary Romans, as evidenced in the archaeological remains of Pompeii, Herculaneum, and the Bay of Naples.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Special Approval

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ARTH2710 - Survey of Western Art: Prehistoric to Medieval (BHU)

ARTH3620 - Early Christian and Byzantine Art (DHA) - 3 - Credits

Course Overview

Course Prefix
ARTH

Course Number
3620

Department
Art and Design

Course Title
Early Christian and Byzantine Art (DHA)

General Education Attribute
DHA

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course focuses on the art of the periods between about 300-1000 CE in the Mediterranean and western Europe. There is no prerequisite but some prior knowledge of art history or history is advantageous.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ARTH2710 - Survey of Western Art: Prehistoric to Medieval (BHU)

ARTH3630 - Medieval Art (CI/DHA) - 3 - Credits

Course Overview

Course Prefix
ARTH

Course Number
3630

Department
Art and Design

Course Title
Medieval Art (CI/DHA)

General Education Attribute
CI, DHA

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Covers art and architecture in Europe between 450 and 1450, with an emphasis on cultural diversity and artistic variety. Study of the visual arts is complemented by readings in history and literature.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Admission to Art or Art History programs.

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ARTH2710 - Survey of Western Art: Prehistoric to Medieval (BHU)

ARTH3710 - Art, Culture and Crisis in Postwar Britain (CI) - 3 - Credits

Course Overview

Course Prefix
ARTH

Course Number
3710

Department
Art and Design

Course Title
Art, Culture and Crisis in Postwar Britain (CI)

General Education Attribute
CI

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Examination of visual culture in Britain during the years 1945-1960.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

ARTH3720 - Renaissance Art (CI) - 3 - Credits

Course Overview

Course Prefix
ARTH

Course Number
3720

Department
Art and Design

Course Title
Renaissance Art (CI)

General Education Attribute
CI

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This writing and reading-intensive course takes a comparative approach to Northern and Italian art in the period 1300-1550.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Admission to Art or Art History programs.

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ARTH2710 - Survey of Western Art: Prehistoric to Medieval (BHU)
  AND ARTH2720 - Survey of Western Art: Renaissance to Post-Modern (BHU)

ARTH3740 - Art of The Avant - Gardes: 1872 - 1945 (CI) - 3 - Credits

Course Overview

Course Prefix
ARTH

Course Number
3740

Department
Art and Design

Course Title
Art of The Avant - Gardes: 1872 - 1945 (CI)

General Education Attribute
CI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course examines the role of the avant-garde in developing new forms of visual art and artistic engagement from 1872 to 1945.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Admission to ART Majors, ARTH Majors

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ARTH2720 - Survey of Western Art: Renaissance to Post-Modern (BHU)

ARTH3750 - High-Modernism To Post - Modernism: 1945-1989 (CI) - 3 - Credits

Course Overview

Course Prefix
ARTH

Course Number
3750

Department
Art and Design

Course Title
High-Modernism To Post - Modernism: 1945-1989 (CI)

General Education Attribute
CI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course examines the aesthetic and theoretical shifts in global artistic productions, visual culture, and art criticism from 1945 to 1989.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Admission to Art or Art History programs.

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ARTH2720 - Survey of Western Art: Renaissance to Post-Modern (BHU)

ARTH3755 - Contemporary Art: 1989 to the present (CI) - 3 - Credits

Course Overview

Course Prefix
ARTH

Course Number
3755

Department
Art and Design

Course Title
Contemporary Art: 1989 to the present (CI)

General Education Attribute
CI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course will focus on the artistic production, visual culture, and theoretical development of the contemporary period, 1989 to the present, in a thematic investigation of the transition from modernism to postmodernism to contemporary.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Admission to Art or Art History programs.

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ARTH2720 - Survey of Western Art: Renaissance to Post-Modern (BHU)

ARTH3760 - American Art and Visual Culture (CI) - 3 - Credits

Course Overview

Course Prefix
ARTH

Course Number
3760

Department
Art and Design

Course Title
American Art and Visual Culture (CI)

General Education Attribute
CI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course examines the development of art and visual culture from the Colonial Period to WWII.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Admission to ART majors, ARTH majors

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ARTH2720 - Survey of Western Art: Renaissance to Post-Modern (BHU)

ARTH3780 - 19th Century European Art (CI) - 3 - Credits

Course Overview

Course Prefix
ARTH

Course Number
3780

Department
Art and Design

Course Title
19th Century European Art (CI)

General Education Attribute
CI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course examines nineteenth-century European art thematically, covering major movements from Neo-Classicism to Symbolism, and analyzes how art from roughly 1750–1914 both shaped and reflected the society in which it was produced.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ARTH2720 - Survey of Western Art: Renaissance to Post-Modern (BHU)

ARTH3820 - The History of Photography - 3 - Credits

Course Overview

Course Prefix
ARTH

Course Number
3820

Department
Art and Design

Course Title
The History of Photography

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course explores the history of photography from its earliest beginnings to the present day. Particular emphasis is placed on photography's intersection with social change and representations of reality.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Admission to a major in Art, Art History.

No Requirements

ARTH3840 - Race and Visual Culture (CI) - 3 - Credits

Course Overview

Course Prefix
ARTH

Course Number
3840

Department
Art and Design

Course Title
Race and Visual Culture (CI)

General Education Attribute
CI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Examination of ways in which visual culture constructs and represents racial identities.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Admission to ART majors, ARTH majors

No Requirements

ARTH3860 - LGBTQ History through Art and Visual Expression - 3 - Credits

Course Overview

Course Prefix
ARTH

Course Number
3860

Department
Art and Design

Course Title
LGBTQ History through Art and Visual Expression

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This interdisciplinary course explores the intersection of art history and LGBTQ+/Intersectional Gender studies. Students develop advanced disciplinary knowledge, skills in Art History/Visual Studies, curate an Online Exhibition, and use studio skills to create sequential, visual narratives as a learning modality.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ARTH2710 - Survey of Western Art: Prehistoric to Medieval (BHU)
  AND ARTH2720 - Survey of Western Art: Renaissance to Post-Modern (BHU)

Course Learning Objectives

Course Learning Outcomes

1. Contributing to collaborative online fora that functions as crowd-sourced nexus of ongoing debates and information-sharing hub verifying, a. application of discipline-based analytical and critical skills to course material b. effective communication in debated perspectives with peers c. ability to reflectively engage with instructor feedback.

2. Verifying student's oral communication skills through a 5-minute presentation of exhibition premise and a 10-minute guided tour of virtual exhibition, the term project's final component, verifying, a. clarity of narration, including volume, syntax, and tone b. clarity of exhibition premise, successfully relaying disciplinary methods and course concepts c. adherence to spatial and temporal limitations d. effective to creative use of media.

3. Produce an exhibition that clearly that clearly communicates a unifying thesis and argue on behalf of its significance via numerous textual, visual, and aural components. a. write a cohesive exhibition concept/didactic b. relate the significance of artists and works selected and their contribution to exhibition c. produce an audio presentation that summarizes exhibition concept and selection to a museum- going audience Course CI Criteria CI implementation ideas are applied to student term project ("virtual exhibition") and seven online Canvas discussions as follows: 1) Producing multiple drafts on components of course term project including, a. didactic describing premise of exhibition, approximately 250 words b. proposal presentation, approx. 1000 words, approx. 10 minutes (feedback only) c. formal/iconographic analyses of 10-12 selected works, approx. 2000 words d. script for guided audio-tour of virtual exhibition, approx. 3000 words, sourced from above components, modified for aural medium e. MP4 of guided audio-visual tour of virtual exhibition, approx. 10 minutes. 2a) Providing instructor edits on component term project drafts, two stratified deadlines per component verifying, a. correct grammar, spelling, punctuation, etc. b. correct application of disciplinary methods learned in class c. compelling application of course concepts/themes, eg the intersection of sequential, visual narrative art forms (e.g., graphic narratives, manga),visual culture studies and LGBTQ+/Intersectional Art History. 2b) Providing instructor comments on 7 online discussion forums verifying, a. correct grammar, spelling, punctuation, etc. b. correct application of disciplinary methods learned in class c. compelling application of course concepts/themes, eg the intersection of visual narrative art forms (e.g., graphic narratives, manga), visual culture studies and LGBTQ+/Intersectional Art History.

4. Research and compile relevant information for the purpose of curating a "virtual exhibition" on the USU art history webpage that engages an audience using historical and contemporary issues. a. use course material to direct and develop original visual/conceptual solutions to queries b. use library sources to grow expertise on a given concept c. use individualized meetings with and edits from instructor to further vision.

5. Gaining an appreciation for and knowledge of LGBTQ+/Intersectional art history, assessed via quizzes and exams. a. attending lectures on the intersection of sequential visual narrative art forms (e.g., graphic narratives, manga, comics) and LGBTQ+/Intersectional art history and the interdisciplinary knowledge, skills and issues in doing such work in art history and visual culture studies a. reading course materials on issues in queer manga and LGBTQ+ art history in art history b. reading studies on recent political, historical, and cultural phenomena and developments in LGBTQ+/Intersectional Gender history as these pertain to art history and visual culture studies b. Debating the role of LGBTQ+/Intersectional art history in the traditional canon of art history and the more contemporary field of visual culture studies in class and in online fora. c. compare and contrast existing theories on the importance of LGBTQ+/Intersectional art history, including sequential, visual narrative art forms, both in art history and visual studies c. debate the applicability of existing models of reception to sequential, visual narrative art forms and LGBTQ+/Intersectional art history in art history and visual studies d. debate the applicability of emergent academic theories on the intersection of popular sequential, visual narrative art forms (e.g., graphic narratives, manga) and LGBTQ+/Intersectional art history.

ARTH4210 - Celtic Europe - 3 - Credits

Course Overview

Course Prefix
ARTH

Course Number
4210

Department
Art and Design

Course Title
Celtic Europe

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
History of Celtic peoples in British Isles, Scandinavia, and continental Europe, from Neolithic times to the Norman Conquest in 1066.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

ARTH4260 - Latin American Art (CI/DHA) - 3 - Credits

Course Overview

Course Prefix
ARTH

Course Number
4260

Department
Art and Design

Course Title
Latin American Art (CI/DHA)

General Education Attribute
CI, DHA

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course teaches the modern and postmodern art of Latin America, and material production from the late 19th century to the present. Students also learn about Latin American culture in the context of the United States, regarded as Latina/o/x.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ARTH2710 - Survey of Western Art: Prehistoric to Medieval (BHU)
  AND ARTH2720 - Survey of Western Art: Renaissance to Post-Modern (BHU)

ARTH4520 - The Visual Cultures of Empire (CI) - 3 - Credits

Course Overview

Course Prefix
ARTH

Course Number
4520

Department
Art and Design

Course Title
The Visual Cultures of Empire (CI)

General Education Attribute
CI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
The course examines Western European visual culture over 200 years, analyzing how empire has been imagined and expressed visually since the early 19th century, focusing on cultural and creative articulations rather than social or political history.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Admission to ART majors, ARTH major

No Requirements

ARTH4710 - Feminist Theory and Practice in the Visual Arts (CI) - 3 - Credits

Course Overview

Course Prefix
ARTH

Course Number
4710

Department
Art and Design

Course Title
Feminist Theory and Practice in the Visual Arts (CI)

General Education Attribute
CI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course examines contemporary feminist theory and practice in the arts from the beginning of the women's movement in the 1960's to the present. Course takes an in-depth look at feminist manifestos and political protests, organizations and art education programs, art and aesthetics, critiques of art history and visual culture, and impact of the movement.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Admission to ART majors, ARTH majors, ARTH minors

Special Approval
Instructor permission

No Requirements

ARTH4725 - Contemporary Land, Earth, and Eco Art (CI) - 3 - Credits

Course Overview

Course Prefix
ARTH

Course Number
4725

Department
Art and Design

Course Title
Contemporary Land, Earth, and Eco Art (CI)

General Education Attribute
CI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course examines the history of contemporary Land, Earth, and Ecological/ Environmental Art from Earthworks created in the late 1960s and early 1970s to today's Ecological and Environmental Art movement.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Admission to ART majors, ARTH majors

No Requirements

ARTH4730 - Baroque and Rococo Art - 3 - Credits

Course Overview

Course Prefix
ARTH

Course Number
4730

Department
Art and Design

Course Title
Baroque and Rococo Art

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Development of painting, sculpture, and architecture in Europe from the late sixteenth through the eighteenth centuries.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ARTH2710 - Survey of Western Art: Prehistoric to Medieval (BHU)
  AND ARTH2720 - Survey of Western Art: Renaissance to Post-Modern (BHU)

ARTH4790 - Art History Seminar and Special Problems - 1 - 6 Credits

Course Overview

Course Prefix
ARTH

Course Number
4790

Department
Art and Design

Course Title
Art History Seminar and Special Problems

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Capstone course for art history emphasis area. Focuses on special topics in the discipline of art history. Allows students to develop advanced research projects related to the topic of the course. Covers critical theory and methods of art history research and writing.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
6

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
6

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
6

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
6

Lecture Hours Operator:
TO

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Completion of at least one Art History (ARTH) course at the 3000 level or above.

ARTH4800 - Directed Reading and Research in Art History - 1 - 3 Credits

Course Overview

Course Prefix
ARTH

Course Number
4800

Department
Art and Design

Course Title
Directed Reading and Research in Art History

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Directed reading, writing, and research in art history.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

Special Approval

Instructor permission

No Requirements

ARTH4810 - Museum Internship - 1 - 3 Credits

Course Overview

Course Prefix
ARTH

Course Number
4810

Department
Art and Design

Course Title
Museum Internship

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Through this course, advanced art history students may arrange for credit in conjunction with a local museum. Supervisor at museum oversees student's work. A faculty member in Art History oversees the written component, including portfolio, documentation, and research paper, depending on number of credits student is enrolled for.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

Special Approval

Instructor permission

No Requirements

ARTH4900 - Senior Capstone Research Seminar in Art History - 3 - Credits

Course Overview

Course Prefix
ARTH

Course Number
4900

Department
Art and Design

Course Title
Senior Capstone Research Seminar in Art History

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Current issues in art historical research and theory, emphasizing student-driven learning and original research. Topics may include the history of the discipline, ethical considerations, and methodologies.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Completion of one 3000 or 4000 level Art History (ARTH) course.

ARTH4910 - Senior Thesis in Art History and Visual Studies - 3 - Credits

Course Overview

Course Prefix
ARTH

Course Number
4910

Department
Art and Design

Course Title
Senior Thesis in Art History and Visual Studies

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
An intensive, one-on-one research-based course for advanced students in art history intended to facilitate the writing of a senior thesis.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Special Approval

Instructor signature

No Requirements

ARTH5310 - Common Threads: History of Fiber Arts (CI) - 3 - Credits

Course Overview

Course Prefix
ARTH

Course Number
5310

Department
Art and Design

Dual-Listed Courses
ARTH6310 - Common Threads: History of Fiber Arts

Course Title
Common Threads: History of Fiber Arts (CI)

General Education Attribute
CI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Looking at the traditions of North and South Euro- and Native America, Europe, Asia and the Pacific Islands and Africa, this course will introduce students to some of the many ways fiber has been used. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Admission to Art and Art History majors only.

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ARTH2710 - Survey of Western Art: Prehistoric to Medieval (BHU)
  AND ARTH2720 - Survey of Western Art: Renaissance to

Post-Modern (BHU)

ARTH5410 - Art of Small Scale Cultures (CI) - 3 - Credits

Course Overview

Course Prefix
ARTH

Course Number
5410

Department
Art and Design

Dual-Listed Courses
ARTH6410 - Art of Small Scale Cultures

Course Title
Art of Small Scale Cultures (CI)

General Education Attribute
CI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students become familiar with a broad range of arts of native North, Meso, Central and South America, Africa, and the South Pacific regions.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

ARTH5430 - Curatorial Seminar - Rare Books and Manuscripts - 3 - Credits

Course Overview

Course Prefix
ARTH

Course Number
5430

Department
Art and Design

Dual-Listed Courses
ARTH6430 - Curatorial Seminar - Rare Books and Manuscripts

Course Title
Curatorial Seminar - Rare Books and Manuscripts

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Provides a wide-ranging introduction to the interdisciplinary field of book and manuscript studies, with an emphasis on the history of the book in the medieval and early modern eras. Organized around the collaborative curation of an exhibition. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Other Enrollment Recommendations
Consultation with the instructor is advised for those with no background in history, museum studies, literature, or art history.

No Requirements

ARTH5730 - The Art Museum - 3 - Credits

Course Overview

Course Prefix
ARTH

Course Number
5730

Department
Art and Design

Course Title
The Art Museum

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
The history of museums and display practice has become a significant field in studies of contemporary art and art history. Topics covered include: cabinets of curiosity and historical origins, art museums and their publics, blockbusters, revisionism, architecture, museums, and memory.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

ARTH5740 - Art and Religion: Topics in Sacred Art - 3 - Credits

Course Overview

Course Prefix
ARTH

Course Number
5740

Department
Art and Design

Cross-Listed Courses
RELS5740 - Art and Religion: Topics in Sacred Art

Course Title
Art and Religion: Topics in Sacred Art

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Discussion-based course investigating relationships between religion and the arts. May focus on any period of history or region of the world, depending on scholarly interests of instructor.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

ARTH6270 - Graduate Native North American Art - 3 - Credits

Course Overview

Course Prefix
ARTH

Course Number
6270

Department
Art and Design

Course Title
Graduate Native North American Art

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Through lectures, discussions, media, research, and museum engagement, students examine the peoples, lifeways, and material cultures of Native North America, exploring ancient traditions, artistic change following European contact, and selected contemporary practices.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

ARTH6310 - Common Threads: History of Fiber Arts - 3 - Credits

Course Overview

Course Prefix
ARTH

Course Number
6310

Department
Art and Design

Dual-Listed Courses
ARTH5310 - Common Threads: History of Fiber Arts (CI)

Course Title
Common Threads: History of Fiber Arts

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Looking at the traditions of North and South Euro- and Native America, Europe, Asia and the Pacific Islands and Africa, this course will introduce students to some of the many ways fiber has been used. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

ARTH6320 - Graduate Pre-Columbian Art - 3 - Credits

Course Overview

Course Prefix
ARTH

Course Number
6320

Department
Art and Design

Course Title
Graduate Pre-Columbian Art

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Through thematically oriented slide lectures, class discussions, online video, independent research, local event attendance and displays at NEHMA and the Anthropology Museum, the students will become familiar with several different art forms from Native Meso-, Central and South America. While we will be looking primarily at the art and architecture popularly termed "Pre-Columbian", I will also include some more contemporary forms of Latin American art.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Graduate status

No Requirements

ARTH6340 - Graduate African Art - 3 - Credits

Course Overview

Course Prefix
ARTH

Course Number
6340

Department
Art and Design

Course Title
Graduate African Art

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
The course introduces African arts from West, Central, North, East, and Southern regions through lectures, media, discussions, and museum displays, emphasizing traditional uses in daily life and concluding with contemporary African and African-American art.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

ARTH6410 - Art of Small Scale Cultures - 3 - Credits

Course Overview

Course Prefix
ARTH

Course Number
6410

Department
Art and Design

Dual-Listed Courses
ARTH5410 - Art of Small Scale Cultures (CI)

Course Title
Art of Small Scale Cultures

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students become familiar with a broad range of arts of native North, Meso, Central and South America, Africa, and the South Pacific regions. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

ARTH6430 - Curatorial Seminar - Rare Books and Manuscripts - 3 - Credits

Course Overview

Course Prefix
ARTH

Course Number
6430

Department
Art and Design

Dual-Listed Courses
ARTH5430 - Curatorial Seminar - Rare Books and Manuscripts

Course Title
Curatorial Seminar - Rare Books and Manuscripts

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Provides a wide-ranging introduction to the interdisciplinary field of book and manuscript studies, with an emphasis on the history of the book in the medieval and early modern eras. Organized around the collaborative curation of an exhibition. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Other Enrollment Recommendations
Consultation with the instructor is advised for those with no background in history, museum studies, literature, or art history.

No Requirements

ARTH6500 - Graduate Art History Section - 3 - Credits

Course Overview

Course Prefix
ARTH

Course Number
6500

Department
Art and Design

Course Title
Graduate Art History Section

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
A contract-based course for graduate students interested in studying upper-level art history to complement their degree program. Is particularly directed towards MFA students in the Department of Art and Design.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Graduate status

No Requirements

ARTH6510 - Graduate Islamic Visual Cultures c. 600-1500 - 3 - Credits

Course Overview

Course Prefix
ARTH

Course Number
6510

Department
Art and Design

Course Title
Graduate Islamic Visual Cultures c. 600-1500

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Graduate level study of Islamic art and visual culture from origins to the early modern period.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

ARTH6610 - Greek and Roman Art - 3 - Credits

Course Overview

Course Prefix
ARTH

Course Number
6610

Department
Art and Design

Course Title
Greek and Roman Art

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Origin and development of art and architecture of Crete, Mycenae, Greece, and the Roman world.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

ARTH6620 - Byzantine Art - 3 - Credits

Course Overview

Course Prefix
ARTH

Course Number
6620

Department
Art and Design

Course Title
Byzantine Art

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Focuses on the art and architecture of the Byzantine empire from late antiquity to the fifteenth century. In addition to including study of the visual arts, course incorporates readings in the history of religion and gender studies.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Other Enrollment Recommendations

ARTH2710 SURVEY OF WESTERN ART (BHU)

No Requirements

ARTH6630 - Graduate Medieval Art - 3 - Credits

Course Overview

Course Prefix
ARTH

Course Number
6630

Department
Art and Design

Course Title
Graduate Medieval Art

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Graduate level study of medieval art and visual culture from 400-1500.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

ARTH6720 - Graduate Renaissance Art - 3 - Credits

Course Overview

Course Prefix
ARTH

Course Number
6720

Department
Art and Design

Course Title
Graduate Renaissance Art

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Development of European art and architecture from the thirteenth to the sixteenth centuries.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Graduate status

No Requirements

ARTH6730 - Graduate Baroque and Rococo Art - 3 - Credits

Course Overview

Course Prefix
ARTH

Course Number
6730

Department
Art and Design

Course Title
Graduate Baroque and Rococo Art

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Development of art and architecture in Europe from the sixteenth to the eighteenth centuries.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Graduate status

No Requirements

ARTH6740 - Art of the Avant-Gardes: 1872-1945 - 3 - Credits

Course Overview

Course Prefix
ARTH

Course Number
6740

Department
Art and Design

Course Title
Art of the Avant-Gardes: 1872-1945

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course examines the role of the avant-garde in developing new forms of visual art and artistic engagement from 1872 to 1945.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ARTH2720 - Survey of Western Art: Renaissance to Post-Modern (BHU)

ARTH6750 - High - Modernism To Post-Modernism: 1945-1989 - 3 - Credits

Course Overview

Course Prefix
ARTH

Course Number
6750

Department
Art and Design

Course Title
High - Modernism To Post-Modernism: 1945-1989

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course examines the aesthetic and theoretical shifts in global artistic productions, visual culture, and art criticism from 1945 to 1989.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Graduate status

No Requirements

ARTH6755 - Contemporary Art: 1989 to the present - 3 - Credits

Course Overview

Course Prefix
ARTH

Course Number
6755

Department
Art and Design

Course Title
Contemporary Art: 1989 to the present

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course will focus on the artistic production, visual culture, and theoretical development of the contemporary period, 1989 to the present, in a thematic investigation of the transition from modernism to postmodernism to contemporary.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

ARTH6760 - American Art and Visual Culture - 3 - Credits

Course Overview

Course Prefix
ARTH

Course Number
6760

Department
Art and Design

Course Title
American Art and Visual Culture

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course examines the development of art and visual culture from the Colonial Period to WWII.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Graduate status

No Requirements

ARTH6770 - Graduate Gender Issues in Art - 3 - Credits

Course Overview

Course Prefix
ARTH

Course Number
6770

Department
Art and Design

Course Title
Graduate Gender Issues in Art

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Discussion of major issues and debates regarding gender in the visual arts. Topics include: revising the canon, representing gender, and theories of gender and spectatorship. Readings are discussed and applied to visual works of art.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

ARTH6790 - Art History Seminar and Special Problems - 1 - 6 Credits

Course Overview

Course Prefix
ARTH

Course Number
6790

Department
Art and Design

Course Title
Art History Seminar and Special Problems

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Focuses on special topics in the discipline of art history. Allows students to develop advanced research projects related to the topic of the course. Covers critical theory and methods of art history research and writing.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
6

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
6

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
6

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
6

Lecture Hours Operator:
TO

Registration Restrictions
Graduate status

Special Approval
Instructor permission

No Requirements

ARTH6900 - Graduate Seminar: Issues in Contemporary Art - 3 - Credits

Course Overview

Course Prefix
ARTH

Course Number
6900

Department
Art and Design

Course Title
Graduate Seminar: Issues in Contemporary Art

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Sessions devoted to select issues prevalent in contemporary art, including the body, the real, text, gender, display, and conceptualism. Requires intensive verbal and written participation.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

AS1010 - Heritage and Values - 1 - Credits

Course Overview

Course Prefix
AS

Course Number
1010

Department
Aerospace Studies

Course Title
Heritage and Values

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides an introduction to the Air Force and Space Force. Students examine leadership fundamentals, service benefits, and opportunities for officers in the Department of the Air Force (DAF).

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

AS1020 - Heritage and Values - 1 - Credits

Course Overview

Course Prefix
AS

Course Number
1020

Department
Aerospace Studies

Course Title
Heritage and Values

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces students to the role of the Department of the Air Force (DAF) in global security and how Airpower integrates into Department of Defense joint operations. Additionally, students study DAF official communication formats, available careers, professionalism, and standards.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

AS1110 - Leadership Laboratory I - 1 - Credits

Course Overview

Course Prefix
AS

Course Number
1110

Department
Aerospace Studies

Course Title
Leadership Laboratory I

Grade Mode
Pass/Fail

Repeat Status
NR

Course Description
Air Force customs and courtesies, drill and ceremonies, military commands, environment of the Air Force officer, and officer opportunities.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Registration Restrictions

Completed Air Force ROTC application.

Simple Requisites

Corequisite

Type
Corequisite

Required

Enroll in the following Courses:

- AS3060 - Physical Fitness Training

AS1120 - Leadership Laboratory I - 1 - Credits

Course Overview

Course Prefix
AS

Course Number
1120

Department
Aerospace Studies

Course Title
Leadership Laboratory I

Grade Mode
Pass/Fail

Repeat Status
NR

Course Description
Air Force customs and courtesies, drill and ceremonies, military commands, environment of the Air Force officer, and officer opportunities.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Registration Restrictions

Completed Air Force ROTC application.

Simple Requisites

Corequisite

Type
Corequisite

Required

Enroll in the following Courses:

- AS3060 - Physical Fitness Training

AS2010 - Team and Leadership Fundamentals I - 1 - Credits

Course Overview

Course Prefix
AS

Course Number
2010

Department
Aerospace Studies

Course Title
Team and Leadership Fundamentals I

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course examines team-building and the layers of leadership such as listening, understanding themselves, being a good follower, conflict management, and problem-solving. Students apply leadership through team-building projects and demonstration of effective communication skills.

Credit Hours

Credit Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

No Requirements

AS2020 - Team and Leadership Fundamentals II - 1 - Credits

Course Overview

Course Prefix
AS

Course Number
2020

Department
Aerospace Studies

Course Title
Team and Leadership Fundamentals II

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces students to topics such as problem solving, critical thinking, resiliency, and stress management. Students apply these lessons to prepare written and oral communications, as they further develop leadership and team-building skills.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

No Requirements

AS2110 - Leadership Laboratory II - 1 - Credits

Course Overview

Course Prefix
AS

Course Number
2110

Department
Aerospace Studies

Course Title
Leadership Laboratory II

Grade Mode
Pass/Fail

Repeat Status
NR

Course Description
Air Force customs and courtesies, drill and ceremonies, military commands, environment of the Air Force officer, and officer opportunities.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Registration Restrictions

Completed Air Force ROTC application.

Simple Requisites

Corequisite

Type
Corequisite

Required

Enroll in the following Courses:

- AS3060 - Physical Fitness Training

AS2120 - Leadership Laboratory II - 1 - Credits

Course Overview

Course Prefix
AS

Course Number
2120

Department
Aerospace Studies

Course Title
Leadership Laboratory II

Grade Mode
Pass/Fail

Repeat Status
NR

Course Description
Air Force customs and courtesies, drill and ceremonies, military commands, environment of the Air Force officer, and officer opportunities.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Registration Restrictions

Completed Air Force ROTC application.

Simple Requisites

Corequisite

Type
Corequisite

Required

Enroll in the following Courses:

- AS3060 - Physical Fitness Training

AS3010 - Leading People and Effective Communication I - 3 - Credits

Course Overview

Course Prefix
AS

Course Number
3010

Department
Aerospace Studies

Course Title
Leading People and Effective Communication I

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course is an exploration of effectively leading people and acquiring leadership tools, methods to hone writing and briefing skills to become confident communicators, and examines leadership ethics. Students complete projects associated with planning and managing the Leadership Laboratory.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

AS3020 - Leading People and Effective Communication II - 3 - Credits

Course Overview

Course Prefix
AS

Course Number
3020

Department
Aerospace Studies

Course Title
Leading People and Effective Communication II

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
In this course, students explore lessons in ethical decision-making, organizational climate, mentoring, and critical thinking. Students apply lessons, building written and oral communication skills, enhancing their leadership competency. Additionally, students complete projects associated with planning and managing Leadership Laboratory.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

AS3060 - Physical Fitness Training - 1 - Credits

Course Overview

Course Prefix
AS

Course Number
3060

Department
Aerospace Studies

Course Title
Physical Fitness Training

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
This course entails early morning workouts to build stamina. It is organized to keep cadets in shape to pass the Physical Fitness Test (PFT). Activities are team instructed.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Registration Restrictions

Completed Air Force ROTC application.

No Requirements

AS3110 - Leadership Laboratory III - 1 - Credits

Course Overview

Course Prefix
AS

Course Number
3110

Department
Aerospace Studies

Course Title
Leadership Laboratory III

Grade Mode
Pass/Fail

Repeat Status
NR

Course Description
Advanced leadership experiences to include the planning and controlling of cadet corps activities, and the preparation and presentation of briefings and other oral and written communications.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Registration Restrictions

Completed Air Force ROTC application.

Simple Requisites

Corequisite

Type
Corequisite

Required

Enroll in the following Courses:

- AS3060 - Physical Fitness Training

AS3120 - Leadership Laboratory III - 1 - Credits

Course Overview

Course Prefix
AS

Course Number
3120

Department
Aerospace Studies

Course Title
Leadership Laboratory III

Grade Mode
Pass/Fail

Repeat Status
NR

Course Description
This course provides students advanced leadership experiences, including the planning and controlling of cadet corps activities, and the preparation and presentation of briefings and other oral and written communications.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Registration Restrictions
Completed Air Force ROTC application.

Simple Requisites

Corequisite

Type
Corequisite

Required

Enroll in the following Courses:

- AS3060 - Physical Fitness Training

AS4010 - National Security and Preparation for Active Duty I - 3 - Credits

Course Overview

Course Prefix
AS

Course Number
4010

Department
Aerospace Studies

Course Title
National Security and Preparation for Active Duty I

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course examines national security policy, processes, defense operations, and military roles in society. It surveys command responsibility, authority, and functions, including military justice, and preparation for commissioning. Students complete projects associated with planning and managing the Leadership Laboratory.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

AS4020 - National Security and Preparation for Active Duty II - 3 - Credits

Course Overview

Course Prefix
AS

Course Number
4020

Department
Aerospace Studies

Course Title
National Security and Preparation for Active Duty II

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course examines policies associated with military operations, including leadership authority, joint ethics, and law of war. Students accomplish written and oral assignments to prepare them for commissioning. Additionally, students complete projects in planning and managing the Leadership Laboratory.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

AS4110 - Leadership Laboratory IV - 1 - Credits

Course Overview

Course Prefix
AS

Course Number
4110

Department
Aerospace Studies

Course Title
Leadership Laboratory IV

Grade Mode
Pass/Fail

Repeat Status
NR

Course Description
This course provides students advanced leadership experiences, including the planning and controlling of cadet corps activities, and the preparation and presentation of briefings and other oral and written communications.

Credit Hours

Credit Hours Min:
1

Contact Hours

Contact Hours Min:
1

Billing Hours

Billing Hours Min:
1

Lecture Hours

Lecture Hours Min:
1

Registration Restrictions
Completed Air Force ROTC application.

Simple Requisites

Corequisite

Type
Corequisite

Required

Enroll in the following Courses:

- AS3060 - Physical Fitness Training

AS4120 - Leadership Laboratory IV - 1 - Credits

Course Overview

Course Prefix
AS

Course Number
4120

Department
Aerospace Studies

Course Title
Leadership Laboratory IV

Grade Mode
Pass/Fail

Repeat Status
NR

Course Description
This course provides students Advanced leadership experiences, including the planning and controlling of cadet corps activities, and the preparation and presentation of briefings and other oral and written communications.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Registration Restrictions
Completed Air Force ROTC application.

Simple Requisites

Corequisite

Type
Corequisite

Required

Enroll in the following Courses:

- AS3060 - Physical Fitness Training

ASL1010 - American Sign Language I - 4 - Credits

Course Overview

Course Prefix
ASL

Course Number
1010

Department
Speech and Hearing Sciences

Course Title
American Sign Language I

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers basic production and comprehension of American Sign Language (ASL), including vocabulary, fingerspelling, numbers, ASL structure, and grammar. Basic conversation skills, culturally appropriate behaviors, and the history and culture of Deaf communities are included. The course requires weekly lab attendance.

Credit Hours

Credit Hours
Min:
4

Contact Hours

Contact Hours
Min:
4

Billing Hours

Billing Hours
Min:
4

Lecture Hours

Lecture Hours
Min:
4

Course Learning Objectives

Course Learning Outcomes

1. Describe basic grammatical concepts for ASL language structure.
2. Demonstrate basic receptive and expressive ASL communication skills, including fingerspelling, numbers, vocabulary, and grammar.
3. Show basic awareness of Deaf culture and history.

ASL1020 - American Sign Language II - 4 - Credits

Course Overview

Course Prefix
ASL

Course Number
1020

Department
Speech and Hearing Sciences

Course Title
American Sign Language II

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers intermediate production and comprehension of American Sign Language (ASL), including vocabulary, fingerspelling, numbers, ASL structure, and grammar. Intermediate skills in conversation, culturally appropriate behaviors, and the history and culture of Deaf communities are included. Weekly lab required.

Credit Hours

Credit Hours Min:
4

Contact Hours

Contact Hours Min:
4

Billing Hours

Billing Hours Min:
4

Lecture Hours

Lecture Hours Min:
4

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ASL1010 - American Sign Language I

Course Learning Objectives

Course Learning Outcomes

1. Describe a range of grammatical concepts for ASL language structure.
2. Demonstrate early intermediate receptive and expressive ASL communication skills, including fingerspelling, numbers, vocabulary, and grammar.
3. Show awareness of many aspects of Deaf culture and history.

ASL2010 - American Sign Language III - 4 - Credits

Course Overview

Course Prefix
ASL

Course Number
2010

Department
Speech and Hearing Sciences

Course Title
American Sign Language III

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers advanced production and comprehension of American Sign Language (ASL) and expands upon vocabulary, structure, and grammar covered in ASL II. Advanced conversation topics, culturally appropriate behaviors, history, and culture of Deaf communities are addressed.

Credit Hours

Credit Hours Min:
4

Contact Hours

Contact Hours Min:
4

Billing Hours

Billing Hours Min:
4

Lecture Hours

Lecture Hours Min:
4

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ASL1020 - American Sign Language II

Course Learning Objectives

Course Learning Outcomes

1. Develop expressive and receptive skills at an intermediate level.
2. Show accuracy and fluency in ASL grammar and vocabulary.
3. Apply classifiers and role shifting effectively in narratives.
4. Show understanding of Deaf culture through responses to selected readings.

ASL2020 - American Sign Language IV - 4 - Credits

Course Overview

Course Prefix
ASL

Course Number
2020

Department
Speech and Hearing Sciences

Course Title
American Sign Language IV

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers advanced production and comprehension of American Sign Language (ASL) and expands upon the vocabulary, structure, and grammar covered in ASL III. Advanced conversation topics, culturally appropriate behaviors, history, and culture of Deaf communities are addressed.

Credit Hours

Credit Hours
Min:
4

Contact Hours

Contact Hours
Min:
4

Billing Hours

Billing Hours
Min:
4

Lecture Hours

Lecture Hours
Min:
4

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ASL2010 - American Sign Language III

Course Learning Objectives

Course Learning Outcomes

1. Show proficiency in expressive and receptive conversational fluency.
2. Converse using advanced vocabulary, structure, and grammar.
3. Show advanced understanding of culture, behavior, and history of Deaf communities

ASL3080 - American Sign Language Practice - 1 - Credits

Course Overview

Course Prefix
ASL

Course Number
3080

Department
Speech and Hearing Sciences

Course Title
American Sign Language Practice

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course provides opportunities for practice and continued improvement of receptive and expressive skills in American Sign Language. It is designed to be taken during semesters when students are not enrolled in a 4-credit ASL course.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ASL1010 - American Sign Language I

ASL3085 - ASL Practice II - 1 - Credits

Course Overview

Course Prefix
ASL

Course Number
3085

Department
Speech and Hearing Sciences

Course Title
ASL Practice II

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides opportunities for practice and continued improvement of receptive and expressive skills in American Sign Language at a more advanced level. This course is designed to help students continue to improve during semesters they are unable to take another ASL course.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ASL1020 - American Sign Language II
- ASL3080 - American Sign Language Practice

ASL4780 - Deaf Culture - 3 - Credits

Course Overview

Course Prefix
ASL

Course Number
4780

Department
Speech and Hearing Sciences

Course Title
Deaf Culture

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course leads students to understand how society, political institutions, and education have impacted the Deaf culture.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Earn a minimum grade of C in the following:

- ASL1010 - American Sign Language I

Course Learning Objectives

Course Learning Outcomes

1. Describe Deaf community demographics.
2. Explain the impact of deafness on the socialization of deaf children and Deaf adults.
3. Explain the impact of deafness on the family in modern society.
4. Describe the sociocultural and the pathological models of deafness.

ASTE1006 - Exploring Teaching for Careers and Communities - 1 - Credits

Course Overview

Course Prefix
ASTE

Course Number
1006

Department
Applied Sciences, Technology and Education

Course Title
Exploring Teaching for Careers and Communities

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
For exploratory students interested in teaching, training, and education careers in traditional and non-traditional settings. Students are introduced to teaching and education pathways in Career and Technical Education, including agriculture, family and consumer sciences, business, and technology and engineering education

Credit Hours

Credit Hours Min:
1

Contact Hours

Contact Hours Min:
1

Billing Hours

Billing Hours Min:
1

Lecture Hours

Lecture Hours Min:
1

Course Learning Objectives

Course Learning Outcomes

1. Describe the teaching and education major pathways in Career and Technical Education including Agriculture, Family & Consumer Science, Business, and Technology and Engineering Education and non-formal education settings.
2. Identify career and workforce opportunities related to teaching, training, and education, including secondary education, community colleges, extension, workforce development, and community-based education.
3. Recognize the role of instructional strategies, learning environments, and applied skills in CTE and non-formal education contexts.
4. Explain how subject-matter expertise, communication, and leadership skills are integrated within teaching and education career pathways.
5. Reflect on personal interests, strengths, and career goals to determine potential fit with teaching in CTE and non-formal education.

ASTE1008 - Exploring Agricultural Systems, Machinery, and Management - 1 - Credits

Course Overview

Course Prefix
ASTE

Course Number
1008

Department
Applied Sciences, Technology and Education

Course Title
Exploring Agricultural Systems, Machinery, and Management

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
For exploratory major students interested in learning about careers in agriculture and agricultural systems. Students are introduced to the Agricultural Systems Technology major, with an emphasis on production agriculture, systems thinking, and the integration of technology, science, business, and management.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Course Learning Objectives

Course Learning Outcomes

1. Describe the Agricultural Systems Technology major, including its focus on production agriculture, systems thinking, and preparation for agricultural careers.

2. Identify career and workforce opportunities related to Agricultural Systems Technology, including farm and ranch management, agricultural equipment and service industries, and related agricultural professions.

3. Recognize the role of technology and machinery in modern agricultural systems, without requiring prior technical experience.

4. Explain how agricultural science, business, and management skills are integrated within Agricultural Systems Technology career pathways.

5. Reflect on personal interests, strengths, and career goals to determine potential fit with the Agricultural Systems Technology major and the agricultural workforce.

ASTE1010 - Introduction to Agricultural Systems Technology - 3 - Credits

Course Overview

Course Prefix
ASTE

Course Number
1010

Department
Applied Sciences, Technology and Education

Course Title
Introduction to Agricultural Systems Technology

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Introduction to problem solving related to the areas of agricultural power and machinery, soil and water conservation, structures and animal environments, electrical circuits, and emerging technologies.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Apply structured problem-solving methods to agricultural systems by analyzing simple and complex machines, calculating mechanical advantage and efficiency, and working through power, work, torque, and horsepower relationships used in machinery and powertrains.
2. Evaluate agricultural equipment performance by determining capacity and efficiency, accurately calibrating sprayers and application equipment, and interpreting how power is transmitted through tractors and other machinery to complete field operations effectively.
3. Assess land and environmental resources by measuring distances, areas, and slopes, completing differential leveling, and evaluating soil erosion, moisture, irrigation requirements, grain handling, and waste management systems used in agricultural operations.
4. Describe essential agricultural infrastructure and career pathways by explaining

structural design, heating and ventilation principles, basic electrical systems and motor operation, and identifying the technical skills and opportunities within agricultural systems technology careers.

ASTE1110 - Equipment Safety for Agriculture and Natural Resources - 2 - Credits

Course Overview

Course Prefix
ASTE

Course Number
1110

Department
Applied Sciences, Technology and Education

Course Title
Equipment Safety for Agriculture and Natural Resources

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides safety training for operating machinery and equipment for field operations, including hands-on demonstrations, pre-operation checks, and practicum assessments to develop safe skills to prevent injuries.

Credit Hours

Credit Hours Min:
2

Contact Hours

Contact Hours Min:
2

Billing Hours

Billing Hours Min:
2

Lecture Hours

Lecture Hours Min:
2

Course Learning Objectives

Course Learning Outcomes
Demonstrate knowledge of applicable state and federal regulations (OSHA, DOT, U.S. DOL, WPS) related to safe machinery and equipment operation for agriculture and natural resources industries

Identify operational safety systems for machinery and equipment operation

Perform pre-operational inspections of machinery and equipment

Demonstrate safe operational maneuvers for machinery and equipment

Demonstrate safe loading and transport of materials and equipment

ASTE1130 - Agricultural Machinery Systems: Planting, Tillage, and Harvest Technologies - 3 - Credits

Course Overview

Course Prefix
ASTE

Course Number
1130

Department
Applied Sciences, Technology and Education

Course Title
Agricultural Machinery Systems: Planting, Tillage, and Harvest Technologies

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course focuses on the principles of operating, maintaining, and repairing agricultural machinery used in planting, tillage, and harvesting. Emphasis is placed on equipment design, system functions, and field applications to improve efficiency, safety, and sustainability in crop production.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes
1. To promote safety and cost awareness in the proper setup, operation, maintenance, and repair of planting and tillage equipment.
2. To develop a theoretical understanding in the application and adaptation of this equipment for various crops and methods.
3. To train the student in the techniques of proper trouble shooting, encompassing failures and maladjustment of the different machines.
4. To develop an understanding in what this equipment is presently designed to do and the changes that have taken place in the requirements of the machines related to GPS guidance and variable rate application.

ASTE1610 - Agricultural and Construction Machinery Power - 4 - Credits

Course Overview

Course Prefix
ASTE

Course Number
1610

Department
Applied Sciences, Technology and Education

Course Title
Agricultural and Construction Machinery Power

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces the theory and operation of power and transmission systems used in agriculture and construction equipment. Student perform diagnostics and repairs of components via hands-on activities.

Credit Hours

Credit Hours
Min:
4

Contact Hours

Contact Hours
Min:
4

Billing Hours

Billing Hours
Min:
4

Lecture Hours

Lecture Hours
Min:
4

Registration Restrictions

Must register for a laboratory section

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Explain foundational engine principles and system functions by distinguishing major engine types, operating cycles, and the roles of fuel, air, exhaust, lubrication, cooling, and governing systems in agricultural applications.
2. Identify, measure, and evaluate engine components and performance by using precision tools, interpreting specifications, calculating key engine metrics, and analyzing how systems and components influence power, efficiency, and reliability.
3. Diagnose and resolve engine performance issues through systematic testing, data interpretation, and troubleshooting methods to recommend safe, cost-effective repair and maintenance decisions for agricultural equipment.

ASTE1625 - Agricultural Machinery Power Trains Laboratory - 3 - Credits

Course Overview

Course Prefix
ASTE

Course Number
1625

Department
Applied Sciences, Technology and Education

Course Title
Agricultural Machinery Power Trains Laboratory

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Gives students practical hands-on experience in power trains diagnostics and repairs.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ASTE1620 - Agricultural Machinery Power Trains

(may be taken concurrently)

ASTE1640 - Introduction to Welding - 3 - Credits

Course Overview

Course Prefix
ASTE

Course Number
1640

Department
Applied Sciences, Technology and Education

Course Title
Introduction to Welding

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Introductory experience with hands-on laboratories that provide manipulative experience with various types of arc welding equipment. Application of Oxy-Acetylene Cutting/Welding, Shielded-Metal Arc Welding, Gas Metal Arc Welding, Air Carbon Arc Gouging, Plasma Arc Cutting, and Gas Tungsten Arc Welding.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Must register for a lab section

ASTE1710 - Introduction to Agricultural Communication - 3 - Credits

Course Overview

Course Prefix
ASTE

Course Number
1710

Department
Applied Sciences, Technology and Education

Course Title
Introduction to Agricultural Communication

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Overview of the history, importance to society, and role of mass communication in agriculture. Introduces students to the use of mass media in the agricultural industry.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

ASTE1800 - Leadership and Human Flourishing - 3 - Credits

Course Overview

Course Prefix
ASTE

Course Number
1800

Department
Applied Sciences, Technology and Education

Cross-Listed Courses
MSLE1800 - Leadership and Human Flourishing, CMST1800 - Leadership and Human Flourishing

Course Title
Leadership and Human Flourishing

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course delves into the pivotal connection between leadership and human flourishing. Students learn leadership theories, practical skills, communication strategies, and the art of positive influence, all aimed at increasing personal and interpersonal excellence to improve global communities.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes
1. Students will explore the historical and modern questions related to human purpose, happiness, and leadership.
2. Students will practice leadership and communication approaches to improve their ability to address interpersonal and community problems.
3. Students will identify how socio-cultural context shapes human interaction, leadership methods, and self-efficacy for self and others.
4. Students will use various experiential learning methods to explore how their knowledge, skills, and values can contribute to community problem-solving and a higher quality of life for themselves and others.
5. Students will gain confidence in their ability to use communication skills to identify future internship opportunities.
6. Students will develop a timeline and action plan for securing their first internship.
7. Students will identify and list paid internship opportunities that have the potential to meet their career goals.

ASTE2100 - Personal and Team Leadership - 3 - Credits

Course Overview

Course Prefix
ASTE

Course Number
2100

Department
Applied Sciences, Technology and Education

Course Title
Personal and Team Leadership

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students study leadership principles and theories, including personal leadership development, individual strengths, characteristics of effective leaders, leadership styles, team leadership, servant leadership, and leadership ethics, among others. A team capstone project includes service in the community.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. analyze and explain key leadership models, theories, and concepts as a foundation for effective leadership practice.
2. Apply principles of team leadership, collaboration, and conflict resolution to promote purposeful and ethical change within organizations and communities.
3.Assess students' own leadership styles, strengths, and growth areas to create a plan for ongoing personal and professional leadership development.

ASTE2250 - Occupational Experience in Agriculture - 1 - 6 Credits

Course Overview

Course Prefix
ASTE

Course Number
2250

Department
Applied Sciences, Technology and Education

Course Title
Occupational Experience in Agriculture

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
This course consists of supervised occupational experiences involving agriculture and technology.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
6

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
6

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
6

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
6

Lecture Hours Operator:
TO

Special Approval

Instructor permission required

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Explore career alternatives prior to graduation.
2. Assess interests and abilities in a field of study.
3. Develop work habits and attitudes necessary for career success.
4. Execute personal performance objectives (mutually agreed upon by the employer, faculty supervisor, and the student) related to their occupational assignment.

ASTE2450 - Domestic Study Experience - 1 - 5 Credits

Course Overview

Course Prefix
ASTE

Course Number
2450

Department
Applied Sciences, Technology and Education

Course Title
Domestic Study Experience

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Students examine topics and issues within the Applied Sciences, Technology and Education disciplines through experiential learning in authentic settings within the United States and its territories.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
5

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
5

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
5

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
5

Lecture Hours Operator:
TO

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Engage and network with professionals and stakeholders within ASTE disciplines.
2. Explore aspects and opportunities within various occupations in ASTE disciplines.
3. Examine the skills, knowledge, and attitudes in various occupational settings within ASTE disciplines.
4. Identify career opportunities within ASTE disciplines.

ASTE2500 - Education Forum in Career and Technical Education - 1 - Credits

Course Overview

Course Prefix
ASTE

Course Number
2500

Department
Applied Sciences, Technology and Education

Course Title
Education Forum in Career and Technical Education

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course involves the application of technical content to curriculum development to increase students' pedagogical content knowledge and skills in career & technical education topics and curriculum areas. This course also explores various dynamics of school-based Career and Technical Education (CTE) programs and opportunities.

Credit Hours

Credit Hours Min:
1

Contact Hours

Contact Hours Min:
1

Billing Hours

Billing Hours Min:
1

Lecture Hours

Lecture Hours Min:
1

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Develop curriculum for use in secondary school CTE settings.
2. Explore aspects and opportunities within various types of CTE programs.

ASTE2710 - Orientation to Agriculture Education - 2 - Credits

Course Overview

Course Prefix
ASTE

Course Number
2710

Department
Applied Sciences, Technology and Education

Course Title
Orientation to Agriculture Education

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Students examine the framework of agricultural education, with a special emphasis on the nature of the programs, career opportunities, and the qualifications and preparation requirements of future agricultural educators.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

No Requirements

ASTE2810 - Introduction to Cooperative Extension - 2 - Credits

Course Overview

Course Prefix
ASTE

Course Number
2810

Department
Applied Sciences, Technology and Education

Course Title
Introduction to Cooperative Extension

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces the history, mission, and organization of Extension. Students learn through Extension professional guest speakers, coursework designed to give perspective on a variety of Extension careers, and three field trips to local Extension offices and centers.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Students will demonstrate an increased understanding and awareness of USU Extension.
2. Students will investigate the role of an Extension Faculty and how it can align with their intended career path.
3. Students will expand their professional network through interaction with guest lecturers and field trips.
4. Students will learn how to write professional documents to use for applying for summer internships or jobs.

ASTE2900 - Food Matters: Ethics, Economics, and the Environment (BSS) - 3 - Credits

Course Overview

Course Prefix
ASTE

Course Number
2900

Department
Applied Sciences, Technology and Education

Course Title
Food Matters: Ethics, Economics, and the Environment (BSS)

General Education Attribute
BSS

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides a broad overview of food systems as they relate to ethical, economic, and environmental issues. The complex challenges involved with feeding the world's population are discussed using popular "foodie" media and science-based research.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes
1. Students will analyze scientific evidence and media representations to critically evaluate the interconnected economic, social, political, environmental, and ethical impacts of our global food system.
2. Students will examine how food and agriculture have shaped—and continue to shape—human culture, identity, and civilization across time and place.
3. Students will critically evaluate sources to distinguish credible information from misinformation about food and agriculture and effectively communicate informed perspectives on food-related issues through writing and discussion.
4. Students will apply critical thinking skills to envision and advocate for sustainable, equitable, and ethical solutions to the challenges facing future global food systems.

ASTE2910 - Sustainability Through Global Citizenship - 3 - Credits

Course Overview

Course Prefix
ASTE

Course Number
2910

Department
Applied Sciences, Technology and Education

Course Title
Sustainability Through Global Citizenship

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This interdisciplinary course addresses critical socioscientific issues through the comprehensive framework of the United Nations Sustainable Development Goals. Students are empowered to become informed, proactive global citizens who are prepared to contribute to the resolution of complex issues.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes
1. Explain sustainability and socioscientific issues. (SSI)
2. Examine the 17 United Nations Sustainable Development Goals. (SDGs)
3. Recognize the significance of the SDGs in addressing global challenges in the context of being a part of humanity. (BHU Criteria 1)
4. Identify key areas of focus within the SDGs, specifically different ideas of how to implement SDGs in various cultures and/or civilizations. (BHU Criteria 2)
5. Recognize the interconnectedness of the SDGs and their impact on various aspects of society as well as the personal interest of a human being. (BHU Criteria 1)
6. Analytically summarize opinions to better critically think about topics impacting humanity. (BHU Criteria 3)
7. To reflect on norms and values that underlie individual's actions and negotiate the values of sustainability while taking into account conflicts of interests and

trade-offs. (BHU Criteria 2)
8. To develop and implement interdisciplinary innovative actions that further sustainability at the local level or beyond. (BHU Criteria 4)
9. The ability to relate to and be sensitive to others while learning and to respecting their needs and perspectives. (BHU Criteria 3 &4)
10. Develop the ability to question norms, practices and opinions, while critically thinking about one's own values, perceptions and actions.
11. To reflect on the individual's role in their local and global society and motivate action in that context. (BHU Criteria 1)
12. To apply interdisciplinary problem-solving to complex SSI and develop viable options to help solve these issues. (BHU Criteria 1)

ASTE2930 - Individualized Projects in Agriculture Mechanics - 1 - 3 Credits

Course Overview

Course Prefix
ASTE

Course Number
2930

Department
Applied Sciences, Technology and Education

Course Title
Individualized Projects in Agriculture Mechanics

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Students develop basic skills in preparation for employment in the agricultural industry.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

Special Approval

Instructor permission required

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Develop the ability to listen to technical concerns, review maintenance documents, and utilize diagnostic techniques.
2. Demonstrate the necessary skills to plan work procedures, safely disassemble, repair, and reassemble various equipment systems and components, such as engines, transmissions, fuel systems, and braking systems.
3. Explain how different systems (e.g., electrical, fuel, cooling, suspension) interact and how to ensure all components work properly together after repairs.
4. Apply all safety concepts and follow proper safety guidelines and environmental regulations (e.g., OSHA and EPA standards) for handling hazardous materials and performing work in a shop environment.

ASTE3030 - Metal Fabrication for Agriculture and Natural Resource Industries - 3 - Credits

Course Overview

Course Prefix
ASTE

Course Number
3030

Department
Applied Sciences, Technology and Education

Course Title

Metal Fabrication for Agriculture and Natural Resource Industries

Grade Mode
Standard Letter

Repeat Status
NR

Course Description

This course covers application of welding techniques for the agriculture and natural resource industry. Project-based focused on fabrication and maintenance meeting industry standards. Students develop skills in project planning and management.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Other Enrollment Recommendations

Prior experience in welding and CAD.

May substitute a welding certificate in lieu of TEE1640 INTRO TO WELDING. May substitute a CAD certificate in lieu of TESY1200 CAD AND DESIGN.

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- TEE1640 - Introduction to Welding
- TESY1200 - Computer-Aided Drafting and Design

Course Learning Objectives

Course Learning Outcomes

1. Apply industry-standard safety protocols and correctly select necessary equipment and consumables for various ferrous and nonferrous welding processes.
2. Set up, operate, and troubleshoot various pieces of welding equipment (e.g., arc welding) for agricultural maintenance and construction.
3. Demonstrate proper welding techniques in various positions (flat, horizontal, vertical) and utilize hot- and cold-working methods to join or shape metal.
4. Interpret engineering plans and analyze the development and fabrication process to complete a small welding project.

ASTE3050 - Technical and Professional Communication Principles (CI) - 3 - Credits

Course Overview

Course Prefix
ASTE

Course Number
3050

Department
Applied Sciences, Technology and Education

Cross-Listed Courses

JCOM3050 - Technical and Professional Communication Principles (CI)

Course Title
Technical and Professional Communication Principles (CI)

General Education Attribute
CI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description

Technical communication principles and practices used in the workplace. Emphasizes technical writing of reports and correspondence using electronic information retrieval and presentation.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete at least 1 course in the following course sets:

- Communications Literacy (CL2) Course

ASTE3080 - Compact Power Units for Agricultural and Turfgrass Applications - 3 - Credits

Course Overview

Course Prefix
ASTE

Course Number
3080

Department
Applied Sciences, Technology and Education

Course Title
Compact Power Units for Agricultural and Turfgrass Applications

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Operation and application of agricultural and turfgrass equipment powered by internal combustion engines having less than 40 horsepower.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Explain the fundamental theoretical operating principles and functions of equipment components.
2. Be able to locate and interpret the technical information needed to perform preventative maintenance procedures and equipment repairs.
3. Be able to troubleshoot and repair a small engine system

ASTE3090 - Graphic Design in Agriculture and Media Industries - 3 - Credits

Course Overview

Course Prefix
ASTE

Course Number
3090

Department
Applied Sciences, Technology and Education

Cross-Listed Courses
JCOM3090 - Graphic Design in Agriculture and Media Industries

Course Title
Graphic Design in Agriculture and Media Industries

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Prepares students to be proficient in elements of design, graphic art production, photo editing, and image composition techniques used in agricultural communications and journalism fields.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

ASTE3240 - Teaching in Laboratory Settings (CI) - 3 - Credits

Course Overview

Course Prefix
ASTE

Course Number
3240

Department
Applied Sciences, Technology and Education

Course Title
Teaching in Laboratory Settings (CI)

General Education Attribute
CI

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Basic principles of teaching students in laboratory settings. Overview of major concepts, considerations, and practices used for developing and evaluating agriscience curricula.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Admission to the Secondary Teacher Education Program (STEP)

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ASTE2710 - Orientation to Agriculture Education

Course Learning Objectives

Course Learning Outcomes
1. Demonstrate effective instructional strategies for teaching in secondary agricultural laboratory settings.
2. Apply foundational learning theories to the planning and delivery of instruction tailored to diverse student needs.
3. Design and implement comprehensive lesson plans and safety procedures that promote student engagement, learning, and risk management in laboratory environments.
4. Exhibit professional and ethical behavior consistent with the expectations of educators in agricultural contexts.

ASTE3300 - Clinical Experience in Agricultural Education - 1 - Credits

Course Overview

Course Prefix
ASTE

Course Number
3300

Department
Applied Sciences, Technology and Education

Course Title
Clinical Experience in Agricultural Education

Grade Mode
Pass/Fail

Repeat Status
NR

Course Description
Clinical practicum (45 hours minimum) in middle or secondary schools, arranged by instructors and the Office of Field Experience in TEAL.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Registration Restrictions

Admission to Secondary Teacher Education Program (STEP).

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Analyze classroom instruction and student engagement through the lens of diverse learners and teaching strategies observed in agricultural education settings.
2. Apply principles of effective teaching and risk management to design and deliver short, supervised instructional experiences in classroom or laboratory environments.
3. Evaluate the professional roles, responsibilities, and relationships of [agricultural] educators within the broader context of school and community programs (classroom, FFA, and SAE).

ASTE3440 - Science, Technology, and Modern Society (DSC) - 3 - Credits

Course Overview

Course Prefix
ASTE

Course Number
3440

Department
Applied Sciences, Technology and Education

Cross-Listed Courses
TEE3440 - Science, Technology, and Modern Society (DSC)

Course Title
Science, Technology, and Modern Society (DSC)

General Education Attribute
DSC

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Designed to challenge students from all academic majors to develop an understanding of the dynamic interaction between science, technology, and society. Explores responsibility of humans for directing the utilization of technology as a creative enterprise.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

ASTE3500 - Teaching Apprenticeship in Agricultural Education - 2 - Credits

Course Overview

Course Prefix
ASTE

Course Number
3500

Department
Applied Sciences, Technology and Education

Course Title
Teaching Apprenticeship in Agricultural Education

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Each student serves as an apprentice to professional agricultural educator. Students complete competencies leading to early preparation for student teaching.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

No Requirements

ASTE3600 - Data Management of Agricultural Systems (QI) - 3 - Credits

Course Overview

Course Prefix
ASTE

Course Number
3600

Department
Applied Sciences, Technology and Education

Course Title
Data Management of Agricultural Systems (QI)

General Education Attribute
QI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students study the principles of modern approaches used for analyzing and interpreting data types commonly encountered in the agri-food sector. Course goals include generating data-driven insights for improved decision making.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Fulfill ANY of the following requirements:

Option 1

Complete ALL of the following Courses:

- MATH1050 - College Algebra (QL)

or higher MATH-prefix course

OR

Option 2

Complete ALL of the following Courses:

- STAT1040 - Introduction to Statistics (QL)
  OR STAT1045 - Introduction to Statistics with Elements with Algebra (QL)
  OR STAT1080 - Foundations of Data Science (QL)

or higher STAT-prefix course

OR

Option 3

Sufficient score on AP Exam equivalent to MATH 1050 or higher.

Course Learning Objectives

Course Learning Outcomes

1. Examine digital management systems used in modern agricultural production by exploring platforms for data collection, storage, and workflow organization across crops, livestock, and equipment.
2. Evaluate data related to field operations, equipment performance, and resource use by interpreting metrics such as efficiency, input use, and operational capacity through an agricultural data lens.
3. Apply problem-solving skills to manage, clean, and organize agricultural datasets using relevant software tools and data-handling techniques.
4. Utilize data analysis to inform agricultural decision-making by generating insights, building summaries and visualizations, and recommending actions based on quantitative evidence.

ASTE3620 - Managing the FFA and SAE Programs - 2 - Credits

Course Overview

Course Prefix
ASTE

Course Number
3620

Department
Applied Sciences, Technology and Education

Course Title

Managing the FFA and SAE Programs

Grade Mode
Standard Letter

Repeat Status
NR

Course Description

Introduction to basic concerns, understandings, and practices needed to effectively advise an FFA chapter. Students learn appropriate philosophies and skills for operation of a comprehensive supervised agricultural experience program.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Registration Restrictions

Admission to the Secondary Teacher Education Program (STEP)

Course Learning Objectives

Course Learning Outcomes

1. Analyze and apply the foundational philosophies and structures of Supervised Agricultural Experiences (SAEs) and FFA as integral components of a comprehensive agricultural education program.
2. Demonstrate proficiency in managing student SAE programs, including the use of the Agricultural Experience Tracker (AET) for record keeping and program supervision.
3. Develop and implement strategies for effective FFA chapter management, including officer leadership development, program of activities (POA) planning, and event facilitation.
4. Evaluate and apply ethical, inclusive, and professional practices in advising FFA chapters and engaging with stakeholders in agricultural education.

ASTE3625 - Youth Development Education - 2 - Credits

Course Overview

Course Prefix
ASTE

Course Number
3625

Department
Applied Sciences, Technology and Education

Course Title
Youth Development Education

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students prepare to be effective facilitators of youth development programs. Theoretical foundations, best practices, and organizational structures of youth development programs are emphasized. Students explore various topics and organizations devoted to youth development, including extension and other informal education programs.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

ASTE3720 - Electrical Power Systems for Agricultural Applications - 4 - Credits

Course Overview

Course Prefix
ASTE

Course Number
3720

Department
Applied Sciences, Technology and Education

Course Title
Electrical Power Systems for Agricultural Applications

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers fundamental principles for safe design and maintenance of AC and DC electrical circuits used in agricultural production and processing. Exploration of techniques for diagnosing malfunctions and repairs with a systems approach.

Credit Hours

Credit Hours
Min:
4

Contact Hours

Contact Hours
Min:
4

Billing Hours

Billing Hours
Min:
4

Lecture Hours

Lecture Hours
Min:
4

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ASTE1010 - Introduction to Agricultural Systems Technology

Course Learning Objectives

Course Learning Outcomes

1. To familiarize the student with the simple and complex electrical systems used on agricultural equipment and the practices required for complete and accurate testing and diagnosing.
2. To develop an objective method in determining system malfunction by applying

system principles and the use of service manual information.
3. To develop self-confidence in the student through practical application in diagnosing and repairing system malfunctions and failure.
4. To develop an awareness for the need in safety while being involved in any way with farm tractors and implements.

ASTE3730 - Agricultural Machinery Auxiliary Systems and Diagnosis - 3 - Credits

Course Overview

Course Prefix
ASTE

Course Number
3730

Department
Applied Sciences, Technology and Education

Course Title
Agricultural Machinery Auxiliary Systems and Diagnosis

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Application of theory, testing, diagnosis, and repairs of auxiliary systems, including air conditioning, fuel injection, analog, electronic monitoring, and GPS as utilized in agricultural equipment.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ASTE3720 - Electrical Power Systems for Agricultural Applications

ASTE3900 - Special Problems in Agricultural Systems Technology and Education - 1 - 6 Credits

Course Overview

Course Prefix
ASTE

Course Number
3900

Department
Applied Sciences, Technology and Education

Course Title
Special Problems in Agricultural Systems Technology and Education

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Students conduct a short-term investigation and/or literature analysis with critical review of contemporary issues in Agricultural Systems Technology. The course is a formal contract with approved faculty, and the work culminates in a written report.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
6

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
6

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
6

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
6

Lecture Hours Operator:
TO

Special Approval
Instructor permission required

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Analyze and critically evaluate contemporary issues in Agricultural Systems through focused investigation or literature review.
2. Apply research and analytical skills to explore technological, environmental, or policy-related challenges within agricultural systems.
3. Demonstrate effective written communication by synthesizing findings into a professional report that reflects scholarly standards.
4. Collaborate with faculty mentors to design and complete a short-term research or analysis project aligned with current trends in agricultural systems.

ASTE4090 - Website Design in Agricultural Communications - 3 - Credits

Course Overview

Course Prefix
ASTE

Course Number
4090

Department
Applied Sciences, Technology and Education

Cross-Listed Courses

JCOM4090 - Website Design in Agricultural Communications

Course Title

Website Design in Agricultural Communications

Grade Mode
Standard Letter

Repeat Status
NR

Course Description

This course promotes a basic understanding of web design principles, color theory, typography, coding, and user experience development to create a live responsive personal portfolio website or a website for a client.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Other Enrollment Recommendations

ASTE3090 GRAPH DESIGN AG MEDIA INDUSTR or JCOM3090 GRAPH DESIGN AG MEDIA INDUSTR

Course Learning Objectives

Course Learning Outcomes

1. Demonstrate effective website planning and design using appropriate software.
2. Describe techniques to improve search engine optimization.
3. Plan and write content for a website.
4. Demonstrate the correct use of formats, color mode, and resolution when creating or using graphics for the web.
5. Critique and evaluate elements of websites.
6. Use the fundamentals of HTML and CSS to develop web pages.
7. Develop responsive websites using WordPress.org.
8. Evaluate websites based on usability, accessibility, color, and design principles.

ASTE4100 - Agricultural Structures and Environment (QI) - 3 - Credits

Course Overview

Course Prefix
ASTE

Course Number
4100

Department
Applied Sciences, Technology and Education

Course Title
Agricultural Structures and Environment (QI)

General Education Attribute
QI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description

Overview of agricultural structures and environmental considerations related to livestock, livestock waste management, and commodity storage. This USU class is a quantitative intensive (QI) course and as such will emphasize mathematical calculations related to wood and metal products, wood and metal construction, and various calculations related to constructing and maintaining agricultural structures.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Fulfill ANY of the following requirements:

Option 1

Complete ALL of the following Courses:

- MATH1050 - College Algebra (QL)

or higher MATH-prefix course

OR

Option 2

Sufficient score on AP Exam equivalent to MATH 1050 or higher.

Course Learning Objectives

Course Learning Outcomes

1. Identify and evaluate construction materials (wood and metal) for agricultural structures based on accepted industry and engineering standards (ASABE, ASTM, WWPA).
2. Calculate material requirements and acceptable load limits for agricultural structures, demonstrating quantitative proficiency in construction and design.
3. Apply psychrometric and thermodynamic principles to formulate effective environmental control and maintenance recommendations for livestock and commodity storage structures.
4. Interpret structural evaluation data and select building components that comply with relevant code requirements.

ASTE4150 - Methods of Teaching Agriculture (CI) - 3 - Credits

Course Overview

Course Prefix
ASTE

Course Number
4150

Department
Applied Sciences, Technology and Education

Course Title
Methods of Teaching Agriculture (CI)

General Education Attribute
CI

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Introduction to basic practices of classroom teaching and program planning. Through participation in discussions, activities, and assignments, students refine their abilities to develop programs, diagnose the learner, prepare the instruction, and guide student learning.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ASTE2710 - Orientation to Agriculture Education
- ASTE3240 - Teaching in Laboratory Settings (CI)

Course Learning Objectives

Course Learning Outcomes
1. Design, organize, and deliver curriculum and instructional activities that promote meaningful learning and skill development in agricultural and technology education settings.
2. Apply effective teaching methods, classroom management strategies, and organizational skills to establish safe, inclusive, and engaging learning environments in secondary CTE classrooms.
3.Exemplify professional standards and engage in reflective practice to continuously improve their effectiveness as educators and contribute to the advancement of career and technical education.

ASTE4155 - Nonformal Teaching Methods - 3 - Credits

Course Overview

Course Prefix
ASTE

Course Number
4155

Department
Applied Sciences, Technology and Education

Course Title
Nonformal Teaching Methods

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course explores principles and methods associated with nonformal teaching and learning for adult, extension, and community-based education. Students design, implement, and evaluate student-centered teaching and learning approaches in the nonformal educational environment.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Course Learning Objectives

Course Learning Outcomes
1. Differentiate and apply key principles of nonformal education in planning and implementing learning experiences for adults, youth, or community audiences.
2. Design and facilitate learner-centered instructional plans that promote participation, reflection, and knowledge application.
3. Evaluate the effectiveness of nonformal teaching methods using appropriate assessment and feedback strategies.

ASTE4210 - Cognition and Evaluation of Student Learning in Career and Technical Education - 3 - Credits

Course Overview

Course Prefix
ASTE

Course Number
4210

Department
Applied Sciences, Technology and Education

Cross-Listed Courses
BSED4210 - Cognition and Evaluation of Student Learning in Career and Technical Education, FCSE4210 - Cognition and Evaluation of Student Learning in Career and Teachnical Education, TEE4210 - Cognition and Evaluation of Student Learning in Career and Technical Education

Course Title
Cognition and Evaluation of Student Learning in Career and Technical Education

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides an overview of the various methods used to measure and evaluate student achievement within the cognitive, affective, and psychomotor domains with emphasis on performance-based, authentic assessment specific to the Career and Technical Education classroom.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Admission to the Secondary Teacher Education Program (STEP)

Course Learning Objectives

Course Learning Outcomes
1. Explain and apply foundational theories, principles, and contexts that guide effective assessment within the cognitive, affective, and psychomotor domains.
2. Design and implement authentic, traditional and performance-based assessments that accurately measure student achievement and support learning in Career and Technical Education settings.
3. Develop and use assessment tools and data to improve instructional practices, inform decision-making, and promote positive outcomes for students and stakeholders.

ASTE4215 - Community Programming and Evaluation - 3 - Credits

Course Overview

Course Prefix
ASTE

Course Number
4215

Department
Applied Sciences, Technology and Education

Course Title
Community Programming and Evaluation

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course focuses on the development and evaluation of community-based education programs. Primary topics include program development, planning, design, implementation, evaluation, and accounting in nonformal educational programs.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Course Learning Objectives

Course Learning Outcomes
1. Conduct data-driven community needs assessments using stakeholder input to inform program development.
2. Construct comprehensive logic models that align resources, activities, and measurable outcomes for community-based programs.
3. Develop and apply valid evaluation tools to measure program effectiveness and communicate results to stakeholders.

ASTE4250 - Occupational Experiences in Agriculture - 1 - 6 Credits

Course Overview

Course Prefix
ASTE

Course Number
4250

Department
Applied Sciences, Technology and Education

Course Title
Occupational Experiences in Agriculture

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
This course consists of a supervised occupational experience for technical and professional career opportunities.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
6

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
6

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
6

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
6

Lecture Hours Operator:
TO

Special Approval

Instructor permission required

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Explore career alternatives prior to graduation.
2. Assess interests and abilities in a field of study.
3. Develop work habits and attitudes necessary for career success.
4. Execute personal performance objectives (mutually agreed upon by the employer, faculty supervisor, and the student) related to their occupational assignment.

ASTE4300 - Clinical Experience II in Agricultural Education - 1 - Credits

Course Overview

Course Prefix
ASTE

Course Number
4300

Department
Applied Sciences, Technology and Education

Course Title
Clinical Experience II in Agricultural Education

Grade Mode
Pass/Fail

Repeat Status
NR

Course Description
Clinical practicum (45 hours minimum) in middle or secondary schools, arranged by instructors and the Office of Field Experience in TEAL.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Registration Restrictions

Admission to Secondary Teacher Education Program (STEP).

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Design and implement standards-based agricultural education lessons and activities that integrate classroom, laboratory, FFA, and SAE components to promote student learning.
2. Evaluate and apply effective classroom and laboratory management strategies observed during the clinical experience to foster a safe, inclusive, and productive learning environment.
3. Collaborate with cooperating teachers and other professionals to plan and assess instructional experiences that align with school, community, and program goals.
4. Reflect critically on teaching practices and professional growth to refine instructional decision-making and prepare for the student teaching semester.

ASTE4400 - Advising Applied Technology Education Student Organizations - 1 - Credits

Course Overview

Course Prefix
ASTE

Course Number
4400

Department
Applied Sciences, Technology and Education

Course Title
Advising Applied Technology Education Student Organizations

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Principles and practices for advising applied technology student organizations in secondary education. Examination of leadership organizations supporting applied technology education. Emphasis on program planning, leadership development, and evaluation.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

No Requirements

ASTE4900 - Senior Project Research and Creative Opportunity - 1 - 6 Credits

Course Overview

Course Prefix
ASTE

Course Number
4900

Department
Applied Sciences, Technology and Education

Course Title
Senior Project Research and Creative Opportunity

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Returning student teachers work to strengthen their weaknesses in areas such as scaled drawing, cost estimating, machine shop practices, construction, and small engines.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
6

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
6

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
6

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
6

Lecture Hours Operator:
TO

No Requirements

ASTE5150 - Methods of Teaching Career and Technical Education - 3 - Credits

Course Overview

Course Prefix
ASTE

Course Number
5150

Department
Applied Sciences, Technology and Education

Course Title
Methods of Teaching Career and Technical Education

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course is focused on instructional methodology, teaching approaches, and principles of teaching diverse populations of students in laboratory and classroom settings within Career and Technical Education.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Course Learning Objectives

Course Learning Outcomes

1. Describe and implement the characteristics of effective teaching.
2. Develop instructional strategies to meet the needs of diverse learners in CTE.
3. Demonstrate effective teaching strategies and methods in the CTE classroom and laboratory.
4. Conduct well-planned instructional activities that result in positive and productive learning environments.
5. Develop systems for managing CTE classrooms and laboratories including laboratory safety procedures.
6. Describe theories of learning that guide the teaching and learning process within CTE.

ASTE5151 - Course and Curriculum Development in Career and Technical Education - 3 - Credits

Course Overview

Course Prefix
ASTE

Course Number
5151

Department
Applied Sciences, Technology and Education

Course Title
Course and Curriculum Development in Career and Technical Education

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course is focused on the principles and practices of curriculum and course development in Career and Technical Education. The course emphasizes program, course, unit, and daily curriculum design.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Course Learning Objectives

Course Learning Outcomes
1. Describe curriculum and various curriculum development models and resources used in CTE.
2. Describe state-level strands and standards for secondary school instruction.
3. Discuss the process of task and occupational analysis for industry-aligned curriculum.
4. Develop objectives and design curriculum for instruction in CTE courses.
5. Describe the relationship of curriculum to instruction and evaluation in CTE.
6. Plan and develop instruction to meet the needs of diverse learners in CTE.
7. Organize instruction, learning materials, and learning activities to effectively teach CTE courses.

ASTE5152 - Evaluation and Assessment in Career and Technical Education - 3 - Credits

Course Overview

Course Prefix
ASTE

Course Number
5152

Department
Applied Sciences, Technology and Education

Course Title
Evaluation and Assessment in Career and Technical Education

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides an overview of the various methods used to measure and evaluate student achievement within the cognitive, affective, and psychomotor domains with emphasis on performance-based, authentic assessment specific to the Career and Technical Education classroom.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Course Learning Objectives

Course Learning Outcomes
1. Align learning objectives with instruction and assessment.
2. Explain and demonstrate principles of effective assessment in its variety of forms.
3. Explain foundational theories and concepts of assessment.
4. Demonstrate the use of various formative and summative assessment strategies used in CTE.
5. Demonstrate the use of traditional, performance-based and alternative assessments used in CTE.
6. Demonstrate the ability to differentiate assessment based on learning differences among students.
7. Differentiate between various grading schemes used in CTE and identify benefits and weaknesses of each.

ASTE5153 - Digital Tools for Teaching and Learning in Career and Technical Education - 3 - Credits

Course Overview

Course Prefix
ASTE

Course Number
5153

Department
Applied Sciences, Technology and Education

Course Title
Digital Tools for Teaching and Learning in Career and Technical Education

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course is designed to help students and teachers understand the role of technology and media in CTE programs and to teach them how to use media and digital technologies effectively and appropriately.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Course Learning Objectives

Course Learning Outcomes
1. Describe and discuss key skills that are needed in a digital age.
2. Identify and discuss the ways digital technology is leading to changes in teaching and learning.
3. Discuss current trends and issues of using digital technology in the classroom.
4. Explore the use of virtual reality for instruction in CTE classrooms and laboratories.
5. Explore the use of and guidelines for using video, music, gaming, social media, and other types of media as pedagogical tools in the CTE classroom.
6. Demonstrate the use of various digital technologies available for CTE teachers.

ASTE5154 - Classroom and Laboratory Management in Career and Technical Education - 3 - Credits

Course Overview

Course Prefix
ASTE

Course Number
5154

Department
Applied Sciences, Technology and Education

Course Title
Classroom and Laboratory Management in Career and Technical Education

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course focuses on principles and strategies for increasing teachers' effectiveness and satisfaction in classroom management and discipline within Career and Technical Education. This course also focuses on establishing a positive classroom learning environment, student engagement, and motivation.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Course Learning Objectives

Course Learning Outcomes
1. Describe student behavioral, relational, and cognitive engagement in the learning process.
2. Identify classroom structures that contribute to student engagement and motivation.
3. Describe and develop positive and productive learning environments.
4. Determine the effectiveness of peer relationships to positive and negative peer management.
5. Identify strategies to create an inclusive classroom.
6. Discuss strategies to help students manage their own behavior within CTE classrooms and laboratories.

ASTE5220 - Volunteer Programs and Partnerships - 3 - Credits

Course Overview

Course Prefix
ASTE

Course Number
5220

Department
Applied Sciences, Technology and Education

Dual-Listed Courses
ASTE6220 - Volunteer Programs and Partnerships

Course Title
Volunteer Programs and Partnerships

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course explores the use and management of volunteers and partnerships in the development and implementation of extension, non-formal, and outreach education programs.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Course Learning Objectives

Course Learning Outcomes

1. Design and manage volunteer programs that align with organizational mission and strategy.
2. Apply leadership and management principles to recruit, train, supervise, and retain volunteers.
3. Critically evaluate and improve volunteer engagement practices using data, theory, and reflection.
4. Demonstrate civic and ethical responsibility through meaningful community-based volunteer experience.

ASTE5260 - Environmental Impacts of Agricultural Systems (CI) - 3 - Credits

Course Overview

Course Prefix
ASTE

Course Number
5260

Department
Applied Sciences, Technology and Education

Course Title
Environmental Impacts of Agricultural Systems (CI)

General Education Attribute
CI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students investigate the relationship between agricultural practices and environmental quality, including control of agricultural nonpoint-source pollution.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Course Learning Objectives

Course Learning Outcomes

1. Explain Federal Laws/Regulations as they impact agricultural production and interface with environmental issues.
2. Access societal expectations of specific agricultural practices with an environmental quality lens

ASTE5300 - Emergency Preparedness for Agricultural Enterprises - 1 - Credits

Course Overview

Course Prefix
ASTE

Course Number
5300

Department
Applied Sciences, Technology and Education

Course Title
Emergency Preparedness for Agricultural Enterprises

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers emergency preparedness for disasters within agri-food system enterprises. Key concepts focus on maintaining essential production functions, sheltering, evacuation, and recovery after disasters. Students conduct site visits , evaluate emergency plans, and design a plan.

Credit Hours

Credit Hours Min:
1

Contact Hours

Contact Hours Min:
1

Billing Hours

Billing Hours Min:
1

Lecture Hours

Lecture Hours Min:
1

Course Learning Objectives

Course Learning Outcomes

1. Students will be able to plan for maintaining essential agri-food system functions during a disaster.
2. Students will be able to differentiate hazards and risks associated with emergency preparedness.
3. Students will be able to integrate emergency preparedness within agri-food system operations.

ASTE5400 - Food, Land, and People - 1 - 3 Credits

Course Overview

Course Prefix
ASTE

Course Number
5400

Department
Applied Sciences, Technology and Education

Dual-Listed Courses
ASTE6400 - Food, Land, and People

Course Title
Food, Land, and People

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Designed for pre-service (undergraduate, elementary education) or practicing, in-service (graduate) teachers. Offers development for infusing agriculture and the concepts of food, land, and people into existing curriculum standards and objectives. Presentation of agricultural-related instructional units, as well as research-based teaching strategies will be demonstrated.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

No Requirements

ASTE5450 - Study Abroad Experience - 1 - 5 Credits

Course Overview

Course Prefix
ASTE

Course Number
5450

Department
Applied Sciences, Technology and Education

Cross-Listed Courses
NDFS5450 - Study Abroad Experience

Course Title
Study Abroad Experience

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Students examine topics and issues within Applied Sciences, Technology, and Education (ASTE) disciplines through experiential learning in international settings.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
5

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
5

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
5

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
5

Lecture Hours Operator:
TO

Repeatable for Credit:
0

Course Learning Objectives

Course Learning Outcomes
1. Identify global career opportunities within ASTE disciplines.
2. Examine the role of agriculture, science, and technology in global contexts.
3. Demonstrate cultural competence and global literacy.
4. Assess changes in beliefs and attitudes as a result of the global engagement experience.
5. Explore aspects and opportunities within various occupations in international settings.

ASTE5500 - Agricultural Education Secondary Curriculum Seminar - 2 - Credits

Course Overview

Course Prefix
ASTE

Course Number
5500

Department
Applied Sciences, Technology and Education

Course Title
Agricultural Education Secondary Curriculum Seminar

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
Cooperative examination of considerations and processes for teaching secondary students. Reflection on the practice of teaching. Preparation for entry into the teaching profession.

Credit Hours

Credit Hours Min:
2

Contact Hours

Contact Hours Min:
2

Billing Hours

Billing Hours Min:
2

Lecture Hours

Lecture Hours Min:
2

Course Learning Objectives

Course Learning Outcomes

1. Synthesize knowledge and experiences from student teaching to articulate a cohesive philosophy of agricultural education and its role in secondary schools and communities.
2. Evaluate teaching practices and professional growth using evidence from classroom performance, student outcomes, and feedback from mentors and peers.
3. Develop and present professional materials, including a teaching portfolio and career application documents, that demonstrate readiness for employment as an agricultural educator.
4. Engage collaboratively in reflective dialogue with peers and professionals to refine approaches to teaching, program management, and career-long professional development.

ASTE5550 - Continuing Education in Agricultural Education - 0.5 - 3 Credits

Course Overview

Course Prefix
ASTE

Course Number
5550

Department
Applied Sciences, Technology and Education

Course Title
Continuing Education in Agricultural Education

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Concentrated offerings to increase knowledge and skills in current agricultural education topics or curriculum areas.

Credit Hours

Credit Hours Min:
0.5

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
0.5

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
0.5

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
0.5

Lecture Hours Max:
3

Lecture Hours Operator:
TO

ASTE5600 - Biosecurity I - 3 - Credits

Course Overview

Course Prefix
ASTE

Course Number
5600

Department
Applied Sciences, Technology and Education

Cross-Listed Courses
CAI5600 - Biosecurity I

Dual-Listed Courses
ASTE6600 - Biosecurity I

Course Title
Biosecurity I

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course is the first in a two-class series examining interdisciplinary biosecurity issues, including climate risks, infectious diseases, quarantined pests, invasive alien species, living modified organisms, and biological weapons. Additional coursework is required for the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Course Learning Objectives

Course Learning Outcomes
1. Students will recognize key domains in biosecurity by utilizing Meyerson et al.'s integrated concept of biosecurity, reaching across a range of fields and problem sets.
2. Students will analyze and interpret their exposure to the scientific foundations, historical developments, and contemporary forces that shape current and emerging biosecurity challenges.
3. Students will prepare oral and written statements on key policy concepts, governance frameworks, sociocultural communication, and ethical guidelines regarding biosecurity across a range of fields and disciplines.
4. Students will reflect on their role as biosecurity informants and practice communication tactics for improving problem-solving and solution development.
5. Students will demonstrate rigorous subject-area research, analysis, and writing skills to the substantive subject matter of the course.

ASTE5610 - Biosecurity II - 3 - Credits

Course Overview

Course Prefix
ASTE

Course Number
5610

Department
Applied Sciences, Technology and Education

Cross-Listed Courses
CAI5610 - Biosecurity II

Dual-Listed Courses
ASTE6610 - Biosecurity II

Course Title
Biosecurity II

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course is the second in a two-class series providing an in-depth examination of interdisciplinary biosecurity issues and challenges, potentially including risks of a shifting climate, infectious diseases, quarantined pests, invasive alien species, living modified organisms, and biological weapons. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Other Enrollment Recommendations
It is recommended that students complete ASTE5600 BIOSECURITY I/ASTE6600 BIOSECURITY I or CAI5600 BIOSECURITY I/CAI6600 BIOSECURITY I before taking this course.

Course Learning Objectives

Course Learning Outcomes
1. Students will recall key domains in biosecurity and use current case studies from across a range of fields and problem sets to synthesize the scope of risk and system resiliencies.
2. Students will compose frameworks and practice assessing the complexities of biosecurity prevention, they will formulate potential solutions for biological threats, including natural outbreaks and deliberate acts.
3. Students will prepare oral and written statements on ethical dilemmas such as public health, scientific research, private property, and individual rights regarding

biosecurity across a range of fields and disciplines.
4. Students will reflect on the average citizen's role and critically assess the roles and responsibilities of various stakeholders, such as governments, research institutions, industries, and non-governmental organizations, in promoting effective biosecurity measures.
5. Students will demonstrate rigorous subject-area research, analysis, and writing skills to the substantive subject matter of the course.

ASTE5620 - Food Security and Solutions - 3 - Credits

Course Overview

Course Prefix
ASTE

Course Number
5620

Department
Applied Sciences, Technology and Education

Cross-Listed Courses
CAI5620 - Food Security and Solutions

Dual-Listed Courses
ASTE6620 - Food Security and Solutions

Course Title
Food Security and Solutions

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course gives students a deep-dive examination of global food systems' security and sustainability challenges. It employs a holistic view of food security and engages a multidisciplinary approach to solutions for building resilience in food systems. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Course Learning Objectives

Course Learning Outcomes
1. Students will recognize the key domains of global food production (i.e., supply chains and distribution systems) and identify the security dimensions and challenges affecting food systems.
2. Students will analyze the complexities of the four pillars of food insecurity and interpret how those complexities are affected by economic, social, environmental, political, and geographical factors.
3. Students will compose frameworks and practice assessing the complexities of food security within relevant dimensions (i.e., agricultural science, climate, sociology, anthropology, international relations) that identify and synthesize weaknesses and potential interventions.
4. Students will interpret the sociocultural value of agriculture from global

perspectives.
5. Students will demonstrate rigorous subject-area research, analysis, and writing skills to the substantive subject matter of the course.

ASTE5630 - Agricultural Education Student Teaching in Secondary Schools - 10 - Credits

Course Overview

Course Prefix
ASTE

Course Number
5630

Department
Applied Sciences, Technology and Education

Course Title
Agricultural Education Student Teaching in Secondary Schools

Grade Mode
Pass/Fail

Repeat Status
NR

Course Description
Students teach agriscience and technology courses in secondary and middle school settings under the guidance of clinical and Utah State University supervisors.

Credit Hours

Credit Hours Min:
10

Contact Hours

Contact Hours Min:
10

Billing Hours

Billing Hours Min:
10

Lecture Hours

Lecture Hours Min:
10

Course Learning Objectives

Course Learning Outcomes
1. Design, implement, and assess engaging, standards-based instruction that promotes student learning and achievement in secondary agricultural education settings.
2. Apply the three-circle model of agricultural education—classroom/laboratory instruction, FFA, and SAE—by utilizing community resources, experiential learning opportunities, and co-curricular activities to support students' academic, career, and personal growth.
3. Engage in professional, supervisory, and community-related responsibilities that contribute to the effective operation of an agricultural education program and reflect the role of agricultural educators in a comprehensive school system.

ASTE5635 - Career and Technical Education Study Abroad Student Teaching - 3 - 6 Credits

Course Overview

Course Prefix
ASTE

Course Number
5635

Department
Applied Sciences, Technology and Education

Course Title
Career and Technical Education Study Abroad Student Teaching

Grade Mode
Pass/Fail

Repeat Status
NR

Course Description
Students teach career and technical education topics in secondary schools in an international setting. Under the guidance of cooperating teachers and university supervisors, student teachers demonstrate competency and professionalism in teaching through this experience.

Credit Hours

Credit Hours Min:
3

Credit Hours Max:
6

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
3

Contact Hours Max:
6

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
3

Billing Hours Max:
6

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
3

Lecture Hours Max:
6

Lecture Hours Operator:
TO

Registration Restrictions
Student teaching placement

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ASTE3240 - Teaching in Laboratory Settings (CI)
- ASTE4150 - Methods of Teaching Agriculture (CI)

ASTE5640 - Modified Career and Technical Education Student Teaching - 3 - 7 Credits

Course Overview

Course Prefix
ASTE

Course Number
5640

Department
Applied Sciences, Technology and Education

Course Title
Modified Career and Technical Education Student Teaching

Grade Mode
Pass/Fail

Repeat Status
NR

Course Description
A culminating practicum experience for students seeking to earn variable student teaching credit. Students teach Career and Technical Education courses in secondary school settings under the guidance of supervisors and demonstrate competency and professionalism in teaching throughout the experience.

Credit Hours

Credit Hours Min:
3

Credit Hours Max:
7

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
3

Contact Hours Max:
7

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
3

Billing Hours Max:
7

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
3

Lecture Hours Max:
7

Lecture Hours Operator:
TO

Registration Restrictions

Admission to Teacher Education and student teaching placement

Course Learning Objectives

Course Learning Outcomes

1. Design, implement, and assess engaging, standards-based instruction that promotes student learning and achievement in secondary agricultural education settings.
2. Apply the three-circle model of agricultural education—classroom/laboratory instruction, FFA, and SAE—by utilizing community resources, experiential learning opportunities, and co-curricular activities to support students' academic, career, and personal growth.
3. Students will engage in professional, supervisory, and community-related responsibilities that contribute to the effective operation of an agricultural education program and reflect the role of agricultural educators in a comprehensive school system.

ASTE5999 - Precision Agriculture Practicum - 3 - Credits

Course Overview

Course Prefix
ASTE

Course Number
5999

Department
Applied Sciences, Technology and Education

Cross-Listed Courses

CEE5999 - Precision Agriculture Practicum, PSC5999 - Precision Agriculture Practicum

Course Title

Precision Agriculture Practicum

Grade Mode
Standard Letter

Repeat Status
NR

Course Description

Students set up, collect, and analyze multiple types of real-time sensor data on their "farm." As a final project, students utilize the data they have collected and create a prescription map for the next cropping cycle.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Junior or senior standing

Other Enrollment Recommendations

It is recommended that students complete an introductory statistics course (such as STAT1080 FOUNDATIONS OF DATA SCI (QL) or similar).

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- MATH1050 - College Algebra (QL)

or equivalent

Course Learning Objectives

Course Learning Outcomes

1. Configure and operate precision ag monitoring systems by setting up, calibrating, and adjusting sensors, controllers, and yield-mapping equipment used in modern farming operations.
2. Collect, analyze, and interpret agronomic data through hands-on experience with in-field sensing tools, software platforms, and troubleshooting methods to ensure accurate machine and data performance.
3. Apply sensor-based insights to make informed management decisions by evaluating field data, identifying operational issues, and communicating recommendations that improve efficiency and productivity.

ASTE6045 - Financial Literacy Programs - 3 - Credits

Course Overview

Course Prefix
ASTE

Course Number
6045

Department
Applied Sciences, Technology and Education

Course Title
Financial Literacy Programs

Grade Mode
Standard Letter

Repeat Status
NR

Course Description

Students take a systemic approach to understanding the relational and behavioral aspects of money within families. Topics include ways by which professionals can design financial literacy and education programs for specific audiences.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

ASTE6090 - Curriculum Design - 3 - Credits

Course Overview

Course Prefix
ASTE

Course Number
6090

Department
Applied Sciences, Technology and Education

Course Title
Curriculum Design

Grade Mode
Standard Letter

Repeat Status
NR

Course Description

This is a study of contemporary course design and development in career and technical education. Students review the complete curriculum developmental process.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Students will value the role of curriculum design in fostering deep understanding and transfer of learning by identifying essential questions and concepts.
2. Students will organize and prioritize learning goals that align with content core standards and industry benchmarks to develop meaningful, standards-based curricula for diverse learners.
3. Students will internalize the importance of valid and reliable assessment practices by interpreting student performance data to inform instructional decisions and improve learning outcomes.
4. Students will reflect on and apply the Backward Design Framework to create effective units of instruction, integrating essential learning goals, performance-based assessments, and aligned learning activities.

ASTE6100 - Research and Academic Writing - 3 - Credits

Course Overview

Course Prefix
ASTE

Course Number
6100

Department
Applied Sciences, Technology and Education

Dual-Listed Courses
ASTE7100 - Research and Academic Writing

Course Title
Research and Academic Writing

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students explore research design, the application of appropriate statistics, and data analysis.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Course Learning Objectives

Course Learning Outcomes
1. Apply principles of academic writing, appropriate citation styles, and bias-free language to produce clear, concise academic writing.
2. Analyze scholarly literature and summarize, evaluate, and synthesize information in academic writing.
3. Create original academic writing that demonstrates logical organization, coherent argumentation, and discipline-appropriate structure.
4. Evaluate and provide constructive feedback on peers' academic writing.

ASTE6140 - Reading and Applying Research - 3 - Credits

Course Overview

Course Prefix
ASTE

Course Number
6140

Department
Applied Sciences, Technology and Education

Course Title
Reading and Applying Research

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Investigation and analysis of relevant educational research that informs applications in career and technical educations and extension education environments.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes
1. Describe the purposes, assumptions, and basic methods of qualitative, quantitative, and mixed-methods research in educational contexts.
2. Identify, interpret, and assess the validity and relevance of research findings in career and technical education and related fields.
3. Utilize research findings to inform decisions, design interventions, and solve practical problems in educational settings.
4. Synthesize scholarly literature on a relevant educational topic.

ASTE6150 - Evaluation and Assessment - 3 - Credits

Course Overview

Course Prefix
ASTE

Course Number
6150

Department
Applied Sciences, Technology and Education

Course Title
Evaluation and Assessment

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course will provide an overview of the various methods used to measure and evaluate student achievement, within the cognitive, affective, and psychomotor domains. This course will review the principles of teaching and learning.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Design and align learning objectives, instructional activities, and assessment methods to ensure coherence and support for student learning.
2. Apply foundational theories and principles of assessment to develop effective and ethical evaluation practices.
3. Develop and implement a range of formative and summative assessments, including traditional, performance-based, and alternative approaches, to measure diverse learning outcomes.
4. Differentiate assessment practices and grading schemes to accommodate learner differences.

ASTE6160 - Foundations of Adult Education - 3 - Credits

Course Overview

Course Prefix
ASTE

Course Number
6160

Department
Applied Sciences, Technology and Education

Course Title
Foundations of Adult Education

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Addresses the context and providers of adult education. In addition, adult learning theories and participation models are examined.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Identify the dimensions of adult learning (e.g., experience or prior learning, body and spirit or holistic learning, adult motivation for learning, and cognition processes involved with learning)
2. Apply research-based learning theories to construct meaningful instruction, and how to adapt those to different audiences in formal and non-formal settings by designing lessons that bridge theory and practice.
3. Reflect and evaluate how their learn and teach—what experiences shape your teaching practice including your own biases and mental frames for formal and non-informal settings- and construct their own vision/philosophy of learning.

ASTE6170 - Program Planning and Evaluation - 3 - Credits

Course Overview

Course Prefix
ASTE

Course Number
6170

Department
Applied Sciences, Technology and Education

Dual-Listed Courses
ASTE7170 - Program Planning and Evaluation
Program Theory and Evaluation

Course Title
Program Planning and Evaluation

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students learn the application of theory to program planning and evaluation in informal and formal environments. The content explores evaluation theory, paradigms, stakeholder influences, evaluation designs, and reporting.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Course Learning Objectives

Course Learning Outcomes
1. Design educational programs that integrate needs assessment, stakeholder input, logic models, and evidence-based objectives within formal and nonformal contexts.
2. Develop and justify evaluation plans that align questions, designs, and data collection methods to program goals and ethical research standards.
3. Interpret and communicate evaluation findings to diverse stakeholders and recommend strategies for program improvement and accountability.

ASTE6180 - Administration and Leadership - 3 - Credits

Course Overview

Course Prefix
ASTE

Course Number
6180

Department
Applied Sciences, Technology and Education

Course Title
Administration and Leadership

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Application of administration and leadership theory in nonformal and formal environments for successful programming and organizations.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

ASTE6200 - Principles and Practices of Extension Education - 3 - Credits

Course Overview

Course Prefix
ASTE

Course Number
6200

Department
Applied Sciences, Technology and Education

Course Title
Principles and Practices of Extension Education

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
History, philosophy, and organizational structure of U.S. and international extension organizations, including programming models, teaching strategies, and accountability.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Analyze the history, philosophy, and legislative foundations of Cooperative Extension.
2. Evaluate emerging issues affecting Utah communities and assess their implications for Extension programming.
3. Create a program plan related to a relevant issue faced by Cooperative Extension.

ASTE6220 - Volunteer Programs and Partnerships - 3 - Credits

Course Overview

Course Prefix
ASTE

Course Number
6220

Department
Applied Sciences, Technology and Education

Dual-Listed Courses
ASTE5220 - Volunteer Programs and Partnerships

Course Title
Volunteer Programs and Partnerships

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course explores the use and management of volunteers and partnerships in the development and implementation of extension, non-formal, and outreach education programs. Additional coursework may be required for graduate students.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Design and manage volunteer programs that align with organizational mission and strategy.
2. Apply leadership and management principles to recruit, train, supervise, and retain volunteers.
3. Critically evaluate and improve volunteer engagement practices using data, theory, and reflection.
4. Demonstrate civic and ethical responsibility through meaningful community-based volunteer experience.

ASTE6260 - Environmental Impacts of Agricultural Systems - 3 - Credits

Course Overview

Course Prefix
ASTE

Course Number
6260

Department
Applied Sciences, Technology and Education

Course Title
Environmental Impacts of Agricultural Systems

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students investigate the relationship between agricultural practices and environmental quality, including control of agricultural nonpoint-source pollution.

Credit Hours

Credit Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Explain Federal Laws/Regulations as they impact agricultural production and interface with environmental issues.
2. Access societal expectations of specific agricultural practices with an environmental quality lens

ASTE6300 - Advanced Teaching Strategies - 3 - Credits

Course Overview

Course Prefix
ASTE

Course Number
6300

Department
Applied Sciences, Technology and Education

Course Title
Advanced Teaching Strategies

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Explores advanced application of teaching strategies and theory, as well as the creation of innovative classroom materials. Check with major department for limitations on number of credits that can be counted for graduation.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Apply the research-based teaching strategies to design a project-based learning plan that engages learners.
2. Evaluate and justify curricular design decisions through reflection on cognitive domains, learner engagement, and instructional effectiveness.
3. Create and share a professional presentation or collaborative learning experience that contributes to a community of practice.

ASTE6310 - Advanced Agriculture Teaching Methods - 3 - Credits

Course Overview

Course Prefix
ASTE

Course Number
6310

Department
Applied Sciences, Technology and Education

Course Title
Advanced Agriculture Teaching Methods

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course focuses on advanced methods of classroom teaching. This course is designed for those who have had basic teaching experience or have taken methods classes previously. It is designed to enhance and build upon practicing teachers' experiences and knowledge in order to become a more expert practitioner.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

ASTE6315 - Career and Technical Student Organization Development - 3 - Credits

Course Overview

Course Prefix
ASTE

Course Number
6315

Department
Applied Sciences, Technology and Education

Course Title
Career and Technical Student Organization Development

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students will develop plans for increasing secondary and postsecondary student engagement in Career and Technical Education (CTE) student organizations related to their CTE areas.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Analyze the historical, philosophical, and structural foundations of Career and Technical Student Organizations (CTSOs) and their role in American education.
2. Evaluate the effectiveness and quality of CTSOs by applying established criteria and addressing current and emerging issues in the field.
3. Design and implement strategies that promote sustainable CTSO programs through effective marketing, funding, and advising practices.
4. Facilitate student leadership, personal growth, and career development by creating opportunities and materials that support meaningful engagement in CTSOs.

ASTE6320 - Classroom Management, Student Motivation, and Guidance - 3 - Credits

Course Overview

Course Prefix
ASTE

Course Number
6320

Department
Applied Sciences, Technology and Education

Course Title
Classroom Management, Student Motivation, and Guidance

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This class presents students with a multiple-strategy approach for increasing teachers' effectiveness and satisfaction in classroom management and discipline.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Engage in discussions analyzing the interconnections between learner engagement and the structural elements of educational settings.
2. Construct systems for educational settings that impact of peer relationships, educator influence, and classroom management approaches on fostering inclusive and motivating learning.
3. Apply strategies that promote self-regulation, motivation, and positive behavior among learners within Career and Technical Education contexts.
4. Create a comprehensive classroom management plan that integrates principles of engagement to meet diverse learner needs in an educational setting.

ASTE6350 - Safety and Risk Management for CTE Experential Learning Opportunities - 3 - Credits

Course Overview

Course Prefix
ASTE

Course Number
6350

Department
Applied Sciences, Technology and Education

Course Title
Safety and Risk Management for CTE Experential Learning Opportunities

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Major concepts associated with the development, enactment, and execution of policy of experiential learning programs. Focus will be on the examination and development of policy. This course provides students with an understanding of safety concepts, principles, and practices as they relate to risk management for extension.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Identify contemporary safety and management issues for experiential education activities
2. Explain the relevance of various risk behavior theories
3. Discuss risk management models relevant to experiential education activities
4. Apply a risk management model to an experiential learning activity

ASTE6360 - History, Philosophy, and Policy Development in Career and Technical Education - 3 - Credits

Course Overview

Course Prefix
ASTE

Course Number
6360

Department
Applied Sciences, Technology and Education

Course Title
History, Philosophy, and Policy Development in Career and Technical Education

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Explores the historical and philosophical foundations of extension and career and technical education required to understand current policy development.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes
1. Identify key historical, philosophical, and policy developments in Career & Technical Education and explain their impact through history and today.
2. Identify key individuals who have influenced Career & Technical Education and explain the impact of their ideas.
3. Explain strategies to influence policy development at the local, state, and national levels.
4. Take a position on a contemporary issue in Career & Technical Education and articulate a reasonable defense of their position based in scholarly sources.

ASTE6370 - Grant Writing and Management - 3 - Credits

Course Overview

Course Prefix
ASTE

Course Number
6370

Department
Applied Sciences, Technology and Education

Dual-Listed Courses
ASTE7370 - Grant Writing and Management

Course Title
Grant Writing and Management

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
The course prepares students with the experiences and tools related to finding grants, grant proposal preparation, the evaluation of grant applications, and grant management and reporting.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes
1. Critically evaluate funding opportunities and challenges
2. Design and develop a competitive grant proposal
3. Apply professional writing and communication skills in grant development
4. Conduct and respond to peer reviews to improve proposal quality

ASTE6380 - Mentoring and Supervision - 3 - Credits

Course Overview

Course Prefix
ASTE

Course Number
6380

Department
Applied Sciences, Technology and Education

Course Title
Mentoring and Supervision

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Explores the role of supervision and mentoring in the success of teaching professionals. Reviews four components of professional practice. Examines techniques for observation and conferencing. Students reflect upon their own teaching/mentoring experiences and the impact upon professional practice.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes
1. Critically examine foundational theories and practices of mentoring and supervision
2. Develop and apply effective mentoring strategies to build and sustain professional relationships
3. Demonstrate cultural humility and responsiveness in mentoring contexts
4. Navigate challenges and transitions in mentoring relationships with professionalism and empathy

ASTE6400 - Food, Land, and People - 1 - 3 Credits

Course Overview

Course Prefix
ASTE

Course Number
6400

Department
Applied Sciences, Technology and Education

Dual-Listed Courses
ASTE5400 - Food, Land, and People

Course Title
Food, Land, and People

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Designed for pre-service (undergraduate, elementary education) or practicing, in-service (graduate) teachers. Offers development for infusing agriculture and the concepts of food, land, and people into existing curriculum standards and objectives. Presentation of agricultural-related instructional units, as well as research-based teaching strategies will be demonstrated.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

No Requirements

ASTE6440 - Technology and Society: Linking CTE with STEM - 3 - Credits

Course Overview

Course Prefix
ASTE

Course Number
6440

Department
Applied Sciences, Technology and Education

Course Title
Technology and Society: Linking CTE with STEM

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Challenges students to develop an understanding of the dynamic interaction of science and technology along with its application to career and technical education.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

ASTE6450 - Graduate Topics in Agricultural Education - 3 - Credits

Course Overview

Course Prefix
ASTE

Course Number
6450

Department
Applied Sciences, Technology and Education

Course Title
Graduate Topics in Agricultural Education

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Program planning for locally applied curriculum design to meet student interests and community needs for career and technical educators.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

ASTE6460 - Integrating Career and Tech Educ Curriculum with Science, Technology, Engineering, and Mathematics - 3 - Credits

Course Overview

Course Prefix
ASTE

Course Number
6460

Department
Applied Sciences, Technology and Education

Course Title
Integrating Career and Tech Educ Curriculum with Science, Technology, Engineering, and Mathematics

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course engages students with essential understandings and application practices for integrating Career and Technical Education (CTE) curricula with science, technology, engineering, and mathematics (STEM) concepts.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

ASTE6470 - Digital Tools for Learning - 3 - Credits

Course Overview

Course Prefix
ASTE

Course Number
6470

Department
Applied Sciences, Technology and Education

Course Title
Digital Tools for Learning

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course explores various classroom technologies and how to use technology tools to enhance student learning.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

ASTE6600 - Biosecurity I - 3 - Credits

Course Overview

Course Prefix
ASTE

Course Number
6600

Department
Applied Sciences, Technology and Education

Cross-Listed Courses
CAI6600 - Biosecurity I

Dual-Listed Courses
ASTE5600 - Biosecurity I

Course Title
Biosecurity I

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course is the first in a two-class series examining interdisciplinary biosecurity issues, including climate risks, infectious diseases, quarantined pests, invasive alien species, living modified organisms, and biological weapons. Additional coursework is required for the graduate-level course.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes
1. Students will recognize key domains in biosecurity by utilizing Meyerson et al.'s integrated concept of biosecurity, reaching across a range of fields and problem sets.
2. Students will analyze and interpret their exposure to the scientific foundations, historical developments, and contemporary forces that shape current and emerging biosecurity challenges.
3. Students will prepare oral and written statements on key policy concepts, governance frameworks, sociocultural communication, and ethical guidelines regarding biosecurity across a range of fields and disciplines.
4. Students will reflect on their role as biosecurity informants and practice communication tactics for improving problem-solving and solution development.
5. Students will demonstrate rigorous subject-area research, analysis, and writing skills to the substantive subject matter of the course.

ASTE6610 - Biosecurity II - 3 - Credits

Course Overview

Course Prefix
ASTE

Course Number
6610

Department
Applied Sciences, Technology and Education

Cross-Listed Courses
CAI6610 - Biosecurity II

Dual-Listed Courses
ASTE5610 - Biosecurity II

Course Title
Biosecurity II

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course is the second in a two-class series providing an in-depth examination of interdisciplinary biosecurity issues and challenges, potentially including risks of a shifting climate, infectious diseases, quarantined pests, invasive alien species, living modified organisms, and biological weapons. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Other Enrollment Recommendations
It is recommended that students complete ASTE5600 BIOSECURITY I/ASTE6600 BIOSECURITY I or CAI5600 BIOSECURITY I /CAI6600 BIOSECURITY I before taking this course.

No Requirements

Course Learning Objectives

Course Learning Outcomes
1. Students will recall key domains in biosecurity and use current case studies from across a range of fields and problem sets to synthesize the scope of risk and system resiliencies.
2. Students will compose frameworks and practice assessing the complexities of biosecurity prevention, they will formulate potential solutions for biological threats, including natural outbreaks and deliberate acts.
3. Students will prepare oral and written statements on ethical dilemmas such as public health, scientific research, private property, and individual rights regarding biosecurity across a range of fields and disciplines.
4. Students will reflect on the average citizen's role and critically assess the roles and responsibilities of various stakeholders, such as governments, research institutions, industries, and non-governmental organizations, in promoting effective biosecurity measures.
5. Students will demonstrate rigorous subject-area research, analysis, and writing skills to the substantive subject matter of the course.

ASTE6620 - Food Security and Solutions - 3 - Credits

Course Overview

Course Prefix
ASTE

Course Number
6620

Department
Applied Sciences, Technology and Education

Cross-Listed Courses
CAI6620 - Food Security and Solutions

Dual-Listed Courses
ASTE5620 - Food Security and Solutions

Course Title
Food Security and Solutions

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course gives students a deep-dive examination of global food systems' security and sustainability challenges. It employs a holistic view of food security and engages a multidisciplinary approach to solutions for building resilience in food systems. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Students will recognize the key domains of global food production (i.e., supply chains and distribution systems) and identify the security dimensions and challenges affecting food systems.
2. Students will analyze the complexities of the four pillars of food insecurity and interpret how those complexities are affected by economic, social, environmental, political, and geographical factors.
3. Students will compose frameworks and practice assessing the complexities of food security within relevant dimensions (i.e., agricultural science, climate, sociology, anthropology, international relations) that identify and synthesize weaknesses and potential interventions.
4. Students will interpret the sociocultural value of agriculture from global perspectives.
5. Students will demonstrate rigorous subject-area research, analysis, and writing skills to the substantive subject matter of the course.

ASTE6750 - Research Methods and Design - 3 - Credits

Course Overview

Course Prefix
ASTE

Course Number
6750

Department
Applied Sciences, Technology and Education

Course Title
Research Methods and Design

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This is an introduction to practical research planning and design. It guides students from proposal selection to completed proposal to final research report.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Develop a clear, literature-supported problem statement that demonstrates appropriate APA formatting and scholarly writing.
2. Select, summarize, and justify appropriate research designs in applied educational and CTE research contexts.
3. Construct aligned research questions, hypotheses, and objectives based on a defined research problem.
4. Design valid and reliable data-collection instruments and sampling procedures appropriate for the chosen research design.

ASTE6800 - Analysis of Social Research Data - 3 - Credits

Course Overview

Course Prefix
ASTE

Course Number
6800

Department
Applied Sciences, Technology and Education

Course Title
Analysis of Social Research Data

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces descriptive and inferential statistics most relevant to career and technical education. Topics include measures of central tendency and variability, and sampling distributions. Other topics include hypothesis testing using parametric and non-parametric procedures.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ASTE6750 - Research Methods and Design

Course Learning Objectives

Course Learning Outcomes

1. Differentiate the purposes and assumptions of foundational quantitative data analysis used in applied social sciences research
2. Select and demonstrate the use of quantitative data analysis techniques commonly applied to research in the field of social sciences
3. Interpret and report data analysis findings using APA 7th Edition formatting to publish results in a scholarly format (e.g. peer-reviewed journal, thesis, or dissertation).
4. Develop a data analysis proposal for a given research topic related to social sciences

ASTE6810 - Contemporary Issues - 3 - Credits

Course Overview

Course Prefix
ASTE

Course Number
6810

Department
Applied Sciences, Technology and Education

Course Title
Contemporary Issues

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This is the study of present and future foundational professional developments in technology and industrial education. Students identify and investigate contemporary trends and issues affecting and facing technology and industrial education.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

ASTE6820 - Administration and Organization - 3 - Credits

Course Overview

Course Prefix
ASTE

Course Number
6820

Department
Applied Sciences, Technology and Education

Course Title
Administration and Organization

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students learn administrative and supervisory techniques for successful operation of technology education and applied technology education programs.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

ASTE6900 - Graduate Independent Study in Career and Technical Education - 1 - 6 Credits

Course Overview

Course Prefix
ASTE

Course Number
6900

Department
Applied Sciences, Technology and Education

Course Title
Graduate Independent Study in Career and Technical Education

Grade Mode
Temporary Standard Letter

Repeat Status
RP

Course Description
This course consists of independent study in an area of Career and Technical Education. Committee approval of the project and allowable credits is required.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
6

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
6

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
6

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
6

Lecture Hours Operator:
TO

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Plan and develop an independent research project using appropriate methodologies for the discipline.
2. Develop a deeper, enriched understanding of a specific topic and the ability to situate oneself within the broader scholarly conversation.
3. Conduct scholarly activities in an ethical manner.

ASTE6910 - Design Thinking for Career and Technical Education - 3 - Credits

Course Overview

Course Prefix
ASTE

Course Number
6910

Department
Applied Sciences, Technology and Education

Course Title

Design Thinking for Career and Technical Education

Grade Mode
Standard Letter

Repeat Status
NR

Course Description

This course introduces the use of the design thinking for curriculum development in career and technical education through Engineering Design Process and the Scientific Method to identify and solve real-world problems.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

ASTE6920 - Communication Tools for Extension - 3 - Credits

Course Overview

Course Prefix
ASTE

Course Number
6920

Department
Applied Sciences, Technology and Education

Course Title

Communication Tools for Extension

Grade Mode
Standard Letter

Repeat Status
NR

Course Description

This course emphasizes preparing professionals in outreach programs to communicate with stakeholders using relevant technologies.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

ASTE6950 - Graduate Internship - 1 - 6 Credits

Course Overview

Course Prefix
ASTE

Course Number
6950

Department
Applied Sciences, Technology and Education

Course Title
Graduate Internship

Grade Mode
Temporary Standard Letter

Repeat Status
RP

Course Description
This course is designed for graduate students who wish to acquire or upgrade their experience in an occupational field related to their area of study. Students earn one credit per 50 hours of experience, repeatable for up to 6 credits.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
6

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
6

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
6

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
6

Lecture Hours Operator:
TO

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Explore career alternatives prior to graduation.
2. Assess interests and abilities in a field of study.
3. Develop work habits and attitudes necessary for career success.
4. Execute personal performance objectives (mutually agreed upon by the employer, faculty supervisor, and the student) related to their internship assignment.

ASTE6960 - Graduate Seminar - 1 - 3 Credits

Course Overview

Course Prefix
ASTE

Course Number
6960

Department
Applied Sciences, Technology and Education

Course Title
Graduate Seminar

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Identification of research problems and critical issues, consideration of critical issues and research methods, and application of data analysis procedures under faculty direction.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Engage in meaningful discussion and debate on complex topics
2. Cultivate supportive relationships with mentors, advisors, and colleagues whose expertise can assist in the development of one's professional competencies

ASTE6970 - Research and Thesis - 1 - 9 Credits

Course Overview

Course Prefix
ASTE

Course Number
6970

Department
Applied Sciences, Technology and Education

Course Title
Research and Thesis

Grade Mode
Temporary Pass/Fail

Repeat Status
RP

Course Description
This course is designed for students preparing a master's degree thesis.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
9

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
9

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
9

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
9

Lecture Hours Operator:
TO

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Students will be able to communicate research findings effectively through both a written thesis document and an oral defense

ASTE6990 - Continuing Graduate Advisement - 1 - 3 Credits

Course Overview

Course Prefix
ASTE

Course Number
6990

Department
Applied Sciences, Technology and Education

Course Title
Continuing Graduate Advisement

Grade Mode
Temporary Pass/Fail

Repeat Status
RP

Course Description
This course provides graduate students with continued support and advisement. It is usually taken following completion of all coursework required for the degree.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

No Requirements

ASTE7000 - Principles and Practices of Community College Education - 3 - Credits

Course Overview

Course Prefix
ASTE

Course Number
7000

Department
Applied Sciences, Technology and Education

Course Title
Principles and Practices of Community College Education

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students examine the American two-year college, including historical and philosophical development, curricula, students and the learning process, faculty and instruction, administration and governance, support, and control. Principles, practices, and problems of community colleges in America are emphasized.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

ASTE7090 - Instructional Design for Distance Education - 3 - Credits

Course Overview

Course Prefix
ASTE

Course Number
7090

Department
Applied Sciences, Technology and Education

Course Title
Instructional Design for Distance Education

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course examines key techniques in design of instruction for distance learning. Students apply principles to specific design problems. The course introduces techniques and tools for engaging meaningful online instruction.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

ASTE7100 - Research and Academic Writing - 3 - Credits

Course Overview

Course Prefix
ASTE

Course Number
7100

Department
Applied Sciences, Technology and Education

Dual-Listed Courses
ASTE6100 - Research and Academic Writing

Course Title
Research and Academic Writing

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students learn techniques for conducting an occupational analysis (both job and task analysis) and for developing performance-based or competency-based curriculum. The course explores industrial and educational applications for this style of curriculum development.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Course Learning Objectives

Course Learning Outcomes

1. Apply principles of academic writing, appropriate citation styles, and bias-free language to produce clear, concise academic writing.
2. Analyze scholarly literature and summarize, evaluate, and synthesize information in academic writing.
3. Create original academic writing that demonstrates logical organization, coherent argumentation, and discipline-appropriate structure.
4. Evaluate and provide constructive feedback on peers' academic writing.

ASTE7170 - Program Planning and Evaluation Program Theory and Evaluation - 3 - Credits

Course Overview

Course Prefix
ASTE

Course Number
7170

Department
Applied Sciences, Technology and Education

Dual-Listed Courses
ASTE6170 - Program Planning and Evaluation

Course Title
Program Planning and Evaluation
Program Theory and Evaluation

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students learn the application of theory to program planning and evaluation in informal and formal environments. The content explores evaluation theory, paradigms, stakeholder influences, evaluation designs, and reporting.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Course Learning Objectives

Course Learning Outcomes
1. Design educational programs that integrate needs assessment, stakeholder input, logic models, and evidence-based objectives within formal and nonformal contexts.
2. Develop and justify evaluation plans that align questions, designs, and data collection methods to program goals and ethical research standards.
3. Interpret and communicate evaluation findings to diverse stakeholders and recommend strategies for program improvement and accountability.

ASTE7200 - Qualitative Methods - 3 - Credits

Course Overview

Course Prefix
ASTE

Course Number
7200

Department
Applied Sciences, Technology and Education

Course Title
Qualitative Methods

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course focuses on designing and conducting qualitative research related to CTE disciplines. Students practice methods for data collection, including focus groups, interviews, and document analysis. Students are introduced to mixed methods.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Earn a minimum grade of C in the following:
- ASTE6750 - Research Methods and Design

Course Learning Objectives

Course Learning Outcomes
1. Explain the theoretical and philosophical foundations of qualitative and mixed methods research.
2. Describe and differentiate qualitative research designs, mixed methods designs, and their approaches to sampling, data collection, and trustworthiness or validity.

3. Analyze and interpret qualitative and mixed methods data using appropriate analytical techniques.
4. Develop a mixed methods research proposal.

ASTE7300 - Mixed Methods Research - 3 - Credits

Course Overview

Course Prefix
ASTE

Course Number
7300

Department
Applied Sciences, Technology and Education

Course Title
Mixed Methods Research

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course focuses on the design and analysis of mixed methods research. Emphasis is on examining epistemological and philosophical issues, sampling, data collection, alternative designs, multiple mixed methods research models, analytic techniques, and relationships among research design, theory, and epistemology.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ASTE6750 - Research Methods and Design
- ASTE7200 - Qualitative Methods

ASTE7310 - Theories of Teaching and Learning - 3 - Credits

Course Overview

Course Prefix
ASTE

Course Number
7310

Department
Applied Sciences, Technology and Education

Course Title
Theories of Teaching and Learning

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students explore and examine research-based learning theories related to effective teaching models/methods and strategies.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Explain and evaluate major theories and paradigms of learning by identifying their key principles, foundational scholars, and implications for human learning and development.
2. Critically compare and analyze diverse learning theories and paradigms relevant to Career and Technical Education (CTE), demonstrating the ability to articulate and defend informed perspectives on their applications and limitations.
3. Integrate theoretical understanding with practice by connecting epistemological foundations and learning theories to personal educational beliefs, research approaches, and professional practice.

ASTE7370 - Grant Writing and Management - 3 - Credits

Course Overview

Course Prefix
ASTE

Course Number
7370

Department
Applied Sciences, Technology and Education

Dual-Listed Courses
ASTE6370 - Grant Writing and Management

Course Title
Grant Writing and Management

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
The course prepares students with the experiences and tools related to finding grants, grant proposal preparation, the evaluation of grant applications, and grant management and reporting.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes
1. Critically evaluate funding opportunities and challenges
2. Design and develop a competitive grant proposal
3. Apply professional writing and communication skills in grant development
4. Conduct and respond to peer reviews to improve proposal quality

ASTE7400 - Occupational Analysis and Curriculum Development - 3 - Credits

Course Overview

Course Prefix
ASTE

Course Number
7400

Department
Applied Sciences, Technology and Education

Cross-Listed Courses
TEE7400 - Occupational Analysis and Curriculum Development

Course Title
Occupational Analysis and Curriculum Development

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Explores relationship between education and the community, with special emphasis on community needs and interagency relationships needed for the development of a total community education program. Furthers understanding of leadership and agency, through exploring and examining contemporary and perennial issues from multiple perspectives in a diverse higher-educational context.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes
1. Describe and explain current and emerging practices, trends, and processes in workforce training and development.
2. Design and implement an occupational needs analysis by developing, applying, and interpreting appropriate data collection and analysis tools.
3. Evaluate and identify training and curriculum gaps to recommend evidence-based strategies for improving workforce education and development programs.

ASTE7500 - Diffusion of Innovations - 3 - Credits

Course Overview

Course Prefix
ASTE

Course Number
7500

Department
Applied Sciences, Technology and Education

Course Title
Diffusion of Innovations

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students explore processes by which professional change agents influence the introduction, adoption, and diffusion of technological change. Course content is applicable to persons who work closely with people in formal and informal educational settings.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Analyze and apply major theories and models of innovation diffusion to interpret how ideas, technologies, and practices spread across social systems.
2. Evaluate factors influencing adoption—including innovation attributes, communication networks, organizational contexts, and change agent effectiveness—and assess their implications for professional practice.
3. Synthesize concepts from diffusion theory, social learning, and systems thinking to design strategies that enhance innovation adoption and manage change in educational or community settings.

ASTE7600 - The Professoriate - 2 - Credits

Course Overview

Course Prefix
ASTE

Course Number
7600

Department
Applied Sciences, Technology and Education

Course Title
The Professoriate

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
The purpose of this course is to provide a bridge for doctoral students between their university experience and coursework to their future work as scholars in academic positions.

Credit Hours

Credit Hours Min:
2

Contact Hours

Contact Hours Min:
2

Billing Hours

Billing Hours Min:
2

Lecture Hours

Lecture Hours Min:
2

No Requirements

ASTE7800 - Advanced Data Analysis - 3 - Credits

Course Overview

Course Prefix
ASTE

Course Number
7800

Department
Applied Sciences, Technology and Education

Course Title
Advanced Data Analysis

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course explores complex research designs and statistical analysis techniques for education and social science research.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ASTE6800 - Analysis of Social Research Data

Course Learning Objectives

Course Learning Outcomes
1. Differentiate the purposes and assumptions of advanced quantitative data analysis used in applied social sciences research
2. Select and demonstrate the use of advanced quantitative data analysis techniques commonly applied to research in the field of social sciences
3. Interpret and report data analysis findings using APA 7th Edition formatting to publish results in a scholarly format (e.g. peer-reviewed journal, thesis, or dissertation).
4. Develop a data analysis proposal for a given research topic related to social sciences

ASTE7810 - Research Seminar - 1 - 3 Credits

Course Overview

Course Prefix
ASTE

Course Number
7810

Department
Applied Sciences, Technology and Education

Course Title
Research Seminar

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course consists of discussions under faculty direction on timely and pertinent topics, issues, and trends impacting the field of study.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Identify core research methodologies and terminology, including basic versus applied research, theoretical frameworks, and qualitative versus quantitative approaches.
2. Develop skills for written work that adheres to APA formatting style guidelines
3. Apply information literacy and critical thinking skills to synthesize research findings on a chosen topic.

ASTE7850 - Readings and Conference - 1 - 3 Credits

Course Overview

Course Prefix
ASTE

Course Number
7850

Department
Applied Sciences, Technology and Education

Course Title
Readings and Conference

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
This course includes advanced individualized and group study on selected topics in career and technical education.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

No Requirements

ASTE7900 - Independent Study - 1 - 12 Credits

Course Overview

Course Prefix
ASTE

Course Number
7900

Department
Applied Sciences, Technology and Education

Course Title
Independent Study

Grade Mode
Temporary Standard Letter

Repeat Status
RP

Course Description
This is an individually directed educational experience. Program chair approval is required before registration.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
12

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
12

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
12

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
12

Lecture Hours Operator:
TO

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Plan and develop an independent research project using appropriate methodologies for the discipline.
2. Develop a deeper, enriched understanding of a specific topic and the ability to situate oneself within the broader scholarly conversation.
3. Conduct scholarly activities in an ethical manner.
4. Present complex information in a clear, accurate, and compelling manner.

ASTE7970 - Dissertation Research - 1 - 18 Credits

Course Overview

Course Prefix
ASTE

Course Number
7970

Department
Applied Sciences, Technology and Education

Course Title
Dissertation Research

Grade Mode
Temporary Pass/Fail

Repeat Status
RP

Course Description
This course consists of Individual work on research problems for students enrolled in doctoral programs. It emphasizes writing and editorial techniques.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
18

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
18

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
18

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
18

Lecture Hours Operator:
TO

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Students will be able to communicate complex research findings effectively through both a written dissertation document and an oral defense.

ASTE7990 - Continuing Graduate Advisement - 1 - 9 Credits

Course Overview

Course Prefix
ASTE

Course Number
7990

Department
Applied Sciences, Technology and Education

Course Title
Continuing Graduate Advisement

Grade Mode
Temporary Pass/Fail

Repeat Status
NR

Course Description
This course is designed for individual students to work on their graduate studies under the advisement of their graduate committee.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
9

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
9

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
9

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
9

Lecture Hours Operator:
TO

No Requirements

AUTO1000 - Introduction to Transportation Technology I - 2 - Credits

Course Overview

Course Prefix
AUTO

Course Number
1000

Department
Technology, Design & Technical Ed

Cross-Listed Courses
DSME1000 - Introduction to Transportation Technology I

Course Title
Introduction to Transportation Technology I

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Introductory course in automotive or diesel technology develops shop safety and skills. Topics include manuals and systems, precision measurement, tires and wheels, bearings, headlamp adjustment, oils and fluids, cleaning methods, gaskets, cooling systems, belts, hoses.

Credit Hours

Credit Hours Min:
2

Contact Hours

Contact Hours Min:
2

Billing Hours

Billing Hours Min:
2

Lecture Hours

Lecture Hours Min:
2

No Requirements

AUTO1010 - Introduction to Transportation Technology II - 5 - Credits

Course Overview

Course Prefix
AUTO

Course Number
1010

Department
Technology, Design & Technical Ed

Course Title
Introduction to Transportation Technology II

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Continuation of AUTO 1000 . Students will continue to learn how to service, troubleshoot and repair modern automobiles.

Credit Hours

Credit Hours
Min:
5

Contact Hours

Contact Hours
Min:
5

Billing Hours

Billing Hours
Min:
5

Lecture Hours

Lecture Hours
Min:
5

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- AUTO1000 - Introduction to Transportation Technology I

AUTO1020 - Vehicle Maintenance - 3 - Credits

Course Overview

Course Prefix
AUTO

Course Number
1020

Department
Technology, Design & Technical Ed

Course Title
Vehicle Maintenance

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students learn the basic maintenance, care, and best practices for their automobiles. From oil changes to tire and brake repair, students obtain a hands-on opportunity to learn vehicle maintenance basics.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

AUTO1030 - Small Engine Repair - 3 - Credits

Course Overview

Course Prefix
AUTO

Course Number
1030

Department
Technology, Design & Technical Ed

Course Title
Small Engine Repair

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course prepares individuals to maintain and repair small internal combustion engines used on portable power equipment, such as lawn and garden equipment. Work ethics, productivity, and safety are integral parts of the classroom and laboratory activities.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Course Learning Objectives

Course Learning Outcomes

1. Students will be able to identify and use basic hand tools and shop equipment.
2. Students will be able to identify and perform basic services on a small engine.
3. Students will be able to perform a diagnosis on a small engine.
4. Students will be able to assemble and disassemble a small gas engine.
5. Students will be able to solve basic mathematical equations related to the automotive field.

AUTO1100 - Engine Repair Theory - 3 - Credits

Course Overview

Course Prefix
AUTO

Course Number
1100

Department
Technology, Design & Technical Ed

Course Title
Engine Repair Theory

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Will study engine types, construction, operating principles, and performance. Related physics and mathematics are emphasized, detailed examination is made of lubricating systems, cooling systems, timing valves and bearings, as applied to gas and diesel-powered units.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Corequisite

Type
Corequisite

Required

Enroll in the following Courses:

- AUTO1105 - Engine Repair Lab

AUTO1105 - Engine Repair Lab - 3 - Credits

Course Overview

Course Prefix
AUTO

Course Number
1105

Department
Technology, Design & Technical Ed

Course Title
Engine Repair Lab

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Offers shop practice in engine disassembly and inspection, valve and seat reconditioning, and installation, checking tolerance, fitting parts, and engine reassembling. Students complete all P-1 and P-2 NATEF tasks for the area of study.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Corequisite

Type
Corequisite

Corequisite

Enroll in the following Courses:

- AUTO1100 - Engine Repair Theory

AUTO1200 - Automatic Transmission/ Transaxle Theory - 3 - Credits

Course Overview

Course Prefix
AUTO

Course Number
1200

Department
Technology, Design & Technical Ed

Course Title
Automatic Transmission/Transaxle Theory

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Covers the principles of the automatic transmission system. Including gear sets, apply devices, power flow, hydraulic systems, torque converter, shift controls (manual, hydraulic and electronic) problem solving, repair procedures, and maintenance procedures. Physics and math will be included as part of system operation.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Corequisite

Type
Corequisite

Required

Enroll in the following Courses:

- AUTO1205 - Automatic Transmission/Transaxle Lab

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- AUTO1000 - Introduction to Transportation Technology I

AUTO1205 - Automatic Transmission/ Transaxle Lab - 2 - Credits

Course Overview

Course Prefix
AUTO

Course Number
1205

Department
Technology, Design & Technical Ed

Course Title
Automatic Transmission/Transaxle Lab

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students will complete checks necessary to analyze and diagnose automatic transmission systems. Lab assignments include major and minor repair procedures including disassembly, verifying clearances and specifications and reassembly to manufacturer specifications. Students will have the opportunity to complete all P-1 and P-2 NATEF tasks for this area of study. Completion of all tasks will require students to plan and use the time available wisely.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Simple Requisites

Corequisite

Type
Corequisite

Required

Enroll in the following Courses:

- AUTO1200 - Automatic Transmission/Transaxle Theory

AUTO1300 - Manual Drive Train and Axle Theory - 3 - Credits

Course Overview

Course Prefix
AUTO

Course Number
1300

Department
Technology, Design & Technical Ed

Course Title
Manual Drive Train and Axle Theory

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Studies the theory of manual transmission, trans axles, drive shafts, axle shafts, and differential assemblies. A study of four wheel drive and clutch components as used in manual drive trains will also be included.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Corequisite

Type
Corequisite

Required

Enroll in the following Courses:

- AUTO1305 - Manual Drive Train and Axle Lab

AUTO1305 - Manual Drive Train and Axle Lab - 2 - Credits

Course Overview

Course Prefix
AUTO

Course Number
1305

Department
Technology, Design & Technical Ed

Course Title
Manual Drive Train and Axle Lab

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students will complete the removal, tear down, assembly, and installation procedure on a standard transmission, trans axle, differential assembly and clutch assembly. They will diagnose the need of required replacement parts on all manual drive train components. They will also complete all P-1 and P-2 NATEF requirements for this area of study.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Simple Requisites

Corequisite

Type
Corequisite

Required

Enroll in the following Courses:

- AUTO1300 - Manual Drive Train and Axle Theory

AUTO1400 - Suspension and Steering Theory - 3 - Credits

Course Overview

Course Prefix
AUTO

Course Number
1400

Department
Technology, Design & Technical Ed

Course Title
Suspension and Steering Theory

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Will study the theory of SRS Systems Manual, power steering systems, rack and pinion systems, McPherson Strut Suspension Systems, and short and long arm suspension systems. Will also study two and four wheel alignment procedures and steering geometry as well as tire wear problems. Students will also learn the theory behind tire and wheel vibrations. Where applicable, related math and physics will be taught.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Corequisite

Type
Corequisite

Required

Enroll in the following Courses:

- AUTO1405 - Suspension and Steering Lab

AUTO1405 - Suspension and Steering Lab - 3 - Credits

Course Overview

Course Prefix
AUTO

Course Number
1405

Department
Technology, Design & Technical Ed

Course Title
Suspension and Steering Lab

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students will complete as many as four wheel alignment procedures and wheel balances as time permits, as well as all P-1 and P-2 NATEF tasks for this area of study.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Corequisite

Type
Corequisite

Required

Enroll in the following Courses:

- AUTO1400 - Suspension and Steering Theory

AUTO1500 - Brakes - Theory - 3 - Credits

Course Overview

Course Prefix
AUTO

Course Number
1500

Department
Technology, Design & Technical Ed

Course Title
Brakes - Theory

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Covers the principles of the automotive braking system. Includes the study of ABS, manual and power brake system, covers disc brakes, and drum brakes as well as power assist units. Where applicable, related math and physics will be taught.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Corequisite

Type
Corequisite

Required

Enroll in the following Courses:

- AUTO1505 - Brakes - Lab

AUTO1505 - Brakes - Lab - 2 - Credits

Course Overview

Course Prefix
AUTO

Course Number
1505

Department
Technology, Design & Technical Ed

Course Title
Brakes - Lab

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students will complete necessary pressure checks to diagnose and analyze brake problems and will complete major and minor brake work, which will include turning drums and rotors on a brake lathe. Students will complete all P-1 and P-2 NATEF tasks for this area of study.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Simple Requisites

Corequisite

Type
Corequisite

Required

Enroll in the following Courses:

- AUTO1500 - Brakes - Theory

AUTO1550 - Professional Vocational Leadership (VICA) - 1 - Credits

Course Overview

Course Prefix
AUTO

Course Number
1550

Department
Technology, Design & Technical Ed

Course Title
Professional Vocational Leadership (VICA)

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Supports and facilitates the goals and objectives of Vocational Industrial Clubs of America (VICA). Students will gain skills in the following areas: personal development, service, team building and leadership, workplace skills, and interview skills. Students may participate in regional, state and national competitions.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

No Requirements

AUTO1600 - Electrical and Electronics I Theory - 3 - Credits

Course Overview

Course Prefix
AUTO

Course Number
1600

Department
Technology, Design & Technical Ed

Course Title
Electrical and Electronics I Theory

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Complete study of the automobile electrical system, which includes battery performance and testing, starting system diagnosis and repair, charging system diagnosis and repair. Proper use of a multimeter including Hz, dwell, ms on time, duty cycle, min/max. Coursework also includes proper use of wiring diagram and electrical troubleshooting procedures.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Corequisite

Type
Corequisite

Corequisite

Enroll in the following Courses:

- AUTO1605 - Electrical and Electronics I Lab

AUTO1605 - Electrical and Electronics I Lab - 3 - Credits

Course Overview

Course Prefix
AUTO

Course Number
1605

Department
Technology, Design & Technical Ed

Course Title
Electrical and Electronics I Lab

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students will complete all hands on testing of components using diagnostic routines and troubleshooting procedures. Use of diagrams, meters, test procedures, and NATEF tasks will be required.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Corequisite

Type
Corequisite

Required

Enroll in the following Courses:

- AUTO1600 - Electrical and Electronics I Theory

AUTO1800 - Engine Performance I Theory - 3 - Credits

Course Overview

Course Prefix
AUTO

Course Number
1800

Department
Technology, Design & Technical Ed

Course Title
Engine Performance I Theory

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Coursework will include fuel systems, ignition systems, air intake and exhaust systems. Will also cover basic engine diagnostics and test procedures.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Corequisite

Type
Corequisite

Required

Enroll in the following Courses:

- AUTO1805 - Engine Performance I Lab

AUTO1805 - Engine Performance I Lab - 3 - Credits

Course Overview

Course Prefix
AUTO

Course Number
1805

Department
Technology, Design & Technical Ed

Course Title
Engine Performance I Lab

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students will run test procedures to diagnose basic engine problems. Lab requirements include fuel delivery systems, early fuel injection and ignition systems, and basic waveform diagnostics. Skill sets and procedures will include NATEF tasks as well as instructor assignments.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Corequisite

Type
Corequisite

Required

Enroll in the following Courses:

- AUTO1800 - Engine Performance I Theory

AUTO2600 - Electrical and Electronics II Theory - 3 - Credits

Course Overview

Course Prefix
AUTO

Course Number
2600

Department
Technology, Design & Technical Ed

Course Title
Electrical and Electronics II Theory

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Advanced diagnostic procedures on lighting systems, gauge systems, wiper systems, and warning systems. Students will use state of the art equipment including lab scope and waveform diagnostics.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Corequisite

Type
Corequisite

Required

Enroll in the following Courses:

- AUTO2605 - Electrical and Electronics II Lab

AUTO2605 - Electrical and Electronics II Lab - 2 - Credits

Course Overview

Course Prefix
AUTO

Course Number
2605

Department
Technology, Design & Technical Ed

Course Title
Electrical and Electronics II Lab

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students will be required to complete advanced lab procedures including lab scope use, voltage and amperage waveform analysis and the completion of NATEF tasks to national standards. Competency testing includes experimental learning and guided diagnostic approaches.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Simple Requisites

Corequisite

Type
Corequisite

Required

Enroll in the following Courses:

- AUTO2600 - Electrical and Electronics II Theory

AUTO2700 - Heating and Air Conditioning Theory - 3 - Credits

Course Overview

Course Prefix
AUTO

Course Number
2700

Department
Technology, Design & Technical Ed

Course Title
Heating and Air Conditioning Theory

Grade Mode
Standard Letter

Repeat Status
NR

Course Description

Will study the theory of heat transfer, pressure, and change of state necessary for heating and systems to operate. Will also cover vacuum and electronic controls, actuators and sensors. Emphasis will be placed on proper use of equipment, safety issues as well as diagnosis and repair.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Corequisite

Type
Corequisite

Required

Enroll in the following Courses:

- AUTO2705 - Heating and Air Conditioning Lab

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- AUTO1000 - Introduction to Transportation Technology I

AUTO2705 - Heating and Air Conditioning Lab - 2 - Credits

Course Overview

Course Prefix
AUTO

Course Number
2705

Department
Technology, Design & Technical Ed

Course Title
Heating and Air Conditioning Lab

Grade Mode
Standard Letter

Repeat Status
NR

Course Description

The use of equipment and job skills will be performed. Students will follow the national NATEF task list as well as instructor written tasks. Students will service heating and air conditioning systems. Procedures will cover diagnostic and test procedures, and removal and replacement of heater core, evaporators, condensers, pumps, valves and switches used in domestic and import vehicles.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Simple Requisites

Corequisite

Type
Corequisite

Corequisite

Enroll in the following Courses:

- AUTO2700 - Heating and Air Conditioning Theory

AUTO2800 - Engine Performance II Theory - 3 - Credits

Course Overview

Course Prefix
AUTO

Course Number
2800

Department
Technology, Design & Technical Ed

Course Title
Engine Performance II Theory

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Includes the use of scanners, computer diagnostics, and proper use of the lab scope diagnostics for diagnostics.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Corequisite

Type
Corequisite

Required

Enroll in the following Courses:

- AUTO2805 - Engine Performance II Lab

AUTO2805 - Engine Performance II Lab - 2 - Credits

Course Overview

Course Prefix
AUTO

Course Number
2805

Department
Technology, Design & Technical Ed

Course Title
Engine Performance II Lab

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Will cover OBDII as well as IM240 test procedures. Students will learn about computer monitors, how to access and use available information in the PCM. Scanner use will include road trip and snapshot features. Lab scope use will require testing of both inputs and outputs and learning how to use the information available.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Simple Requisites

Corequisite

Type
Corequisite

Required

Enroll in the following Courses:

- AUTO2800 - Engine Performance II Theory

AUTO2977 - Internship Education Experiences - 1 - 3 Credits

Course Overview

Course Prefix
AUTO

Course Number
2977

Department
Technology, Design & Technical Ed

Course Title
Internship Education Experiences

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course provides supervised on-the-job experience for students in most aspects of automobile repair businesses. Students establish learning objectives, hours to be worked, and a credit agreement with the instructor/coordinator at the beginning of the semester. Students and the instructor/coordinator meet periodically to review progress.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

Special Approval

Instructor permission

No Requirements

AUTO2988 - Special Problems - 1 - 3 Credits

Course Overview

Course Prefix
AUTO

Course Number
2988

Department
Technology, Design & Technical Ed

Course Title
Special Problems

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Individual work approved by the department instructor. Time and credit to be arranged.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

No Requirements

AV1000 - Private Pilot Introduction - 1 - Credits

Course Overview

Course Prefix
AV

Course Number
1000

Department
Aviation Technology

Course Title
Private Pilot Introduction

Grade Mode
Pass/Fail

Repeat Status
NR

Course Description
Students will participate in introductory study of private pilot ground school and prefatory exercises for flight activities.

Credit Hours

Credit Hours Min:
1

Contact Hours

Contact Hours Min:
1

Billing Hours

Billing Hours Min:
1

Lecture Hours

Lecture Hours Min:
1

No Requirements

AV1100 - The Aviation Profession - 1 - Credits

Course Overview

Course Prefix
AV

Course Number
1100

Department
Aviation Technology

Course Title
The Aviation Profession

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Covers attributes of aviation professional, career planning, and certification process.

Credit Hours

Credit Hours Min:
1

Contact Hours

Contact Hours Min:
1

Billing Hours

Billing Hours Min:
1

Lecture Hours

Lecture Hours Min:
1

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Describe the role of their academic advisor, and where to get help when you need it
2. Know how to obtain financial aid, scholarships, internships, work opportunities
3. Define the purpose and benefits of professional societies and clubs
4. Articulate characteristics of an aviation professional/professional ethics
5. Explain the responsibilities of the aviation professional
6. Analyze the current outlook for career opportunities
7. Describe the purpose of networking and how to find information on typical career paths
8. Reflect on their own purpose of coming to USU, their chosen major and role of a college degree

AV1125 - The Aviation Profession - 1 - Credits

Course Overview

Course Prefix
AV

Course Number
1125

Department
Aviation Technology

Course Title
The Aviation Profession

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students learn to describe the attributes of an aviation professional, identify and use career planning resources, be familiar with the variety of aviation careers, and know the requirements for their chosen career.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Course Learning Objectives

Course Learning Outcomes
AVTE Assessment | USU

AV1130 - Flight Principles - 3 - Credits

Course Overview

Course Prefix
AV

Course Number
1130

Department
Aviation Technology

Course Title
Flight Principles

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Basic flight theory and physics of flight. Aircraft control systems related to flight. Ground handling and servicing of aircraft. Special lab fee.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Understand basic flight theory and the physics behind flight.
2. Understand aircraft primary and secondary flight control systems, and aerodynamic devices.
3. Understand the basic principles, aircraft performance, and safety considerations regarding weight and balance and how it relates to the center of gravity and center of lift
4. Understand the principles regarding aircraft stability and the importance thereof
5. Understand high-speed flight and Mach number
6. Understand the effect of atmospheric conditions affecting flight, specifically airspeed
7. Understand the flight principles regarding helicopters
8. Understand aircraft reciprocating and turbine powerplants

AV1140 - Aircraft Components and Principles - 3 - Credits

Course Overview

Course Prefix
AV

Course Number
1140

Department
Aviation Technology

Course Title
Aircraft Components and Principles

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Materials and hardware, as well as nondestructive inspection applicable to aircraft. Plumbing methods, maintenance publications, and aircraft weight and balance control.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Identify, demonstrate, and investigate/repair aircraft structures to FAA airworthiness standards.
2. Identify principles associated with the maintenance of aircraft.

AV1150 - Aircraft Components and Principles II - 3 - Credits

Course Overview

Course Prefix
AV

Course Number
1150

Department
Aviation Technology

Course Title
Aircraft Components and Principles II

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides a comprehensive introduction of aircraft maintenance concepts and skills, focusing on an understanding of maintenance procedures, weight and balance, fluid lines and fittings, ground operations, servicing, and inspection techniques.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- AV1140 - Aircraft Components and Principles

Course Learning Objectives

Course Learning Outcomes

1. The student will be able to recall, identify and demonstrate the procedures regarding aircraft weight and balance.
2. The student will be able to recall materials used, functionality of, and demonstrate the fabrication of aircraft fluid lines and fittings.
3. The student will be able to recall, communicate, and execute procedures

involved in aircraft ground operations and servicing.
4. The student will be able to recall, explain, and perform aircraft inspection concepts and techniques.

AV1170 - Aircraft Structures - 3 - Credits

Course Overview

Course Prefix
AV

Course Number
1170

Department
Aviation Technology

Course Title
Aircraft Structures

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Accepted methods and repair for metal structures. Organic finishes and application techniques with laboratory applications and practical experience.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

AV1200 - Professional Development for Aviation Careers - 3 - Credits

Course Overview

Course Prefix
AV

Course Number
1200

Department
Aviation Technology

Course Title
Professional Development for Aviation Careers

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course helps students navigate the ever-evolving aviation job market through professional development strategies, and discovering how professional organizations, conferences, airshows and networking are vital to career opportunities. Students gain confidence in speaking, listening and interviewing skills.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Course Learning Objectives

Course Learning Outcomes

By the end of this course, students will be able to:

1. Discover the variety and purpose of professional organizations in the aviation industry, including alumni and fraternal organizations
2. Understand the role of certification, proficiency and continuing education and training for aviation careers
3. Practice networking skills through engagement in networking events
4. Create a positive online, social and professional presence to enhance preparations for future employment
5. Know the value of an opportunities for connection in conferences, events and activities of professional organizations
6. Practice speaking, listening and interview skills through interaction with recruiters and hiring managers

7. Learn the value of internships, finding mentors and connections for continued professional development for early career professionals
8. Practice leadership in volunteer organizations while in college to gain experience, confidence and competence in presenting oneself in a professional manner

AV1210 - Introduction to Airfield Operations - 3 - Credits

Course Overview

Course Prefix
AV

Course Number
1210

Department
Aviation Technology

Course Title
Introduction to Airfield Operations

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces students to the topics and knowledge areas for airport personnel with airfield operations responsibilities. Students will be prepared to take the Airport Certified Employee (ACE) Operations examination.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Course Learning Objectives

Course Learning Outcomes

By the end of this course, students will be able to:

1. Understand of the aviation regulations and standards and recommended practices relevant to airport operations
2. Describe the different components of an airport
3. Identify airside physical characteristics (signage, markings) as well as lighting and navigation aids
4. Apply the concept of safety management and safety culture for airport operations
5. Identify the various rescue and firefighting activities for airports
6. Explain the importance of wildlife management at airports
7. Describe how to conduct apron and airside inspections

AV1220 - Introduction to Landside Operations - 3 - Credits

Course Overview

Course Prefix
AV

Course Number
1220

Department
Aviation Technology

Course Title
Introduction to Landside Operations

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces students to the landside operations and the importance of providing a positive customer experience from curb to gate that is in harmony with security, facilitation, and health requirements as well as revenue generating activities.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Course Learning Objectives

Course Learning Outcomes

By the end of this course, students will be able to:

1. Describe the tools used by airport operators working in collaboration with the entire airport community to engage airport employees, enhance customer experience and respond to customer priorities
2. Understand the terminal design categories and the advantages and disadvantages of each
3. Learn the impact of airport concessions on customer experiences, customer satisfaction, terminal design and airport profitability
4. Explain the importance of innovation and the accelerating evolution of emerging technologies which are optimizing operational effectiveness and efficiency as well as re-imagining the customer experience
5. Describe the major components of the air cargo industry including the members of the air cargo community and the functions of the air cargo terminal

AV1240 - Aircraft Maintenance - 3 - Credits

Course Overview

Course Prefix
AV

Course Number
1240

Department
Aviation Technology

Course Title
Aircraft Maintenance

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Maintenance, repair, alteration, and inspection of aircraft. Assembly and rigging of control systems with laboratory application of maintenance assembly and rigging procedures.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- AV1130 - Flight Principles
- AV1140 - Aircraft Components and Principles
- AV1170 - Aircraft Structures

AV1710 - Air Traffic Control Fundamentals - 3 - Credits

Course Overview

Course Prefix
AV

Course Number
1710

Department
Aviation Technology

Course Title
Air Traffic Control Fundamentals

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces the fundamental principles of air traffic control. The terminal and enroute environments are introduced. Visual and instrument flight rules are explained with basic communication procedures, airspace, the national airspace system, general aviation information, and separation requirements.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

AV1905 - Intro to Unmanned Aerial Systems (without FAA Exam) - 2 - Credits

Course Overview

Course Prefix
AV

Course Number
1905

Department
Aviation Technology

Course Title
Intro to Unmanned Aerial Systems (without FAA Exam)

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers the history of Unmanned Aerial Systems, focusing on the recent developments of the small UAS and the future of this emerging technology in commercial applications. Topics include flight/ground safety, regulations, and preparation for FAA certification.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Recall the fundamental principles and purposes of ATC.
2. Identify general ATC and aviation information.
3. Recall airspace descriptions and aircraft separation minima requirements.

AV2000 - Aerodynamics for Aviators - 3 - Credits

Course Overview

Course Prefix
AV

Course Number
2000

Department
Aviation Technology

Course Title
Aerodynamics for Aviators

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides a study of the physical principles of airplane aerodynamics. This increases appreciation of the factors affecting aircraft including performance, stability, and controllability. Attention is placed on special flight conditions that could be encountered by fixed-wing pilots.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Course Learning Objectives

Course Learning Outcomes
1. Identify principles of aviation science.
2. Demonstrate the ability to apply safety, ADM, and competency to flight operations.

AV2040 - Aviation Weather - 3 - Credits

Course Overview

Course Prefix
AV

Course Number
2040

Department
Aviation Technology

Course Title
Aviation Weather

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students study the atmosphere for aviation operations. Includes fundamental meteorology, weather patterns, hazards, and the use of aviation meteorological products, forecasts and reports to influence aeronautical decision making from pre-flight to landing, to improve aviation safety.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Course Learning Objectives

Course Learning Outcomes
1. Students will be able to describe the composition of the atmosphere in relation to aviation applications.
2. Students will be able to explain pressure, density altitude and how wind affects the atmospheric conditions for flight.
3. Students will be able to identify cloud types, thunderstorms and how local conditions affect wind.
4. Students will be able to analyze aviation weather hazards, including wind shear, turbulence, icing and other weather hazards for flight planning and inflight updates.
5. Students will be able to understand instrument meteorological conditions for flight, including causes, climatology and be prepared for instrument flight.
6. Students will be able to interpret aviation weather products, and know FAA approved sources.

AV2050 - History of Aviation - 3 - Credits

Course Overview

Course Prefix
AV

Course Number
2050

Department
Aviation Technology

Course Title
History of Aviation

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course examines the history of aviation from its origins to modern day through events, individuals, aircraft, technology, and policies. Students analyze the explosive impact aviation had on the economy, military, and society.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete at least 1 course in the following course sets:

- Communications Literacy (CL2) Course

Course Learning Objectives

Course Learning Outcomes

1. Understand significant historical aviation events through reading, videos and learning from their classmates.
2. Students will know the significant contributors to aviation advancement
3. Students will discover the impact of aviation on the U.S. economy, society and military.
4. Students will explore the future of aviation

AV2100 - Aircraft Reciprocating Powerplants and Accessories - 3 - Credits

Course Overview

Course Prefix
AV

Course Number
2100

Department
Aviation Technology

Course Title
Aircraft Reciprocating Powerplants and Accessories

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Theory of operation, maintenance, and repair of reciprocating engines, propellers, exhaust systems, ignition systems, and fuel systems with laboratory applications of principles and components studied.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Admission to the Aircraft Maintenance Technician - Airframe & Powerplant - AAS or the Aviation Technology - Maintenance Management - BS program

Simple Requisites

Corequisite

Type
Corequisite

Required

Enroll in the following Courses:

- AV2110 - Aircraft Reciprocating Powerplants and Accessories Lab

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- AV1240 - Aircraft Maintenance
- TEE2300 - Electronic Fundamentals (QI)

Course Learning Objectives

Course Learning Outcomes

1. Explain the theory and operation of aircraft reciprocating engines, including normally aspirated, turbocharged, and fuel-injected configurations.
2. Identify and describe the function and interaction of key engine systems, including induction, exhaust, and lubrication systems.
3. Analyze engine performance parameters and system interrelationships to determine proper operation and diagnose malfunctions.
4. Apply theoretical knowledge to maintenance and troubleshooting procedures consistent with FAA standards and manufacturer specifications.
5. Demonstrate proficiency in interpreting technical data, diagrams, and engine specifications to support safe and efficient engine operation.

AV2110 - Aircraft Reciprocating Powerplants and Accessories Lab - 3 - Credits

Course Overview

Course Prefix
AV

Course Number
2110

Department
Aviation Technology

Course Title
Aircraft Reciprocating Powerplants and Accessories Lab

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Laboratory application of principles studied in AV 2100.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Corequisite

Type
Corequisite

Required

Complete ALL of the following Courses:

- AV2100 - Aircraft Reciprocating Powerplants and Accessories

Course Requirements

COREQUISITES
AV2100

AV2140 - Aircraft Turbine Powerplants and Maintenance Operations - 3 - Credits

Course Overview

Course Prefix
AV

Course Number
2140

Department
Aviation Technology

Course Title
Aircraft Turbine Powerplants and Maintenance Operations

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Theory of turbine powerplants, including turbine engine and components operation, hot section inspection, and servicing. Aircraft engine 100-hour inspections and maintenance, with laboratory applications of principles and components studied.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Corequisite

Type
Corequisite

Required

Enroll in the following Courses:

- AV2150 - Aircraft Turbine Powerplant Maintenance Operations Lab

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- AV2100 - Aircraft Reciprocating Powerplants and Accessories

Course Learning Objectives

Course Learning Outcomes

1. Explain the theory, nomenclature, and operating principles of aircraft propeller systems, including governing, synchronization, and ice control systems for both light and large aircraft.
2. Inspect, service, troubleshoot, and repair propeller assemblies and components, including removal, installation, balancing, and lubrication procedures.
3. Describe turbine engine theory and operation, identifying major components, configurations, and system functions across various turbine engine types.
4. Inspect, service, troubleshoot, and repair turbine engine systems, including starting, exhaust, and accessory systems, in accordance with manufacturer and FAA standards.
5. Demonstrate knowledge of engine fire detection and protection systems, including inspection and maintenance of fire detection and extinguishing components.
6. Perform engine inspections and verify conformity to specifications, applying Airworthiness Directives and maintenance documentation to ensure compliance and airworthiness.

AV2150 - Aircraft Turbine Powerplant Maintenance Operations Lab - 3 - Credits

Course Overview

Course Prefix
AV

Course Number
2150

Department
Aviation Technology

Course Title
Aircraft Turbine Powerplant Maintenance Operations Lab

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Theory of turbine powerplants, including turbine engine and components operation, hot section inspection, and servicing. Aircraft engine 100-hour inspections and maintenance, with laboratory applications of principles and components studied.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

AV2160 - Aircraft Systems for the Professional Pilot - 3 - Credits

Course Overview

Course Prefix
AV

Course Number
2160

Department
Aviation Technology

Course Title
Aircraft Systems for the Professional Pilot

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
The student will obtain a working knowledge of the three aircraft they will be flying during their pilot training at USU: the Diamond Star DA40, Piper Arrow PA28R200 and the Twin Star DA42. The students will be able to identify and explain electric and hydraulic systems. They will gain a greater understanding of reciprocating engines, propellers, flight controls and landing gear systems.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Identify and explain the major systems of the Diamond DA40 and DA42 aircraft, including electrical, hydraulic, fuel, and engine systems.
2. Demonstrate understanding of reciprocating engine and propeller operation as they relate to aircraft performance and flight operations.
3. Describe the function and operation of primary and secondary flight controls and associated landing gear systems.
4. Explain the purpose and operation of large-aircraft systems, including cabin environmental controls and fire detection and protection systems.
5. Apply system knowledge to practical flight scenarios, interpreting aircraft indications and responding appropriately to system malfunctions or warnings.

AV2170 - Aircraft Systems - 2 - Credits

Course Overview

Course Prefix
AV

Course Number
2170

Department
Aviation Technology

Course Title
Aircraft Systems

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers the theory and operation of aerospace environmental systems, communication, navigation and guidance systems, fuel and propellant systems, fire detection, and warning.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Simple Requisites

Corequisite

Type
Corequisite

Required

Enroll in the following Courses:

- AV2190 - Aircraft Systems Lab

Course Learning Objectives

Course Learning Outcomes

1. Identify basic principles of aviation science.
2. Identify, demonstrate, and investigate/repair aircraft systems to FAA airworthiness standards.

AV2175 - Robinson Helicopter Systems - 2 - Credits

Course Overview

Course Prefix
AV

Course Number
2175

Department
Aviation Technology

Course Title
Robinson Helicopter Systems

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students take an In-depth look into the Robinson R22 and R44 pilot operating handbook.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- AV2335 - Private Pilot Ground School Helicopter

Course Learning Objectives

Course Learning Outcomes

1. Students will develop a comprehensive understanding of aircraft systems in Robinson helicopters
2. Students will apply system knowledge to assess and diagnose preflight discrepancies and which make the aircraft non-airworthy

3. Students will use system understanding to correlate emergency operations and best practices

AV2180 - Aircraft Hydraulic and Pneumatic Systems - 2 - Credits

Course Overview

Course Prefix
AV

Course Number
2180

Department
Aviation Technology

Course Title
Aircraft Hydraulic and Pneumatic Systems

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers the theory and operation of aircraft hydraulic, landing gear, and brake systems.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Simple Requisites

Corequisite

Type
Corequisite

Required

Enroll in the following Courses:

- AV2200 - Aircraft Hydraulics and Pneumatics Systems Lab

Course Learning Objectives

Course Learning Outcomes

1. Explain the function and operation of aircraft hydraulic and pneumatic systems, including key components such as pumps, valves, actuators, and accumulators.
2. Describe landing gear system configurations, including fixed and retractable landing gear, braking systems, anti-skid mechanisms, and steering components.

3. Analyze hydraulic and pneumatic system servicing and inspection requirements, including fluid selection, contamination prevention, and pressure regulation.
4. Evaluate risk management considerations related to high-pressure fluids, gases, hydraulic fluid storage, and landing gear operation safety.
5. Apply FAA regulations and industry best practices when inspecting and maintaining hydraulic and pneumatic systems.

AV2190 - Aircraft Systems Lab - 1 - Credits

Course Overview

Course Prefix
AV

Course Number
2190

Department
Aviation Technology

Course Title
Aircraft Systems Lab

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course comprises the laboratory application of principles and components studied in AV 2170.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Simple Requisites

Corequisite

Type
Corequisite

Required

Enroll in the following Courses:
- AV2170 - Aircraft Systems

AV2200 - Aircraft Hydraulics and Pneumatics Systems Lab - 1 - Credits

Course Overview

Course Prefix
AV

Course Number
2200

Department
Aviation Technology

Course Title
Aircraft Hydraulics and Pneumatics Systems Lab

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course comprises the laboratory application of principles and components studied in AV 2180.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Simple Requisites

Corequisite

Type
Corequisite

Required

Enroll in the following Courses:
- AV2180 - Aircraft Hydraulic and Pneumatic Systems

AV2250 - Internship - 1 - 4 Credits

Course Overview

Course Prefix
AV

Course Number
2250

Department
Aviation Technology

Course Title
Internship

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Planned supervised work experience in industry.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
4

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
4

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
4

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
4

Lecture Hours Operator:
TO

Special Approval

Department Approval

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Apply academic and technical knowledge from aviation coursework to real-world professional settings within the aviation industry.
2. Demonstrate professional conduct, communication, and teamwork skills appropriate to the aviation workplace.
3. Perform assigned duties and responsibilities under supervision in accordance with industry standards, regulations, and safety practices.
4. Reflect on professional experiences to identify areas of growth, skill development, and alignment with career goals.
5. Document and evaluate work performance through employer feedback and self-assessment to demonstrate competency in applied aviation practices.

AV2300 - Fundamentals of Electricity and Aircraft Electronics - 4 - Credits

Course Overview

Course Prefix
AV

Course Number
2300

Department
Aviation Technology

Course Title
Fundamentals of Electricity and Aircraft Electronics

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers the instruction requirements in basic electricity for the general curriculum for airframe or powerplant technician certification as specified in FAR Part 147. It includes study and application of DC and AC concepts, semiconductors, digital electronics, and microcomputers.

Credit Hours

Credit Hours
Min:
4

Contact Hours

Contact Hours
Min:
4

Billing Hours

Billing Hours
Min:
4

Lecture Hours

Lecture Hours
Min:
4

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- MATH1050 - College Algebra (QL)

AV2310 - ROTC Flight 1 - 0.5 - Credits

Course Overview

Course Prefix
AV

Course Number
2310

Department
Aviation Technology

Course Title
ROTC Flight 1

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course informs, influences, and inspires ROTC cadets to become the next generation of aviators in the USAF aviators; students understand the basic principles of aviation, weather, and safety, and have the opportunity to complete up to 10 flight hours.

Credit Hours

Credit Hours
Min:
0.5

Contact Hours

Contact Hours
Min:
0.5

Billing Hours

Billing Hours
Min:
0.5

Lecture Hours

Lecture Hours
Min:
0.5

Registration Restrictions

Must be an enrolled ROTC Cadet at USU

Course Learning Objectives

Course Learning Outcomes

1. Develop a safety mindset for aviation.
2. Become a disciplined aviator with the knowledge of how to comply with FAA regulations and standard operating procedures.
3. Learn the basics of flight principles, radio communication, crew procedures and how weather affects flight.

AV2320 - Intro to Private Pilot Requirements - 3 - Credits

Course Overview

Course Prefix
AV

Course Number
2320

Department
Aviation Technology

Course Title
Intro to Private Pilot Requirements

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides instruction in principles of flight, aircraft and engine operation, weather, navigation, radio aids to navigation, radio communications, and federal air regulations. Students practice skills in a flight simulator.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Students will be able to apply FAA Pilot regulations regarding training, medical and flying requirements.
2. Students will be able to articulate the aerodynamics of airplanes and helicopters.
3. Students will be able to describe airport environment procedures, including airspace, navigation, radio procedures.
4. Students will be able to explain aircraft airframes, engines, weight and balance, and operations.

AV2330 - Private Pilot Ground School - 4 - Credits

Course Overview

Course Prefix
AV

Course Number
2330

Department
Aviation Technology

Course Title
Private Pilot Ground School

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Instructions in principles of flight, aircraft and engine operation, weather, navigation, radio aids to navigation, radio communications, and federal air regulations. Preparation for FAA Private Pilot written exam.

Credit Hours

Credit Hours
Min:
4

Contact Hours

Contact Hours
Min:
4

Billing Hours

Billing Hours
Min:
4

Lecture Hours

Lecture Hours
Min:
4

Registration Restrictions

Admission to the Aviation Technology - Professional Pilot: Fixed Wing Emphasis - BS major

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- AV2350 - Private Pilot Certification

Course Requirements

COREQUISITES
AV2350

Course Learning Objectives

Course Learning Outcomes

1. Demonstrate knowledge of FAA regulations, airspace classification, and operating procedures applicable to private pilot operations.
2. Explain fundamental principles of flight, aircraft systems, and aerodynamics as they relate to aircraft performance and control.
3. Interpret aviation weather reports, forecasts, and charts to make informed go/no-go and in-flight decisions.
4. Apply navigation, flight planning, and weight-and-balance procedures using appropriate tools, charts, and calculations.
5. Identify and apply aeronautical decision-making (ADM) and risk management principles to promote safe and responsible flight operations.
6. Demonstrate readiness to pass the FAA Private Pilot Knowledge Exam in accordance with the Private Pilot Airman Certification Standards (ACS).

AV2335 - Private Pilot Ground School Helicopter - 4 - Credits

Course Overview

Course Prefix
AV

Course Number
2335

Department
Aviation Technology

Course Title
Private Pilot Ground School Helicopter

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course instructs students in principles of flight, aircraft and engine operations, weather, navigation, radio aids to navigation, radio communications, and federal air regulations. It includes preparation for the FAA Private Pilot written exam.

Credit Hours

Credit Hours
Min:
4

Contact Hours

Contact Hours
Min:
4

Billing Hours

Billing Hours
Min:
4

Lecture Hours

Lecture Hours
Min:
4

Registration Restrictions
Admission to the Aviation Technology - Professional Pilot: Rotorcraft Emphasis - BS program

Simple Requisites

Corequisite

Type
Corequisite

Required

Enroll in the following Courses:

- AV2355 - Private Pilot Helicopter Stage I Certification

Course Requirements
COREQUISITES
AV2355

Course Learning Objectives

Course Learning Outcomes

1. Students will gain basic knowledge of aircraft systems
2. Students will learn aviation regulations
3. Students will learn aviation psychology and physiology
4. Students will learn flight planning methods
5. Students will learn aviation meteorology
6. Students will be prepared to take the FAA written exam

AV2350 - Private Pilot Certification - 3 - Credits

Course Overview

Course Prefix
AV

Course Number
2350

Department
Aviation Technology

Course Title
Private Pilot Certification

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course is an FAA approved flight training program meeting all requirements for, and in the issuance of, the Private Pilot Airplane License.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Special Approval

Advisor permission required

Other Enrollment Recommendations

Must present an FAA medical to advisor in order to register.

Simple Requisites

Corequisite

Type
Corequisite

Required

Enroll in the following Courses:

- AV2330 - Private Pilot Ground School

Prerequisite

Type
Prerequisite

Required

FAA Class Medical, Student Pilot license, TSA Approval

Course Learning Objectives

Course Learning Outcomes

1. Demonstrate aircraft control and coordination through all phases of flight in accordance with FAA Airman Certification Standards (ACS).
2. Apply aeronautical decision-making (ADM), risk management, and situational awareness to maintain safety throughout flight operations.
3. Perform normal, abnormal, and emergency procedures using proper checklist discipline and adherence to FAA regulations.
4. Execute takeoffs, landings, navigation, and communication procedures to meet or exceed FAA Private Pilot proficiency standards.
5. Correlate flight maneuvers and operational performance with underlying aerodynamic principles and regulatory requirements.
6. Demonstrate readiness for the FAA Private Pilot practical test (check ride) by meeting or surpassing all applicable completion standards.

AV2355 - Private Pilot Helicopter Stage I Certification - 3 - Credits

Course Overview

Course Prefix
AV

Course Number
2355

Department
Aviation Technology

Course Title
Private Pilot Helicopter Stage I Certification

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This is an FAA approved flight training program introducing requirements for issuance of the Private Pilot Helicopter License.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Special Approval
Advisor approval

Other Enrollment Recommendations
FAA 1st, 2nd, or 3rd Class Medical required prior to enrolling - contact advisor to enroll.

Simple Requisites

Corequisite

Type
Corequisite

Corequisite

Enroll in the following Courses:

- AV2335 - Private Pilot Ground School Helicopter

Course Learning Objectives

Course Learning Outcomes

1. Students will develop psychomotor skills to safely pilot the helicopter
2. Students will learn critical aeronautical decision making
3. Students will learn emergency maneuvers and recovery techniques
4. Students will successfully solo the aircraft

AV2365 - Private Pilot Helicopter Stage II Certification - 3 - Credits

Course Overview

Course Prefix
AV

Course Number
2365

Department
Aviation Technology

Course Title
Private Pilot Helicopter Stage II Certification

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This is an FAA approved helicopter Private Pilot 2 course meeting all requirements for, and issuance of, a helicopter Private Pilot License.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Special Approval
Instructor permission

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- AV2355 - Private Pilot Helicopter Stage I Certification

Course Learning Objectives

Course Learning Outcomes

1. Students will continue to develop skills as a pilot to the private pilot level

2. Students will be prepared to take and pass the FAA Private Helicopter practical test
3. Students will understand and be prepared to meet the Private Helicopter Airman Certification Standards

AV2401 - Cross Country Ground School - 1 - Credits

Course Overview

Course Prefix
AV

Course Number
2401

Department
Aviation Technology

Course Title
Cross Country Ground School

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course expands on student knowledge of cross-country flight planning, FAA regulations, weather factors, and aircraft systems. It develops a better understanding of emergency procedures and develops decision-making skills through scenarios.

Credit Hours

Credit Hours Min:
1

Contact Hours

Contact Hours Min:
1

Billing Hours

Billing Hours Min:
1

Lecture Hours

Lecture Hours Min:
1

Special Approval

Advisor permission required.

Simple Requisites

Corequisite

Type
Corequisite

Required

Enroll in the following Courses:

- AV2450 - Cross Country - Commercial Stage 1
  OR AV2451 - Challenge Cross Country - Commercial Stage 1

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- AV2350 - Private Pilot Certification

Course Learning Objectives

Course Learning Outcomes

1. Ground Training: Expand on the knowledge of a Private Pilot and prepare students to be safe, competent, and professional Commercial Pilots. Gaining in-depth factual knowledge and further understand the fundamental principles of aviation, as well as how to apply the course materials in your aviation training.
2. Regulatory Knowledge: Understand and comply with aviation regulations, including airspace rules and air traffic procedures.
3. Flight Planning: Emphasize the development of critical thinking, expand cross country flight planning knowledge through the use of sectionals and digital apps, understanding FAA regulations, recognize weather factors, gain further aircraft systems familiarity, expand knowledge of emergency procedures, and develop decision-making skills through scenarios. Learning about advanced aircraft systems will include technologically advanced aircraft and high-performance aircraft.

AV2430 - Aircraft Electrical Systems and Components - 2 - Credits

Course Overview

Course Prefix
AV

Course Number
2430

Department
Aviation Technology

Course Title
Aircraft Electrical Systems and Components

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Aircraft electrical power generating systems. Theory of generation, alternators, regulation, and control systems with laboratory application of principles and systems studied.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- TEE2300 - Electronic Fundamentals (QI)

Course Learning Objectives

Course Learning Outcomes

1. Obtain the necessary knowledge, risk management, and skill elements as required by the FAA's Airmen Certification Standards (ACS) section 1-A Fundamentals of electricity and electronics, 2-K Aircraft electrical systems, and 3-F Engine electrical systems.
2. Be able to effectively and efficiently work in a team environment

3. Be prepared for certification testing

AV2440 - Aircraft Electrical Systems Laboratory - 2 - Credits

Course Overview

Course Prefix
AV

Course Number
2440

Department
Aviation Technology

Course Title
Aircraft Electrical Systems Laboratory

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Laboratory application of principles and systems studied in AV 2430.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Simple Requisites

Corequisite

Type
Corequisite

Required

Enroll in the following Courses:

- AV2430 - Aircraft Electrical Systems and Components

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- TEE2300 - Electronic Fundamentals (QI)

Course Learning Objectives

Course Learning Outcomes

1. Obtain the necessary knowledge, risk management, and skill elements as required by the FAA's Airmen Certification Standards (ACS) section 1-A Fundamentals of electricity and electronics, 2-K Aircraft electrical systems, and 3-F Engine electrical systems.
2. Be able to effectively and efficiently work in a team environment
3. Be prepared for certification testing

AV2450 - Cross Country - Commercial Stage 1 - 3 - Credits

Course Overview

Course Prefix
AV

Course Number
2450

Department
Aviation Technology

Course Title
Cross Country - Commercial Stage 1

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course in flight training emphasizes the development of critical thinking, cross-country planning, and decision-making skills. Students take an active role, learning to recognize, understand, and manage aircraft systems and malfunctions, demonstrate safe airport operations, and exercise sound decision-making skills.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Special Approval
Instructor permission

Simple Requisites

Corequisite

Type
Corequisite

Required

Enroll in the following Courses:

- AV2401 - Cross Country Ground School

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- AV2350 - Private Pilot Certification

Course Learning Objectives

Course Learning Outcomes

1. Flight Maneuvers: Perform fundamental flight maneuvers, such as climbs, descents, turns, stalls and slow flight. Demonstrate proficiency in performance maneuvers, ground reference maneuvers, and takeoff and landing techniques.
2. Regulatory Knowledge: Understand and comply with aviation regulations, including airspace rules and air traffic procedures.
3. Flight Planning: Plan and execute flights, considering fuel requirements, weight and balance, and other relevant factors.

AV2451 - Challenge Cross Country - Commercial Stage 1 - 3 - Credits

Course Overview

Course Prefix
AV

Course Number
2451

Department
Aviation Technology

Course Title
Challenge Cross Country - Commercial Stage 1

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course in flight training focuses on familiarization of USU aircraft and procedures, emphasizing critical thinking, cross-country planning, and decision-making. Students learn to recognize, understand, and manage aircraft systems and malfunctions, demonstrate safe airport operations, and exercise sound decision-making skills.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Special Approval
Advisor Permission Required

Simple Requisites

Corequisite

Type
Corequisite

Required

Enroll in the following Courses:

- AV2401 - Cross Country Ground School

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- AV2350 - Private Pilot Certification
- AV2401 - Cross Country Ground School

Course Learning Objectives

Course Learning Outcomes

1. Flight Maneuvers: Perform fundamental flight maneuvers, such as climbs, descents, turns, stalls and slow flight. Demonstrate proficiency in performance maneuvers, ground reference maneuvers, and takeoff and landing techniques.
2. Regulatory Knowledge: Understand and comply with aviation regulations, including airspace rules and air traffic procedures.
3. Flight Planning: Plan and execute flights, considering fuel requirements, weight and balance, and other relevant factors.

AV2500 - Flight Time Building I - 1 - Credits

Course Overview

Course Prefix
AV

Course Number
2500

Department
Aviation Technology

Course Title
Flight Time Building I

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
Students gain aeronautical knowledge and experience through continued flight training. This course allows students not enrolled in another certification course to receive additional training and flight hours towards their FAA certifications as part of USU's Part 141 flight training program.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Special Approval
Instructor permission

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- AV2330 - Private Pilot Ground School
- AV2350 - Private Pilot Certification

Course Learning Objectives

Course Learning Outcomes

1. Apply previously learned flight skills and procedures to maintain and enhance proficiency in accordance with FAA Part 141 training standards.
2. Demonstrate consistent aircraft control and decision-making across various flight conditions and operational environments.
3. Integrate aeronautical knowledge and flight experience to improve safety, efficiency, and situational awareness.
4. Plan and execute cross-country and local flights to gain additional pilot-in-command (PIC) experience toward FAA certification requirements.
5. Exhibit sound aeronautical judgment and risk management practices consistent with FAA regulations and USU training policies.

AV2504 - Flight Time Building II - 1 - Credits

Course Overview

Course Prefix
AV

Course Number
2504

Department
Aviation Technology

Course Title
Flight Time Building II

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
Students gain aeronautical knowledge and experience through continued flight training. This course allows students not enrolled in another certification course to receive additional training and flight hours towards their FAA certifications as part of USUs Part 141 flight training program.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- AV2330 - Private Pilot Ground School
- AV2350 - Private Pilot Certification

Course Requirements

PREREQUISITES
Course Number 2330, Subject Code AV, Level UG, Grade UG; AND Course Number 2350, Subject Code AV, Level UG, Grade UG

Course Learning Objectives

Course Learning Outcomes

1. Apply previously learned flight skills and procedures to maintain and enhance proficiency in accordance with Federal Aviation Regulations.
2. Demonstrate consistent aircraft control and decision-making across various flight conditions and operational environments.
3. Integrate aeronautical knowledge and flight experience to improve safety, efficiency, and situational awareness.
4. Plan and execute cross-country and local flights to gain additional pilot-in-command (PIC) experience toward FAA certification requirements.
5. Exhibit sound aeronautical judgment and risk management practices consistent with FAA regulations and USU training policies.

AV2505 - Flight Time Building III - 1 - Credits

Course Overview

Course Prefix
AV

Course Number
2505

Department
Aviation Technology

Course Title
Flight Time Building III

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
Students will gain additional aeronautical knowledge and experience through continued flight training. This course is designed for students not currently enrolled in another certification course to receive additional training and 25 multi-engine flight hours towards their FAA certifications as part of USUs Part 141 flight training program.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Special Approval

Instructor permission

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- AV2330 - Private Pilot Ground School
- AV2350 - Private Pilot Certification

Course Learning Objectives

Course Learning Outcomes

1. Apply previously learned flight skills and procedures to maintain and enhance proficiency in accordance with Federal Aviation Regulations.
2. Demonstrate consistent aircraft control and decision-making across various flight conditions and operational environments.
3. Integrate aeronautical knowledge and flight experience to improve safety, efficiency, and situational awareness.
4. Plan and execute cross-country and local flights to gain additional pilot-in-command (PIC) experience toward FAA certification requirements.
5. Exhibit sound aeronautical judgment and risk management practices consistent with FAA regulations and USU training policies.

AV2510 - IFR and Commercial Regulations and Procedures - 3 - Credits

Course Overview

Course Prefix
AV

Course Number
2510

Department
Aviation Technology

Course Title
IFR and Commercial Regulations and Procedures

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers the regulations and procedures for instrument flight rules (IFR) and commercial operations beyond private pilot. Topics include cross country flight planning, advanced systems operations, departures, enroute and arrival operations, and the required knowledge for aviation management professionals.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ANY of the following Courses:

- UAS1020 - Unmanned Aircraft Systems Part 107 Test
  OR UAS3010 - Unmanned Aircraft System Introduction to Remote Pilot Certification
- AV2320 - Intro to Private Pilot Requirements

Or Private Pilot License

Course Learning Objectives

Course Learning Outcomes

1. Interpret and apply instrument flight rules (IFR), procedures, and regulations in accordance with FAA Part 91 and Instrument Airman Certification Standards (ACS).
2. Explain the theory, operation, and use of aircraft navigation and communication systems, including VOR, GPS, ILS, and RNAV.
3. Analyze and interpret aviation weather information relevant to IFR flight planning and decision-making.
4. Plan and execute instrument flight procedures, including departures, en route operations, arrivals, and approach clearances.
5. Apply aeronautical decision-making (ADM) and risk management principles specific to instrument meteorological conditions (IMC).
6. Demonstrate readiness for the FAA Instrument Pilot oral and knowledge exams through mastery of required systems, procedures, and regulations.

AV2520 - Instrument Pilot Ground School - 4 - Credits

Course Overview

Course Prefix
AV

Course Number
2520

Department
Aviation Technology

Course Title
Instrument Pilot Ground School

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course is a ground school approved by the FAA under Part 141 of the Federal Aviation Regulations. It is designed to prepare students to pass the FAA oral and written examinations required for becoming instrument-rated pilots.

Credit Hours

Credit Hours
Min:
4

Contact Hours

Contact Hours
Min:
4

Billing Hours

Billing Hours
Min:
4

Lecture Hours

Lecture Hours
Min:
4

Simple Requisites

Corequisite

Type
Corequisite

Required

Enroll in the following Courses:

- AV2540 - Instrument Pilot Certification

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- AV2350 - Private Pilot Certification

- AV2450 - Cross Country - Commercial Stage 1
  OR AV2451 - Challenge Cross Country - Commercial Stage 1

Course Requirements

COREQUISITES
AV2540

PREREQUISITES
Course Number 2350, Subject Code AV, Level UG, Grade UG; AND (Course Number 2450, Subject Code AV, Level UG, Grade UG; OR Course Number 2451, Subject Code AV, Level UG, Grade UG)

Course Learning Objectives

Course Learning Outcomes

1. Students will gain knowledge of instrument flying procedures and knowledge
2. Students will learn aviation instrument regulations
3. Students will learn instrument flight planning methods4- Students will learn aviation meteorology as it applies to instrument meteorological conditions
4. Students will be prepared to take the FAA written exam

AV2525 - Instrument Pilot Ground School Helicopter - 4 - Credits

Course Overview

Course Prefix
AV

Course Number
2525

Department
Aviation Technology

Course Title

Instrument Pilot Ground School Helicopter

Grade Mode
Standard Letter

Repeat Status
NR

Course Description

This course is designed to prepare students to pass the FAA oral and written examinations required for becoming instrument-rated pilots. The ground school is approved by the FAA under Part 141 of the Federal Aviation Regulations.

Credit Hours

Credit Hours
Min:
4

Contact Hours

Contact Hours
Min:
4

Billing Hours

Billing Hours
Min:
4

Lecture Hours

Lecture Hours
Min:
4

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- AV2365 - Private Pilot Helicopter Stage II Certification

Corequisite

Type
Corequisite

Required

Enroll in the following Courses:

- AV3145 - Helicopter Flight Training Device

Course Learning Objectives

Course Learning Outcomes

1. Be a safe and proficient Instrument Rated Pilot
2. Have a thorough understanding of the Instrument ACS
3. Understand and accomplish basic instrument flight, holding patterns, approach procedures, ATC operations, cross-country flight planning, arrival procedures, understand meteorology as its related to instrument flight, airplane systems and navigation related to IFR operations, DME Arcs, and emergency procedures as related to IFR operations.

AV2530 - Instrument Flight Rules, Regulations and Procedures - 4 - Credits

Course Overview

Course Prefix
AV

Course Number
2530

Department
Aviation Technology

Course Title
Instrument Flight Rules, Regulations and Procedures

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers instrument flight rules (IFR) regulations and includes simulator time for non-professional pilot aviation majors. Students learn the requirements of the FAA oral and written examinations for becoming instrument-rated pilots, dispatchers and air traffic controllers.

Credit Hours

Credit Hours
Min:
4

Contact Hours

Contact Hours
Min:
4

Billing Hours

Billing Hours
Min:
4

Lecture Hours

Lecture Hours
Min:
4

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete at least 1 of the following courses:

- AV2320 - Intro to Private Pilot Requirements
  OR AV2330 - Private Pilot Ground School

AV2540 - Instrument Pilot Certification - 3 - Credits

Course Overview

Course Prefix
AV

Course Number
2540

Department
Aviation Technology

Course Title
Instrument Pilot Certification

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This is an FAA approved fixed-wing Instrument Rating course meeting all requirements for, and issuance of, an instrument rating on a fixed-wing Private Pilot License.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Special Approval

Instructor permission

Simple Requisites

Corequisite

Type
Corequisite

Corequisite

Enroll in the following Courses:

- AV2520 - Instrument Pilot Ground School

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- AV2350 - Private Pilot Certification
- AV2450 - Cross Country - Commercial Stage 1
  OR AV2451 - Challenge Cross Country - Commercial Stage 1

Course Learning Objectives

Course Learning Outcomes

1. Students will develop skills as an instrument certificated pilot.
2. Students will be prepared to take and pass the FAA Instrument Helicopter practical test
3. Students will understand and be prepared to meet the Instrument Helicopter Airman Certification Standards

AV2545 - Instrument Helicopter Certification - 3 - Credits

Course Overview

Course Prefix
AV

Course Number
2545

Department
Aviation Technology

Course Title
Instrument Helicopter Certification

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This is an FAA approved helicopter Instrument Rating course meeting all requirements for, and issuance of, an instrument rating on a helicopter Private Pilot License.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Special Approval

Instructor permission

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- AV2365 - Private Pilot Helicopter Stage II Certification
- AV2525 - Instrument Pilot Ground School Helicopter

Course Learning Objectives

Course Learning Outcomes

1. Students will develop skills as an instrument certificated pilot.
2. Students will be prepared to take and pass the FAA Instrument Helicopter practical test
3. Students will understand and be prepared to meet the Instrument Helicopter Airman Certification Standards

AV2555 - Instrument Pilot Helicopter Certification II - 1 - Credits

Course Overview

Course Prefix
AV

Course Number
2555

Department
Aviation Technology

Course Title
Instrument Pilot Helicopter Certification II

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Continuation of AV 2545. Completes all requirements for issuance of Instrument Pilot Helicopter rating.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- AV2545 - Instrument Helicopter Certification

Course Learning Objectives

Course Learning Outcomes

1. Ground Training: Expand on the knowledge of a Private Pilot and prepare students to be safe, competent, and professional Commercial Pilots. Gaining in-depth factual knowledge and further understand the fundamental principles of aviation, as well as how to apply the course materials in your aviation training.
2. Regulatory Knowledge: Understand and comply with aviation regulations, including airspace rules and air traffic procedures.
3. Flight Planning: Emphasize the development of critical thinking, expand cross country flight planning knowledge through the use of sectionals and digital apps, understanding FAA regulations, recognize weather factors, gain further aircraft systems familiarity, expand knowledge of emergency procedures, and develop decision-making skills through scenarios. Learning about advanced aircraft systems will include technologically advanced aircraft and high-performance aircraft.

AV2620 - Commercial Pilot Ground School - 3 - Credits

Course Overview

Course Prefix
AV

Course Number
2620

Department
Aviation Technology

Course Title
Commercial Pilot Ground School

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers commercial flight operations, including performance, cross country planning, advanced systems operations, technologically advanced aircraft, and commercial flight maneuvers. It prepares students for the FAA Commercial Pilot written exam.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- AV2540 - Instrument Pilot Certification

Corequisite

Type
Corequisite

Required Corequisite

Enroll in the following Courses:

- AV2660 - Advanced Maneuvers - Commercial Stage 2

Course Learning Objectives

Course Learning Outcomes

1. Students will build on private pilot knowledge and decision making and develop skills as a pilot to the commercial pilot level
2. Students will learn commercial regulations and how to conduct commercial operations in a legal, safe manner
3. Students will be prepared to take and pass the FAA Commercial Helicopter knowledge test

AV2625 - Commercial Pilot Ground School Helicopter - 4 - Credits

Course Overview

Course Prefix
AV

Course Number
2625

Department
Aviation Technology

Course Title
Commercial Pilot Ground School Helicopter

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers commercial flight operations including performance, cross country planning, advanced systems operations, complex helicopters, and flight maneuvers.

Credit Hours

Credit Hours
Min:
4

Contact Hours

Contact Hours
Min:
4

Billing Hours

Billing Hours
Min:
4

Lecture Hours

Lecture Hours
Min:
4

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- AV2545 - Instrument Helicopter Certification
- AV2665 - Commercial Helicopter Stage I Certification

Corequisite

Type
Corequisite

Required

Enroll in the following Courses:

- AV2675 - Commercial Helicopter Stage II Certification

Course Learning Objectives

Course Learning Outcomes

1. Flight Maneuvers: Perform fundamental flight maneuvers, such as climbs, descents, turns, stalls and slow flight. Demonstrate proficiency in performance maneuvers, ground reference maneuvers, and takeoff and landing techniques.
2. Regulatory Knowledge: Understand and comply with aviation regulations, including airspace rules and air traffic procedures.
3. Flight Planning: Plan and execute flights, considering fuel requirements, weight and balance, and other relevant factors.

AV2630 - Commercial Pilot Regulations and Procedures - 2 - Credits

Course Overview

Course Prefix
AV

Course Number
2630

Department
Aviation Technology

Course Title
Commercial Pilot Regulations and Procedures

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers commercial flight operations, including performance, cross country planning, advanced systems operations, complex airplanes, and commercial flight maneuvers. Multi-engine aircraft operations, crew resource management and commercial pilot regulations are introduced. Students practice skills in a flight simulator.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- AV2330 - Private Pilot Ground School
  OR AV2320 - Intro to Private Pilot Requirements

AV2655 - Commercial Helicopter Advanced Cross-Country - 3 - Credits

Course Overview

Course Prefix
AV

Course Number
2655

Department
Aviation Technology

Course Title
Commercial Helicopter Advanced Cross-Country

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
This course is an FAA approved flight training program completing requirements for the issuance of 141 Helicopter Commercial Pilot rating.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Completion Requirement

Required

Complete ALL of the following Courses:

- AV2545 - Instrument Helicopter Certification

Course Learning Objectives

Course Learning Outcomes

Completion of this course is based upon compliance with 141 requirements, student proficiency and meeting course hour requirements. The student must demonstrate through knowledge exams, stage checks and show through appropriate records, that he/she meets the prerequisites in FAR part 141 and has obtained the aeronautical knowledge and flight training necessary to pass the Commercial Rating Practical Test.

The flight training consists of three stages. A stage may not be completed without meeting certain hour requirements, however those may be exceeded, if necessary, to achieve student proficiency or the overall course hour requirements.

The student must meet the total hour requirement for the course to be considered eligible for graduation from the course.

AV2660 - Advanced Maneuvers - Commercial Stage 2 - 3 - Credits

Course Overview

Course Prefix
AV

Course Number
2660

Department
Aviation Technology

Course Title
Advanced Maneuvers - Commercial Stage 2

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students focus on advanced maneuvers required for commercial pilot certification. The course introduces the commercial certificate, aircraft control, FAA rules and regulations, and decision-making skills. Pilots are tested in preparation for the FAA check ride, including single-engine maneuvers.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Special Approval

Instructor permission

Simple Requisites

Corequisite

Type
Corequisite

Required

Enroll in the following Courses:

- AV2620 - Commercial Pilot Ground School

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- AV2450 - Cross Country - Commercial Stage 1
  OR AV2451 - Challenge Cross Country - Commercial Stage 1
- AV2540 - Instrument Pilot Certification

Course Learning Objectives

Course Learning Outcomes

1. Students will develop skills learned as a Private Pilot and apply them to regular cross country flight planning and execution.
2. Students will increase abilities in Aeronautical Decision making and Single Pilot Resource Management

AV2665 - Commercial Helicopter Stage I Certification - 3 - Credits

Course Overview

Course Prefix
AV

Course Number
2665

Department
Aviation Technology

Course Title
Commercial Helicopter Stage I Certification

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
FAA approved flight training program introducing requirements for the issuance of Commercial Pilot Helicopter rating.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Special Approval
Instructor permission

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- AV2365 - Private Pilot Helicopter Stage II Certification

Course Learning Objectives

Course Learning Outcomes

1. Students will develop maneuvering and emergency skills as a commercial helicopter pilot.

2. Students will be prepared to take and pass the FAA Commercial Helicopter practical test
3. Students will understand and be prepared to meet the Commercial Helicopter Airman Certification Standards

AV2670 - Commercial Multi-Engine Certification - 3 - Credits

Course Overview

Course Prefix
AV

Course Number
2670

Department
Aviation Technology

Course Title
Commercial Multi-Engine Certification

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course is an FAA-approved flight training that meets requirements and completion of tests for commercial multi-engine certification.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:
- AV2660 - Advanced Maneuvers - Commercial Stage 2

AV2675 - Commercial Helicopter Stage II Certification - 3 - Credits

Course Overview

Course Prefix
AV

Course Number
2675

Department
Aviation Technology

Course Title
Commercial Helicopter Stage II Certification

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This is an FAA approved flight training program that finalizes all requirements for, and the issuance of, the Commercial Pilot Helicopter License.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Special Approval

Instructor permission

Simple Requisites

Corequisite

Type
Corequisite

Required

Enroll in the following Courses:
- AV2625 - Commercial Pilot Ground School Helicopter

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- AV2545 - Instrument Helicopter Certification
- AV2665 - Commercial Helicopter Stage I Certification

Course Learning Objectives

Course Learning Outcomes

1. Identify responsibilities of the tower cab team.
2. Demonstrate their ability to use and apply proper phraseology.
3. Demonstrate their ability to issue traffic advisories and safety alerts.
4. Demonstrate their ability to provide proper sequencing and separation requirements.

AV2710 - Basic Control Tower Operations - 3 - Credits

Course Overview

Course Prefix
AV

Course Number
2710

Department
Aviation Technology

Course Title
Basic Control Tower Operations

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces air traffic control tower cab operations. Students learn the basics of air traffic control in the terminal environment. Students are evaluated on their ability to retain/apply information by using both written and performance exams.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- AV1710 - Air Traffic Control Fundamentals

and a 2.75 overall GPA

Course Learning Objectives

Course Learning Outcomes

1. Flight Maneuvers: Perform fundamental flight maneuvers, such as climbs, descents, turns, stalls and slow flight. Demonstrate proficiency in performance maneuvers, ground reference maneuvers, and takeoff and landing techniques.
2. Regulatory Knowledge: Understand and comply with aviation regulations, including airspace rules and air traffic procedures.
3. Flight Planning: Plan and execute flights, considering fuel requirements, weight and balance, and other relevant factors.

AV2800 - Flight Lab 1 (141 Instrument and Commercial Training) - 3 - Credits

Course Overview

Course Prefix
AV

Course Number
2800

Department
Aviation Technology

Course Title
Flight Lab 1 (141 Instrument and Commercial Training)

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students demonstrate through knowledge exams, stage checks, and appropriate evaluation that they meet the FAR Part 141 prerequisites necessary to pass the Practical Test for their initial course of training for Commercial Pilot track.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Special Approval
Instructor permission

Other Enrollment Recommendations
AV2330 PRIVATE PILOT GROUND and AV2350 PRIVATE PILOT CERT

Course Learning Objectives

Course Learning Outcomes
1. Flight Maneuvers: Perform fundamental flight maneuvers, such as climbs, descents, turns, stalls and slow flight. Demonstrate proficiency in performance maneuvers, ground reference maneuvers, and takeoff and landing techniques.
2. Regulatory Knowledge: Understand and comply with aviation regulations, including airspace rules and air traffic procedures.
3. Flight Planning: Plan and execute flights, considering fuel requirements, weight and balance, and other relevant factors.

AV2810 - Basic Radar Operations - 3 - Credits

Course Overview

Course Prefix
AV

Course Number
2810

Department
Aviation Technology

Course Title
Basic Radar Operations

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces terminal radar approach operations. It uses federal regulations to guide student learning. Students learn basic terminal control, including approach and arrival procedures. Students apply clearances, instrument approach procedures, and sequencing and separation in a simulated environment.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- AV2710 - Basic Control Tower Operations

Course Learning Objectives

Course Learning Outcomes

- Identify responsibilities within the terminal radar environment.
- Demonstrate their ability to apply and use proper phraseology.
- Demonstrate their ability to issue traffic advisories, safety alerts, radar identify aircraft, and issue approach clearances.
- Demonstrate their ability to provide proper sequencing and separation requirements.

AV2870 - Commercial Single-Engine Add-On - 1 - Credits

Course Overview

Course Prefix
AV

Course Number
2870

Department
Aviation Technology

Course Title
Commercial Single-Engine Add-On

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Flight training program designed to satisfy all requirements necessary to qualify a student for the FAA Single-Engine Airplane Rating practical test.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- AV2670 - Commercial Multi-Engine Certification

AV2900 - Flight Lab 2 (141 Instrument and Commercial Training) - 3 - Credits

Course Overview

Course Prefix
AV

Course Number
2900

Department
Aviation Technology

Course Title
Flight Lab 2 (141 Instrument and Commercial Training)

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students demonstrate through knowledge exams, stage checks, and appropriate evaluation that they meet the FAR Part 141 prerequisites necessary to pass the Practical Test for their secondary course of training for Commercial Pilot track.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Special Approval
Instructor permission

Other Enrollment Recommendations
AV2800 FLIGHT LAB 1

Course Learning Objectives

Course Learning Outcomes

1. This course will prepare students for the Federal Aviation Administration written exam.
2. Students will apply FAA regulations pertinent to aircraft dispatch, meteorology, weather observation, analysis and hazards, navigation, ensuring they can interpret and apply these regulations effectively in practical scenarios.
3. Students will evaluate data concerning all phases of flight. Including take-off and departure data of an airplane reviewing Air Traffic Control procedures, airports, and company procedures. Inflight data such as routing, alternates and flight plan filing. Inflight data, and arrival and approach procedures.
4. Students will understand post-flight dispatch procedures such as flight documentation.
5. Students will evaluate and participate in scenarios on abnormal and emergency aircraft procedures.

AV2960 - Aircraft Dispatcher Written Exam Preparation - 3 - Credits

Course Overview

Course Prefix
AV

Course Number
2960

Department
Aviation Technology

Course Title
Aircraft Dispatcher Written Exam Preparation

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This covers dispatch resource management, aircraft systems, weight and balance, and performance for certification. The FAA computerized ADX exam must be passed in this fall-only course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ANY of the following Courses:

- AV2330 - Private Pilot Ground School
  AND AV2520 - Instrument Pilot Ground School
- AV2320 - Intro to Private Pilot Requirements
  AND AV2510 - IFR and Commercial Regulations and Procedures

Additional requirement

To be eligible for the aircraft dispatcher course, a person must be 21 years of age by Dec. 15th of the fall semester they are enrolled in the course.

Course Learning Objectives

Course Learning Outcomes

1. Flight Maneuvers: Perform fundamental flight maneuvers, such as climbs, descents, turns, stalls and slow flight. Demonstrate proficiency in performance maneuvers, ground reference maneuvers, and takeoff and landing techniques.
2. Regulatory Knowledge: Understand and comply with aviation regulations, including airspace rules and air traffic procedures.
3. Flight Planning: Plan and execute flights, considering fuel requirements, weight and balance, and other relevant factors.

AV3000 - Flight Lab 3 (141 Commercial Training) - 3 - Credits

Course Overview

Course Prefix
AV

Course Number
3000

Department
Aviation Technology

Course Title
Flight Lab 3 (141 Commercial Training)

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students demonstrate through knowledge exams, stage checks, and appropriate evaluation that they meet the FAR Part 141 prerequisites necessary to pass the Practical Test for their intermediate course of training for Commercial Pilot track.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Special Approval
Instructor permission

Other Enrollment Recommendations
AV2900 FLIGHT LAB 2

Course Learning Objectives

Course Learning Outcomes
1. Be able to identify principles of aviation science within the National Airspace System.
2. Be able to discuss key programs and initiatives associated with Next Generation systems.

AV3010 - National Airspace, Air Traffic Control, and Airport Administration - 3 - Credits

Course Overview

Course Prefix
AV

Course Number
3010

Department
Aviation Technology

Course Title
National Airspace, Air Traffic Control, and Airport Administration

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Studies the air traffic control system, including: both controlled and uncontrolled airspace; air navigation facilities; equipment and services; airports and landing areas; aeronautical chart, information and services; rules and regulations; procedures and technical information; and manpower and materials.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete at least 1 of the following courses:

- UAS2050 - Unmanned Aircraft Systems Pilot in Command
  OR AV2510 - IFR and Commercial Regulations and Procedures
  OR AV2350 - Private Pilot Certification
  OR AV2365 - Private Pilot Helicopter Stage II Certification
  OR AV2710 - Basic Control Tower Operations

Course Learning Objectives

Course Learning Outcomes

1. Students will demonstrate the ability to use the writing process as it relates to technical writing and oral communication in aviation.
2. CI: Develop an ability to intentionally craft language for a variety of purposes.
3. CI: Engage in an iterative process of improving communication and applying feedback from an informed audience.
4. CI: Write and speak with purpose to different audiences while negotiating various genre and disciplinary conventions.
   Students will be familiar with FAA guidelines and industry expectations in documentation for aviation.
5. CI: Write and speak with purpose to different audiences while negotiating various genre and disciplinary conventions.
6. CI: Engage with texts or source material.
   Students will develop skills in both individual writing and group writing as needed and expected in industry.
7. CI: Engage with texts or source material.
   Students will practice applying writing and pragmatic thinking to various aspects of the aviation world as it relates to writing and documentation.
8. CI: Develop an ability to intentionally craft language for a variety of purposes.

AV3020 - Electronic Flight Instrument Analysis for Aircraft Technicians - 3 - Credits

Course Overview

Course Prefix
AV

Course Number
3020

Department
Aviation Technology

Course Title
Electronic Flight Instrument Analysis for Aircraft Technicians

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course is an introduction to essential concepts in instrumentation, data collection, and statistical analysis. Includes application in advanced avionic settings.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

AV3100 - Technical Communication for the Global Aviation Industry (CI) - 3 - Credits

Course Overview

Course Prefix
AV

Course Number
3100

Department
Aviation Technology

Course Title
Technical Communication for the Global Aviation Industry (CI)

General Education Attribute
CI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course supports global integration within the aviation community and covers intercultural, interpersonal, and technical communication strategies transferable between careers, including management, aircrew, and ground support. Students gain skills sought by an industry that connects business, people, and cultures.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete at least 1 course in the following course sets:

- Communications Literacy (CL2) Course

Course Learning Objectives

Course Learning Outcomes

1. Students will evaluate how laws and regulations affect decisions and operations in the aviation industry.
2. Students will identify and explain the roles of key regulatory bodies and major domestic and international aviation laws.
3. Students will analyze aviation case studies and legal precedents to understand how law is interpreted and enforced.
4. Students will discuss emerging legal issues such as drones, space tourism, and new technologies in aviation.

AV3120 - Aviation Law - 3 - Credits

Course Overview

Course Prefix
AV

Course Number
3120

Department
Aviation Technology

Course Title
Aviation Law

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Law as it affects aviation industry. Rights and responsibilities of individual organizations and the aviation community. Regulation and liability pertaining to design, manufacturing, operation, and maintenance of aircraft.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Aviation Technology majors with 40 credits completed

Course Learning Objectives

Course Learning Outcomes
1. Plan and execute an IFR cross-country flight.
2. React with confidence to various in-flight emergencies.
3. Communicate with confidence with Air Traffic Control (ATC) using proper radio phraseology.
4. Interpret and identify various symbols on Jeppesen Aeronautical Charts.
5. Apply the basics of CRM by practicing crew communication and coordination.

AV3140 - Advanced Avionics Systems and Flight Simulation - 3 - Credits

Course Overview

Course Prefix
AV

Course Number
3140

Department
Aviation Technology

Course Title
Advanced Avionics Systems and Flight Simulation

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Advanced instrument simulation training.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:
- AV2540 - Instrument Pilot Certification

Course Learning Objectives

Course Learning Outcomes
1. Students will apply knowledge gained in Instrument procedures to simulated flight conditions
2. Students will log instrument training hours necessary for the Instrument certificate
3. Students will confidently pilot instrument procedures in preparation to flying the aircraft.

AV3145 - Helicopter Flight Training Device - 3 - Credits

Course Overview

Course Prefix
AV

Course Number
3145

Department
Aviation Technology

Course Title
Helicopter Flight Training Device

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course consists of advanced instrument simulation training.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Corequisite

Type
Corequisite

Required

Enroll in the following Courses:

- AV2525 - Instrument Pilot Ground School Helicopter

Course Learning Objectives

Course Learning Outcomes

1. The student will obtain the aeronautical knowledge and flight training necessary to meet the prerequisites specified in FAR part 141 for the course of training which the student is working towards.
2. Flight Maneuvers: Perform fundamental flight maneuvers, such as climbs, descents, turns, stalls and slow flight. Demonstrate proficiency in performance maneuvers, ground reference maneuvers, and takeoff and landing techniques.
3. Regulatory Knowledge: Understand and comply with aviation regulations, including airspace rules and air traffic procedures.
4. Flight Planning: Plan and execute flights, considering fuel requirements, weight and balance, and other relevant factors.

AV3200 - Flight Lab 4 (141 Commercial and CFI Training) - 3 - Credits

Course Overview

Course Prefix
AV

Course Number
3200

Department
Aviation Technology

Course Title
Flight Lab 4 (141 Commercial and CFI Training)

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students demonstrate through knowledge exams, stage checks, and appropriate records that they meet the prerequisites in FAR part 141 necessary to pass the Practical Test for the course of training which the student is working towards.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Special Approval
Instructor permission

Other Enrollment Recommendations
AV3000 FLIGHT LAB 3

Course Learning Objectives

Course Learning Outcomes

1. Integrate knowledge and skills from the General, Airframe, and Powerplant curricula to demonstrate comprehensive understanding of FAA Part 147 subject areas.
2. Apply FAA Practical Test Standards (PTS) and Airman Certification Standards (ACS) as guidelines for both written and practical exam preparation.
3. Demonstrate proficiency in maintenance theory, inspection procedures, and repair techniques across airframe and powerplant systems.
4. Perform hands-on lab exercises and review projects that reinforce technical accuracy, documentation practices, and regulatory compliance.
5. Evaluate and refine test-taking and troubleshooting skills to achieve readiness for FAA written and practical certification examinations.

AV3280 - Advanced Aircraft Maintenance - 3 - Credits

Course Overview

Course Prefix
AV

Course Number
3280

Department
Aviation Technology

Course Title
Advanced Aircraft Maintenance

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Advanced Aircraft Maintenance. A capstone class that through hands on review of skills gained throughout the curriculum will prepare students for FAA written exams in General, Airframe, and Powerplant studies.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

AV3300 - Flight Lab 5 (141 CFI Training) - 2 - Credits

Course Overview

Course Prefix
AV

Course Number
3300

Department
Aviation Technology

Course Title
Flight Lab 5 (141 CFI Training)

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Students will demonstrate through knowledge exams, stage checks, and appropriate evaluation that they meet the FAR Part 141 prerequisites necessary to pass the Practical Test for their secondary advanced course of training for Commercial Pilot track.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Special Approval
Instructor permission

Other Enrollment Recommendations
AV3000 FLIGHT LAB 3

Course Learning Objectives

Course Learning Outcomes

Students will continue to develop airmanship as they log additional flight hours with increased understanding in the following knowledge areas:

1. Science: Describe basic principles of physical science as they relate to aviation, including: Properties of air, Four forces of flight, Lift and Bernoulli's principle, Newton's laws of motion.
2. Aircraft: Describe the major parts of an aircraft, including: Control surfaces (ailerons, rudder, elevators), Airfoil (leading edge, trailing edge, chord, and camber), Fuselage, empennage, horizontal stabilizer, vertical stabilizer, Flaps, strut, spinner, propeller. Yoke, rudder pedals, throttle.
3. Instruments: Identify by sight and describe the function of major flight instruments, including: Airspeed Indicator Compass, Attitude Indicator Tachometer, Altimeter Turn-and-Slip Indicator, Vertical speed indicator
4. Flight Maneuvers: Explain how pilots perform basic flight maneuvers to include roll, pitch, and yaw. Explain the manner in which control surfaces are manipulated during roll, pitch, and yaw. Summarize basic procedures used during take-offs and landings.
5. Weather: Discuss characteristics of VFR weather. Identify basic cloud types, Discuss how gliders soar using thermals, ridge and slope soaring, sea breeze soaring, and mountain wave soaring, Discuss how air currents affect lighter-than-air aircraft.

AV3310 - ROTC Flight 2 - 1 - 3 Credits

Course Overview

Course Prefix
AV

Course Number
3310

Department
Aviation Technology

Course Title
ROTC Flight 2

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course enables ROTC cadets to continue to develop their Airmanship, aviation flight skills, and log additional flight hours; students increase knowledge of flight principles, aviation meteorology, cross country flying, aircraft systems, and emergency procedures for single-engine aircraft.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

Registration Restrictions
Must be an enrolled ROTC student

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- AV2310 - ROTC Flight 1

Course Learning Objectives

Course Learning Outcomes

1. Students will continue to develop airmanship as they log additional flight hours with increased understanding in the following knowledge areas:
2. Science: Describe basic principles of physical science as they relate to aviation, including: • Properties of air • Four forces of flight • Lift and Bernoulli's principle • Newton's laws of motion.
3. Aircraft: Describe the major parts of an aircraft, including: • Control surfaces (ailerons, rudder, elevators) • Airfoil (leading edge, trailing edge, chord, and camber) • Fuselage, empennage, horizontal stabilizer, vertical stabilizer • Flaps, strut, spinner, propeller • Yoke, rudder pedals, throttle.
4. Instruments: Identify by sight and describe the function of major flight instruments, including: • Airspeed Indicator Compass • Attitude Indicator Tachometer • Altimeter Turn-and-Slip Indicator • Vertical speed indicator 3. Flight Maneuvers: Explain how pilots perform basic flight maneuvers to include roll, pitch, and yaw. • Explain the manner in which control surfaces are manipulated during roll, pitch, and yaw. • Summarize basic procedures used during take-offs and landings.
5. Weather: Discuss characteristics of VFR weather. • Identify basic cloud types. • Discuss how gliders soar using thermals, ridge and slope soaring, sea breeze soaring, and mountain wave soaring. • Discuss how air currents affect lighter-than-air aircraft.

AV3410 - Commercial Single Engine Certification - Commercial Stage 3 - 3 - Credits

Course Overview

Course Prefix
AV

Course Number
3410

Department
Aviation Technology

Course Title
Commercial Single Engine Certification - Commercial Stage 3

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course focuses on single-engine commercial training required for the commercial pilot certificate. Students learn the required maneuvers, knowledge, and skills that are necessary to pass the FAA Commercial Pilot check ride.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Special Approval
Instructor permission

Simple Requisites

Prerequisite

Type
Completion Requirement

Required

Complete ALL of the following Courses:

- AV2540 - Instrument Pilot Certification
- AV2620 - Commercial Pilot Ground School
- AV2660 - Advanced Maneuvers - Commercial Stage 2

Course Learning Objectives

Course Learning Outcomes

1. Obtain the necessary knowledge, risk management, and skill elements as required by the FAA's Airmen Certification Standards (ACS) Section 1-General, subsection i - Regulations, Maintenance Forms, Records, and Publications.
2. Be able to effectively and efficiently work in a team environment
3. Be prepared for certification testing in this particular subject area

AV3420 - FAA Regulations, Records, and Certification - 2 - Credits

Course Overview

Course Prefix
AV

Course Number
3420

Department
Aviation Technology

Course Title
FAA Regulations, Records, and Certification

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students learn the maintenance forms, records, and regulations releasing aircraft to airworthy status. Certification of maintenance technicians is also included.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- AV1140 - Aircraft Components and Principles

Course Learning Objectives

Course Learning Outcomes

1. Commercial single-engine training will provide the student the opportunity to control the single-engine aircraft through different flight regimes and acquire the knowledge to safely control the aircraft.
2. The student will become proficient in syllabus specified areas in addition to learning to correlation of flying skills with the FAA Special Emphasis Areas.

AV3440 - Accelerated Commercial Certification - 3 - Credits

Course Overview

Course Prefix
AV

Course Number
3440

Department
Aviation Technology

Course Title
Accelerated Commercial Certification

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course is the training for the Single-Engine Commercial license in an accelerated format emphasizing training to proficiency which does not require minimum ground or flight training time. The student is tested to verify knowledge necessary to pass an FAA check ride.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Special Approval

Instructor Permission

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- AV2540 - Instrument Pilot Certification
- AV2620 - Commercial Pilot Ground School

may be taken concurrently

Course Learning Objectives

Course Learning Outcomes

1. The instructor applicants will acquire skills around how students learn differently, have different needs, goals, strengths, fears, and weaknesses.
2. The instructor applicants will learn pivotal job requirements such as: how to assess how the student is progress, adapt training as necessary, and watch out for learning plateaus.
3. This requires skill, a bit of psychology, and a decent understanding of physical reactions.
4. This is why the FAA enforces the Fundamentals of Instructing (FOI). The FOI helps new instructors understand and apply the principles of learning theory.

AV3510 - UAS Fixed Wing Design and Construction - 3 - Credits

Course Overview

Course Prefix
AV

Course Number
3510

Department
Aviation Technology

Course Title
UAS Fixed Wing Design and Construction

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students learn how a fixed wing small unmanned aircraft system (UAS) is physically designed and constructed. Students build and modify a fixed wing model aircraft and fly it multiple times during the semester.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- UAS1010 - Unmanned Aircraft Systems - Remote Pilot
- AV1905 - Intro to Unmanned Aerial Systems (without FAA Exam)
- UAS1100 - Introduction to Unmanned Aircraft Systems
- UAS3010 - Unmanned Aircraft System Introduction to Remote Pilot Certification
- UAS3020 - Part 61 Introduction to Unmanned Aircraft Systems and Flight Lab

may be taken concurrently

AV3515 - UAS Maintenance & Multirotor - 3 - Credits

Course Overview

Course Prefix
AV

Course Number
3515

Department
Aviation Technology

Course Title
UAS Maintenance & Multirotor

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students learn best maintenance practices for unmanned aircraft, including tooling, materials, and documentation. Students build their own multi-rotor UAS from a kit, documenting the process along the way and ending with a flight day to test out their build.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete at least 1 of the following courses:

- UAS1010 - Unmanned Aircraft Systems - Remote Pilot
- AV1905 - Intro to Unmanned Aerial Systems (without FAA Exam)
  AND UAS1100 - Introduction to Unmanned Aircraft Systems
- UAS3010 - Unmanned Aircraft System Introduction to Remote Pilot Certification
- UAS3020 - Part 61 Introduction to Unmanned Aircraft Systems and Flight Lab

may be taken concurrently

AV3520 - UAS Guidance and Control - 3 - Credits

Course Overview

Course Prefix
AV

Course Number
3520

Department
Aviation Technology

Course Title
UAS Guidance and Control

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students learn how to program a sUAS, direct guidance for both fixed wing and rotary wing sUAS, and collect different kinds of data from the flights. Students analyze data from their flights to ensure that systems are working as expected.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- AV3515 - UAS Maintenance & Multirotor

AV3525 - UAS Sensors - 3 - Credits

Course Overview

Course Prefix
AV

Course Number
3525

Department
Aviation Technology

Course Title
UAS Sensors

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students are exposed to a wide variety of sensors aboard Unmanned Aerial Systems (UAS) as a whole. Students learn about onboard sensors that help the aircraft stay upright and flying as well as external sensors used to gather data for later analysis.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- AV3515 - UAS Maintenance & Multirotor
- AV3520 - UAS Guidance and Control

AV3535 - UAS Intermediate Flight Lab - 3 - Credits

Course Overview

Course Prefix
AV

Course Number
3535

Department
Aviation Technology

Course Title
UAS Intermediate Flight Lab

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Students further develop fixed wing UAS flight skills by advancing from assisted to full manual flight operations with and without landing gear. Emphases include safety of flight, fixed wing aircraft flight patterns and possible multirotor aircraft flight.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete at least 1 of the following courses:

- UAS1010 - Unmanned Aircraft Systems - Remote Pilot
- AV1905 - Intro to Unmanned Aerial Systems (without FAA Exam)
  AND UAS1100 - Introduction to Unmanned Aircraft Systems
- UAS3010 - Unmanned Aircraft System Introduction to Remote Pilot Certification
- UAS3020 - Part 61 Introduction to Unmanned Aircraft Systems and Flight Lab

AV3560 - UAS Aerial Photography - 3 - Credits

Course Overview

Course Prefix
AV

Course Number
3560

Department
Aviation Technology

Course Title
UAS Aerial Photography

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students learn aerial mapping, photo mosaic construction, and video creation with fixed and rotary wing applications. Students complete a business proposal of their project for approval by a simulated advisory panel. Students may use their own sUAS for their project.Prerequisites: One of the following:AV 3500 (may be taken concurrently)AV 3505 (may be taken concurrently)Instructor approval with Part 107 Remote Pilot Certificate

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

AV3700 - Fundamentals of Instruction - 1 - Credits

Course Overview

Course Prefix
AV

Course Number
3700

Department
Aviation Technology

Course Title
Fundamentals of Instruction

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Instructor applicants learn material related to the testing standards, learning processes, fundamentals of instruction, Federal Aviation Regulations, and endorsements required by the Federal Aviation Administration.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Registration Restrictions
Aviation Technology - Professional Pilot: Fixed Wing Emphasis - BS

Aviation Technology - Professional Pilot: Accelerated Fixed Wing Emphasis - BS

Admission to the Professional Pilot Major

Other Enrollment Recommendations
Recommendation of Private Pilot Rating with Instrument Privileges. And some commercial training.

Simple Requisites

Corequisite

Type
Corequisite

Required

Enroll in the following Courses:
- AV3410 - Commercial Single Engine Certification - Commercial Stage 3

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:
- AV2660 - Advanced Maneuvers - Commercial Stage 2
- AV2620 - Commercial Pilot Ground School

and a GPA of 3.0 or higher

Course Learning Objectives

Course Learning Outcomes
1. Explain and apply the Fundamentals of Instruction (FOI), including learning theory, effective communication, human behavior, and evaluation techniques, in accordance with FAA guidance.
2. Interpret and apply Federal Aviation Regulations (Parts 61 and 91) and other FAA publications relevant to flight instruction, pilot certification, and endorsements.
3. Develop and deliver effective ground instruction lessons that communicate complex aeronautical concepts clearly and accurately to student pilots.
4. Demonstrate advanced written and oral communication skills through research papers, educational essays, and formal presentations that integrate aeronautical content with instructional best practices.
5. Design instructional materials and teaching strategies aligned with the FAA Certified Flight Instructor syllabus and the learning needs of diverse aviation students.
6. Exhibit professional instructional competence and communication proficiency required to meet both FAA flight instructor certification standards and Utah State University's Communication Intensive criteria.

AV3720 - CFI Ground School (CI) - 3 - Credits

Course Overview

Course Prefix
AV

Course Number
3720

Department
Aviation Technology

Course Title
CFI Ground School (CI)

General Education Attribute
CI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description

This course is designed to prepare students to pass the FAA oral and written examinations required for becoming certified flight instructors.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Registration Restrictions

Admission to the Aviation Technology - Professional Pilot: Fixed Wing Emphasis - BS or the Aviation Technology - Professional Pilot: Accelerated Fixed Wing Emphasis - BS major.

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- AV3410 - Commercial Single Engine Certification - Commercial Stage 3

Corequisite

Type
Corequisite

Required Corequisite

Enroll in the following Courses:

- AV3740 - CFI Certification

Course Learning Objectives

Course Learning Outcomes

1. Explain and apply the Fundamentals of Instruction (FOI), including learning theory, effective communication, human behavior, evaluation techniques, etc. in accordance with FAA guidance.
2. Interpret and apply Federal Aviation Regulations (Parts 61 and 91) and other FAA publications relevant to flight instruction, pilot certification, and endorsements.
3. Develop and deliver effective ground instruction lessons that communicate complex aeronautical concepts clearly and accurately to student pilots.
4. Demonstrate advanced written and oral communication skills through the use of lesson plans and formal presentations that integrate aeronautical content with instructional best practices.
5. Design instructional materials and teaching strategies aligned with the FAA Certified Flight Instructor handbook and the learning needs of diverse aviation students.
6. Exhibit professional instructional competence and communication proficiency required to meet both FAA flight instructor certification standards and Utah State University's Communication Intensive criteria.

AV3725 - Certified Flight Instructor Ground School Helicopter - 4 - Credits

Course Overview

Course Prefix
AV

Course Number
3725

Department
Aviation Technology

Course Title
Certified Flight Instructor Ground School Helicopter

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course is designed to prepare students to pass the FAA oral and written examinations required for becoming a certified flight instructor.

Credit Hours

Credit Hours
Min:
4

Contact Hours

Contact Hours
Min:
4

Billing Hours

Billing Hours
Min:
4

Lecture Hours

Lecture Hours
Min:
4

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- AV2545 - Instrument Helicopter Certification
- CEAV2675 - Commercial Helicopter Stage II Certification

Course Learning Objectives

Course Learning Outcomes

1. Students will learn flight instruction techniques and safety practices
2. Students will gain confidence and proficiency in flight maneuvers
3. Students will learn recovery procedures for student pilot mistakes
4. Students will apply aeronautical decision making to their student's decisions and evaluate and correct errors
5. Students will be prepared to take and pass the FAA Flight Instructor Helicopter practical test
6. Students will understand and be prepared to meet the Flight Instructor Helicopter Airman Certification Standards

AV3735 - Certified Flight Instructor Certification Helicopter - 2 - Credits

Course Overview

Course Prefix
AV

Course Number
3735

Department
Aviation Technology

Course Title
Certified Flight Instructor Certification Helicopter

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This is an FAA approved flight training program introducing requirements for the issuance of the Certified Flight Instructor Helicopter rating.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Special Approval
Instructor permission

Simple Requisites

Corequisite

Type
Corequisite

Required

Enroll in the following Courses:

- AV3725 - Certified Flight Instructor Ground School Helicopter

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- AV2675 - Commercial Helicopter Stage II Certification

Course Learning Objectives

Course Learning Outcomes

1. Demonstrate proficiency in all Private and Commercial Pilot flight maneuvers to the standards outlined in the FAA Flight Instructor Airman Certification Standards (ACS).
2. Effectively teach, demonstrate, and evaluate flight maneuvers and procedures from both the left and right seat, using appropriate instructional techniques and communication strategies.
3. Apply the Fundamentals of Instruction (FOI) in the flight environment to enhance student learning, motivation, and performance.
4. Conduct preflight, in-flight, and postflight briefings that effectively communicate lesson objectives, performance standards, and safety considerations.
5. Identify, analyze, and correct student pilot errors through clear demonstration, guided practice, and constructive feedback.
6. Integrate risk management and aeronautical decision-making (ADM) into all instructional activities, modeling sound judgment and safety practices.
7. Demonstrate readiness for the FAA Certified Flight Instructor practical test (check ride) by meeting or exceeding all performance and instructional proficiency standards.

AV3740 - CFI Certification - 2 - Credits

Course Overview

Course Prefix
AV

Course Number
3740

Department
Aviation Technology

Course Title
CFI Certification

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This FAA-approved flight training program meets all requirements for the issuance of the Certified Flight Instructor Airplane Rating.

Credit Hours

Credit Hours Min:
2

Contact Hours

Contact Hours Min:
2

Billing Hours

Billing Hours Min:
2

Lecture Hours

Lecture Hours Min:
2

Registration Restrictions
Admission to Aviation Technology - Professional Pilot: Fixed Wing Emphasis - BS major.

Special Approval
Instructor permission

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- AV3410 - Commercial Single Engine Certification - Commercial Stage 3
- AV3720 - CFI Ground School (CI)

may be taken concurrently

Course Learning Objectives

Course Learning Outcomes

1. Demonstrate proficiency in Certified Flight Instructor flight maneuvers to the standards outlined in the FAA Flight Instructor Airman Certification Standards (ACS).
2. Effectively teach, demonstrate, and evaluate flight maneuvers and procedures from the right seat, using appropriate instructional techniques and communication strategies.
3. Apply the Fundamentals of Instruction (FOI) in the flight environment to enhance student learning, motivation, and performance.
4. Conduct preflight, in-flight, and postflight briefings that effectively communicate lesson objectives, performance standards, and safety considerations.
5. Identify, analyze, and correct student pilot errors through clear demonstration, guided practice, and constructive feedback.
6. Integrate risk management and aeronautical decision-making (ADM) into all instructional activities, modeling sound judgment and safety practices.
7. Demonstrate readiness for the FAA Certified Flight Instructor practical test (check ride) by meeting or exceeding all performance and instructional proficiency standards.

AV3760 - Certified Flight Instructor Instrument Certification - 1 - Credits

Course Overview

Course Prefix
AV

Course Number
3760

Department
Aviation Technology

Course Title
Certified Flight Instructor Instrument Certification

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
FAA approved flight training program meeting all the requirements for, and issuance of, the Certified Flight Instructor, Airplane Instrument Rating.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Special Approval

Instructor permission

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- AV3740 - CFI Certification

Course Learning Objectives

Course Learning Outcomes

1. Students will develop skills as a pilot to the instructor pilot level
2. Students will train in instructional techniques, lesson plan development, human behavior and communication, learning processes, teaching processes and flight instruction techniques
3. Students will develop lesson plans and teaching methods to teach Instrument Pilots.
4. Students will be prepared to take and pass the FAA Flight Instructor Instrument Helicopter knowledge test

AV3825 - Certified Flight Instructor - Instrument Ground School Helicopter - 4 - Credits

Course Overview

Course Prefix
AV

Course Number
3825

Department
Aviation Technology

Course Title
Certified Flight Instructor - Instrument Ground School Helicopter

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course is designed to prepare students to pass the FAA oral and written examinations required for becoming certified flight instructor-instrument.

Credit Hours

Credit Hours
Min:
4

Contact Hours

Contact Hours
Min:
4

Billing Hours

Billing Hours
Min:
4

Lecture Hours

Lecture Hours
Min:
4

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- AV3735 - Certified Flight Instructor Certification Helicopter

Course Learning Objectives

Course Learning Outcomes

1. Students will learn flight instruction techniques and safety practices
2. Students will gain confidence and proficiency in flight maneuvers
3. Students will learn recovery procedures for student pilot mistakes
4. Students will apply aeronautical decision making to their student's decisions and evaluate and correct errors
5. Students will be prepared to take and pass the FAA Flight Instructor Helicopter practical test
6. Students will understand and be prepared to meet the Flight Instructor Helicopter Airman Certification Standards

AV3835 - Certified Flight Instructor Instrument Certification Helicopter - 1 - Credits

Course Overview

Course Prefix
AV

Course Number
3835

Department
Aviation Technology

Course Title
Certified Flight Instructor Instrument Certification Helicopter

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This is an FAA approved flight training program introducing requirements for the issuance of Certified Flight Instructor Instrument Helicopter rating.

Credit Hours

Credit Hours Min:
1

Contact Hours

Contact Hours Min:
1

Billing Hours

Billing Hours Min:
1

Lecture Hours

Lecture Hours Min:
1

Special Approval
Instructor permission

Simple Requisites

Corequisite

Type
Corequisite

Required

Enroll in the following Courses:

- AV3825 - Certified Flight Instructor - Instrument Ground School Helicopter

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- AV3735 - Certified Flight Instructor Certification Helicopter

Course Learning Objectives

Course Learning Outcomes

1. Commercial multi-engine training will provide the student the opportunity to control the multi-engine aircraft through different flight regimes and acquire the knowledge to safely control the aircraft.
2. The student will become proficient in syllabus specified areas in addition to learning to correlation of flying skills with the FAA Special Emphasis Areas.

AV3880 - Commercial Multi-Engine Add-On - 2 - Credits

Course Overview

Course Prefix
AV

Course Number
3880

Department
Aviation Technology

Course Title
Commercial Multi-Engine Add-On

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course incorporates a flight training program designed to satisfy all requirements necessary to qualify a student for the FAA Multi-Engine Airplane Rating practical test.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Special Approval
Instructor permission

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- AV3740 - CFI Certification

Course Learning Objectives

Course Learning Outcomes

1. Students will learn turbine helicopter systems, procedures, emergency procedures and flight regimes
2. Students will safely preflight, start, and fly a turbine helicopter
3. Students will learn additional skills applicable to turbine aircraft such as vertical reference, turbine engine gauge significance and turbine spooling

AV3885 - Helicopter Turbine Transition - 2 - Credits

Course Overview

Course Prefix
AV

Course Number
3885

Department
Aviation Technology

Course Title
Helicopter Turbine Transition

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces students to turbine engines and helicopters.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- AV2625 - Commercial Pilot Ground School Helicopter
- AV2675 - Commercial Helicopter Stage II Certification

Course Learning Objectives

Course Learning Outcomes

1. Develop and execute a customized learning plan addressing an aviation topic, project, or area of inquiry not covered in standard coursework.
2. Demonstrate self-directed learning and initiative through independent research, analysis, or practical application related to aviation theory or operations.
3. Apply critical thinking and problem-solving skills to a specific aviation issue, project, or system.
4. Synthesize and communicate findings or project outcomes in a professional written report, presentation, or other approved deliverable.
5. Connect independent study outcomes to broader aviation industry standards, practices, or emerging technologies.

AV3900 - Aviation Independent Study - 1 - 3 Credits

Course Overview

Course Prefix
AV

Course Number
3900

Department
Aviation Technology

Course Title
Aviation Independent Study

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Customized study, projects, and/or readings on topics not covered in regular courses.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

Special Approval

Approval of proposal written by students in consultation with Instructor

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Students will explain requirements for an aircraft dispatcher certificate and the role of dispatchers in air carriers. Students will prepare comprehensive flight plans, load manifests, takeoff data, and dispatch releases for flights.
2. Students will understand basic weather theory, regional weather types, and atmospheric characteristics. Analyze and apply aviation weather information in flight planning, including pressure, wind, clouds, and hazards. Analyze weather information for proposed flight routes and destination airports, determining alternate airport requirements. Identify and apply appropriate performance adjustments related to weather hazards. Discuss weather hazards like crosswinds, turbulence, icing, thunderstorms, and volcanic ash with proficiency.
3. Students will comprehend aircraft flight principles, performance limitations, and their implications. Utilize aircraft performance data for takeoff, climb, cruise, and landing, considering weather conditions and weight balance.
4. Students will demonstrate knowledge of navigation charts, airborne instruments, and various navigation systems. Understand navigation procedures, special operations, and time/location references relevant to flight planning.
   Implement dispatcher resource management procedures and human factors in decision-making. Demonstrate situational awareness, contingency planning, and error management to prevent accidents/ incidents.

AV3960 - Aircraft Dispatcher Practical Exam Preparation - 3 - Credits

Course Overview

Course Prefix
AV

Course Number
3960

Department
Aviation Technology

Course Title
Aircraft Dispatcher Practical Exam Preparation

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This is the second of two classes providing students with the knowledge required for certification as an aircraft dispatcher. Explores factors necessary to prepare a flight plan such as weather analysis, enroute charts, dispatch release, and emergency/abnormal procedures.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Other Enrollment Recommendations

To qualify for the dispatcher certification an applicant must be at least 23 years old. Written and knowledge tests can be taken at 21 years of age but students will be unable to receive their dispatch certificate or work as a dispatcher until they turn 23. If students are not 23 years of age when they pass the exams, they will receive a Letter of Aeronautical Competency until they turn 23 years of age.

Course Learning Objectives

Course Learning Outcomes

1. Demonstrate advanced flight skills and proficiency necessary to compete in National Intercollegiate Flying Association (NIFA) events, including both flying and ground-based competitions.
2. Apply aeronautical knowledge in high-pressure, competitive scenarios, integrating decision-making, problem-solving, and safety practices.
3. Lead and collaborate effectively within a team environment, fulfilling officer responsibilities and supporting team objectives.
4. Plan, organize, and execute fundraising and logistical activities to support team operations and competition participation.
5. Evaluate team performance and personal progress, using feedback and competition results to improve skills, strategies, and leadership effectiveness.
6. Exhibit professionalism, time management, and ethical behavior consistent with both aviation industry standards and collegiate competition expectations.

AV4100 - National Intercollegiate Flying Association Flight Team Lab - 1 - 3 Credits

Course Overview

Course Prefix
AV

Course Number
4100

Department
Aviation Technology

Course Title
National Intercollegiate Flying Association Flight Team Lab

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
The course will help students prepare for the annual flight competition through leadership experience, fundraising and technical training. Preparation for the annual NIFA competition includes both flying and ground events, and students take on responsibilities as club officers in the USU Flight Team Club.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Demonstrate safe and proficient operation of USU Flight Team aircraft, including Cessna single-engine airplanes, in preparation for competition events.
2. Apply flight and ground event skills specific to the National Intercollegiate Flying Association (NIFA) SAFECON competition.
3. Complete mission-oriented flight training exercises to develop precision, situational awareness, and effective decision-making under competitive conditions.
4. Perform preflight, in-flight, and postflight procedures in accordance with FAA standards and team operational protocols.
5. Evaluate personal and team performance to identify strengths, weaknesses, and areas for improvement in both flying and ground-based competition events.
6. Exhibit professionalism, teamwork, and adherence to safety and regulatory standards while preparing for high-level aviation competitions.

AV4110 - National Intercollegiate Flying Team Certification - 1 - 3 Credits

Course Overview

Course Prefix
AV

Course Number
4110

Department
Aviation Technology

Course Title
National Intercollegiate Flying Team Certification

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Students complete orientation with USU Flying Team aircraft, flight/ground competition event skills and Cessna certification. Students may be checked out in the Cessna and fly training missions in preparation for the National Intercollegiate Flying Association SAFECON competition.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Perform rapid and safe maintenance procedures to return aircraft to service in accordance with FAA standards and industry practices.
2. Apply technical knowledge of aircraft systems to diagnose, troubleshoot, and repair mechanical and avionics issues efficiently.
3. Demonstrate teamwork, delegation, and communication skills in completing maintenance tasks under time-sensitive conditions.
4. Integrate problem-solving and critical thinking to prioritize maintenance tasks and make effective operational decisions.
5. Participate in collegiate-level maintenance competitions, applying industry-standard procedures while adhering to safety protocols.
6. Evaluate performance and process efficiency, reflecting on improvements for both individual and team operations in high-pressure scenarios.

AV4150 - AOG (Aircraft On Ground) Aircraft Maintenance - 1 - 3 Credits

Course Overview

Course Prefix
AV

Course Number
4150

Department
Aviation Technology

Course Title
AOG (Aircraft On Ground) Aircraft Maintenance

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Students practice learned procedures to safely and quickly return an aircraft to service. They use teamwork skills, delegation, and cooperation in performing tasks that they incorporate in industry practice and collegiate-level competitions.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- AV1140 - Aircraft Components and Principles
- AV1240 - Aircraft Maintenance
- AV2170 - Aircraft Systems

Course Learning Objectives

Course Learning Outcomes

1. Select and apply composite materials appropriately based on mechanical properties, tensile strength, and intended aerospace applications.
2. Demonstrate proficiency in composite fabrication techniques, including hand lay-up, vacuum bagging, autoclave curing, filament winding, and hot wire foam cutting.
3. Identify, analyze, and repair defects in composite structures to ensure structural integrity and compliance with aviation standards.
4. Perform proper handling, storage, finishing, and machining of composite materials while adhering to safety protocols.
5. Apply testing methods and inspection techniques to evaluate composite materials and fabricated components for quality and airworthiness.

AV4200 - Composite Manufacturing Processes and Repair - 3 - Credits

Course Overview

Course Prefix
AV

Course Number
4200

Department
Aviation Technology

Course Title
Composite Manufacturing Processes and Repair

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Composite manufacturing processes, composite materials survey, tooling design and fabrication, autoclave processes, vacuum bag techniques, filament winding processes, equipment requirements, materials cutting and storage, and composite materials testing.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- AV1170 - Aircraft Structures

AV4250 - Internship - 1 - 6 Credits

Course Overview

Course Prefix
AV

Course Number
4250

Department
Aviation Technology

Course Title
Internship

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Planned supervised work experience in industry.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
6

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
6

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
6

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
6

Lecture Hours Operator:
TO

Special Approval

Department permission

Course Learning Objectives

Course Learning Outcomes

1. The students will gain factual knowledge (terminology, classification, Methods, Trends). Each student will develop a business plan for their airline. Each student will start an online airline an operate the airline during the semester. Plan on spending at least two hours each week on your airline.

2. Students will learn the fundamental principles, generalizations, or theories of airline management. Students will have the opportunity to interview businesses and develop strengths, weaknesses, opportunities, and threat analysis.
3. Develop skills in expressing oneself in writing. Students will express their knowledge of airline management through weekly written analysis and development of a SWOT Analysis and Business Plan.

AV4280 - Aviation Management - 3 - Credits

Course Overview

Course Prefix
AV

Course Number
4280

Department
Aviation Technology

Course Title
Aviation Management

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Study of airline operations and their organizational structure. Examines functions of airline dispatcher, operations specialists, managers, and cockpit flight crew. Discussion of advanced flight planning, aircraft performance and loading considerations, and impact of weather on flight operations and routing priorities.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Registration Restrictions
Aviation Technology majors with 40 credits completed

Course Learning Objectives

Course Learning Outcomes

1. Be able to describe the elements of human physiology, the impact of the external environment on the body in the aviation environment and how it affects human performance.
2. Be able to discuss the psychological aspects of aviation and the mental and emotional limitations of the human body.
3. Be able to apply the lessons learned from the case studies in this class to improve skills such as Crew Resource Management, Decision Making, and Risk Management.
4. Be able to describe the importance of man-machine engineering and design of hardware in the interface process.
5. Improve error management in maintenance through the application of Human Factors.

6. Demonstrate competency in writing and speaking skills through essays, assignments, and reports.
7. Gain experience in the application of teamwork to find solutions and make decisions.

AV4300 - History of Aviation in America - 3 - Credits

Course Overview

Course Prefix
AV

Course Number
4300

Department
Aviation Technology

Course Title
History of Aviation in America

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course highlights historical events, individuals and milestones in the development of aviation in America during the 20th century. This course will help students evaluate the explosive growth of aviation in relation to the economic, military, and social growth in the United States. The course is intended for upper level aviation students pursuing a career in aviation or aviation related fields, as well as anyone interested in learning about the history of aviation in America.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Students with 40 credits completed

AV4490 - Human Factors in Aviation Safety - 3 - Credits

Course Overview

Course Prefix
AV

Course Number
4490

Department
Aviation Technology

Course Title
Human Factors in Aviation Safety

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Examines major causative agent in aircraft accidents: the human being. Emphasizes psychological and physiological factors enhancing accident probability. Includes detailed analysis of ergonomics (human engineering) and its influence on safety.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Aviation Technology majors with 40 credits completed

Course Learning Objectives

Course Learning Outcomes
1. Students will attend and pass the Robinson Helicopter Factory Safety Course
2. Students will gain enhanced understanding and decision making regarding peculiarities of the Robinson helicopter

AV4505 - Advanced Robinson Helicopter Systems - 3 - Credits

Course Overview

Course Prefix
AV

Course Number
4505

Department
Aviation Technology

Course Title
Advanced Robinson Helicopter Systems

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Robinson Safety Course and maintenance seminar.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- AV2175 - Robinson Helicopter Systems
- AV2355 - Private Pilot Helicopter Stage I Certification

Course Learning Objectives

Course Learning Outcomes

1. Students will learn about the development and history of the helicopter aircraft
2. Students will learn about the unique capabilities of the helicopter and their economic applications
3. Students will explore specific segments of the industry, their interest in each and how to assess the job market and submit a resume and application.

AV4550 - Airport Planning - 3 - Credits

Course Overview

Course Prefix
AV

Course Number
4550

Department
Aviation Technology

Course Title
Airport Planning

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course immerses students in the planning and design of public airports and includes understanding of grant funding and eligibility, airport financing, and project management. Students formulate products for the various phases of an airport master plan.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Course Learning Objectives

Course Learning Outcomes

By the end of this course, students will be able to:

1. Understand the planning process and its broad applications to and beyond airport master plan
2. Explain elements of current and future issues facing airport management and development.
3. Identify key participants involved in the business of airport planning and design.
4. Assess past and predict future aviation trends as they affect airport planning and design

AV4605 - Helicopter History and Industry Applications - 2 - Credits

Course Overview

Course Prefix
AV

Course Number
4605

Department
Aviation Technology

Course Title
Helicopter History and Industry Applications

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This is an in-depth look into helicopter applications in the industry and an overview of helicopter commercial operations (part 135).

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- AV2365 - Private Pilot Helicopter Stage II Certification

Course Learning Objectives

Course Learning Outcomes

1. Plan, manage, and execute a complex aviation project from concept and design through fabrication, testing, and validation, including scheduling, cost tracking, and documentation.
2. Demonstrate professional communication skills through written reports, formal presentations, and documentation of project progress and results.
3. Apply critical thinking and problem-solving skills to address technical challenges and validate solutions within the scope of their project.
4. Develop teamwork, leadership, and interpersonal skills through collaboration with peers, faculty, or as a teaching assistant in an aviation course.
5. Demonstrate professional accountability and ethical practice, including adherence to safety protocols, regulatory requirements, and institutional policies such as background checks or handling of student records.

AV4610 - Aviation Maintenance Senior Project I (CI) - 3 - Credits

Course Overview

Course Prefix
AV

Course Number
4610

Department
Aviation Technology

Course Title
Aviation Maintenance Senior Project I (CI)

General Education Attribute
CI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students select and plan a senior project, serve as a teaching assistant, or complete a return to service where students formally share aviation job experiences with classmates. Projects require a written proposal and preapproval of the project.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Admission to the Aviation Technology - Maintenance Management - BS program

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Completion of at least 40 credits

Course Learning Objectives

Course Learning Outcomes

1. Plan, manage, and execute a complex aviation project from concept and design through fabrication, testing, and validation, including scheduling, cost tracking, and documentation.
2. Demonstrate professional communication skills through written reports, formal presentations, and documentation of project progress and results.
3. Apply critical thinking and problem-solving skills to address technical challenges and validate solutions within the scope of their project.
4. Develop teamwork, leadership, and interpersonal skills through collaboration with peers, faculty, or as a teaching assistant in an aviation course.
5. Demonstrate professional accountability and ethical practice, including adherence to safety protocols, regulatory requirements, and institutional policies such as background checks or handling of student records.

AV4620 - Aviation Maintenance Senior Project II (CI) - 3 - Credits

Course Overview

Course Prefix
AV

Course Number
4620

Department
Aviation Technology

Course Title
Aviation Maintenance Senior Project II (CI)

General Education Attribute
CI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students continue with a larger-scale project that spans two semesters. Students continue to give progress reports, finish their project, or design and present their accomplishments to their peers.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Admission to the Aviation Technology - Maintenance Management - BS program

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- AV4610 - Aviation Maintenance Senior Project I (CI)

Course Learning Objectives

Course Learning Outcomes

1. Design, plan, and execute a senior capstone project in an aviation-related subject, demonstrating independent application of technical knowledge and problem-solving skills.
2. Develop professional written and oral communication skills through technical reports, reflective papers, presentations, and optional peer or faculty discussion.
3. Apply time management, project management, and self-directed learning skills to document progress, meet deadlines, and achieve project goals.
4. Demonstrate practical teaching, mentoring, or leadership skills for students participating in the practicum/TA option, contributing effectively to course instruction and student learning.
5. Integrate technical knowledge with professional practice to produce a project, report, or learning experience that meets aviation industry or academic standards.

AV4660 - Aviation Senior Project (CI) - 3 - Credits

Course Overview

Course Prefix
AV

Course Number
4660

Department
Aviation Technology

Course Title
Aviation Senior Project (CI)

General Education Attribute
CI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students select, create, plan, and execute an approved self-directed capstone senior project related to their aviation journey and degree program. Service learning, teaching, research and additional ratings may be completed. Writing and speaking skills are emphasized through technical reports and presentations.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Aviation Technology majors with 60 credits completed

Course Learning Objectives

Course Learning Outcomes
1. Students understand how to participate in a crew environment in order to prevent aviation accidents and recognize that CRM applies to all members of the aviation community. CRM skills can be applied to safely resolve situations that may not be familiar.
2. Students understand the value and responsibilities of all aviation professionals (including flight crew, cabin crew, management, dispatchers, ATC, maintenance professionals, and others) as they relate to students' targeted fields. They synergize with their fellow professionals in order to help ensure the safe completion of every flight.
3. Students have effective leadership skills that maintain a balance between asserting authority and encouraging participation. They are sensitive to others' personalities and management styles and are able to maintain a professional dynamic. They have the necessary skills for conflict resolution in both technical and human factors areas.

AV4710 - Crew Resource Management (CI) - 3 - Credits

Course Overview

Course Prefix
AV

Course Number
4710

Department
Aviation Technology

Course Title
Crew Resource Management (CI)

General Education Attribute
CI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course trains students to help ensure safe flight completion. Students learn the importance of safety management, available knowledge, and aviation industry compliance. The course emphasizes the utilization of manuals, directives, and other aviation professionals' input to enhance aviation safety.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Aviation Technology majors with 40 earned credits

Course Learning Objectives

Course Learning Outcomes
1. Gain knowledge of required ethics, the importance of leadership, and organizational safety culture in aviation.
2. Develop an understanding of the economic impacts of aviation safety. Increase the awareness of the individual’s responsibility to safety, through risk management and prevention, as well as health and wellness.
3. Realize the significance of proactive approaches to safety in flight and ground operations and safety management systems.

AV4720 - Aviation Safety and Security (CI) - 3 - Credits

Course Overview

Course Prefix
AV

Course Number
4720

Department
Aviation Technology

Course Title
Aviation Safety and Security (CI)

General Education Attribute
CI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers a brief history of aviation safety, and the development since the 1970s of today's safety culture. Students will gain an understanding of the importance of safety systems, safety training, and security surrounding the aviation environment. Topics will include flight and ground safety, safety management systems, government regulatory organizations, and an introduction to accident investigation. An overview of security will cover airline and airport security, operator considerations and general aviation security.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Aviation Technology majors with 40 credits completed

No Requirements

Course Learning Objectives

Course Learning Outcomes
1. Participate in aviation-related events and site visits to gain exposure to industry operations, historical context, and professional practices.
2. Plan, organize, and conduct seminars, workshops, or competitions for high school or college audiences, demonstrating leadership and event management skills.
3. Apply professional communication and teamwork skills in both planning and participating in aviation events and activities.

4. Analyze and reflect on professional experiences to broaden understanding of aviation careers, industry standards, and operational practices.
5. Integrate experiential learning into career preparation, connecting observations and participation to future professional goals in aviation.

AV4750 - Aviation Symposium - 1 - 3 Credits

Course Overview

Course Prefix
AV

Course Number
4750

Department
Aviation Technology

Course Title
Aviation Symposium

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Students gain professional aviation experience through events, airshows, site visits, and organized activities. With faculty approval, they may plan seminars or competitions, broadening practical skills and preparation for future aviation careers.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

Registration Restrictions

Students must have completed 30 Aviation Major Credits

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Demonstrate proficiency in all multi-engine flight maneuvers and operations to the standards specified in the FAA Multi-Engine Instructor Airman Certification Standards (ACS).
2. Teach, demonstrate, and evaluate multi-engine flight skills effectively to student pilots, including both left- and right-seat instructional techniques.
3. Apply the Fundamentals of Instruction (FOI) in the multi-engine flight environment to enhance student learning, performance, and decision-making.
4. Conduct preflight, in-flight, and postflight briefings that communicate lesson objectives, performance standards, and safety considerations.
5. Integrate risk management, aeronautical decision-making (ADM), and single-pilot and multi-crew resource management (SRM/CRM) into all instructional activities.
6. Prepare students for the FAA MEI practical test, assessing readiness and providing targeted instruction to meet ACS performance standards.

AV4810 - Air Traffic Control Knowledge Evaluation - 1 - Credits

Course Overview

Course Prefix
AV

Course Number
4810

Department
Aviation Technology

Course Title
Air Traffic Control Knowledge Evaluation

Grade Mode
Pass/Fail

Repeat Status
NR

Course Description
This course provides a brief review and a comprehensive cognitive assessment of core Air Traffic Control (ATC) principles taught in the minor, including basic air traffic control fundamentals, federal aviation regulation requirements, weather concepts, and National Airspace System knowledge.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- AV1710 - Air Traffic Control Fundamentals
- AV2710 - Basic Control Tower Operations
- AV2040 - Aviation Weather
- AV3010 - National Airspace, Air Traffic Control, and Airport Administration

Course Learning Objectives

Course Learning Outcomes

o **Recognize** foundational air traffic control principles.

o **Interpret** aviation weather products and fundamental weather concepts used in ATC.

o **Demonstrate** comprehensive cognitive understanding of ATC minor subject matter through a multiple-choice FAA-aligned assessment.

AV4880 - Multiple Engine Instructor Certification - 1 - Credits

Course Overview

Course Prefix
AV

Course Number
4880

Department
Aviation Technology

Course Title
Multiple Engine Instructor Certification

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course is designed to provide the student training required under Title 14 of the Code of Federal Regulations, Part 61 to qualify the student for the Multi-engine Instructor rating (MEI certificate).

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- AV3880 - Commercial Multi-Engine Add-On

Course Learning Objectives

Course Learning Outcomes

1. Demonstrate proficiency in all multi-engine flight maneuvers and operations to the standards specified in the FAA Multi-Engine Instructor Airman Certification Standards (ACS).

2. Teach, demonstrate, and evaluate multi-engine flight skills effectively to student pilots, including both left- and right-seat instructional techniques.
3. Apply the Fundamentals of Instruction (FOI) in the multi-engine flight environment to enhance student learning, performance, and decision-making.
4. Conduct preflight, in-flight, and postflight briefings that communicate lesson objectives, performance standards, and safety considerations.
5. Integrate risk management, aeronautical decision-making (ADM), and single-pilot and multi-crew resource management (SRM/CRM) into all instructional activities.
6. Prepare students for the FAA MEI practical test, assessing readiness and providing targeted instruction to meet ACS performance standards.

AV4930 - Aircraft Welding - 1 - 4 Credits

Course Overview

Course Prefix
AV

Course Number
4930

Department
Aviation Technology

Course Title
Aircraft Welding

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course is designed as a specialized welding course in aircraft welding techniques used on 4130 chrome-molly and stainless steels as well as aluminum welding for aircraft structures.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
4

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
4

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
4

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
4

Lecture Hours Operator:
TO

Special Approval

Instructor permission

No Requirements

AV5150 - Fundamentals of Airport Management - 3 - Credits

Course Overview

Course Prefix
AV

Course Number
5150

Department
Aviation Technology

Course Title
Fundamentals of Airport Management

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides fundamentals on the history of airports, government legislation, and airport business. It includes how planning, construction, and management relate to real-world issues facing airports today, including safety and security. Students engage in an active learning simulated game component.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Course Learning Objectives

Course Learning Outcomes

1. Understand historical aviation through the lens of underrepresented populations events through reading, videos and learning from their classmates.
2. Know the significant contributors of underrepresented populations to aviation advancement.
3. Discover the barriers experienced by underrepresented populations in the aviation field.
   Understand continued barriers experienced by underrepresented populations and propose ways to break those barriers.
4. Evaluate trends and patterns of social change and seek methods to improve the diversity gap.

AV5210 - Fundamentals of Aviation Science - 3 - Credits

Course Overview

Course Prefix
AV

Course Number
5210

Department
Aviation Technology

Dual-Listed Courses
AV6210 - Fundamentals of Aviation Science

Course Title
Fundamentals of Aviation Science

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course deepens aviation professionals' understanding of the science and technologies supporting the aviation industry. Concentration topics include: ratings and certifications, national airspace, aviation law, aviation weather, aviation history and flight principles. Designed for both aviation educators and aviation professionals. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Course Learning Objectives

Course Learning Outcomes

1. Explain the operational requirements and business functions of a Fixed-Based Operator (FBO) at a general aviation airport.
2. Apply safety, risk management, and FAA regulatory standards in the management of FBO operations.
3. Develop marketing, sales, and customer service strategies to enhance client satisfaction and profitability.
4. Manage human resources and staff effectively to support operational efficiency and organizational goals.

5. Analyze financial and operational decisions to optimize FBO performance and sustainability within the general aviation environment. , academic inquiry, and scientific analysis.

AV5220 - Fixed Based Operator Management for General Aviation Airports - 3 - Credits

Course Overview

Course Prefix
AV

Course Number
5220

Department
Aviation Technology

Dual-Listed Courses
AV6220 - Fixed Based Operator Management for General Aviation Airports

Course Title
Fixed Based Operator Management for General Aviation Airports

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students learn how to operate, market and manage a business as a Fixed-Based Operator for a general aviation airport. Topics also include safety, risk management, FAA requirements, marketing, sales, and human resources to enhance customer service and profitability. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Course Learning Objectives

Course Learning Outcomes

1. Demonstrate comprehensive knowledge of airport operations, including airside, landside, terminal, and administrative functions.
2. Apply airport management principles to effectively plan, organize, and oversee airport operations in compliance with industry standards.
3. Analyze airport policies, procedures, and regulations to support operational efficiency, safety, and regulatory compliance.
4. Prepare for professional certification as a Certified Member (CM) by integrating knowledge of airport administration, finance, safety, planning, and management practices.

5. Develop critical thinking and problem-solving skills applicable to airport management decision-making and professional practice.

AV5240 - Certified Member: Airport Manager Certification Preparation - 3 - Credits

Course Overview

Course Prefix	Course Number	Department
AV	5240	Aviation Technology

Dual-Listed Courses

AV6240 - Certified Member: Airport Manager Certification Preparation

Course Title

Certified Member: Airport Manager Certification Preparation

Grade Mode	Repeat Status
Standard Letter	NR

Course Description

This course prepares students to achieve the Certified Member designation with the diverse knowledge of the primary functions of how an airport operates. The CM prepares students when seeking employment within the airport management profession. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

AV5260 - Breaking Barriers in Aviation: Historically Underrepresented Populations in Aviation - 3 - Credits

Course Overview

Course Prefix	Course Number	Department
AV	5260	Aviation Technology

Dual-Listed Courses

AV6260 - Breaking Barriers in Aviation: Historically Underrepresented Populations in Aviation

Course Title

Breaking Barriers in Aviation: Historically Underrepresented Populations in Aviation

Grade Mode	Repeat Status
Standard Letter	NR

Course Description

This course explores aviation's origins to current underrepresented populations seeking careers in the aviation industry, historically gender and race imbalanced, breaking barriers in becoming pilots, flight attendants, aviation maintenance technicians, air traffic controllers, engineers, astronauts, and unmanned aerial systems operators. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Course Learning Objectives

Course Learning Outcomes

1. Demonstrate knowledge of high-altitude, multi-engine aircraft systems, including de-icing, oxygen, and environmental systems.
2. Plan and conduct high-altitude flights safely, integrating considerations such as oxygen requirements, aircraft performance, and weather conditions.

3. Identify and mitigate risks associated with icing and high-altitude operations, applying appropriate de-icing procedures and operational strategies.
4. Understand multi-engine aircraft performance characteristics during normal and emergency operations.
5. Obtain the knowledge and practical skills necessary to receive high-altitude endorsements, meeting FAA standards.

AV5300 - Advanced Twin Systems - 3 - Credits

Course Overview

Course Prefix
AV

Course Number
5300

Department
Aviation Technology

Course Title
Advanced Twin Systems

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students receive instruction on high-altitude multi-engine aircraft, including ground and flight instruction, high-altitude flying considerations and flight planning, oxygen systems and usage, icing conditions and de-icing systems, and multi-engine aircraft characteristics. Students may receive their high-altitude endorsements upon completion of requirements.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Special Approval
Instructor permission

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- AV3880 - Commercial Multi-Engine Add-On

Additional Comments:
may be taken concurrently

Course Learning Objectives

Course Learning Outcomes

1. Demonstrate knowledge of Boeing 737-800 systems, operational limits, and standard procedures.
2. Apply airline operations principles and decision-making skills for entry-level Part 121 operations.
3. Utilize flight simulation and computer-based training tools to reinforce procedural and systems proficiency.
4. Develop professional skills including Crew Resource Management (CRM), Aeronautical Decision Making (ADM), and Threat & Error Management (TEM).

AV5400 - Boeing 737 NG Systems and Procedures - 4 - Credits

Course Overview

Course Prefix
AV

Course Number
5400

Department
Aviation Technology

Course Title
Boeing 737 NG Systems and Procedures

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Introduction to the most popular commercial air liner in history. Topics include aircraft systems/operations, operations limitations, standard operating procedures, introduction to standard maneuvers with flight planning, and aircraft performance.

Credit Hours

Credit Hours
Min:
4

Contact Hours

Contact Hours
Min:
4

Billing Hours

Billing Hours
Min:
4

Lecture Hours

Lecture Hours
Min:
4

Registration Restrictions

Admission to the Aviation Technology - Professional Pilot: Fixed Wing Emphasis - BS

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- AV3410 - Commercial Single Engine Certification - Commercial Stage 3

Course Learning Objectives

Course Learning Outcomes

1. Demonstrate proficiency in all phases of flight in the Boeing 737-800 NG using an AATD Level 6 flight simulator.
2. Perform standard industry maneuvers and procedures in a simulated airline operational environment.
3. Apply Line-Oriented Flight Training (LOFT) principles to replicate real-world airline operations and decision-making scenarios.
4. Integrate operational knowledge, situational awareness, and crew coordination to execute safe and efficient flight operations in the simulator.

AV5410 - Regional Jet Ground School - 4 - Credits

Course Overview

Course Prefix
AV

Course Number
5410

Department
Aviation Technology

Course Title
Regional Jet Ground School

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Introduction to the CRJ-700 regional jet, one of the most widely used commercial airliners in service. This ground school covers aircraft systems and operations, operational limitations, standard operating procedures, an introduction to standard maneuvers with flight planning, and aircraft performance.

Credit Hours

Credit Hours
Min:
4

Contact Hours

Contact Hours
Min:
4

Billing Hours

Billing Hours
Min:
4

Lecture Hours

Lecture Hours
Min:
4

Registration Restrictions
Admission to the Aviation Technology - Professional Pilot: Fixed Wing Emphasis - BS

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- AV3410 - Commercial Single Engine Certification - Commercial Stage 3

AV5420 - Boeing 737 NG Advanced Flight Maneuvers - 3 - Credits

Course Overview

Course Prefix
AV

Course Number
5420

Department
Aviation Technology

Course Title
Boeing 737 NG Advanced Flight Maneuvers

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Orientation to proficiency in a Boeing 737-800 NG AATD Level 6 Flight Simulator. Rigorous flight training in the B737 in all eight phases of flight including standard industry maneuvers and Line Oriented Flight Training (LOFT).

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Admission to the Aviation Technology - Professional Pilot: Fixed Wing Emphasis - BS

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Earn a minimum grade of B or higher in the following:

- AV5400 - Boeing 737 NG Systems and Procedures

Course Learning Objectives

Course Learning Outcomes

1. Understand the FAA ATP Knowledge Test.
2. Operational understanding of FAR Part 121 Regulation, Flight Operations, OPS Specs and SOP's
3. Be prepared for employment in flight operations at a Part 121 Air Carrier.
   Know how to read and fly Jeppesen Charts.

AV5500 - Airline Transport Pilot (ATP) Standards (QI) - 4 - Credits

Course Overview

Course Prefix
AV

Course Number
5500

Department
Aviation Technology

Course Title
Airline Transport Pilot (ATP) Standards (QI)

General Education Attribute
QI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Rigorous introduction to professional airline pilot duties to include jet aircraft training fundamentals and rigors of ATP/CTP training with in-depth mathematical understanding required to operate a modern jet airliner. All elements of the profession will be presented and discussed.

Credit Hours

Credit Hours
Min:
4

Contact Hours

Contact Hours
Min:
4

Billing Hours

Billing Hours
Min:
4

Lecture Hours

Lecture Hours
Min:
4

Registration Restrictions
Admission to the Aviation Technology - Professional Pilot: Fixed Wing Emphasis - BS

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- AV3410 - Commercial Single Engine Certification - Commercial Stage 3

Course Learning Objectives

Course Learning Outcomes

1. Analyze current or emerging aviation topics and understand their relevance to the industry.
2. Apply critical thinking and problem-solving skills to explore unique or timely aviation issues.
3. Communicate insights effectively through written, oral, or multimedia presentations.
4. Adapt and integrate knowledge across aviation disciplines to evaluate specialized topics.
5. Demonstrate professional and academic engagement with evolving issues in the aviation industry.

AV5700 - Aircraft Dispatcher Written Exam Preparation - 3 - Credits

Course Overview

Course Prefix
AV

Course Number
5700

Department
Aviation Technology

Course Title
Aircraft Dispatcher Written Exam Preparation

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers dispatch resource management, aircraft systems, weight and balance, and performance for certification. The FAA computerized ADX exam must be passed in this fall-only course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Other Enrollment Recommendations

To be eligible for the aircraft dispatcher course, a person must be 21 years of age by Dec. 15th of the fall semester they are enrolled in the course.

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ANY of the following Courses:

- AV2330 - Private Pilot Ground School
  AND AV2520 - Instrument Pilot Ground School
- AV2320 - Intro to Private Pilot Requirements
  AND AV2510 - IFR and Commercial Regulations and Procedures

Course Learning Objectives

Course Learning Outcomes

1. Flight Maneuvers: Perform fundamental flight maneuvers, such as climbs, descents, turns, stalls and slow flight. Demonstrate proficiency in performance maneuvers, ground reference maneuvers, and takeoff and landing techniques.
2. Regulatory Knowledge: Understand and comply with aviation regulations, including airspace rules and air traffic procedures.
3. Flight Planning: Plan and execute flights, considering fuel requirements, weight and balance, and other relevant factors.

AV5710 - Aircraft Dispatcher Practical Exam Preparation - 3 - Credits

Course Overview

Course Prefix
AV

Course Number
5710

Department
Aviation Technology

Course Title
Aircraft Dispatcher Practical Exam Preparation

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This is the second of two classes providing students with the knowledge required for certification as an aircraft dispatcher. Explores factors necessary to prepare a flight plan such as weather analysis, enroute charts, dispatch release, and emergency/abnormal procedures.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Other Enrollment Recommendations
To qualify for the dispatcher certification an applicant must be at least 23 years old. Written and knowledge tests can be taken at 21 years of age but students will be unable to receive their dispatch certificate or work as a dispatcher until they turn 23. If students are not 23 years of age when they pass the exams, they will receive a Letter of Aeronautical Competency until they turn 23 years of age.

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- AV2320 - Intro to Private Pilot Requirements
- AV2510 - IFR and Commercial Regulations and Procedures
- AV5700 - Aircraft Dispatcher Written Exam Preparation

***AV5700 AIRCRAFT DISPATCH WRITTEN EXAM* requires a minimum grade of C**

Course Learning Objectives

Course Learning Outcomes

1. Demonstrate advanced flight skills and proficiency necessary to compete in National Intercollegiate Flying Association (NIFA) events, including both flying and ground-based competitions.
2. Apply aeronautical knowledge in high-pressure, competitive scenarios, integrating decision-making, problem-solving, and safety practices.
3. Lead and collaborate effectively within a team environment, fulfilling officer responsibilities and supporting team objectives.
4. Plan, organize, and execute fundraising and logistical activities to support team operations and competition participation.
5. Evaluate team performance and personal progress, using feedback and competition results to improve skills, strategies, and leadership effectiveness.
6. Exhibit professionalism, time management, and ethical behavior consistent with both aviation industry standards and collegiate competition expectations.

AV5910 - Aviation Special Topics - 1 - 4 Credits

Course Overview

Course Prefix
AV

Course Number
5910

Department
Aviation Technology

Course Title
Aviation Special Topics

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course allows special aviation topics that may be current events, special subjects, and other timely topics that do not fall under any other aviation courses. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
4

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
4

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
4

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
4

Lecture Hours Operator:
TO

Course Learning Objectives

Course Learning Outcomes

1. Design and execute a self-directed learning or research project in an aviation-related area of interest.
2. Apply independent research, analysis, and problem-solving skills to explore complex or specialized topics.
3. Demonstrate professional documentation and reporting skills through written reports, presentations, or project deliverables.
4. Engage in critical reflection on the learning process, outcomes, and implications of the project.
5. Collaborate effectively with faculty mentors when guidance or supervision is required.

AV5930 - Aviation Independent Research - 3 - Credits

Course Overview

Course Prefix
AV

Course Number
5930

Department
Aviation Technology

Dual-Listed Courses
AV6930 - Aviation Independent Research

Course Title
Aviation Independent Research

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course enables exploration of a topic of interest as a self-directed course which may include directed readings, applied work, assisting a faculty member with a research project, carrying out an independent research project, or other research activities deemed appropriate. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Course Learning Objectives

Course Learning Outcomes

1. Explain the structure and operations of the commercial air transportation system, including historical development and current industry trends.
2. Analyze airline management principles, including marketing, pricing, scheduling, and fleet planning.
3. Evaluate operational considerations for pilots, maintenance personnel, dispatchers, and airline managers within the context of airline operations.
4. Apply critical thinking to airline business challenges, integrating knowledge of operational, regulatory, and management practices.
5. Demonstrate an understanding of the interrelationships between airline management, operations, and safety in a commercial aviation environment.

AV6110 - Air Transportation - 3 - Credits

Course Overview

Course Prefix
AV

Course Number
6110

Department
Aviation Technology

Course Title
Air Transportation

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This online course will give students a broad perspective of the Air Transportation system. Students will gain an understanding of the marketing, pricing, scheduling, fleet planning and a historical perspective of commercial aviation including current trends. Maintenance managers, technicians, operations managers, dispatchers, and pilots will understand and appreciate the scope and complexity of managing an airline. Management and operational principles specific to the airline industry will be introduced as they interrelate to the peculiarities of this unique business environment.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Explain the key components of business and corporate aviation operations, including management, maintenance, safety, and regulatory considerations.
2. Develop and evaluate business strategies for starting and operating an aviation company.
3. Apply management principles to personnel, resource allocation, and aircraft acquisition within a corporate aviation context.
4. Collaborate in team-based projects to simulate the creation and operation of an aviation business.
5. Integrate operational, financial, and safety considerations to make informed decisions for a business aviation enterprise.

AV6120 - Aviation Operations and Management - 3 - Credits

Course Overview

Course Prefix
AV

Course Number
6120

Department
Aviation Technology

Course Title
Aviation Operations and Management

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces the student to business and corporate aviation management. Students will discover the many aspects of running a business in aviation, from determining the needs of the industry, getting started in determining business strategy, hiring personnel and purchasing aircraft. Topics will include operations, maintenance, safety, and how to put it all together in a company students will create as a class, by taking on the various required roles.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Identify and describe emerging technologies in aviation, including UAS, advanced air mobility, eVTOL, unmanned traffic management, and commercial space operations.
2. Analyze the potential impacts of these technologies on the aviation industry, safety, operations, and regulatory frameworks.
3. Evaluate current research and developments to understand technological trends and future applications.
4. Communicate findings effectively through written reports, presentations, or discussions on emerging aviation innovations.
5. Integrate knowledge of emerging technologies into broader aviation systems, business, and operational contexts.

AV6130 - Emerging Technologies in Aviation - 3 - Credits

Course Overview

Course Prefix
AV

Course Number
6130

Department
Aviation Technology

Course Title
Emerging Technologies in Aviation

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students discover and research emerging technologies in aviation. Topics may include: unmanned aircraft systems, advanced air mobility, unmanned traffic management, eVTOL, and commercial space which have the potential to provide enormous impact to the future of aviation.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Describe the historical development of aviation safety, from the early days of flight to modern practices.
2. Analyze how technological advancements have influenced aviation safety standards and practices over time.
3. Explain the evolution of safety regulations, procedures, and industry standards in aviation.
4. Evaluate the impact of historical events and innovations on the current safety culture in aviation.
5. Communicate insights on aviation safety history through discussions, reports, or presentations.

AV6140 - Aviation Safety: History and Research - 3 - Credits

Course Overview

Course Prefix
AV

Course Number
6140

Department
Aviation Technology

Course Title
Aviation Safety: History and Research

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course reviews the history of aviation safety from the early days of powered flight till the modern day. Students will understand the development of aviation safety, changes as technology improved, and how standards have been developed in aviation safety.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Explain the structure and functions of airport operations, including airside, landside, and terminal management activities.
2. Describe the roles and responsibilities of airport personnel and how these roles contribute to safe, efficient, and effective airport operations.
3. Apply basic airport management principles to evaluate operational decisions, planning, and problem-solving in a real-world context.
4. Analyze airport processes and procedures to understand how airports maintain airline schedules, passenger flow, and regulatory compliance.

5. Demonstrate foundational knowledge of airport-related industries and the impact of airport operations on regional and national transportation systems.

AV6150 - Airport Management - 3 - Credits

Course Overview

Course Prefix
AV

Course Number
6150

Department
Aviation Technology

Course Title

Airport Management

Grade Mode
Standard Letter

Repeat Status
NR

Course Description

This course covers the history of airports, government legislation, and airport business. It includes how planning, construction, and management relate to real-world issues facing airports today, including safety and security. Students engage in an active learning simulated game component. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Students will identify human factors and explain different human errors in aviation.
2. Students will learn to apply aviation human factors by teaching others about human performance and methods to minimize errors.
3. Students will analyze and develop human factors questions and answers to learning outcomes, case studies, demonstrations and practical exercises.

AV6160 - Human Factors in Aviation - 3 - Credits

Course Overview

Course Prefix
AV

Course Number
6160

Department
Aviation Technology

Course Title

Human Factors in Aviation

Grade Mode
Standard Letter

Repeat Status
NR

Course Description

Students gain understanding of the high percentage of aviation accidents resulting from human factors and identify causes of human error, predicting human performance and methods to prevent or minimize their effects. The course emphasizes participation, case studies, demonstrations, and practical exercises.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Students will identify human factors and explain different human errors in aviation.
2. Students will learn to apply aviation human factors by teaching others about human performance and methods to minimize errors.
3. Students will analyze and develop human factors questions and answers to learning outcomes, case studies, demonstrations and practical exercises.

AV6210 - Fundamentals of Aviation Science - 3 - Credits

Course Overview

Course Prefix
AV

Course Number
6210

Department
Aviation Technology

Dual-Listed Courses
AV5210 - Fundamentals of Aviation Science

Course Title
Fundamentals of Aviation Science

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course deepens aviation professionals' understanding of the science and technologies supporting the aviation industry. Concentration topics include: ratings and certifications, national airspace, aviation law, aviation weather, aviation history and flight principles. Designed for both aviation educators and aviation professionals. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Course Learning Objectives

Course Learning Outcomes

1. Explain the operational requirements and business functions of a Fixed-Based Operator (FBO) at a general aviation airport.
2. Apply safety, risk management, and FAA regulatory standards in the management of FBO operations.
3. Develop marketing, sales, and customer service strategies to enhance client satisfaction and profitability.
4. Manage human resources and staff effectively to support operational efficiency and organizational goals.
5. Analyze financial and operational decisions to optimize FBO performance and sustainability within the general aviation environment.

AV6220 - Fixed Based Operator Management for General Aviation Airports - 3 - Credits

Course Overview

Course Prefix
AV

Course Number
6220

Department
Aviation Technology

Dual-Listed Courses
AV5220 - Fixed Based Operator Management for General Aviation Airports

Course Title
Fixed Based Operator Management for General Aviation Airports

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students learn how to operate, market and manage a business as a Fixed-Based Operator for a general aviation airport. Topics also include safety, risk management, FAA requirements, marketing, sales, and human resources to enhance customer service and profitability. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Course Learning Objectives

Course Learning Outcomes

1. Explain the principles of aerospace automation and their application to modern glass cockpit aircraft.
2. Analyze the benefits and limitations of automated systems in aviation operations.
3. Apply automation principles to enhance flight safety, efficiency, and decision-making.
4. Evaluate how emerging technologies influence pilot performance and operational outcomes.
5. Communicate technical knowledge effectively regarding aerospace automation systems and applications.

AV6230 - Aerospace Technology and Automation - 3 - Credits

Course Overview

Course Prefix
AV

Course Number
6230

Department
Aviation Technology

Course Title
Aerospace Technology and Automation

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
The modern age has created many advancements that enhance but also detract from performance. This course explores nine automation principles that can be used for operating glass cockpit aircraft, and apply to technology in general in aviation.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Demonstrate comprehensive knowledge of airport operations, including airside, landside, terminal, and administrative functions.
2. Apply airport management principles to effectively plan, organize, and oversee airport operations in compliance with industry standards.
3. Analyze airport policies, procedures, and regulations to support operational efficiency, safety, and regulatory compliance.
4. Prepare for professional certification as a Certified Member (CM) by integrating knowledge of airport administration, finance, safety, planning, and management practices.
5. Develop critical thinking and problem-solving skills applicable to airport management decision-making and professional practice.

AV6240 - Certified Member: Airport Manager Certification Preparation - 3 - Credits

Course Overview

Course Prefix
AV

Course Number
6240

Department
Aviation Technology

Dual-Listed Courses
AV5240 - Certified Member: Airport Manager Certification Preparation

Course Title
Certified Member: Airport Manager Certification Preparation

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course prepares students to achieve the Certified Member designation with the diverse knowledge of the primary functions of how an airport operates. The CM prepares students when seeking employment within the airport management profession. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Course Learning Objectives

Course Learning Outcomes

1. Analyze the historical development of the aviation industry with a focus on the challenges and contributions of underrepresented populations.
2. Identify barriers to entry and advancement in aviation careers related to gender, race, and other historically marginalized groups.
3. Evaluate strategies and initiatives that promote diversity, equity, and inclusion within various aviation professions, including piloting, maintenance, air traffic control, engineering, and UAS operations.
4. Communicate insights and reflections on the impact of underrepresented populations in shaping the aviation industry.
5. Apply understanding of historical and current diversity challenges to envision solutions or pathways for equitable participation in aviation careers.

AV6260 - Breaking Barriers in Aviation: Historically Underrepresented Populations in Aviation - 3 - Credits

Course Overview

Course Prefix
AV

Course Number
6260

Department
Aviation Technology

Dual-Listed Courses
AV5260 - Breaking Barriers in Aviation: Historically Underrepresented Populations in Aviation

Course Title
Breaking Barriers in Aviation: Historically Underrepresented Populations in Aviation

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course explores aviation's origins to current underrepresented populations seeking careers in the aviation industry, historically gender and race imbalanced, breaking barriers in becoming pilots, flight attendants, aviation maintenance technicians, air traffic controllers, engineers, astronauts, and unmanned aerial systems operators. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Course Learning Objectives

Course Learning Outcomes
1. Explain the foundations and evolution of aviation Safety Management Systems (SMS) and their role in modern aviation.
2. Analyze hazards, risks, and controls using established safety tools, methods, and taxonomies.
3. Design and implement a safety program for a Part 141 flight school or similar aviation operation.
4. Apply quality management and safety principles to enhance operational safety and compliance.
5. Communicate safety concepts and program designs effectively through reports, presentations, or projects.

AV6270 - Economics of Air Transportation - 3 - Credits

Course Overview

Course Prefix
AV

Course Number
6270

Department
Aviation Technology

Course Title
Economics of Air Transportation

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers the know-how of the key economic concepts and how they apply to aviation, including how economic scarcity influences airline decision-making and give an up-to-date overview on major aviation trends, economic developments and the industry outlook.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Course Learning Objectives

Course Learning Outcomes
https://qanr.usu.edu/avte/assessment

AV6310 - Aviation Safety Management Systems - 3 - Credits

Course Overview

Course Prefix
AV

Course Number
6310

Department
Aviation Technology

Course Title
Aviation Safety Management Systems

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers the foundation of a good safety program: the Safety Management Systems (SMS). The course begins with the history and evolution of safety, the principles of quality management, and then delves into the rigors of safety analysis. Topics will include hazards, risks, controls, and the tools and methods of analysis. Students will create a program for a Part 141 Flight School, and utilize taxonomies in our modern aviation system.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Explain the key components of airport and ground safety programs, including hazardous materials, emergency planning, and ramp operations.
2. Analyze the impact of environmental factors such as weather on ground operations and safety procedures.
3. Apply best practices for fuel handling, cargo operations, and ground structure protection.
4. Collect, manage, and interpret safety data to inform operational decisions and improve safety outcomes.
5. Communicate safety strategies effectively through reports, presentations, or operational plans.

AV6320 - Airport and Ground Safety Programs - 3 - Credits

Course Overview

Course Prefix
AV

Course Number
6320

Department
Aviation Technology

Course Title
Airport and Ground Safety Programs

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course gives aviation students a broad understanding of the ground safety program. Students will become familiar with hazardous material management, emergency planning, ground handling procedures and ground structure protection. Other topics will include the impact of weather on ground operations, ramp and cargo operations, fuel safety and how to collect, manage and analyze safety data.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Explain the foundational principles of a flight safety program and its role in aviation operations.
2. Analyze how training, education, awards, and motivation contribute to an effective safety culture.
3. Apply risk management techniques to organize, manage, and enhance aviation safety programs.
4. Design or evaluate components of a flight safety program to improve operational safety and compliance.
5. Communicate safety program plans and strategies effectively through written reports or presentations.

AV6330 - Flight Safety Program Management - 3 - Credits

Course Overview

Course Prefix
AV

Course Number
6330

Department
Aviation Technology

Course Title
Flight Safety Program Management

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course gives aviation students a deeper understanding of a flight safety program. Students will become familiar with the basics of an aviation safety program, how training, education, awards programs, motivation, and risk management come into play for organizing, managing and developing an aviation safety program.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Explain the history and principles of aviation accident investigation and its role in promoting safety.
2. Describe the standard techniques and methods used by professional accident investigators to determine causes of aviation accidents.
3. Analyze accident scenarios to identify contributing factors and lessons learned.
4. Apply investigative principles to evaluate aviation safety processes and procedures.
5. Communicate findings effectively through written reports, presentations, or case analyses.

AV6340 - Aircraft Accident Investigation and Analysis - 3 - Credits

Course Overview

Course Prefix
AV

Course Number
6340

Department
Aviation Technology

Course Title
Aircraft Accident Investigation and Analysis

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides an overview of aviation accident investigation, emphasizing safety lessons and investigative techniques. Using authentic investigation materials, students learn how professionals determine how and why aviation accidents occur.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Explain the principles and evolution of aviation security in the post-9/11 environment.
2. Analyze threats and vulnerabilities within airport operations, including passenger screening, baggage handling, and perimeter security.
3. Apply security procedures and best practices to enhance safety and operational integrity.
4. Evaluate the effectiveness of aviation security measures and propose improvements.
5. Communicate security strategies and analyses effectively through reports, presentations, or case studies.

AV6350 - Aviation Security - 3 - Credits

Course Overview

Course Prefix
AV

Course Number
6350

Department
Aviation Technology

Course Title
Aviation Security

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces the student to the post 9-11 environment in aviation security. Students need to understand the importance of threat analysis, from the perimeter fence, to screening passengers and baggage, and to the overall infrastructure of airports. Students will gain an appreciation of the behind-the-scenes efforts that go unnoticed by the many passengers flying every day.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Explain the history and evolution of unmanned aerospace systems (UAS) and their role in aviation.
2. Analyze technological advancements that have shaped the capabilities and applications of UAS.
3. Evaluate the impact of UAS on society, industry, and aviation operations.
4. Apply knowledge of UAS principles to emerging operational, regulatory, and technological contexts.
5. Communicate insights on UAS developments effectively through reports, presentations, or discussions.

AV6600 - Unmanned Aerospace Systems - 3 - Credits

Course Overview

Course Prefix
AV

Course Number
6600

Department
Aviation Technology

Course Title
Unmanned Aerospace Systems

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course reviews the history, breadth and overview of unmanned aerospace systems. Students gain understanding in the development of UAS, changes as technology improved, and how industry is rapidly changing with the advancement of UAS into everyday society.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Understand the regulatory requirements and responsibilities for FAA Remote Pilot certification.
2. Demonstrate proficiency in UAS operations consistent with FAA standards.
3. Complete all required documentation and assessments to achieve Remote Pilot certification.
4. Reflect on and communicate learning outcomes from the training experience.

AV6605 - FAA Remote Pilot Certification - 1 - Credits

Course Overview

Course Prefix
AV

Course Number
6605

Department
Aviation Technology

Course Title
FAA Remote Pilot Certification

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course ensures students have the proper FAA certification for Remote Pilot. As a challenge course, students complete the course by submitting required documentation, taking an online exam and writing a reflection on their training experience.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Explain key human factors principles and their relevance to UAS operations.
2. Apply Crew Resource Management (CRM) techniques to enhance safety and efficiency in UAS operations.
3. Demonstrate effective aeronautical decision-making (ADM) in complex UAS scenarios.
4. Analyze operational challenges in UAS missions and propose human-factor-informed solutions.
5. Communicate safety strategies and decision-making processes effectively through reports, presentations, or simulations.

AV6610 - Human Factors, Crew Resource Management and Aeronautical Decision Making for UAS - 3 - Credits

Course Overview

Course Prefix
AV

Course Number
6610

Department
Aviation Technology

Course Title
Human Factors, Crew Resource Management and Aeronautical Decision Making for UAS

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course reviews the concepts of human factors in Unmanned Aircraft Systems (UAS). Students review crew resource management and aeronautical decision making as they relate to the complex operation and management of UAS.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Explain the principles of safety systems in small Unmanned Aircraft Systems (sUAS).
2. Apply risk management strategies, checklists, and operational evaluations to UAS operations.
3. Analyze environmental and organizational factors affecting UAS safety using case studies.
4. Develop and evaluate processes to improve safety and compliance in sUAS operations.
5. Communicate findings and safety recommendations effectively through reports, presentations, or case analyses.

AV6620 - Small Unmanned Aircraft Systems Safety Systems - 3 - Credits

Course Overview

Course Prefix
AV

Course Number
6620

Department
Aviation Technology

Course Title
Small Unmanned Aircraft Systems Safety Systems

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course reviews concepts of safety systems in Unmanned Aircraft Systems. Students review risk management, checklists, and evaluations of environment and organizational safety in UAS. Students discover the role of process and evaluation with the use of case studies.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Explain key principles of education and curriculum design for Unmanned Aircraft Systems (UAS).
2. Apply instructional methodologies to develop effective UAS learning experiences.
3. Integrate hands-on learning applications to reinforce UAS concepts and skills.
4. Analyze and evaluate UAS training programs using case studies and industry examples.
5. Communicate educational strategies effectively through lesson plans, presentations, or reports.

AV6630 - UAS Education Methodology and Design - 3 - Credits

Course Overview

Course Prefix
AV

Course Number
6630

Department
Aviation Technology

Course Title
UAS Education Methodology and Design

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course reviews the process of education for Unmanned Aircraft Systems. Students review methodology and design of curriculum for UAS. Students discover the role of hands-on learning applications and evaluation with the use of case studies and industry examples.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Demonstrate safe and effective operation of small Unmanned Aircraft Systems (sUAS) in a variety of applications.
2. Integrate hands-on flight skills into educational or research contexts.
3. Apply sUAS for real-world projects such as aerial photography, data collection, and research initiatives.
4. Design curriculum or instructional activities incorporating sUAS for K–12 and collegiate programs.
5. Communicate operational strategies and applications effectively through reports, presentations, or demonstrations.

AV6640 - sUAS Operation and Application SUAS Operation and Application - 3 - Credits

Course Overview

Course Prefix
AV

Course Number
6640

Department
Aviation Technology

Course Title
sUAS Operation and Application
SUAS Operation and Application

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course prepares students to employ small UAS systems in curriculum, including hands-on applications with flight labs. Students learn how to incorporate real world examples of research, aerial photography and flight skills to K-12 and collegiate-level programs.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Analyze current industry applications of Unmanned Aircraft Systems (UAS) across various sectors.
2. Trace the historical development and impact of UAS within a selected industry.
3. Compare and contrast small and large-scale UAS operations and their applications.
4. Develop a case study report documenting the role and future potential of UAS in industry.
5. Communicate findings and analyses effectively through written reports and presentations.

AV6650 - Industry Applications in Unmanned Aircraft Systems - 3 - Credits

Course Overview

Course Prefix
AV

Course Number
6650

Department
Aviation Technology

Course Title
Industry Applications in Unmanned Aircraft Systems

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course reviews current industry applications for Unmanned Aircraft Systems. Students write a case study of a current industry and trace the history, impact and future of UAS on the industry. Students contrast small and large scale UAS.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Identify and access relevant research sources in aviation and related fields.
2. Evaluate research studies and methodologies for credibility, validity, and applicability.
3. Apply research findings to practical aviation contexts and problem-solving.
4. Conduct independent research using appropriate tools and methods.
5. Communicate research outcomes effectively through written reports and presentations.

AV6760 - Reading and Applying Research - 3 - Credits

Course Overview

Course Prefix
AV

Course Number
6760

Department
Aviation Technology

Course Title
Reading and Applying Research

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students investigate relevant research, evaluate tools for analyzing research, and go through the steps for applying and conducting their own research. Students learn about the nature of research, how to access research, and how to review and evaluate research.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Design and plan a self-directed aviation project or study with clearly defined objectives and outcomes.
2. Apply independent research, analysis, or practical skills to achieve the goals of their study.
3. Demonstrate effective time management and project documentation throughout the study period.
4. Communicate progress and outcomes professionally through reports, presentations, or other agreed-upon deliverables.
5. Reflect on the learning experience and evaluate the effectiveness of their independent work.

AV6900 - Aviation Independent Study - 3 - Credits

Course Overview

Course Prefix
AV

Course Number
6900

Department
Aviation Technology

Course Title
Aviation Independent Study

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course will be an independent study course where an individual student will plan, develop, create and obtain approval for a unique experience. The student and advisor will mutually agree on course objectives, measurement and requirements. Students will then update their advisor regularly as they progress through the course.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Other Enrollment Recommendations
It is encouraged that students complete at least 3 courses in the masters program prior to enrolling in this course.

No Requirements

Course Learning Objectives

Course Learning Outcomes
1. Students will be able to: Create a clear plan and demonstrate appropriate research methodologies to further their program objectives.
2. Define, articulate and use terminology, concepts and theory in their research field.
3. Identify and practice research ethics and responsible conduct of research.
4. Work autonomously in an effective manner, setting and meeting deadlines, and work in collaboration with their mentor to achieve their self-directed goals.
5. Reflect on their own research, identifying lessons learned, strengths and ways to improve their research in support of their program.

AV6910 - Aviation Special Topics - 1 - 4 Credits

Course Overview

Course Prefix
AV

Course Number
6910

Department
Aviation Technology

Course Title
Aviation Special Topics

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course allows for the study of special aviation topics that may be current events, special subjects, and other timely topics that do not fall under any other aviation courses. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
4

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
4

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
4

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
4

Lecture Hours Operator:
TO

Course Learning Objectives

Course Learning Outcomes

1. Students need to complete the FAA Part 107 Certification test.
2. Students will verify completion of the FAA Part 107 Certification test by uploading their score sheet.

AV6930 - Aviation Independent Research - 3 - Credits

Course Overview

Course Prefix
AV

Course Number
6930

Department
Aviation Technology

Dual-Listed Courses
AV5930 - Aviation Independent Research

Course Title
Aviation Independent Research

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course enables exploration of a topic of interest as a self-directed course which may include directed readings, applied work, assisting a faculty member with a research project, carrying out an independent research project, or other research activities deemed appropriate. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

AV6940 - Aviation Internship - 3 - Credits

Course Overview

Course Prefix
AV

Course Number
6940

Department
Aviation Technology

Course Title
Aviation Internship

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Students will gain practical experience through industry internship for academic credit. The student will create specific measurable objectives to guide their intentional learning activity, and reflect on how this experience will impact their program of study and career opportunities.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Special Approval

Instructor Permission

No Requirements

AV6950 - Aviation Creative Project - 3 - Credits

Course Overview

Course Prefix
AV

Course Number
6950

Department
Aviation Technology

Course Title
Aviation Creative Project

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course will enable the students to create a professional presentation, submission for academic publishing, or other creative project related to their aviation program of study in preparation for or subsequent to their Capstone project in coordination with a mentor.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Special Approval

Instructor permission

No Requirements

AV6960 - Aviation Capstone Project - 3 - Credits

Course Overview

Course Prefix
AV

Course Number
6960

Department
Aviation Technology

Course Title
Aviation Capstone Project

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students develop a creative project emphasizing a thoroughly amplified plan of action. The final submission includes the approved proposal, reflection paper, and final submission of the project.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- AV6760 - Reading and Applying Research

may be taken concurrently

BCCM1010 - Building Construction Safety - 1 - Credits

Course Overview

Course Prefix
BCCM

Course Number
1010

Department
Technology, Design & Technical Ed

Course Title
Building Construction Safety

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
A study of OSHA and common safety rules for use of hand tools, power tools, ladders, scaffolds, etc. Also covers concepts of waste disposal and maintaining a clean working environment.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

No Requirements

BCCM1150 - Basic Print Reading - 2 - Credits

Course Overview

Course Prefix
BCCM

Course Number
1150

Department
Technology, Design & Technical Ed

Course Title
Basic Print Reading

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
For anyone who needs to learn how to interpret and understand the drawings used in the construction industry. Prints provide a common set of information for all parties involved in the design and construction of a building. Theory of projection architectural symbols, materials, and construction methods are covered. Information taken from plot plans, foundation plans, floor plans, elevation drawings, details, and specifications will be stressed.

Credit Hours

Credit Hours Min:
2

Contact Hours

Contact Hours Min:
2

Billing Hours

Billing Hours Min:
2

Lecture Hours

Lecture Hours Min:
2

No Requirements

BCCM1250 - Carpentry Concepts - 4 - Credits

Course Overview

Course Prefix
BCCM

Course Number
1250

Department
Technology, Design & Technical Ed

Course Title
Carpentry Concepts

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course describes the uses of various fasteners, proper tools specific to the carpentry trade, how to interpret a set of blueprints and successfully accomplish material take-offs, and demonstrates basic carpentry concepts.

Credit Hours

Credit Hours Min:
4

Contact Hours

Contact Hours Min:
4

Billing Hours

Billing Hours Min:
4

Lecture Hours

Lecture Hours Min:
4

Other Enrollment Recommendations
High school level reading, math, and language comprehension

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Describe building materials used in construction work.
2. Identify hand tools and power tools operations, with care and maintenance.
3. Define techniques for reading and using construction drawings and specifications.
4. Demonstrate procedures for framing and layout of a residential building.
5. Define the concept of the building envelope and its components.

BCCM2010 - Framing I - 2 - Credits

Course Overview

Course Prefix
BCCM

Course Number
2010

Department
Technology, Design & Technical Ed

Course Title
Framing I

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course focuses on hands-on instruction in framing safety, codes, materials and layout methods. These techniques are taught through construction of a full-size project home.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Other Enrollment Recommendations
A signed release form and insurance information is required.

No Requirements

BCCM2015 - Masonry I - 2 - Credits

Course Overview

Course Prefix
BCCM

Course Number
2015

Department
Technology, Design & Technical Ed

Course Title
Masonry I

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces mortar types, mixes, coloring agents, and additives, and when, where, and how to use them; pouring and reinforcing concrete footers, slabs, and flatwork; block and brick wall construction; masonry veneer construction; and brick floors and pavements.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

No Requirements

BCCM2020 - Interior Masonry I - 2 - Credits

Course Overview

Course Prefix
BCCM

Course Number
2020

Department
Technology, Design & Technical Ed

Course Title
Interior Masonry I

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides instruction on interior masonry fundamentals. It provides introduction to mortar types, mixes, coloring agents, additives, and when, where, and how to use them.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- BCCM1010 - Building Construction Safety
- BCCM2010 - Framing I

may be taken concurrently

BCCM2030 - Framing II - 2 - Credits

Course Overview

Course Prefix
BCCM

Course Number
2030

Department
Technology, Design & Technical Ed

Course Title
Framing II

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course focuses on hands-on instruction in erection of floors, walls, stairs and roofs. These techniques are taught through construction of a full-size project home.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Other Enrollment Recommendations

A signed release form and insurance information is required.

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- BCCM2010 - Framing I

may be taken concurrently

BCCM2080 - Concrete I - 2 - Credits

Course Overview

Course Prefix
BCCM

Course Number
2080

Department
Technology, Design & Technical Ed

Course Title
Concrete I

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Instruction covers using a builder's level, establishing grades, setbacks requirements, and squaring a building. Principles and methods of concrete construction including forming, placement, finishing, and testing of concrete footings, walls, and slabs on residential and commercial construction.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Other Enrollment Recommendations

A signed release form and insurance information is required.

No Requirements

BCCM2090 - Concrete II - 2 - Credits

Course Overview

Course Prefix
BCCM

Course Number
2090

Department
Technology, Design & Technical Ed

Course Title
Concrete II

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Principles in forming, placing and finishing of concrete in actual construction settings including footings, walls and slabs.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Other Enrollment Recommendations

A signed release form and insurance information is required.

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- BCCM2080 - Concrete I

may be taken concurrently

BCCM2100 - Interior Finish I - 2 - Credits

Course Overview

Course Prefix
BCCM

Course Number
2100

Department
Technology, Design & Technical Ed

Course Title
Interior Finish I

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course focuses on materials and methods of interior wall and ceiling finish. This will include installing insulation, along with hanging, taping and texturing drywall.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Other Enrollment Recommendations
A signed release form and insurance information is required.

No Requirements

BCCM2110 - Interior Finish II - 2 - Credits

Course Overview

Course Prefix
BCCM

Course Number
2110

Department
Technology, Design & Technical Ed

Course Title
Interior Finish II

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course focuses on materials and methods of interior wall and ceiling finish. This will include installing insulation, along with hanging, taping and texturing drywall.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Other Enrollment Recommendations
A signed release form and insurance information is required.

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- BCCM2100 - Interior Finish I

may be taken concurrently

BCCM2120 - Building Site Layout - 2 - Credits

Course Overview

Course Prefix
BCCM

Course Number
2120

Department
Technology, Design & Technical Ed

Course Title
Building Site Layout

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers site selection, building placement, using a builder's level, establishing grades, setback requirements and squaring a foundation. Students learn about material types for foundations. Types of foundations studied include basements, crawl spaces, and slab on grade.

Credit Hours

Credit Hours Min:
2

Contact Hours

Contact Hours Min:
2

Billing Hours

Billing Hours Min:
2

Lecture Hours

Lecture Hours Min:
2

No Requirements

BCCM2125 - Basic Cabinet Making and Millwork - 3 - Credits

Course Overview

Course Prefix
BCCM

Course Number
2125

Department
Technology, Design & Technical Ed

Course Title
Basic Cabinet Making and Millwork

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students learn advanced setup and operation of cabinetmaking and millwork tools and machines. The course explores construction methods, styles, molding, finishes, and design principles, introducing the modern role of cabinetmaking while guiding students through designing, building, and finishing an individual project.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

BCCM2130 - Finish Lab - 2 - Credits

Course Overview

Course Prefix
BCCM

Course Number
2130

Department
Technology, Design & Technical Ed

Course Title
Finish Lab

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Application of insulation, wallboard, interior finish, handrails, moldings, and cabinets by on-site construction.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

No Requirements

BCCM2170 - Exterior Finish I - 2 - Credits

Course Overview

Course Prefix
BCCM

Course Number
2170

Department
Technology, Design & Technical Ed

Course Title
Exterior Finish I

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides an introduction to the application of siding, stucco, brick, rock and other typical exterior wall finishing materials.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Other Enrollment Recommendations

A signed release form and insurance information is required.

No Requirements

BCCM2180 - Exterior Finish II - 2 - Credits

Course Overview

Course Prefix
BCCM

Course Number
2180

Department
Technology, Design & Technical Ed

Course Title
Exterior Finish II

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Proper installation of exterior doors, windows and cornice finish are included.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Other Enrollment Recommendations
A signed release form and insurance information is required.

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- BCCM2170 - Exterior Finish I

may be taken concurrently

BCCM2200 - Construction Management - 3 - Credits

Course Overview

Course Prefix
BCCM

Course Number
2200

Department
Technology, Design & Technical Ed

Course Title
Construction Management

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Covers the theory of project organization, contracts, change orders, records, and project supervision.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

BCCM2230 - Construction Management Lab I - 3 - Credits

Course Overview

Course Prefix
BCCM

Course Number
2230

Department
Technology, Design & Technical Ed

Course Title
Construction Management Lab I

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Practice and application of construction management techniques through organization and supervision of layout and framing in an on-site construction setting.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

BCCM2240 - Construction Estimating - 3 - Credits

Course Overview

Course Prefix
BCCM

Course Number
2240

Department
Technology, Design & Technical Ed

Course Title
Construction Estimating

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Principles of construction estimating including take-offs, labor costs, equipment costs, overhead expenses and markups. Limited exposure to computer applications in construction estimating may also be taught.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

BCCM2250 - Construction Management Lab II - 3 - Credits

Course Overview

Course Prefix
BCCM

Course Number
2250

Department
Technology, Design & Technical Ed

Course Title
Construction Management Lab II

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Practice and application of construction management techniques through organization and supervision of interior construction.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

BCCM2270 - Building Codes and Inspections - 2 - Credits

Course Overview

Course Prefix
BCCM

Course Number
2270

Department
Technology, Design & Technical Ed

Course Title
Building Codes and Inspections

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Covers the nature and use of building codes and zoning ordinances. Also covers inspection procedures used to enforce building codes and ordinances.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

No Requirements

BCCM2320 - Plumbing Maintenance I - 2 - Credits

Course Overview

Course Prefix
BCCM

Course Number
2320

Department
Technology, Design & Technical Ed

Course Title
Plumbing Maintenance I

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This is an introductory course to plumbing systems in residential and/or commercial buildings focused mainly on plumbing maintenance. This course focuses on troubleshooting and finding remedies to common problems in plumbing.

Credit Hours

Credit Hours Min:
2

Contact Hours

Contact Hours Min:
2

Billing Hours

Billing Hours Min:
2

Lecture Hours

Lecture Hours Min:
2

No Requirements

BCCM2340 - Heating, Ventilating, and Air Conditioning Maintenance (HVAC) I - 2 - Credits

Course Overview

Course Prefix
BCCM

Course Number
2340

Department
Technology, Design & Technical Ed

Course Title
Heating, Ventilating, and Air Conditioning Maintenance (HVAC) I

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces students to HVAC systems in residential or commercial buildings. It focuses mainly on HVAC maintenance. Students learn about tools, troubleshooting, safety, and HVAC systems as explained in the course objective. This may be taught online/lab or lecture/lab.

Credit Hours

Credit Hours Min:
2

Contact Hours

Contact Hours Min:
2

Billing Hours

Billing Hours Min:
2

Lecture Hours

Lecture Hours Min:
2

No Requirements

BCCM2350 - Electrical Maintenance I - 2 - Credits

Course Overview

Course Prefix
BCCM

Course Number
2350

Department
Technology, Design & Technical Ed

Course Title
Electrical Maintenance I

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces electrical systems in residential and/or commercial buildings focused mainly on electrical maintenance. Troubleshooting and fixing basic issues with electrical systems and components is the main focus. This may be taught as a blended/lab or lecture/lab class.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

No Requirements

BCCM2500 - Specialty Construction Lab - 2 - Credits

Course Overview

Course Prefix
BCCM

Course Number
2500

Department
Technology, Design & Technical Ed

Course Title
Specialty Construction Lab

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Practice and application methods and materials in exterior construction for second year building construction students.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

No Requirements

BCCM2600 - Contractor Preparation - 2 - Credits

Course Overview

Course Prefix
BCCM

Course Number
2600

Department
Technology, Design & Technical Ed

Course Title
Contractor Preparation

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Review of the construction industry, business ownership, company organization, bidding procedures, contracts, bonds and insurance, labor laws, lien laws, and cost management.

Credit Hours

Credit Hours Min:
2

Contact Hours

Contact Hours Min:
2

Billing Hours

Billing Hours Min:
2

Lecture Hours

Lecture Hours Min:
2

No Requirements

BCCM2977 - Cooperative Education - 1 - 3 Credits

Course Overview

Course Prefix
BCCM

Course Number
2977

Department
Technology, Design & Technical Ed

Course Title
Cooperative Education

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Provides supervised on-the-job experience for students in most aspects of building construction and construction management. The student establishes learning objectives, hours to be worked, and a credit agreement with the instructor at the beginning of the semester.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

Special Approval
Instructor permission

No Requirements

BCCM2988 - Special Problems - 1 - 3 Credits

Course Overview

Course Prefix
BCCM

Course Number
2988

Department
Technology, Design & Technical Ed

Course Title
Special Problems

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Individual work approved by instructor. May prepare for State Examinations. Time and credit to be arranged.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

No Requirements

BCIS1000 - Introduction to Computer Science - 3 - Credits

Course Overview

Course Prefix
BCIS

Course Number
1000

Department
Technology, Design & Technical Ed

Course Title
Introduction to Computer Science

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Strictly a lecture class with NO hands-on experience. Class is a survey of computers that covers hardware, software, computer history, computer crime, operating systems, programming languages, and computer networks. A research paper will be required.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

BCIS1040 - Introduction to Programming - 3 - Credits

Course Overview

Course Prefix
BCIS

Course Number
1040

Department
Technology, Design & Technical Ed

Course Title
Introduction to Programming

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
This course introduces computer programming/software engineering and applications. Students learn the fundamentals of computer programming, simple controls and data structures, and operating system commands. Students learn to design, code, and test their own programs, and apply mathematical skills.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

BCIS1050 - Career and Workplace Relations - 1 - Credits

Course Overview

Course Prefix
BCIS

Course Number
1050

Department
Technology, Design & Technical Ed

Course Title
Career and Workplace Relations

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Career and Workplace Relations is designed to help students gain insight into how their skills and professionalism might enhance relationships between management and coworkers. Instruction will include employment skills such as communication, critical thinking, professional etiquette, team dynamics, and more.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Identify personal and transferable skills, competencies and/or abilities.
2. Create an industry specific resume, cover letter and online presence.
3. Demonstrate effective interviewing skills.
4.Submit an application for an industry specific position.
5. Demonstrate effective use of job search websites.

BCIS1081 - Introduction to Mobile Application Development - 3 - Credits

Course Overview

Course Prefix
BCIS

Course Number
1081

Department
Technology, Design & Technical Ed

Course Title
Introduction to Mobile Application Development

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
This course introduces students to the fundamentals of mobile application development. Students learn to design, code and test their own mobile applications.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

BCIS1100 - Introduction to Networking - 1 - Credits

Course Overview

Course Prefix
BCIS

Course Number
1100

Department
Technology, Design & Technical Ed

Course Title
Introduction to Networking

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Introduction to Networking provides foundational-level instruction on the concepts, models, services, settings, protocols, topologies, and devices used in computer networks. Students explore the Open Systems Interconnection (OSI) and Transmission Control Protocol/Internet Protocol (TCP/IP) models.

Credit Hours

Credit Hours Min:
1

Contact Hours

Contact Hours Min:
1

Billing Hours

Billing Hours Min:
1

Lecture Hours

Lecture Hours Min:
1

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Define common concepts and terms associated with computer networking.
2. Identify and differentiate the purpose and function of common networking devices.
3. Identify and differentiate common networking ports, protocols and services.
4. Identify components of the OSI and TCP/IP models.
5. Compare and contrast network topologies and access methods.

BCIS1200 - Introduction to Operating Systems - 2 - Credits

Course Overview

Course Prefix
BCIS

Course Number
1200

Department
Technology, Design & Technical Ed

Course Title
Introduction to Operating Systems

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course will provide you with an understanding of multiple operating systems commonly found in the Information Technology field today. You will learn the theory behind operating systems and some basic to advanced components of each operating system. This course walks you through current hardware and how it interacts with operating systems. You will learn basic functions and design of file systems found in Windows, UNIX/Linux, and Macintosh operating systems. You will also learn techniques to protect users from computer viruses, malware, and spyware.

Credit Hours

Credit Hours Min:
2

Contact Hours

Contact Hours Min:
2

Billing Hours

Billing Hours Min:
2

Lecture Hours

Lecture Hours Min:
2

No Requirements

BCIS1250 - A+ Core 1 - 3 - Credits

Course Overview

Course Prefix
BCIS

Course Number
1250

Department
Technology, Design & Technical Ed

Course Title
A+ Core 1

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
A+ Core 1 prepares students to be successful computer technicians, capable of installing, maintaining, troubleshooting, optimizing, and securing desktop computers, laptops, mobile devices, and printers. This course aligns with the objectives of the CompTIA A+ Core 1 certification exam.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Corequisite

Type
Corequisite

Required

Enroll in the following Courses:

- BCIS1260 - A+ Core 2

Course Learning Objectives

Course Learning Outcomes

1. Install and configure computer hardware components and peripheral devices.
2. Identify and configure basic networking components and protocols.
3. Install and configure laptops and other mobile devices.
4. Diagnose and troubleshoot device and network issues.
4. Compare and contrast cloud computing concepts.
5. Configure client-side virtualization.

BCIS1260 - A+ Core 2 - 3 - Credits

Course Overview

Course Prefix
BCIS

Course Number
1260

Department
Technology, Design & Technical Ed

Course Title
A+ Core 2

Grade Mode
Standard Letter

Repeat Status
NR

Course Description

A+ Core 2 is a continuation to A+ Core 1 and provides further instruction on installation, configuration, maintenance, and security of various common operating systems and platforms. This course aligns with the objectives of the CompTIA A+ Core 2 certification exam.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Corequisite

Type
Corequisite

Required

Enroll in the following Courses:

- BCIS1250 - A+ Core 1

Course Learning Objectives

Course Learning Outcomes

1. Install and configure Windows, Mac and Linux.
2. Identify best practices for safety, environmental impacts, communication and professionalism.
3. Troubleshoot common operating system, malware and security issues.
4. Identify basic vulnerabilities and protect against threats.
5. Install, configure, and maintain software in computers and mobile devices.

BCIS1300 - Website Design - 3 - Credits

Course Overview

Course Prefix
BCIS

Course Number
1300

Department
Technology, Design & Technical Ed

Course Title
Website Design

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course focuses on design and construction of Web pages using HTML, Cascading Style Sheets, and JavaScript. Students have hands-on experience creating and publishing Web pages. This course also focuses on basics of hosting, publishing, promoting, and maintaining Websites.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

BCIS1310 - Digital Image Basics - 2 - Credits

Course Overview

Course Prefix
BCIS

Course Number
1310

Department
Technology, Design & Technical Ed

Course Title
Digital Image Basics

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers digital camera basics, image downloading, basic editing and enhancements using popular software, printing options, and creative projects. Students also learn file conversion, compression, and proper formats for storing, displaying, and archiving digital images.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

No Requirements

BCIS1320 - Linux Foundations - 2 - Credits

Course Overview

Course Prefix
BCIS

Course Number
1320

Department
Technology, Design & Technical Ed

Course Title
Linux Foundations

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Linux Foundations focuses on the installation, configuration, and process management of a Linux workstation. Students explore shell programming, file system management, user accounts, access and permissions, and managing multiple concurrent processes to achieve higher utilization.

Credit Hours

Credit Hours Min:
2

Contact Hours

Contact Hours Min:
2

Billing Hours

Billing Hours Min:
2

Lecture Hours

Lecture Hours Min:
2

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Install and maintain a Linux workstation.
2. Configure Linux from the GUI and command line.
3. Configure file and access permissions.
4. Perform maintenance tasks including user management, backup and restore, shut down and reboot.

BCIS1340 - Digital Video Production - 3 - Credits

Course Overview

Course Prefix
BCIS

Course Number
1340

Department
Technology, Design & Technical Ed

Course Title
Digital Video Production

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers fundamentals of digital video production, including recording, editing, and uploading video using current video-editing programs and techniques. Students have hands-on experience with projects to help them apply current digital video production concepts.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

BCIS1350 - Interactive Web Design - 3 - Credits

Course Overview

Course Prefix
BCIS

Course Number
1350

Department
Technology, Design & Technical Ed

Course Title
Interactive Web Design

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course further enhances students knowledge of website design using interactive elements through programming using HTML5, CSS CSS, Javascript and/or other Web programing languages. Students will gain hands-on experience developing and incorporating graphics, interactivity, sound, and video.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

BCIS1500 - Introduction to Scripting - 1 - Credits

Course Overview

Course Prefix
BCIS

Course Number
1500

Department
Technology, Design & Technical Ed

Course Title
Introduction to Scripting

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Introduction to Scripting provides instruction on basic scripting concepts. Students are introduced to scripting fundamentals to automate tasks that would otherwise be performed manually. Students explore the practical use and management of scripts to perform system administration functions.

Credit Hours

Credit Hours Min:
1

Contact Hours

Contact Hours Min:
1

Billing Hours

Billing Hours Min:
1

Lecture Hours

Lecture Hours Min:
1

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Demonstrate an understanding of the features of scripting languages.
2. Implement critical thinking and problem-solving skills through practical exercises.
3. Perform automation of systems tasks and functions.

BCIS1540 - Introduction to Cloud - 2 - Credits

Course Overview

Course Prefix
BCIS

Course Number
1540

Department
Technology, Design & Technical Ed

Course Title
Introduction to Cloud

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course provides an introduction to cloud computing basics. It covers system architecture and available tools for cloud-based options for students and professionals.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

BCIS1550 - Introduction to Python - 3 - Credits

Course Overview

Course Prefix
BCIS

Course Number
1550

Department
Technology, Design & Technical Ed

Course Title
Introduction to Python

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides instruction on the fundamentals of Object-Oriented Programming in Python. It includes the creation of Python scripts from basic to intermediate as well as the debugging process.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Course Learning Objectives

Course Learning Outcomes

1. Be able to script python to accomplish design objectives.
2. Understand and use standard Python data structures.
3. Use programming data flow methods such as brancing and loops.
4. Write and use python functions.
5. Accomplish data i/o with files and other streams.
6. Write and interact with Python objects.
7. Properly handle errors and be able to debug code.

BCIS2010 - Business Computer Applications - 3 - Credits

Course Overview

Course Prefix
BCIS

Course Number
2010

Department
Technology, Design & Technical Ed

Course Title
Business Computer Applications

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students are introduced to best practices and common tools needed for file management and internet use. They explore both internet and email etiquette and how to use the features of Microsoft Office Outlook, Teams, and OneNote to communicate and collaborate professionally.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

BCIS2210 - Linux + - 3 - Credits

Course Overview

Course Prefix
BCIS

Course Number
2210

Department
Technology, Design & Technical Ed

Course Title
Linux +

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Linux+ provides instructions on how to install, configure, manage, and maintain a Linux server. Topics include SSH, VNC, Webmin, NIS, and LDAP. Students learn to install, configure, and administer a Linux server. This course aligns with the CompTIA Linux+ objectives.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

BCIS2300 - Web Programming - 3 - Credits

Course Overview

Course Prefix
BCIS

Course Number
2300

Department
Technology, Design & Technical Ed

Course Title
Web Programming

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This web page authoring course teaches advanced web design, emphasizing graphics, content, layout, and aesthetics. Students use JavaScript, ActiveX, CSS, XML, and PHP to create dynamic pages, web-based forms, data collection systems, and enhanced functionality and visual presentation.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- BCIS1300 - Website Design

BCIS2330 - Business Data Communications and Networking - 3 - Credits

Course Overview

Course Prefix
BCIS

Course Number
2330

Department
Technology, Design & Technical Ed

Course Title
Business Data Communications and Networking

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course places emphasis on business data communications in a LAN and WAN networking environment. It includes network protocols, cable technology, telecommunications standards, security issues, and general telecommunications management issues.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

BCIS2340 - Introduction to Multimedia Authoring - 3 - Credits

Course Overview

Course Prefix
BCIS

Course Number
2340

Department
Technology, Design & Technical Ed

Course Title
Introduction to Multimedia Authoring

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces students to Macromedia Authorware, using essential functions to create interactive multimedia presentations. Students develop a basic self-directed design module, gaining foundational skills in multimedia development and computer-based instructional design through hands-on practice.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- BCIS1340 - Digital Video Production

BCIS2345 - Multimedia Authoring - 2 - Credits

Course Overview

Course Prefix
BCIS

Course Number
2345

Department
Technology, Design & Technical Ed

Course Title
Multimedia Authoring

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Focuses on multimedia authoring using the capabilities of Macromedia Director. Covers authoring tools, scripting, Lingo, and other basics. Primary emphasis is hands-on experience with beginning levels of Director. Students work through textbook lessons and create their own multimedia projects.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Simple Requisites

Corequisite

Type
Corequisite

Required

Enroll in the following Courses:

- BCIS2346 - Multimedia Authoring Lab

BCIS2346 - Multimedia Authoring Lab - 2 - Credits

Course Overview

Course Prefix
BCIS

Course Number
2346

Department
Technology, Design & Technical Ed

Course Title
Multimedia Authoring Lab

Grade Mode
Standard Letter

Repeat Status
NR

Course Description

Focuses on the production of interactive multimedia projects using the capabilities of Macromedia Director. A hands-on experience that includes design, audience analysis, project management and delivery. Students work in teams during the term on a single instructional project of their choice.

Credit Hours

Credit Hours Min:
2

Contact Hours

Contact Hours Min:
2

Billing Hours

Billing Hours Min:
2

Lecture Hours

Lecture Hours Min:
2

Simple Requisites

Prerequisite

Type
Corequisite

Prerequisite

Enroll in the following Courses:

- BCIS2345 - Multimedia Authoring

BCIS2441 - Photoshop - 3 - Credits

Course Overview

Course Prefix
BCIS

Course Number
2441

Department
Technology, Design & Technical Ed

Course Title
Photoshop

Grade Mode
Standard Letter

Repeat Status
NR

Course Description

This course is designed to teach the use of Photoshop. Students gain hands-on experience from basic touch-up and editing to advance editing and creation of graphics for various uses including images for the websites.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Other Enrollment Recommendations

BCIS1300 WEBSITE DESIGN is recommended

No Requirements

BCIS2500 - Web Business - 3 - Credits

Course Overview

Course Prefix
BCIS

Course Number
2500

Department
Technology, Design & Technical Ed

Course Title
Web Business

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course is an introduction to Web-based business. Students learn business concepts relating to online and worldwide e-commerce, marketing concepts, design strategies, and technical issues as they relate to web-based businesses.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Other Enrollment Recommendations

Previous HTML and web design experience can also serve as a prerequisite. See advisor for details.

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- BCIS1300 - Website Design

BCIS2631 - Network+ - 4 - Credits

Course Overview

Course Prefix
BCIS

Course Number
2631

Department
Technology, Design & Technical Ed

Course Title
Network+

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Computer Networks provides instruction on the installation, configuration, management, and troubleshooting of common components of modern computer networks. This course prepares candidates to support networks across multiple platforms and aligns with the objectives of the CompTIA Network+ certification exam.

Credit Hours

Credit Hours Min:
4

Contact Hours

Contact Hours Min:
4

Billing Hours

Billing Hours Min:
4

Lecture Hours

Lecture Hours Min:
4

BCIS2632 - Computer Repair, A+ - 3 - Credits

Course Overview

Course Prefix
BCIS

Course Number
2632

Department
Technology, Design & Technical Ed

Course Title
Computer Repair, A+

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course prepares students for the first CompTIA A+ Essentials exam, emphasizing installation, building, upgrading, configuring, troubleshooting, and maintaining PC hardware and operating systems. Students gain hands-on experience across the eight CompTIA domain areas to reinforce practical skills.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

BCIS2650 - Information Security Fundamentals - 2 - Credits

Course Overview

Course Prefix
BCIS

Course Number
2650

Department
Technology, Design & Technical Ed

Course Title
Information Security Fundamentals

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces students to Information Security and Assurance, covering technical and administrative aspects. It provides a foundation in protecting information assets, detecting and responding to threats, and understanding security methods, planning, staffing, and incident management processes.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Other Enrollment Recommendations

Experience using personal computers, their operating systems, and network technology suggested

No Requirements

BCIS2651 - Cybersecurity/Security+ - 4 - Credits

Course Overview

Course Prefix
BCIS

Course Number
2651

Department
Technology, Design & Technical Ed

Course Title
Cybersecurity/Security+

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Security+ provides instruction on assessing the security posture of enterprise environments and implementing appropriate security solutions. Instruction is given to identify, analyze, and respond to events and incidents. This course aligns with the objectives of the CompTIA Security+ certification exam.

Credit Hours

Credit Hours
Min:
4

Contact Hours

Contact Hours
Min:
4

Billing Hours

Billing Hours
Min:
4

Lecture Hours

Lecture Hours
Min:
4

Other Enrollment Recommendations

Experience using personal computers, their operating systems, and network technology

BCIS2652 - Intro to Cloud Security - 3 - Credits

Course Overview

Course Prefix
BCIS

Course Number
2652

Department
Technology, Design & Technical Ed

Course Title
Intro to Cloud Security

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Introduces cloud security concepts and techniques. Examines aspects of cloud systems that present unique security challenges while generalizations to common cybersecurity principles are found. Hands-on techniques are explored in a representative cloud.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- TEIT1400 - Introduction to Cloud
  OR BCIS1540 - Introduction to Cloud
- TEIT2200 - Security +
  OR BCIS2651 - Cybersecurity/Security+

BCIS2653 - Network Intrusion Detection and Control - 2 - Credits

Course Overview

Course Prefix
BCIS

Course Number
2653

Department
Technology, Design & Technical Ed

Course Title
Network Intrusion Detection and Control

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides an in-depth study of network defense concepts and techniques, combining theoretical networking principles with hands-on practice. Students explore various defense strategies, network implementation advancements, and enduring problem-solving methods to strengthen and secure modern network environments.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Other Enrollment Recommendations

Experience using personal computers, their operating systems, and network technology suggested

No Requirements

BCIS2654 - Disaster Recovery - 3 - Credits

Course Overview

Course Prefix
BCIS

Course Number
2654

Department
Technology, Design & Technical Ed

Course Title
Disaster Recovery

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course teaches disaster recovery planning fundamentals through a step-by-step approach, covering risk assessment, procedure development, documentation, implementation, testing, and maintenance. Students gain skills to lead or participate in recovery teams, ensuring organizations quickly resume operations and minimize losses.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Other Enrollment Recommendations

Experience using personal computers, their operating systems, and network technology suggested

No Requirements

BCIS2655 - Computer Forensics - 2 - Credits

Course Overview

Course Prefix
BCIS

Course Number
2655

Department
Technology, Design & Technical Ed

Course Title
Computer Forensics

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Presents methods to properly conduct a computer forensics investigation, beginning with a discussion of ethics.

Credit Hours

Credit Hours Min:
2

Contact Hours

Contact Hours Min:
2

Billing Hours

Billing Hours Min:
2

Lecture Hours

Lecture Hours Min:
2

Other Enrollment Recommendations

Experience using personal computers, their operating systems, and network technology suggested

No Requirements

BCIS2977 - Internship - 1 - 3 Credits

Course Overview

Course Prefix
BCIS

Course Number
2977

Department
Technology, Design & Technical Ed

Course Title
Internship

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course provides supervised on-the-job training in Business Computer Information Systems (BCIS) areas. Students meet with the instructor/coordinator periodically during the course to determine and evaluate learning objectives, hours to be worked, and credit agreements.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

Special Approval

Instructor permission

BCIS2988 - Special Problems - 1 - 3 Credits

Course Overview

Course Prefix
BCIS

Course Number
2988

Department
Technology, Design & Technical Ed

Course Title
Special Problems

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Individual work approved by the instructor. Time and credit to be arranged.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

No Requirements

BCIS2999 - Workshop - 1 - 3 Credits

Course Overview

Course Prefix
BCIS

Course Number
2999

Department
Technology, Design & Technical Ed

Course Title
Workshop

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Designed to meet the changing needs of the student in Business Computer Information Systems.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

No Requirements

BENG1200 - SolidWorks for Biological Engineers - 2 - Credits

Course Overview

Course Prefix
BENG

Course Number
1200

Department
Biological Engineering

Course Title
SolidWorks for Biological Engineers

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
The course introduces students to principles of two and three dimensional modeling. The course is designed to prepare students to successfully pass the online Certified SolidWorks Associate test and emphasizes biological engineering designs such as photolithography, microfluidics, and prosthetics.

Credit Hours

Credit Hours Min:
2

Contact Hours

Contact Hours Min:
2

Billing Hours

Billing Hours Min:
2

Lecture Hours

Lecture Hours Min:
2

Registration Restrictions

Admission to a program in the College of Engineering

No Requirements

BENG1880 - Engineering Quantification of Biological Processes - 3 - Credits

Course Overview

Course Prefix
BENG

Course Number
1880

Department
Biological Engineering

Course Title
Engineering Quantification of Biological Processes

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Introduction to engineering practice of biological modeling and quantification of biological processes. Introduction to transport of heat and mass; bioenergetics, thermodynamics, and enzyme kinetics; metabolism; mechanical work processes; and modeling of biological systems. Recommended that students take BENG 1880 after taking calculus and biology.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Contact Hours Operator:
OR

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

BENG2290 - Biological Engineering Profession Exploration - 1 - Credits

Course Overview

Course Prefix
BENG

Course Number
2290

Department
Biological Engineering

Course Title
Biological Engineering Profession Exploration

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course introduces students to professional opportunities in biological engineering through seminars featuring biological engineers practicing in various biological engineering fields and industries. The course illustrates ways to develop a successful career in biological engineering considering ethical and professional responsibilities.

Credit Hours

Credit Hours Min:
1

Contact Hours

Contact Hours Min:
1

Billing Hours

Billing Hours Min:
1

Lecture Hours

Lecture Hours Min:
1

No Requirements

BENG2330 - Engineering Properties of Biological Materials - 3 - Credits

Course Overview

Course Prefix
BENG

Course Number
2330

Department
Biological Engineering

Course Title
Engineering Properties of Biological Materials

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers materials in biomedical, bioprocessing, and bioenvironmental applications. It focuses on biomaterial's structure-function relationships and characterization methods through lectures and labs. It incorporates technical writing fundamentals and elements of engineering design through lab reports and team projects.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Registration Restrictions

Admission to the Pre-Professional or Professional Engineering program

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Earn a minimum grade of C in the following:

- BIOL1610 - Biology I
- CHEM2300 - Principles of Organic Chemistry
  OR CHEM2310 - Organic Chemistry I
- CHEM2315 - Organic Chemistry Laboratory I
- PHYS2210 - Physics for Scientists and Engineers I (QI/BPS)
- PHYS2215 - Physics for Scientists and Engineers Lab I

***CHEM2300 PRIN OF ORGANIC CHEMISTRY*, *CHEM2310 ORGANIC CHEMISTRY I*, *CHEM2315 ORGANIC CHEMISTRY LAB I* may be taken concurrently**

BENG2400 - Biological and Environmental Thermodynamics - 3 - Credits

Course Overview

Course Prefix
BENG

Course Number
2400

Department
Biological Engineering

Course Title
Biological and Environmental Thermodynamics

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers introductory thermodynamics for biological and environmental engineering, the first and second laws of thermodynamics, entropy, thermodynamics of processes, and equations of state. Phase equilibria, Gibbs free energy, and Raoult's law are also covered.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Admission to the Pre-Professional or Professional Engineering program

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Earn a minimum grade of C- in the following:
- MATH1220 - Calculus II (QL)

BENG2620 - Environmental Engineering Microbiology - 3 - Credits

Course Overview

Course Prefix
BENG

Course Number
2620

Department
Biological Engineering

Cross-Listed Courses
CEE2620 - Environmental Engineering Microbiology

Course Title
Environmental Engineering Microbiology

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course explores environmental microbiology foundations with emphasis on engineering applications. Topics include: metabolism, classification, growing and enumerating microorganisms, biogeochemical nutrient cycling, pathogens in environmental media, indicator organisms, water and wastewater treatment, and microbial ecology applications in treating hazardous pollutants.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Completion Requirement

Required

Complete ALL of the following Courses:
- BIOL1010 - Biology and the Citizen (BLS)
- CHEM1220 - Principles of Chemistry II (BPS)

a score of at least 3 on the AP Biology or AP Environmental Exams can replace the BIOL 1010 requirement

Required

Complete ALL of the following Courses:

- CHEM1220 - Principles of Chemistry II (BPS)

Course Learning Objectives

Course Learning Outcomes

This course integrates environmental microbiology principles with engineering and biological applications, equipping civil, environmental, and biological engineering students with foundational knowledge, laboratory skills, and systems-level understanding of microbial processes in natural and engineered environments.

BENG3000 - Instrumentation for Biological Systems - 3 - Credits

Course Overview

Course Prefix
BENG

Course Number
3000

Department
Biological Engineering

Course Title

Instrumentation for Biological Systems

Grade Mode
Standard Letter

Repeat Status
NR

Course Description

This course covers fundamentals of measurement systems used in bioprocess, biomedical, agricultural, biological, and environmental applications. Selection and use of sensors, data acquisition systems, and elementary controls are also covered.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Admission to the Professional Engineering Program

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Earn a minimum grade of C- in the following:

- ENGR2210 - Fundamental Electronics for Engineers
  OR TEE2300 - Electronic Fundamentals (QI)

BENG3200 - Introduction to Unit Operations in Biological Engineering - 3 - Credits

Course Overview

Course Prefix
BENG

Course Number
3200

Department
Biological Engineering

Course Title
Introduction to Unit Operations in Biological Engineering

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Introduction to the fundamental unit operations required to process biological materials in bioprocessing, biomedical, and food engineering applications. Integration of biology and chemistry into biological engineering using basic concepts in heat, mass, and energy conservation and transport.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Admission to the Professional Engineering Program

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- CHEM2300 - Principles of Organic Chemistry
  OR CHEM2310 - Organic Chemistry I
- CHEM2315 - Organic Chemistry Laboratory I

BENG3500 - Fluid Mechanics in Biological Engineering - 3 - Credits

Course Overview

Course Prefix
BENG

Course Number
3500

Department
Biological Engineering

Course Title
Fluid Mechanics in Biological Engineering

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Biological Engineering Fluid Mechanics covers fundamental fluid dynamics with applications in bioreactors, microfluidics, cardiovascular flow, and non-Newtonian fluids.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Admission to the Professional Engineering Program

Simple Requisites

Prerequisite

Type
Prerequisite

Required

All prerequisite courses require a grade of C- or better

Complete ALL of the following Courses:

- BENG2400 - Biological and Environmental Thermodynamics
  OR MAE2300 - Thermodynamics I

Required

Fulfill ANY of the following requirements:

Option 1

Complete ALL of the following Courses:

- MATH2250 - Linear Algebra and Differential Equations (QI)

OR

Option 2

Complete ALL of the following Courses:

- MATH2270 - Linear Algebra (QI)
- MATH2280 - Ordinary Differential Equations (QI)

BENG3670 - Transport Phenomena in Bio-Environmental Systems - 3 - Credits

Course Overview

Course Prefix
BENG

Course Number
3670

Department
Biological Engineering

Cross-Listed Courses

CEE3670 - Transport Phenomena in Bio-Environmental Systems

Course Title

Transport Phenomena in Bio-Environmental Systems

Grade Mode
Standard Letter

Repeat Status
NR

Course Description

Biological and environmental engineering students learn principles, concepts, modes, and methods of calculating heat and mass transfer. Emphasis is on contaminant and nutrient flux, their state transformations, and evaluating options for production, clean-up, and control of bio-environmental systems.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Registration Restrictions

Admission to the Professional Engineering Program

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Earn a minimum grade of C- in the following:

- BENG2400 - Biological and Environmental Thermodynamics **OR** MAE2300 - Thermodynamics I
- CEE3500 - Civil and Environmental Engineering Fluid Mechanics **OR** BENG3500 - Fluid Mechanics in Biological Engineering

BENG3870 - Biological Engineering Design I - 1 - Credits

Course Overview

Course Prefix
BENG

Course Number
3870

Department
Biological Engineering

Course Title
Biological Engineering Design I

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students select and plan a senior design project. A project proposal, including a technical description of the project and management plans, is required.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Registration Restrictions

Admission to the Professional Engineering Program

No Requirements

BENG4250 - Cooperative Practice - 3 - Credits

Course Overview

Course Prefix
BENG

Course Number
4250

Department
Biological Engineering

Course Title
Cooperative Practice

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Planned work experience in industry or government. Detailed program must be approved prior to registration. Written report required.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Admission to the Professional Engineering Program

No Requirements

BENG4880 - Biological Engineering Design II (CI) - 3 - Credits

Course Overview

Course Prefix
BENG

Course Number
4880

Department
Biological Engineering

Course Title
Biological Engineering Design II (CI)

General Education Attribute
CI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course is a capstone design series.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Contact Hours Operator:
OR

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Registration Restrictions

Admission to the Professional Engineering Program

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Earn a minimum grade of C- in the following:

- BENG3870 - Biological Engineering Design I

BENG4890 - Biological Engineering Design III (CI) - 3 - Credits

Course Overview

Course Prefix
BENG

Course Number
4890

Department
Biological Engineering

Course Title
Biological Engineering Design III (CI)

General Education Attribute
CI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course encompasses the preparation and presentation of the senior design project. The presentation involves a professional standard report and an evaluation and critique by Biological Engineering students and faculty.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Registration Restrictions

Admission to the Professional Engineering Program

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Earn a minimum grade of C- in the following:

- BENG4880 - Biological Engineering Design II (CI)

BENG4930 - Special Studies - 1 - 4 Credits

Course Overview

Course Prefix
BENG

Course Number
4930

Department
Biological Engineering

Course Title
Special Studies

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Independent or group study of biological and irrigation engineering subjects not covered in regular course offerings.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
4

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
4

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
4

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
4

Lecture Hours Operator:
TO

Registration Restrictions

Admission to the Professional Engineering Program

No Requirements

BENG5020 - Biological Modeling and Controls - 3 - Credits

Course Overview

Course Prefix
BENG

Course Number
5020

Department
Biological Engineering

Course Title
Biological Modeling and Controls

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers the development of mathematical models to describe biological systems. It emphasizes the use of analogic techniques for development and numerical methods for solution. Systems considered include biotransport, population biology, and cellular engineering.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Registration Restrictions

Admission to the Professional Engineering Program

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Earn a minimum grade of C- in the following:

- BENG3670 - Transport Phenomena in Bio-Environmental Systems
  OR CEE3670 - Transport Phenomena in Bio-Environmental Systems
- ENGR2450 - Numerical Methods for Engineers
  OR MAE2450 - Engineering Numerical Methods

Required

Fulfill ANY of the following requirements:

Option 1

Earn a minimum grade of C- in the following:

- MATH2250 - Linear Algebra and Differential Equations (QI)

OR

Option 2

Earn a minimum grade of C- in the following:

- MATH2270 - Linear Algebra (QI)
  AND MATH2280 - Ordinary Differential Equations (QI)

BENG5500 - Systems Biology Modeling - 3 - Credits

Course Overview

Course Prefix
BENG

Course Number
5500

Department
Biological Engineering

Dual-Listed Courses

BENG6500 - Systems Biology Modeling

Course Title

Systems Biology Modeling

Grade Mode
Standard Letter

Repeat Status
NR

Course Description

Living organisms are composed of multiple cellular components that work in an integrated fashion to support life processes. This course introduces students to network concepts and mathematical approaches used to model a cell as an integrated system. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Admission to the Professional Engineering Program.

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Earn a minimum grade of C- in the following:

- MATH2250 - Linear Algebra and Differential Equations (QI)
  OR MATH2270 - Linear Algebra (QI)
- CEE2450 - Computer Programming and Numerical Methods for

Civil and Environmental Engineers
OR CS1400 - Introduction to Computer Science--CS 1

BENG5600 - Downstream Processes in Biological Engineering - 3 - Credits

Course Overview

Course Prefix
BENG

Course Number
5600

Department
Biological Engineering

Dual-Listed Courses
BENG6600 - Downstream Processes in Biological Engineering

Course Title
Downstream Processes in Biological Engineering

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers the purification of proteins and other soluble/insoluble products from biochemical and/or chemical process streams. It emphasizes physical-chemical separation processes based on density, size, solubility, molecular interactions, etc. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Admission to the Professional Engineering Program

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Earn a minimum grade of C- in the following:

- BENG3670 - Transport Phenomena in Bio-Environmental Systems
  OR CEE3670 - Transport Phenomena in Bio-Environmental

BENG5610 - Food and Bioprocess Engineering - 3 - Credits

Course Overview

Course Prefix
BENG

Course Number
5610

Department
Biological Engineering

Cross-Listed Courses
NDFS5610 - Food and Bioprocess Engineering

Dual-Listed Courses
BENG6610 - Food and Bioprocess Engineering

Course Title
Food and Bioprocess Engineering

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers the standardization and compounding of biomaterials and food products, as well as preservation processing using heat, refrigeration, concentration, and dehydration. It also covers basic unit operations in the bioprocessing industry. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Admission to the Professional Engineering Program

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Earn a minimum grade of C- in the following:

- BENG3200 - Introduction to Unit Operations in Biological Engineering

BENG5620 - Metabolic Engineering I - 3 - Credits

Course Overview

Course Prefix
BENG

Course Number
5620

Department
Biological Engineering

Dual-Listed Courses
BENG6620 - Metabolic Engineering I

Course Title
Metabolic Engineering I

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course presents fundamental knowledge of cellular metabolic pathways, basic principles of metabolic engineering, metabolic flux analysis, regulation of metabolic pathways, metabolic engineering applications, and biosynthesis of primary/secondary metabolites. Students conduct experiments, participate in hands-on gene cloning and work with genetic engineering techniques. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Admission to the Professional Engineering Program

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Earn a minimum grade of C- in the following:

- CHEM3700 - Introductory Biochemistry
- MATH2250 - Linear Algebra and Differential Equations (QI)

BENG5630 - Synthetic Biological Engineering - 3 - Credits

Course Overview

Course Prefix
BENG

Course Number
5630

Department
Biological Engineering

Dual-Listed Courses
BENG6630 - Synthetic Biological Engineering

Course Title
Synthetic Biological Engineering

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Covers aspects of synthetic biological engineering, including overview of molecular biology and molecular cloning techniques, including PCR and analysis of nucleic acids and proteins. Introduces bioinformatics and practical use of these programs for biological design. Emphasizes principles of genetic engineering and use of standard biological parts and cellular engineering applications.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Admission to the Professional Engineering Program

BENG5640 - Biofuels - 3 - Credits

Course Overview

Course Prefix
BENG

Course Number
5640

Department
Biological Engineering

Dual-Listed Courses
BENG6640 - Biofuels

Course Title
Biofuels

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Biofuel potential as energy source, emphasis on biofuel impacts on the global environment and economy, and the role of biofuel towards sustainability. Evaluate factors driving biofuel policies and research. General discussion about fossil fuel, renewable energy forms, and availability of biomass feed stocks and their forms. Evaluate biofuel production from solid waste and wastewater systems.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Senior or graduate student status, or instructor permission; admission to the Professional Engineering Program

BENG5660 - Environmental Quality Analysis - 3 - Credits

Course Overview

Course Prefix
BENG

Course Number
5660

Department
Biological Engineering

Cross-Listed Courses
CEE5610 - Environmental Quality Analysis

Dual-Listed Courses
BENG6660 - Environmental Quality Analysis

Course Title
Environmental Quality Analysis

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Familiarizes students with various methods used for analysis of chemical parameters in environmental samples (water, soil, and air). Provides students with skills enabling them to make proper selection/evaluation of analytical procedure and evaluate data generated.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Admission to the Professional Engineering Program

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- CHEM1210 - Principles of Chemistry I

BENG5680 - Soil-based Waste Management - 2 - Credits

Course Overview

Course Prefix
BENG

Course Number
5680

Department
Biological Engineering

Cross-Listed Courses
CEE5680 - Soil-Based Waste Management

Dual-Listed Courses
BENG6680 - Soil-based Waste Management

Course Title
Soil-based Waste Management

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Engineering management of wastes present in the vadose zone, including extraction, containment, and biological, chemical, and physical destruction technologies for sustainable agriculture and environmental quality. Aspects include engineering characterization, problem definition, treatment, and monitoring. Analysis and design emphasized through problems, examinations, and report writing.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Registration Restrictions
Admission to the Professional Engineering Program

BENG5700 - Introduction to Microfabrication - 3 - Credits

Course Overview

Course Prefix
BENG

Course Number
5700

Department
Biological Engineering

Cross-Listed Courses
ECE5700 - Introduction to Microfabrication, MAE5700 - Introduction to Microfabrication, PHYS5700 - Introduction to Microfabrication

Course Title
Introduction to Microfabrication

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers materials, wet chemical cleaning and etch, photolithography, metal deposition, doping, carrier density and conductivity, microfluidics, and micro-electronic-mechanical-systems.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Registration Restrictions
Admission to the Professional Engineering Program

Special Approval
Instructor permission

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- PHYS2210 - Physics for Scientists and Engineers I (QI/BPS)
  OR PHYS2310 - Physics for Scientists I (BPS)
- PHYS2215 - Physics for Scientists and Engineers Lab I
- PHYS2220 - Physics for Scientists and Engineers II (BPS/QI)
  OR PHYS2320 - Physics for Scientists II (BPS)
- PHYS2225 - Physics for Scientists and Engineers Lab II

BENG5710 - Advanced Microfabrication - 3 - Credits

Course Overview

Course Prefix
BENG

Course Number
5710

Department
Biological Engineering

Cross-Listed Courses
ECE5710 - Advanced Microfabrication, PHYS5710 - Advanced Microfabrication

Course Title
Advanced Microfabrication

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Students are trained to use all necessary tools at the Nanoscale Device Laboratory to perform fabrication of micro/nanostructures for their research needs, including undergraduate and graduate research projects.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ANY of the following Courses:

- BENG5700 - Introduction to Microfabrication
  OR ECE5700 - Introduction to Microfabrication
  OR MAE5700 - Introduction to Microfabrication
  OR PHYS5700 - Introduction to Microfabrication

BENG5790 - Protein Structure/Function and Purification - 3 - Credits

Course Overview

Course Prefix
BENG

Course Number
5790

Department
Biological Engineering

Cross-Listed Courses
BIOL5790 - Protein Structure/Function and Purification, CHEM5790 - Protein Structure/Function and Purification

Dual-Listed Courses
BENG6790 - Protein Structure/Function and Purfication

Course Title
Protein Structure/Function and Purification

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Protein biosynthesis, modification, folding, structure, and stability, protein purification and protein analysis are discussed. Students develop an original research proposal through oral and written presentations. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Admission to the Biology, Biochemistry, or Biological Engineering program.

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete at least 1 of the following courses:

- BIOL3300 - General Microbiology
- CHEM3700 - Introductory Biochemistry

BENG5810 - Biochemical Engineering - 3 - Credits

Course Overview

Course Prefix
BENG

Course Number
5810

Department
Biological Engineering

Cross-Listed Courses
CEE5810 - Biochemical Engineering

Dual-Listed Courses
BENG6810 - Biochemical Engineering

Course Title
Biochemical Engineering

Grade Mode
Standard Letter

Repeat Status
NR

Course Description

This course covers fundamentals of bioreactor design and bioengineering to produce biological commodities. It emphasizes mathematical models of microbial and enzymatic processes in environmental and industrial biotechnology. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Registration Restrictions

Admission to the Professional Engineering Program

Simple Requisites

Prerequisite

Type
Prerequisite

Required

All prerequisite courses require a grade of C- or better

Fulfill ANY of the following requirements:

Option 1

Complete ALL of the following Courses:

- BENG3200 - Introduction to Unit Operations in Biological Engineering
- BENG3670 - Transport Phenomena in Bio-Environmental Systems
  OR CEE3670 - Transport Phenomena in Bio-Environmental Systems

OR

Option 2

Complete ALL of the following Courses:

- BENG3670 - Transport Phenomena in Bio-Environmental Systems
  OR CEE3670 - Transport Phenomena in Bio-Environmental Systems
- CEE3610 - Environmental Management
  OR PUBH3610 - Environmental Management
- CEE3640 - Drinking Water Engineering

BENG5830 - Management and Utilization of Biological Solids and Wastewater - 3 - Credits

Course Overview

Course Prefix
BENG

Course Number
5830

Department
Biological Engineering

Cross-Listed Courses
CEE5830 - Management and Utilization of Biological Solids and Wastewater

Dual-Listed Courses
BENG6830 - Management and Utilization of Biological Solids and Wastewater

Course Title
Management and Utilization of Biological Solids and Wastewater

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Focuses on production, management, and disposal of biosolids and wastewater generated in food processing and wastewater treatment. Emphasizes beneficial use of biosolids and wastewater for agricultural production, forest enhancement, and land reclamation.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Registration Restrictions

Admission to the Professional Engineering Program

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- BENG3200 - Introduction to Unit Operations in Biological Engineering
- BENG3670 - Transport Phenomena in Bio-Environmental Systems
  OR CEE3670 - Transport Phenomena in Bio-Environmental Systems
- CEE3610 - Environmental Management
  OR PUBH3610 - Environmental Management
- CEE3640 - Drinking Water Engineering

BENG5840 - Introduction to Biophotonics - 3 - Credits

Course Overview

Course Prefix
BENG

Course Number
5840

Department
Biological Engineering

Dual-Listed Courses
BENG6840 - Introduction to Biophotonics

Course Title
Introduction to Biophotonics

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Applications of light and tissues optical properties for the detection and diagnosis of protein, cell and tissues properties and pathologies. Scientific and engineering principles for developing techniques and devices that use light to probe cells and tissues. Optical and thermal aspects of the interactions between laser light and biological samples needed for microscopy, disease detection and surgical guidance. Overview of current topics and research.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Admission to the Professional Engineering Program

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- MATH2250 - Linear Algebra and Differential Equations (QI)
- PHYS2210 - Physics for Scientists and Engineers I (QI/BPS)

BENG5850 - Biomaterials Engineering - 3 - Credits

Course Overview

Course Prefix
BENG

Course Number
5850

Department
Biological Engineering

Dual-Listed Courses
BENG6850 - Biomaterials Engineering

Course Title
Biomaterials Engineering

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students explore the identification and modification of properties of natural and artificial biomaterials. Students learn design of applications for by-product recovery and recycling, environmental, food processing, and biomedical industries. Topics include commercialization of biomaterial feed stocks, biotechnology output, and bioprocessing by-products into traditional and alternative products. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Admission to the Professional Engineering Program

Simple Requisites

Corequisite

Type
Corequisite

Required

Enroll in the following Courses:

- BENG5020 - Biological Modeling and Controls

Prerequisite

Type
Prerequisite

Required

Earn a minimum grade of C- in the following:

- BENG2330 - Engineering Properties of Biological Materials

BENG5870 - Molecular and Cellular Bioengineering - 3 - Credits

Course Overview

Course Prefix
BENG

Course Number
5870

Department
Biological Engineering

Dual-Listed Courses

BENG6870 - Molecular and Cellular Bioengineering

Course Title

Molecular and Cellular Bioengineering

Grade Mode
Standard Letter

Repeat Status
NR

Course Description

Students learn to use principles of engineering, biophysics, and molecular and cellular biology to reverse engineer molecular and cell components in order to engineer and use corresponding tools to detect, diagnose, treat and prevent diseases such as cancer, gene disorders, and infection. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- BENG3670 - Transport Phenomena in Bio-Environmental Systems
  OR CEE3670 - Transport Phenomena in Bio-Environmental Systems
- ENGR2450 - Numerical Methods for Engineers
  OR MAE2450 - Engineering Numerical Methods

Required

Fulfill ANY of the following requirements:

Option 1

Complete ALL of the following Courses:

- MATH2250 - Linear Algebra and Differential Equations (QI)

OR

Option 2

Complete ALL of the following Courses:

- MATH2270 - Linear Algebra (QI)
- MATH2280 - Ordinary Differential Equations (QI)

BENG5880 - BioMEMS: Microtechnology for BioMedical Research - 3 - Credits

Course Overview

Course Prefix
BENG

Course Number
5880

Department
Biological Engineering

Dual-Listed Courses

BENG6880 - BioMEMS: Microtechnology for BioMedical Research

Course Title

BioMEMS: Microtechnology for BioMedical Research

Grade Mode
Standard Letter

Repeat Status
NR

Course Description

This fundamental course for advanced undergraduate or entry-level graduate students in engineering or other interdisciplinary programs introduces micro-engineering concepts, techniques, and principles. It includes an overview of bio-microfluidics, tissue micro-engineering, biomedical microdevices, etc., through labs, simulations, and proposal development. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Contact Hours Operator:
OR

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Registration Restrictions

Admission to the Professional Engineering Program

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Earn a minimum grade of C- in the following:

- BENG3500 - Fluid Mechanics in Biological Engineering

BENG5890 - Tissue Engineering - 3 - Credits

Course Overview

Course Prefix
BENG

Course Number
5890

Department
Biological Engineering

Dual-Listed Courses
BENG6890 - Tissue Engineering

Course Title
Tissue Engineering

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces fundamentals of tissue engineering. It investigates engineering design strategies for artificial organs and treatments for disease disorders of nerves, blood vessels, bones, cartilage, skin, and the liver. It also explores of the use of stem cell gene therapy in tissue engineering.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Admission to the Professional Engineering Program

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Earn a minimum grade of C- in the following:

- BENG2330 - Engineering Properties of Biological Materials

BENG5910 - Introduction to Biosensors - 3 - Credits

Course Overview

Course Prefix
BENG

Course Number
5910

Department
Biological Engineering

Dual-Listed Courses
BENG6910 - Introduction to Biosensors

Course Title
Introduction to Biosensors

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers scientific principles of biologically-based sensing elements, interfacing techniques, and the engineering perspectives of sensing and transducer devices. Biophotonic detection of molecular and cellular components and the applications of biosensors in the field of human health, agriculture, and bioenergy are also covered. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Admission to the Professional Engineering Program

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Earn a minimum grade of C- in the following:

- BENG2330 - Engineering Properties of Biological Materials

BENG5930 - Special Studies - 1 - 4 Credits

Course Overview

Course Prefix
BENG

Course Number
5930

Department
Biological Engineering

Course Title
Special Studies

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Independent or group study of biological and irrigation engineering subjects not covered in regular course offerings.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
4

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
4

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
4

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
4

Lecture Hours Operator:
TO

Registration Restrictions
Admission to the Professional Engineering Program

BENG6210 - Upstream Processing in Biomanufacturing - 3 - Credits

Course Overview

Course Prefix
BENG

Course Number
6210

Department
Biological Engineering

Course Title
Upstream Processing in Biomanufacturing

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Introduces principles and practices of upstream biomanufacturing, including cell line development, strain engineering, media optimization, bioreactor design, and process control. Students learn how to cultivate cells or microbes for the efficient and reproducible production of biopharmaceutical and industrial biomolecules.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Course Learning Objectives

Course Learning Outcomes

1. Develop an understanding of the overall workflow of upstream processing and be able to define and differentiate between key terminology and specific steps and be able to apply this knowledge to designing an end-to-end process.
2. Compare and contrast the characteristics and applications of commonly used host cell lines (e.g., CHO, E. coli, yeast) in biomanufacturing.
3. Compare and contrast different styles of bioreactors (traditional and single use bioreactors) and be able to select the proper equipment for differing process types.
4. Design a logical and robust inoculum train to scale a cell culture from a cryovial to a production-scale bioreactor.
5. Propose a scale-up/scale-down strategy for an upstream process, explaining the engineering principles that govern the transition from lab-scale to manufacturing scale.
6. Be able to evaluate process data to evaluate areas of concern and be able to propose solutions.
7. Evaluate emerging technologies such as PAT technologies and understand value.

BENG6220 - Mammalian Cell Culture - 3 - Credits

Course Overview

Course Prefix
BENG

Course Number
6220

Department
Biological Engineering

Course Title
Mammalian Cell Culture

Grade Mode
Standard Letter

Repeat Status
NR

Course Description

This course covers comprehensive study of mammalian cell line development strategy, diverse cell lines, their process needs, products produced, downstream processing of products, and common challenges. Aseptic techniques are also covered, as well as regulations around specific cell lines.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Course Learning Objectives

Course Learning Outcomes

1. Apply cell line development strategies and genetic engineering principles to create and select high-performing, stable production clones (in theory).
2. Analyze, contrast, and troubleshoot different common mammalian cell lines used for bioproduct manufacturing.
3. Learn principles of aseptic techniques and cGMP practices.
4. Understand the different upstream and downstream requirements for differing cell lines.

BENG6230 - Industrial Biotechnology and Biopharmaceuticals Entrepreneurship - 3 - Credits

Course Overview

Course Prefix
BENG

Course Number
6230

Department
Biological Engineering

Course Title
Industrial Biotechnology and Biopharmaceuticals Entrepreneurship

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
In this course, students learn biotech enterprise creation, from start-up to funding success. They explore how innovation and entrepreneurship in biomanufacturing drive sustainable production and the future of global health and bio-based industries.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Course Learning Objectives

Course Learning Outcomes

1. Assess intellectual property and regulatory considerations in bioproduct development.
2. Evaluate market potential and funding strategies for startup ventures.
3. Apply entrepreneurial frameworks to biomanufacturing case studies.

BENG6240 - Regulation cGMP & Quality Management Systems - 3 - Credits

Course Overview

Course Prefix
BENG

Course Number
6240

Department
Biological Engineering

Course Title
Regulation cGMP & Quality Management Systems

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Introduction to regulatory frameworks governing biomanufacturing, emphasizing current Good Manufacturing Practices (cGMP), quality assurance, quality control, documentation, and compliance systems necessary to meet Food and Drug Administration (FDA) and international standards.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Course Learning Objectives

Course Learning Outcomes

1. Interpret and apply FDA and International Council for Harmonisation (ICH) regulations in manufacturing settings
2. Design and evaluate quality management systems aligned with cGMP
3. Implement risk-based approaches and continuous improvement strategies
4. Demonstrate knowledge of documentation, deviation management, Quality Management Systems (QMS), and audits
5. Explain the regulatory requirements and quality control standards (e.g., cGMP, ICH guidelines) that govern upstream processing steps and documentation.

BENG6250 - Technical Writing in Life Sciences - 3 - Credits

Course Overview

Course Prefix
BENG

Course Number
6250

Department
Biological Engineering

Course Title
Technical Writing in Life Sciences

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
In this course, students develop professional writing and communication skills essential for the life sciences industry. They learn the creation of audit-ready compliance documents, SOPs, and batch records. Marketing documentation and presentation creation is emphasized.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Course Learning Objectives

Course Learning Outcomes

1. Develop and author cGMP-compliant documentation (SOPs, Batch Records, Validation Protocols) that is accurate, unambiguous, and suitable for regulatory audits
2. Apply principles of Root Cause and Risk Analysis to generate high-quality investigation reports and failure mode analysis documentation
3. Produce clear, concise Process Transfer Documentation to facilitate smooth and effective technical handover between development and manufacturing teams
4. Differentiate and create targeted professional communications, including both internal compliance reports and external-facing marketing content

BENG6260 - Downstream Processing for Biomanufacturing - 3 - Credits

Course Overview

Course Prefix
BENG

Course Number
6260

Department
Biological Engineering

Course Title
Downstream Processing for Biomanufacturing

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces principles and practices of downstream biomanufacturing, focusing on the recovery, separation, purification, and formulation of biological products. Students learn how to isolate and refine biomolecules to achieve desired purity, yield, and product quality attributes.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Course Learning Objectives

Course Learning Outcomes

1. Analyze and select appropriate downstream equipment and resins, considering cost, scale-up challenges, and future biopharma separation techniques
2. Develop an understanding of the overall workflow of downstream processing and be able to define and differentiate between key terminology and specific steps and be able to apply this knowledge to designing an end-to-end process
3. Understand regulations surrounding downstream processing and be able to identify common pitfalls in downstream processing relating to regulations
4. Evaluate emerging technologies such as PAT technologies and understand value.

BENG6310 - Microbial Fermentation - 3 - Credits

Course Overview

Course Prefix
BENG

Course Number
6310

Department
Biological Engineering

Course Title
Microbial Fermentation

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course integrates principles and applications of microbial fermentation for biomanufacturing. Students learn strain selection, bioreactor design, process control, scale-up, and downstream integration for a variety of bioproducts.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Course Learning Objectives

Course Learning Outcomes

1. Design and optimize microbial fermentation processes for target products
2. Understand and monitor bench-scale and large-scale fermenters using process analytical tools
3. Evaluate upstream process parameters affecting yield and productivity
4. Apply scale-up principles to industrial bioprocesses
5. Communicate with industry partners to receive training from SMEs in this field

BENG6320 - Monoclonal Antibody & Vaccine Production - 3 - Credits

Course Overview

Course Prefix
BENG

Course Number
6320

Department
Biological Engineering

Course Title
Monoclonal Antibody & Vaccine Production

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Comprehensive study of all process steps, Quality Control (QC), and regulatory pathways to successfully manufacture high-value biologics. This class focuses on monoclonal antibodies (mAbs), antibody-drug conjugates (ADCs), and various modern vaccine modalities. New biologic modalities are also covered.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Course Learning Objectives

Course Learning Outcomes

1. Analyze and contrast the end-to-end manufacturing processes for monoclonal antibodies, antibody-drug conjugates (ADCs), and viral vector vaccines
2. Evaluate the regulatory approval pathways for different classes of biologics and assess the impact of Quality by Design (QbD) principles on process development
3. Propose process design improvements to enhance yield, purity, and safety, specifically addressing the challenges of continuous manufacturing in this sector
4. Communicate with industry partners to receive training from SMEs in this field

BENG6330 - Agro-bioproduct, Biorefining, Biomanufacturing - 3 - Credits

Course Overview

Course Prefix
BENG

Course Number
6330

Department
Biological Engineering

Course Title
Agro-bioproduct, Biorefining, Biomanufacturing

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course examines biomanufacturing applications in agricultural and renewable resource industries. This includes biomass conversion, enzyme catalysis, food ingredients, biofuels and bioplastics production within circular bioeconomy frameworks.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Course Learning Objectives

Course Learning Outcomes

1. Analyze feedstock properties and conversion technologies for bio-based manufacturing
2. Design integrated biorefinery processes for agricultural bioproducts
3. Evaluate sustainability metrics and life-cycle impacts
4. Propose strategies for rural bioeconomy development
5. Communicate with industry partners to receive training from SMEs in this field

BENG6340 - Nutraceutical and Pharmaceutical Product Manufacturing - 3 - Credits

Course Overview

Course Prefix
BENG

Course Number
6340

Department
Biological Engineering

Course Title
Nutraceutical and Pharmaceutical Product Manufacturing

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course explores the cGMP principles and processing steps for small molecule drugs, nutraceuticals, and cosmetics. Students learn the formulation, blending, compression, and coating techniques required to manufacture diverse dosage forms like tablets, capsules, and powders.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Course Learning Objectives

Course Learning Outcomes

1. Design and optimize core manufacturing processes (blending, granulation, compression, encapsulation) for various pharmaceutical and nutraceutical dosage forms (tablets, capsules, powders)
2. Evaluate and mitigate common manufacturing challenges, including batch variability, cross-contamination, and degradation of active ingredients
3. Communicate with industry partners to receive training from SMEs in this field
4. Communicate with industry partners to receive training from SMEs in this field

BENG6350 - Medical Device & In-Vitro Diagnostic Substance Manufacturing - 3 - Credits

Course Overview

Course Prefix
BENG

Course Number
6350

Department
Biological Engineering

Course Title
Medical Device & In-Vitro Diagnostic Substance Manufacturing

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course explores the design, development, and manufacturing of medical devices and in-vitro diagnostic products under regulatory frameworks such as ISO 13485 and FDA's Quality System Regulation (21 CFR Part 820).

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Course Learning Objectives

Course Learning Outcomes

1. Understand the classification of medical device
2. Describe regulatory pathways for medical device and diagnostic approval
3. Apply design control and risk management principles to product development
4. Evaluate quality and validation requirements for manufacturing and testing
5. Assess compliance strategies for global device markets
6. Communicate with industry partners to receive training from SMEs in this field

BENG6370 - Biomanufacturing Laboratory Practicum - 3 - Credits

Course Overview

Course Prefix
BENG

Course Number
6370

Department
Biological Engineering

Course Title
Biomanufacturing Laboratory Practicum

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This intensive, two to three-week in-person module offers full bioprocess experience. Students select a microbial or mammalian track to execute an end-to-end bioprocess and gain hands on learning experience. Data obtained in the lab is analyzed and reported.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Course Learning Objectives

Course Learning Outcomes

1. Write and execute the protocol for a mammalian cell culture or fermentation
2. Assess data post run and offer recommendations on how process could be further improved
3. Apply aseptic principles learned in class to a laboratory setting

BENG6380 - Biomanufacturing Internship - 3 - 6 Credits

Course Overview

Course Prefix
BENG

Course Number
6380

Department
Biological Engineering

Course Title
Biomanufacturing Internship

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course provides supervised, hands-on experience in a real-world biomanufacturing environment. Students apply theoretical knowledge to real-world operations in fermentation, biotherapeutics, vaccines, purification, quality systems, or process development at industry sites.

Credit Hours

Credit Hours Min:
3

Credit Hours Max:
6

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
3

Contact Hours Max:
6

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
3

Billing Hours Max:
6

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
3

Lecture Hours Max:
6

Lecture Hours Operator:
TO

Special Approval
Advisor permission

Course Learning Objectives

Course Learning Outcomes

1. Apply biomanufacturing theory and technical skills in an industry setting
2. Demonstrate professional communication and teamwork in regulated environments
3. Reflect on quality and compliance practices observed during the internship
4. Prepare a professional report documenting project outcomes and competencies gained

BENG6500 - Systems Biology Modeling - 3 - Credits

Course Overview

Course Prefix
BENG

Course Number
6500

Department
Biological Engineering

Dual-Listed Courses
BENG5500 - Systems Biology Modeling

Course Title
Systems Biology Modeling

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Living organisms are composed of multiple cellular components that work in an integrated fashion to support life processes. This course introduces students to network concepts and mathematical approaches used to model a cell as an integrated system. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Registration Restrictions
Admission to a Biological Engineering graduate program.

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Earn a minimum grade of C- in the following:

- MATH2250 - Linear Algebra and Differential Equations (QI) **OR** MATH2270 - Linear Algebra (QI)
- CEE2450 - Computer Programming and Numerical Methods for Civil and Environmental Engineers **OR** CS1400 - Introduction to Computer Science--CS 1

BENG6510 - Graduate Seminar - 1 - Credits

Course Overview

Course Prefix
BENG

Course Number
6510

Department
Biological Engineering

Dual-Listed Courses
BENG7510 - Graduate Seminar

Course Title
Graduate Seminar

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Introduces graduate students to the current biological engineering research and applications in academia and industry.

Credit Hours

Credit Hours Min:
1

Contact Hours

Contact Hours Min:
1

Billing Hours

Billing Hours Min:
1

Lecture Hours

Lecture Hours Min:
1

No Requirements

BENG6540 - Physical and Chemical Environmental Process Engineering - 3 - Credits

Course Overview

Course Prefix
BENG

Course Number
6540

Department
Biological Engineering

Cross-Listed Courses
CEE6640 - Physical and Chemical Environmental Process Engineering

Course Title
Physical and Chemical Environmental Process Engineering

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Principles of physical and chemical environmental engineering processes, including sedimentation, filtration, gas transfer, aeration, absorption, ion exchange, membrane processes, coagulation, flocculation, precipitation, oxidation, reduction, and disinfection. Process modeling and analysis applications in treatment of water, wastewater, industrial wastes, vapor treatment, and soil remediation.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- CEE5610 - Environmental Quality Analysis
  OR CEE6610 - Environmental Quality Analysis
- CEE6630 - Process Dynamics in Environmental Engineering Systems

Course Learning Objectives

Course Learning Outcomes
same as for the established CEE 6640.

BENG6600 - Downstream Processes in Biological Engineering - 3 - Credits

Course Overview

Course Prefix
BENG

Course Number
6600

Department
Biological Engineering

Dual-Listed Courses
BENG5600 - Downstream Processes in Biological Engineering

Course Title
Downstream Processes in Biological Engineering

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers the purification of proteins and other soluble/insoluble products from biochemical and/or chemical process streams. It emphasizes physical-chemical separation processes based on density, size, solubility, molecular interactions, etc. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Earn a minimum grade of C- in the following:

- BENG3670 - Transport Phenomena in Bio-Environmental Systems
  OR CEE3670 - Transport Phenomena in Bio-Environmental Systems

BENG6610 - Food and Bioprocess Engineering - 3 - Credits

Course Overview

Course Prefix
BENG

Course Number
6610

Department
Biological Engineering

Cross-Listed Courses
NDFS6610 - Food and Bioprocess Engineering

Dual-Listed Courses
BENG5610 - Food and Bioprocess Engineering

Course Title
Food and Bioprocess Engineering

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers the standardization and compounding of biomaterials and food products, as well as preservation processing using heat, refrigeration, concentration, and dehydration. It also covers basic unit operations in the bioprocessing industry. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Earn a minimum grade of C- in the following:

- BENG3200 - Introduction to Unit Operations in Biological Engineering

BENG6620 - Metabolic Engineering I - 3 - Credits

Course Overview

Course Prefix
BENG

Course Number
6620

Department
Biological Engineering

Dual-Listed Courses
BENG5620 - Metabolic Engineering I

Course Title
Metabolic Engineering I

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course presents fundamental knowledge of cellular metabolic pathways, basic principles of metabolic engineering, metabolic flux analysis, regulation of metabolic pathways, metabolic engineering applications, and biosynthesis of primary/secondary metabolites. Students conduct experiments, participate in hands-on gene cloning and work with genetic engineering techniques. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Earn a minimum grade of C- in the following:

- CHEM3700 - Introductory Biochemistry
- MATH2250 - Linear Algebra and Differential Equations (QI)

BENG6630 - Synthetic Biological Engineering - 3 - Credits

Course Overview

Course Prefix
BENG

Course Number
6630

Department
Biological Engineering

Dual-Listed Courses
BENG5630 - Synthetic Biological Engineering

Course Title
Synthetic Biological Engineering

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Covers aspects of synthetic biological engineering, including overview of molecular biology and molecular cloning techniques, including PCR and analysis of nucleic acids and proteins. Introduces bioinformatics and practical use of these programs for biological design. Emphasizes principles of genetic engineering and use of standard biological parts and cellular engineering applications.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

BENG6640 - Biofuels - 3 - Credits

Course Overview

Course Prefix
BENG

Course Number
6640

Department
Biological Engineering

Dual-Listed Courses
BENG5640 - Biofuels

Course Title
Biofuels

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Biofuel potential as energy source, emphasis on biofuel impacts on the global environment and economy, and the role of biofuel towards sustainability. Evaluate factors driving biofuel policies and research. General discussion about fossil fuel, renewable energy forms, and availability of biomass feed stocks and their forms. Evaluate biofuel production from solid waste and wastewater systems.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Senior or Graduate student status

No Requirements

BENG6660 - Environmental Quality Analysis - 3 - Credits

Course Overview

Course Prefix
BENG

Course Number
6660

Department
Biological Engineering

Cross-Listed Courses
CEE5610 - Environmental Quality Analysis

Dual-Listed Courses
BENG5660 - Environmental Quality Analysis

Course Title
Environmental Quality Analysis

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Familiarizes students with various methods used for analysis of chemical parameters in environmental samples (water, soil, and air). Provides students with skills enabling them to make proper selection/evaluation of analytical procedure and evaluate data generated.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- CHEM1210 - Principles of Chemistry I

BENG6680 - Soil-based Waste Management - 2 - Credits

Course Overview

Course Prefix
BENG

Course Number
6680

Department
Biological Engineering

Cross-Listed Courses
CEE6680 - Soil-Based Waste Management

Dual-Listed Courses
BENG5680 - Soil-based Waste Management

Course Title
Soil-based Waste Management

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Engineering management of wastes present in the vadose zone, including extraction, containment, and biological, chemical, and physical destruction technologies for sustainable agriculture and environmental quality. Aspects include engineering characterization, problem definition, treatment, and monitoring. Analysis and design emphasized through problems, examinations, and report writing.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Registration Restrictions
Admission to Engineering graduate program.

No Requirements

BENG6790 - Protein Structure/Function and Purfication - 3 - Credits

Course Overview

Course Prefix
BENG

Course Number
6790

Department
Biological Engineering

Cross-Listed Courses
BIOL6790 - Protein Structure/Function and Purification, CHEM6790 - Protein Structure/Function and Purification

Dual-Listed Courses
BENG5790 - Protein Structure/Function and Purification

Course Title
Protein Structure/Function and Purfication

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Protein biosynthesis, modification, folding, structure, and stability, protein purification and protein analysis are discussed. Students develop an original research proposal through oral and written presentations. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Admission to the Biology, Biochemistry or Biological Engineering program.

Other Enrollment Recommendations
BIOL3300 GENERAL MICROBIOLOGY or CHEM3700 INTRO BIOCHEMISTRY or CHEM5700 GENERAL BIOCHEMISTRY I recommended

BENG6810 - Biochemical Engineering - 3 - Credits

Course Overview

Course Prefix
BENG

Course Number
6810

Department
Biological Engineering

Cross-Listed Courses
CEE6810 - Biochemical Engineering

Dual-Listed Courses
BENG5810 - Biochemical Engineering

Course Title
Biochemical Engineering

Grade Mode
Standard Letter

Repeat Status
NR

Course Description

This course covers fundamentals of bioreactor design and bioengineering to produce biological commodities. It emphasizes mathematical models of microbial and enzymatic processes in environmental and industrial biotechnology. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Fulfill ANY of the following requirements:

Option 1

Complete ALL of the following Courses:

- BENG3200 - Introduction to Unit Operations in Biological Engineering
- BENG3670 - Transport Phenomena in Bio-Environmental Systems

OR CEE3670 - Transport Phenomena in Bio-Environmental Systems

OR

Option 2

Complete ALL of the following Courses:

- BENG3670 - Transport Phenomena in Bio-Environmental Systems
  OR CEE3670 - Transport Phenomena in Bio-Environmental Systems
- CEE3610 - Environmental Management
  OR PUBH3610 - Environmental Management
- CEE3640 - Drinking Water Engineering

All prerequisite courses require a grade of C- or better

BENG6830 - Management and Utilization of Biological Solids and Wastewater - 3 - Credits

Course Overview

Course Prefix
BENG

Course Number
6830

Department
Biological Engineering

Cross-Listed Courses
CEE6830 - Management and Utilization of Biological Solids and Wastewater

Dual-Listed Courses
BENG5830 - Management and Utilization of Biological Solids and Wastewater

Course Title
Management and Utilization of Biological Solids and Wastewater

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Focuses on production, management, and disposal of biosolids and wastewater generated in food processing and wastewater treatment. Emphasizes beneficial use of biosolids and wastewater for agricultural production, forest enhancement, and land reclamation.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- BENG3200 - Introduction to Unit Operations in Biological Engineering
- BENG3670 - Transport Phenomena in Bio-Environmental Systems
  OR CEE3670 - Transport Phenomena in Bio-Environmental Systems
- CEE3610 - Environmental Management
  OR PUBH3610 - Environmental Management
- CEE3640 - Drinking Water Engineering

BENG6840 - Introduction to Biophotonics - 3 - Credits

Course Overview

Course Prefix
BENG

Course Number
6840

Department
Biological Engineering

Dual-Listed Courses
BENG5840 - Introduction to Biophotonics

Course Title
Introduction to Biophotonics

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Applications of light and tissues optical properties for the detection and diagnosis of protein, cell and tissues properties and pathologies. Scientific and engineering principles for developing techniques and devices that use light to probe cells and tissues. Optical and thermal aspects of the interactions between laser light and biological samples needed for microscopy, disease detection and surgical guidance. Overview of current topics and research.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Admission to a Biological Engineering graduate program.

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:
- MATH2250 - Linear Algebra and Differential Equations (QI)
- PHYS2210 - Physics for Scientists and Engineers I (QI/BPS)

BENG6850 - Biomaterials Engineering - 3 - Credits

Course Overview

Course Prefix
BENG

Course Number
6850

Department
Biological Engineering

Dual-Listed Courses
BENG5850 - Biomaterials Engineering

Course Title
Biomaterials Engineering

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students explore the identification and modification of properties of natural and artificial biomaterials. Students learn design of applications for by-product recovery and recycling, environmental, food processing, and biomedical industries. Topics include commercialization of biomaterial feed stocks, biotechnology output, and bioprocessing by-products into traditional and alternative products. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Corequisite

Type
Corequisite

Required

Enroll in the following Courses:
- BENG5020 - Biological Modeling and Controls

Prerequisite

Type
Prerequisite

Required

Earn a minimum grade of C- in the following:

- BENG2330 - Engineering Properties of Biological Materials

BENG6860 - Research Orientation and Planning - 2 - Credits

Course Overview

Course Prefix
BENG

Course Number
6860

Department
Biological Engineering

Dual-Listed Courses
BENG7860 - Research Orientation and Planning

Course Title
Research Orientation and Planning

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Promotes familiarization with departmental and graduate school rules, procedures, and research. Tools and techniques for writing research proposals and giving presentations.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

No Requirements

BENG6870 - Molecular and Cellular Bioengineering - 3 - Credits

Course Overview

Course Prefix
BENG

Course Number
6870

Department
Biological Engineering

Dual-Listed Courses
BENG5870 - Molecular and Cellular Bioengineering

Course Title
Molecular and Cellular Bioengineering

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students learn to use principles of engineering, biophysics, and molecular and cellular biology to reverse engineer molecular and cell components in order to engineer and use corresponding tools to detect, diagnose, treat and prevent diseases such as cancer, gene disorders, and infection. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- BENG3670 - Transport Phenomena in Bio-Environmental Systems
  OR CEE3670 - Transport Phenomena in Bio-Environmental Systems
- ENGR2450 - Numerical Methods for Engineers
  OR MAE2450 - Engineering Numerical Methods

- MATH2250 - Linear Algebra and Differential Equations (QI) **OR** MATH2270 - Linear Algebra (QI)
- MATH2280 - Ordinary Differential Equations (QI)

BENG6880 - BioMEMS: Microtechnology for BioMedical Research - 3 - Credits

Course Overview

Course Prefix
BENG

Course Number
6880

Department
Biological Engineering

Dual-Listed Courses
BENG5880 - BioMEMS: Microtechnology for BioMedical Research

Course Title
BioMEMS: Microtechnology for BioMedical Research

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This fundamental course for advanced undergraduate or entry-level graduate students in engineering or other interdisciplinary programs introduces micro-engineering concepts, techniques, and principles. It includes an overview of bio-microfluidics, tissue micro-engineering, biomedical microdevices, etc., through labs, simulations, and proposal development. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Earn a minimum grade of C- in the following:

- BENG3500 - Fluid Mechanics in Biological Engineering

BENG6890 - Tissue Engineering - 3 - Credits

Course Overview

Course Prefix
BENG

Course Number
6890

Department
Biological Engineering

Dual-Listed Courses
BENG5890 - Tissue Engineering

Course Title
Tissue Engineering

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces fundamentals of tissue engineering. It investigates engineering design strategies for artificial organs and treatments for disease disorders of nerves, blood vessels, bones, cartilage, skin, and the liver. It also explores of the use of stem cell gene therapy in tissue engineering.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Earn a minimum grade of C- in the following:

- BENG2330 - Engineering Properties of Biological Materials

BENG6910 - Introduction to Biosensors - 3 - Credits

Course Overview

Course Prefix
BENG

Course Number
6910

Department
Biological Engineering

Dual-Listed Courses
BENG5910 - Introduction to Biosensors

Course Title
Introduction to Biosensors

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers scientific principles of biologically-based sensing elements, interfacing techniques, and the engineering perspectives of sensing and transducer devices. Biophotonic detection of molecular and cellular components and the applications of biosensors in the field of human health, agriculture, and bioenergy are also covered. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Earn a minimum grade of C- in the following:

- BENG2330 - Engineering Properties of Biological Materials

BENG6930 - Special Problems - 1 - 4 Credits

Course Overview

Course Prefix
BENG

Course Number
6930

Department
Biological Engineering

Course Title
Special Problems

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Independent study of problems in biological and agricultural engineering.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
4

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
4

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
4

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
4

Lecture Hours Operator:
TO

No Requirements

BENG6970 - Thesis Research - 1 - 10 Credits

Course Overview

Course Prefix
BENG

Course Number
6970

Department
Biological Engineering

Course Title
Thesis Research

Grade Mode
Temporary Pass/Fail

Repeat Status
RP

Course Description
Credit for MS research and report requirements.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
10

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
10

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
10

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
10

Lecture Hours Operator:
TO

No Requirements

BENG6990 - Continuing Graduate Advisement for MS Students - 1 - 9 Credits

Course Overview

Course Prefix
BENG

Course Number
6990

Department
Biological Engineering

Course Title
Continuing Graduate Advisement for MS Students

Grade Mode
Temporary Pass/Fail

Repeat Status
RP

Course Description
This course provides graduate students with continued support and advisement. It is usually taken following completion of all coursework required for the degree.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
9

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
9

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
9

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
9

Lecture Hours Operator:
TO

No Requirements

BENG7310 - The Secret Life of Biofilms: Engineering Principles and Research - 3 - Credits

Course Overview

Course Prefix
BENG

Course Number
7310

Department
Biological Engineering

Course Title
The Secret Life of Biofilms: Engineering Principles and Research

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Introduces biofilm research and development of quantitative descriptions of microbial growth processes, diffusive and convective solute transport, and cell attachment and detachment. Application of these approaches to the analysis of biofilms in diverse industrial, medical and natural environments is discussed.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Registration Restrictions
Admission to Biological Engineering - PhD

Course Learning Objectives

Course Learning Outcomes
1. Understanding Fundamental Principles of Biofilms: Students will demonstrate a comprehensive understanding of the common constituents of biofilms and their significance, enabling them to analyze microbial growth in batch and chemostat systems using kinetic models. They will be able to discuss the role of transport phenomena in biofilm function and calculate diffusion time scales, interpreting their implications for diffusion limitations.
2. Knowledge of Biofilm Significance and Key Issues: Students will develop a nuanced understanding of the significance of biofilms across various contexts, including drinking water, medicine, microbially influenced corrosion, bioremediation, wastewater treatment, and biofouling. They will be equipped to identify and articulate key issues related to biofilm management and control.
3. Appreciation of Landmark Research: Students will gain insight into landmark papers in biofilm research, allowing them to obtain a broader appreciation for the

evolution of biofilm science and its impact on various fields.
4. Effective Communication of Technical Information: Students will practice tailoring their communication styles to engage different audiences, from academic peers to industry professionals and the general public.

BENG7330 - Advanced Transport Phenomena - 3 - Credits

Course Overview

Course Prefix
BENG

Course Number
7330

Department
Biological Engineering

Course Title
Advanced Transport Phenomena

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course builds on fundamentals of momentum, heat, and mass transfer phenomena. Prepares students to model systems and processes involving a variety of chemical, physical, and biological phenomena.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ANY of the following Courses:

- BENG3500 - Fluid Mechanics in Biological Engineering
  OR BENG3670 - Transport Phenomena in Bio-Environmental Systems

Course Learning Objectives

Course Learning Outcomes

1. Identify, formulate, and solve engineering problems related to thermodynamics, fluid mechanics, heat, and mass transfer and use this knowledge to design and operate chemical and biological separation processes and reactors.

2. Apply knowledge of engineering, mathematics, and science to analyze factors that are important in the design, operation, performance, and monitoring of chemical and biological processes.

BENG7510 - Graduate Seminar - 1 - Credits

Course Overview

Course Prefix
BENG

Course Number
7510

Department
Biological Engineering

Dual-Listed Courses
BENG6510 - Graduate Seminar

Course Title
Graduate Seminar

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Introduces graduate students to the current biological engineering research and applications in academia and industry.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

No Requirements

BENG7600 - Advanced Research Topics - 3 - Credits

Course Overview

Course Prefix
BENG

Course Number
7600

Department
Biological Engineering

Course Title
Advanced Research Topics

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Study of advanced biological and engineering topics. Analysis of project scale water management issues, software development, crop modeling, advanced drainage systems, remote sensing, groundwater systems, and other topics taken from the research interests of the faculty.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

PhD enrollment

No Requirements

BENG7860 - Research Orientation and Planning - 2 - Credits

Course Overview

Course Prefix
BENG

Course Number
7860

Department
Biological Engineering

Dual-Listed Courses
BENG6860 - Research Orientation and Planning

Course Title
Research Orientation and Planning

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Promotes familiarization with departmental and graduate school rules, procedures, and research. Tools and techniques for writing research proposals and giving presentations.

Credit Hours

Credit Hours Min:
2

Contact Hours

Contact Hours Min:
2

Billing Hours

Billing Hours Min:
2

Lecture Hours

Lecture Hours Min:
2

No Requirements

BENG7960 - Supervised Teaching - 1 - 3 Credits

Course Overview

Course Prefix
BENG

Course Number
7960

Department
Biological Engineering

Course Title
Supervised Teaching

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Faculty members mentor PhD students in teaching and in understanding principles of pedagogy, including: (1) planning/organizing lectures and other teaching activities, (2) conducting teaching/instruction activities, (3) involvement in grading student work, and (4) assessment of activities by faculty mentor.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

No Requirements

BENG7970 - Dissertation Research - 1 - 10 Credits

Course Overview

Course Prefix
BENG

Course Number
7970

Department
Biological Engineering

Course Title
Dissertation Research

Grade Mode
Temporary Pass/Fail

Repeat Status
RP

Course Description
This course consists of individual work on research problems for students enrolled in doctoral programs.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
10

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
10

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
10

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
10

Lecture Hours Operator:
TO

No Requirements

BENG7990 - Continuing Graduate Advisement for PhD Students - 1 - 9 Credits

Course Overview

Course Prefix
BENG

Course Number
7990

Department
Biological Engineering

Course Title
Continuing Graduate Advisement for PhD Students

Grade Mode
Temporary Pass/Fail

Repeat Status
RP

Course Description
This course provides graduate students with continued support and advisement. It is usually taken following completion of all coursework required for the degree.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
9

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
9

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
9

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
9

Lecture Hours Operator:
TO

No Requirements

BHIS1010 - Medical Coding Theory I - 3 - Credits

Course Overview

Course Prefix
BHIS

Course Number
1010

Department
Technology, Design & Technical Ed

Course Title
Medical Coding Theory I

Grade Mode
Standard Letter

Repeat Status
NR

Course Description

This course introduces the fundamentals of basic medical coding. It covers medical coding compliance and documentation issues and provides a foundational understanding of the guidelines and procedures for ICD-10-CM, CPT and HCPCS coding. Quizzes and exams simulate national certification exams.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Corequisite

Type
Corequisite

Required

Complete ALL of the following Courses:

- BHIS1015 - Medical Coding Applications I

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- HEAL1008 - Medical Terminology

BHIS1015 - Medical Coding Applications I - 1 - Credits

Course Overview

Course Prefix
BHIS

Course Number
1015

Department
Technology, Design & Technical Ed

Course Title
Medical Coding Applications I

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
In this course, students integrate theoretical knowledge with practical medical coding situations. Students demonstrate increased knowledge, develop high proficiency levels, apply medical coding skills and practice coding provider-based scenarios in the specialty areas covered in BHIS 1010.

Credit Hours

Credit Hours Min:
1

Contact Hours

Contact Hours Min:
1

Billing Hours

Billing Hours Min:
1

Lecture Hours

Lecture Hours Min:
1

Simple Requisites

Corequisite

Type
Corequisite

Required

Enroll in the following Courses:

- BHIS1010 - Medical Coding Theory I

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- HEAL1008 - Medical Terminology

BHIS1020 - Medical Coding Theory II - 3 - Credits

Course Overview

Course Prefix
BHIS

Course Number
1020

Department
Technology, Design & Technical Ed

Course Title
Medical Coding Theory II

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Continuation of Medical Coding Theory I. At the completion of the course, the student will be eligible to take the Certified Professional Coder (CPC) national certification exam from the American Academy of Professional Coders (AAPC).

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Corequisite

Type
Corequisite

Required

Enroll in the following Courses:

- BHIS1025 - Medical Coding Applications II

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- BHIS1010 - Medical Coding Theory I
- BHIS1015 - Medical Coding Applications I

BHIS1025 - Medical Coding Applications II - 1 - Credits

Course Overview

Course Prefix
BHIS

Course Number
1025

Department
Technology, Design & Technical Ed

Course Title
Medical Coding Applications II

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
The applications experience enables medical coding students to integrate theory with practical scenarios, demonstrating increased knowledge and proficiency. Guided by certified coders, students refine skills while working with numerous provider-based cases, enhancing competence and readiness for professional coding practice.

Credit Hours

Credit Hours Min:
1

Contact Hours

Contact Hours Min:
1

Billing Hours

Billing Hours Min:
1

Lecture Hours

Lecture Hours Min:
1

Simple Requisites

Corequisite

Type
Corequisite

Required

Enroll in the following Courses:
- BHIS1020 - Medical Coding Theory II

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:
- BHIS1010 - Medical Coding Theory I
- BHIS1015 - Medical Coding Applications I

BHIS2010 - Advanced E/M Coding - 3 - Credits

Course Overview

Course Prefix
BHIS

Course Number
2010

Department
Technology, Design & Technical Ed

Course Title
Advanced E/M Coding

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Course provides foundational coding mastery as the first step in advanced medical coding career preparation. Emphasizes Evaluation and Management (E/M) coding, documentation, chart note formatting, and coding guidelines, with repeated practice on authentic medical charts to refine skills and expertise.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Corequisite

Type
Corequisite

Corequisite

Enroll in the following Courses:
- BHIS2015 - Virtual Medical Coding for E/M

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:
- BHIS1010 - Medical Coding Theory I
- BHIS1015 - Medical Coding Applications I
- BHIS1020 - Medical Coding Theory II
- BHIS1025 - Medical Coding Applications II

BHIS2015 - Virtual Medical Coding for E/M - 1 - Credits

Course Overview

Course Prefix
BHIS

Course Number
2015

Department
Technology, Design & Technical Ed

Course Title
Virtual Medical Coding for E/M

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Virtual Medical Coding I introduces students to web-based coding applications, analyzing and coding authentic medical records. The course emphasizes mastery of Evaluation and Management (E/M) coding, providing practical experience in a real-world, virtual medical coding environment.

Credit Hours

Credit Hours Min:
1

Contact Hours

Contact Hours Min:
1

Billing Hours

Billing Hours Min:
1

Lecture Hours

Lecture Hours Min:
1

Simple Requisites

Corequisite

Type
Corequisite

Required

Enroll in the following Courses:

- BHIS2010 - Advanced E/M Coding

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- BHIS1010 - Medical Coding Theory I
- BHIS1015 - Medical Coding Applications I
- BHIS1020 - Medical Coding Theory II
- BHIS1025 - Medical Coding Applications II

BHIS2020 - Advanced Topics in Medical Coding - 3 - Credits

Course Overview

Course Prefix
BHIS

Course Number
2020

Department
Technology, Design & Technical Ed

Course Title
Advanced Topics in Medical Coding

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides advanced medical coding mastery, focusing on specialty areas such as Diagnostic Radiology, Orthopedics, HCC, or Emergency Department, determined by industry demand. Covers theoretical and practical issues, with students coding authentic medical charts to enhance applied expertise.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Corequisite

Type
Corequisite

Required

Enroll in the following Courses:

- BHIS2025 - Virtual Medical Coding for Advanced Topics

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- BHIS1010 - Medical Coding Theory I
- BHIS1015 - Medical Coding Applications I
- BHIS1025 - Medical Coding Applications II
- BHIS2010 - Advanced E/M Coding
- BHIS2015 - Virtual Medical Coding for E/M

BHIS2025 - Virtual Medical Coding for Advanced Topics - 1 - Credits

Course Overview

Course Prefix
BHIS

Course Number
2025

Department
Technology, Design & Technical Ed

Course Title
Virtual Medical Coding for Advanced Topics

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Virtual Medical Coding II transitions students to a remote medical coding environment, refining skills from Advanced Topics in Medical Coding. Students code authentic medical charts under guidance of a certified coder in a simulated, work-replicated virtual setting, enhancing practical expertise.

Credit Hours

Credit Hours Min:
1

Contact Hours

Contact Hours Min:
1

Billing Hours

Billing Hours Min:
1

Lecture Hours

Lecture Hours Min:
1

Simple Requisites

Corequisite

Type
Corequisite

Required

Enroll in the following Courses:

- BHIS2020 - Advanced Topics in Medical Coding

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- BHIS1010 - Medical Coding Theory I
- BHIS1015 - Medical Coding Applications I
- BHIS1020 - Medical Coding Theory II
- BHIS1025 - Medical Coding Applications II
- BHIS2010 - Advanced E/M Coding
- BHIS2015 - Virtual Medical Coding for E/M

BHIS2030 - Advanced ICD-9-CM Coding II - 1 - Credits

Course Overview

Course Prefix
BHIS

Course Number
2030

Department
Technology, Design & Technical Ed

Course Title
Advanced ICD-9-CM Coding II

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides an in-depth review of ICD-9-CM coding guidelines and procedures, focusing on diseases in the manual. Students enhance proficiency in anatomy, pathophysiology, and differentiation of diagnosis codes, covering the first half of ICD-9-CM for Physicians Volumes 1 and 2.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- BHIS1010 - Medical Coding Theory I
- BHIS1015 - Medical Coding Applications I
- BHIS1020 - Medical Coding Theory II
- BHIS1025 - Medical Coding Applications II

BHIS2035 - Advanced ICD-9-CM Coding II - 1 - Credits

Course Overview

Course Prefix
BHIS

Course Number
2035

Department
Technology, Design & Technical Ed

Course Title
Advanced ICD-9-CM Coding II

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course is a continuation of Advanced ICD-9-CM Coding I, covering the second half of ICD-9-CM for Physicians Volumes 1 and 2. Students review coding guidelines, anatomy, and pathophysiology, refining skills to differentiate diagnosis codes, conditions, and coding levels accurately.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- BHIS2030 - Advanced ICD-9-CM Coding II

BHIS2040 - Medical Coding Health Care Specialties - 1 - Credits

Course Overview

Course Prefix
BHIS

Course Number
2040

Department
Technology, Design & Technical Ed

Course Title
Medical Coding Health Care Specialties

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course offers students mastery in a medical coding specialty, such as Cardiology, Orthopedics, Family Practice, or Oncology. Covers theoretical and practical issues, ICD-9-CM and E/M coding, authentic chart exercises, and prepares students for national certification in their chosen specialty.

Credit Hours

Credit Hours Min:
1

Contact Hours

Contact Hours Min:
1

Billing Hours

Billing Hours Min:
1

Lecture Hours

Lecture Hours Min:
1

Special Approval

Instructor permission

No Requirements

BHIS2988 - Special Problems - 1 - 3 Credits

Course Overview

Course Prefix
BHIS

Course Number
2988

Department
Technology, Design & Technical Ed

Course Title
Special Problems

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Individual or group project in medical coding is arranged with a faculty member. Students establish learning objectives, goals, and a credit agreement at the semester's start, then meet periodically with faculty to review progress, ensuring meaningful application of medical coding knowledge.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

Special Approval

Instructor permission

No Requirements

BHIS2999 - Workshop - 1 - 3 Credits

Course Overview

Course Prefix
BHIS

Course Number
2999

Department
Technology, Design & Technical Ed

Course Title
Workshop

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
A course designed to meet the changing needs of the student and work professional in medical coding.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

Special Approval

Instructor permission

No Requirements

BIOL1010 - Biology and the Citizen (BLS) - 3 - Credits

Course Overview

Course Prefix
BIOL

Course Number
1010

Department
Biology

Course Title
Biology and the Citizen (BLS)

General Education Attribute
BLS

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Principles and methods of biology and how they impact the daily life and environment of the individual.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

BIOL1030 - Medical College Admissions Test (MCAT) Preparation - 1 - Credits

Course Overview

Course Prefix
BIOL

Course Number
1030

Department
Biology

Course Title
Medical College Admissions Test (MCAT) Preparation

Grade Mode
Pass/Fail

Repeat Status
NR

Course Description
Classroom instruction, tutorials, and readings to review material expected to be covered on the MCAT. Several Saturday practice exams are scheduled.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

No Requirements

BIOL1040 - Dental Admissions Test (DAT) Preparation - 1 - Credits

Course Overview

Course Prefix
BIOL

Course Number
1040

Department
Biology

Course Title
Dental Admissions Test (DAT) Preparation

Grade Mode
Pass/Fail

Repeat Status
NR

Course Description
Classroom instruction, tutorials, and readings to review material expected to be covered on the DAT. Several Saturday practice exams are scheduled.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

No Requirements

BIOL1050 - Biology Professions - 1 - Credits

Course Overview

Course Prefix
BIOL

Course Number
1050

Department
Biology

Course Title
Biology Professions

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Career exploration in biology professions. Weekly presentation on career possibilities by professional biologists and development of career related skills, including exploring graduate school admission requirements, resume preparation, developing professional networks, and investigation of research and internship opportunities.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

No Requirements

BIOL1060 - Prehealth Professions - 1 - Credits

Course Overview

Course Prefix
BIOL

Course Number
1060

Department
Biology

Course Title
Prehealth Professions

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Career exploration in prehealth professions. Weekly presentations on careers by health professionals and development of career related skills, including exploring professional school admission requirements, honing professional school applications, investigation of research and professional shadowing opportunities.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

No Requirements

BIOL1065 - Pre-Health Seminar - 1 - Credits

Course Overview

Course Prefix
BIOL

Course Number
1065

Department
Biology

Course Title
Pre-Health Seminar

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course offers weekly presentations on topics related to healthcare and pre-health learning strategies.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- BIOL1060 - Prehealth Professions

Course Learning Objectives

Course Learning Outcomes

1. Provide engagement with issues in healthcare and learning strategies.

2. Provide needed service, patient exposure, undergraduate research, job shadowing and leadership in the community.

3. Connect service-based learning to academic studies.

4. Expose students to speakers with expertise in healthcare and prehealth studies.

5. Offer prehealth students a weekly online class to fit into schedules at their convenience.

BIOL1610 - Biology I - 3 - Credits

Course Overview

Course Prefix
BIOL

Course Number
1610

Department
Biology

Course Title
Biology I

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Principles of cell biology, energetics, and genetics; plant structure, function, and development. Three lectures.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

BIOL1615 - Biology I Laboratory - 1 - Credits

Course Overview

Course Prefix
BIOL

Course Number
1615

Department
Biology

Course Title
Biology I Laboratory

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This is an investigative laboratory course with projects emphasizing genetics, cell, and molecular biology. Students ask and answer authentic biological questions while developing the skills and competencies needed for biological research.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

BIOL1620 - Biology II (BLS) - 3 - Credits

Course Overview

Course Prefix
BIOL

Course Number
1620

Department
Biology

Course Title
Biology II (BLS)

General Education Attribute
BLS

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Animal structure, function, and development; principles of evolution, ecology, and behavior. Three lectures.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- BIOL1610 - Biology I

BIOL1625 - Biology II Laboratory - 1 - Credits

Course Overview

Course Prefix
BIOL

Course Number
1625

Department
Biology

Course Title
Biology II Laboratory

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This is an investigative laboratory course with projects emphasizing ecology, evolution, and behavior. Students ask and answer authentic biological questions while developing the skills and competencies needed for biological research.

Credit Hours

Credit Hours Min:
1

Contact Hours

Contact Hours Min:
1

Billing Hours

Billing Hours Min:
1

Lecture Hours

Lecture Hours Min:
1

BIOL1750 - Topics in Biology - 1 - 3 Credits

Course Overview

Course Prefix
BIOL

Course Number
1750

Department
Biology

Course Title
Topics in Biology

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course allows an exploration of topics that are not part of the standard curriculum.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

No Requirements

BIOL2060 - Elementary Microbiology - 4 - Credits

Course Overview

Course Prefix
BIOL

Course Number
2060

Department
Biology

Course Title
Elementary Microbiology

Grade Mode
Standard Letter

Repeat Status
NR

Course Description

Students study the biology and role of microorganisms in the world around us, with emphasis on their contributions to human disease. The course includes lectures and an integral laboratory component. It is not intended for biology majors.

Credit Hours

Credit Hours
Min:
4

Contact Hours

Contact Hours
Min:
4

Billing Hours

Billing Hours
Min:
4

Lecture Hours

Lecture Hours
Min:
4

Simple Requisites

Prerequsite

Type
Prerequisite

Course Option

Prerequisite may be fulfilled by either completion of course or exam.

Fulfill ANY of the following requirements:

Course Option

Complete ANY of the following Courses:

- BIOL1010 - Biology and the Citizen (BLS)
- BIOL1610 - Biology I
- BIOL2320 - Human Anatomy
- BIOL2420 - Human Physiology
- CHEM1010 - Introduction to Chemistry (BPS)
- CHEM1110 - General Chemistry I (BPS)
- CHEM1210 - Principles of Chemistry I
- HEAL1500 - Anatomy and Physiology (BLS)
- USU1350 - Integrated Life Science (BLS)

OR

Exam Option

Fulfillment of Advanced Placement (AP) exam with a score of 3 or higher.

- AP Biology or Chemistry

BIOL2220 - General Ecology - 3 - Credits

Course Overview

Course Prefix
BIOL

Course Number
2220

Department
Biology

Cross-Listed Courses
WATS2220 - General Ecology

Course Title
General Ecology

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Study of the interrelationships among organisms and their environments, addressing where and how organisms live. Adaptation, population growth, species interactions, biodiversity, and ecosystem function are explored for a wide variety of organisms and ecosystems.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- BIOL1610 - Biology I
  AND BIOL1620 - Biology II (BLS)

BIOL1620 BIOLOGY II (BLS) may be taken concurrently.

BIOL2320 - Human Anatomy - 4 - Credits

Course Overview

Course Prefix
BIOL

Course Number
2320

Department
Biology

Course Title
Human Anatomy

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Study of the human body, with emphasis on the structure of each of the body's essential organ systems. Three lectures, one lab. As preparation for this course, it is highly recommended that students have a background in basic biology and/or human biology.

Credit Hours

Credit Hours
Min:
4

Contact Hours

Contact Hours
Min:
4

Billing Hours

Billing Hours
Min:
4

Lecture Hours

Lecture Hours
Min:
4

No Requirements

BIOL2420 - Human Physiology - 4 - Credits

Course Overview

Course Prefix
BIOL

Course Number
2420

Department
Biology

Course Title
Human Physiology

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers the functioning of the human body, with emphasis on major organ systems. Medical and athletic examples are used to illustrate important concepts. The course includes three lectures and one lab per week.

Credit Hours

Credit Hours
Min:
4

Contact Hours

Contact Hours
Min:
4

Billing Hours

Billing Hours
Min:
4

Lecture Hours

Lecture Hours
Min:
4

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Fulfill ANY of the following requirements:

Required

Complete at least 1 of the following courses:

- BIOL1010 - Biology and the Citizen (BLS)
  OR BIOL1610 - Biology I
  OR BIOL2060 - Elementary Microbiology
  OR BIOL2320 - Human Anatomy
  OR CHEM1010 - Introduction to Chemistry (BPS)
  OR CHEM1110 - General Chemistry I (BPS)
  OR CHEM1210 - Principles of Chemistry I
  OR USU1350 - Integrated Life Science (BLS)

OR AP Biology or AP Chemistry with a score of 3 or higher

BIOL2520 - Pathophysiology - 3 - Credits

Course Overview

Course Prefix
BIOL

Course Number
2520

Department
Biology

Course Title
Pathophysiology

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Promotes an understanding of disease and dysfunctional variations of normal health across the body.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Earn a minimum grade of C in the following:

- BIOL2320 - Human Anatomy
  AND BIOL2420 - Human Physiology

BIOL2988 - Special Problems - 1 - 3 Credits

Course Overview

Course Prefix
BIOL

Course Number
2988

Department
Biology

Course Title
Special Problems

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Enables an individual to probe/study a biological topic of specific interest. The topic must be approved by a supervising instructor. Time and credit to be arranged.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

No Requirements

BIOL3020 - Evolutionary Biology - 3 - Credits

Course Overview

Course Prefix
BIOL

Course Number
3020

Department
Biology

Course Title
Evolutionary Biology

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Designed for Biology majors, this course emphasizes microevolutionary mechanisms of change and their connection to large-scale macroevolutionary patterns. Current topics emphasize how modern scientists study evolution and the processes and patterns that produced the diversity of life on Earth.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- BIOL1610 - Biology I
  AND BIOL1615 - Biology I Laboratory
  AND BIOL1620 - Biology II (BLS)
  AND BIOL1625 - Biology II Laboratory

BIOL3030 - Genetics and Society (DSC) - 3 - Credits

Course Overview

Course Prefix
BIOL

Course Number
3030

Department
Biology

Course Title
Genetics and Society (DSC)

General Education Attribute
DSC

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Course for non-science majors. Addresses basic genetic principles applicable to humans and contemporary issues in human genetics as well as ethical and social implications of advances in genetics.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Not open to biology majors or to those with credit in BIOL3060 PRIN OF GENETICS (QI)

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ANY of the following Courses:
- BIOL1010 - Biology and the Citizen (BLS)
  OR BIOL1610 - Biology I
  OR USU1350 - Integrated Life Science (BLS)
  OR HONR1350 - Integrated Life Science (H)(BLS)

OR AP Biology with a score of 3 or greater.

BIOL3050 - Organismal Biology with Physiology - 3 - Credits

Course Overview

Course Prefix
BIOL

Course Number
3050

Department
Biology

Course Title
Organismal Biology with Physiology

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course uses information from diverse disciplines in the life sciences to provide a comprehensive understanding of organisms as integrated units of biological organization. Students learn about physiological systems from an evolutionary perspective.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:
- BIOL1610 - Biology I
- BIOL1620 - Biology II (BLS)
- CHEM1110 - General Chemistry I (BPS)
  OR CHEM1210 - Principles of Chemistry I

BIOL3055 - Organismal Biology with Physiology Laboratory (CI) - 2 - Credits

Course Overview

Course Prefix
BIOL

Course Number
3055

Department
Biology

Course Title
Organismal Biology with Physiology Laboratory (CI)

General Education Attribute
CI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This lab course allows students to apply the behavioral, developmental, neural, physiological and structural systems knowledge they acquire in the Organismal Biology with Physiology lecture-style course to the scientific process.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- BIOL1610 - Biology I
  AND BIOL1615 - Biology I Laboratory
- BIOL1620 - Biology II (BLS)
  AND BIOL1625 - Biology II Laboratory
- CHEM1210 - Principles of Chemistry I
- STAT2000 - Statistical Methods (QI)
  OR STAT3000 - Statistics for Scientists (QI)
- BIOL3050 - Organismal Biology with Physiology

BIOL 3050 may be taken concurrently

BIOL3060 - Principles of Genetics (QI) - 3 - Credits

Course Overview

Course Prefix
BIOL

Course Number
3060

Department
Biology

Course Title
Principles of Genetics (QI)

General Education Attribute
QI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides an introduction to the transmission, population, and molecular aspects of modern genetics.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- BIOL1610 - Biology I
- CHEM1110 - General Chemistry I (BPS)
  OR CHEM1210 - Principles of Chemistry I

Note: BIOL1610 BIOLOGY I and BIOL3060 PRIN OF GENETICS (QI) option for BLS credit is available only to students in the Bioinformatics Emphasis of the Computer Science Major.

BIOL3065 - Genetics Laboratory (CI) - 2 - Credits

Course Overview

Course Prefix
BIOL

Course Number
3065

Department
Biology

Course Title
Genetics Laboratory (CI)

General Education Attribute
CI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers an experimental approach to genetics using bacteria, fungi, plants, insects, and humans. Students are introduced to several computer and laboratory techniques, and design many of the experiments.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Course Requirements
PREREQUISITES
Course Number 1615, Subject Code BIOL, Level UG, Grade UG; AND Course Number 1625, Subject Code BIOL, Level UG, Grade UG; AND Course Number 3060, Subject Code BIOL, Level UG, Grade UG [Concurrent]

BIOL3070 - Computational Approaches to Biology - 3 - Credits

Course Overview

Course Prefix
BIOL

Course Number
3070

Department
Biology

Course Title
Computational Approaches to Biology

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers the fundamentals of how computers are used in biological investigations. Concepts covered include computational statistics and data analysis, simulation of biological systems, bioinformatics, and elements of programming. A background of statistical knowledge is recommended for this course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Admission to Biology majors only

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- BIOL1610 - Biology I
  AND BIOL1620 - Biology II (BLS)
- STAT2000 - Statistical Methods (QI)
  OR STAT3000 - Statistics for Scientists (QI)
- MATH1060 - Trigonometry
  OR MATH1210 - Calculus I (QL)

or higher Math course

BIOL3085 - Ecology Laboratory (CI) - 2 - Credits

Course Overview

Course Prefix
BIOL

Course Number
3085

Department
Biology

Course Title
Ecology Laboratory (CI)

General Education Attribute
CI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description

Students perform authentic ecology research projects using methods of modern ecology in field and laboratory settings. The course emphasizes oral and written science communication skills.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- BIOL1610 - Biology I
  AND BIOL1615 - Biology I Laboratory
- BIOL1620 - Biology II (BLS)
  AND BIOL1625 - Biology II Laboratory
- MATH1100 - Calculus Techniques (QL)
  OR MATH1210 - Calculus I (QL)
- STAT2000 - Statistical Methods (QI)
  OR STAT3000 - Statistics for Scientists (QI)
- BIOL2220 - General Ecology

BIOL 2220 may be taken concurrently

BIOL3090 - Molecular, Cellular, and Developmental Biology - 3 - Credits

Course Overview

Course Prefix
BIOL

Course Number
3090

Department
Biology

Course Title
Molecular, Cellular, and Developmental Biology

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides a survey of major topics in molecular, cellular, and developmental biology and introduces some of the fundamental studies that gave rise to this knowledge.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Completion Requirement

Required

Complete ALL of the following Courses:

- BIOL1620 - Biology II (BLS)

Chemistry Option

Complete ANY of the following Courses:

- CHEM1210 - Principles of Chemistry I
  OR CHEM1120 - General Chemistry II (BPS)

BIOL3095 - Molecular, Cellular, and Developmental Biology Laboratory (CI) - 2 - Credits

Course Overview

Course Prefix
BIOL

Course Number
3095

Department
Biology

Course Title
Molecular, Cellular, and Developmental Biology Laboratory (CI)

General Education Attribute
CI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students are trained in experimental techniques of molecular, cellular, and developmental biology, introduced to model organisms, and collaborate with peers in the design, execution, and communication of authentic research projects.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Registration Restrictions

Admission to Biology Majors only

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- BIOL1615 - Biology I Laboratory
  AND BIOL1625 - Biology II Laboratory
- BIOL3090 - Molecular, Cellular, and Developmental Biology

BIOL 3090 may be taken concurrently

BIOL3100 - Bioethics (CI) - 3 - Credits

Course Overview

Course Prefix
BIOL

Course Number
3100

Department
Biology

Course Title
Bioethics (CI)

General Education Attribute
CI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Discussion of current controversial ethical issues in medicine, animal rights, and environmental conservation.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

BIOL3150 - Quantitative Modeling of Life - 3 - Credits

Course Overview

Course Prefix
BIOL

Course Number
3150

Department
Biology

Cross-Listed Courses
MATH3150 - Quantitative Modeling of Life

Course Title
Quantitative Modeling of Life

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces students to complex systems and mathematical modeling approaches that can be used across disciplines to address social and environmental issues. Students engage in the modeling process to address specific issues in sociology, ecology, public health, and conservation.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Completion Requirement

Required

Complete ANY of the following Courses:

- MATH1210 - Calculus I (QL)
  OR MATH1100 - Calculus Techniques (QL)

OR AP Calculus exam with a score of 3 or higher.

Course Learning Objectives

Course Learning Outcomes

1. Choose and apply mathematics to analyze particular situations.

2. Simplify complex situations, and pose new questions.

3. Write clear explanations of models identifying variables, explaining relationships, and justifying assumptions.

4. Use data visualizations and mathematical calculations in reports of model results.

5. Compare and contrast various mathematical models identifying strengths and limitations.

6. Reflect on the process of mathematical modeling.

7. Interpret model implications and make recommendations based on analysis.

8. Gain appreciation of mathematical modeling in the life sciences and be inspired to learn more.

BIOL3300 - General Microbiology - 3 - Credits

Course Overview

Course Prefix
BIOL

Course Number
3300

Department
Biology

Course Title
General Microbiology

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Students learn about biology, ecology, and diversity of microorganisms. Emphasis is placed on bacteria, viruses, fungi, and protists, and their role in the environment. It consists of lectures and labs.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequiste

Type
Prerequisite

Required

Fulfill ALL of the following requirements:

Biology Course Prerequisite

Earn a minimum grade of C- in the following:

- BIOL1610 - Biology I
- BIOL1615 - Biology I Laboratory

AND

Chemistry Course Prerequisites

Any of the courses below may be taken concurrently with BIOL3300 GENERAL MICROBIOLOGY.

Complete at least 1 of the following courses:

- CHEM1120 - General Chemistry II (BPS)
- CHEM1220 - Principles of Chemistry II (BPS)
- CHEM2300 - Principles of Organic Chemistry
- CHEM2310 - Organic Chemistry I

AND

Required

Breadth Life Science (BLS) Option
To receive University Studies Breadth Life Sciences (BLS) credit, students must complete both BIOL1610 BIOLOGY I and BIOL3300 GENERAL MICROBIOLOGY. This option for Breadth Life Sciences (BLS) credit is available ***only*** to students majoring in Biological Engineering or Environmental Engineering.

Corequisite

Type
Corequisite

Required

Enroll in the following Courses:
- BIOL3305 - General Microbiology Laboratory

BIOL3305 - General Microbiology Laboratory - 2 - Credits

Course Overview

Course Prefix
BIOL

Course Number
3305

Department
Biology

Course Title
General Microbiology Laboratory

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Students have hands-on experiences to learn microbiology techniques, apply microbiology concepts learned during lecture, and apply those to develop a research project. The laboratory is designed based on Tiny Earth, a research guide to student sourcing of antibiotic discovery.

Credit Hours

Credit Hours Min:
2

Contact Hours

Contact Hours Min:
2

Billing Hours

Billing Hours Min:
2

Lecture Hours

Lecture Hours Min:
2

Simple Requisites

Corequisite

Type
Corequisite

Required

Enroll in the following Courses:
- BIOL3300 - General Microbiology

Prerequisite

Type
Prerequisite

Required

All courses listed below may be taken concurrently with BIOL3305 GEN MICROBIOLOGY LABORATORY.

Complete at least 1 of the following courses:

- CHEM1120 - General Chemistry II (BPS)
- CHEM1220 - Principles of Chemistry II (BPS)
- CHEM2300 - Principles of Organic Chemistry
- CHEM2310 - Organic Chemistry I

Course Learning Objectives

Course Learning Outcomes

1. Identify the hazards present in microbiology labs, identifying BSL1 & 2 level practices and protocols
2. Learn how to properly operate and care for a light microscope and other microbiological equipment
3. Become familiar with different isolation and culture methods for food and soil microorganism
4. Understand the goals of the Tiny Earth Project, and develop a research project that will be presented at the undergraduate research symposiums (Spring & Fall).

BIOL3500 - Plagues, Pests, and People - 3 - Credits

Course Overview

Course Prefix
BIOL

Course Number
3500

Department
Biology

Course Title
Plagues, Pests, and People

General Education Attribute
DSC

Grade Mode
Standard Letter

Repeat Status
NR

Course Description

This course offers scientific and societal examination of infectious diseases that have shaped the course of history and continue to threaten people today.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

BIOL3760 - Independent Study - 1 - 3 Credits

Course Overview

Course Prefix
BIOL

Course Number
3760

Department
Biology

Course Title
Independent Study

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Directed individual or group study. Not counted as Biology degree elective or toward the Biology, Biomath, or Public Health minors.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

Special Approval
Instructor permission

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- BIOL1620 - Biology II (BLS)

BIOL4000 - Human Dissection - 1 - Credits

Course Overview

Course Prefix
BIOL

Course Number
4000

Department
Biology

Course Title
Human Dissection

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Exposure and dissection of the human body, with an emphasis on bones, joints, muscles, and internal organs. One evening lab per week.

Credit Hours

Credit Hours Min:
1

Contact Hours

Contact Hours Min:
1

Billing Hours

Billing Hours Min:
1

Lecture Hours

Lecture Hours Min:
1

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- BIOL2320 - Human Anatomy

BIOL4030 - Communicable Disease Control - 3 - Credits

Course Overview

Course Prefix
BIOL

Course Number
4030

Department
Biology

Cross-Listed Courses
PUBH4030 - Communicable Disease Control

Course Title
Communicable Disease Control

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course consists of a comprehensive study of communicable diseases. Topics include etiological agents, reservoirs of infection, and mechanisms of transmission, control, and prevention.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ANY of the following Courses:

- BIOL1610 - Biology I
  OR BIOL2060 - Elementary Microbiology
  OR BIOL2420 - Human Physiology

BIOL4040 - Fundamentals of Epidemiology - 3 - Credits

Course Overview

Course Prefix
BIOL

Course Number
4040

Department
Biology

Cross-Listed Courses
PUBH4040 - Fundamentals of Epidemiology

Course Title
Fundamentals of Epidemiology

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides an introduction to the study of the distribution and causes of communicable and noncommunicable diseases in humans and other animals.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Other Enrollment Recommendations

A course in statistics is recommended

No Requirements

BIOL4060 - Exploring Animal Behavior - 3 - Credits

Course Overview

Course Prefix
BIOL

Course Number
4060

Department
Biology

Course Title
Exploring Animal Behavior

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course examines how animal behavior evolves and develops, using hypothesis-driven research on aggression, mating, cooperation, parental care, learning, and communication. Content includes lectures, videos, discussions, activities, a zoo field trip, and experimental labs.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete the following requirements:

Fulfill ALL of the following requirements:

Required

Complete ALL of the following Courses:

- BIOL1620 - Biology II (BLS)
- BIOL1625 - Biology II Laboratory

AND

Required

Complete at least 1 of the following courses:

- BIOL2220 - General Ecology
- WATS2220 - General Ecology

BIOL4230 - Applied Mathematics in Biology (QI) - 3 - Credits

Course Overview

Course Prefix
BIOL

Course Number
4230

Department
Biology

Cross-Listed Courses
MATH4230 - Applied Mathematics in Biology (QI)

Course Title
Applied Mathematics in Biology (QI)

General Education Attribute
QI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course is an introduction to topics where mathematical modeling and analysis are crucial for the understanding of some biological processes. Single-credit lecture modules topics include Predator-Prey and diseases models, stochastic models, fitting equations, model construction and selection.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Choose one of the following options depending on your major. Please see your academic advisor for more details.

Fulfill ANY of the following requirements:

Option 1

Earn a minimum grade of C- in the following:

- MATH2270 - Linear Algebra (QI)
- MATH2280 - Ordinary Differential Equations (QI)

OR

Opotion 2

Earn a minimum grade of C- in the following:

- DSAI2275 - Linear Algebra for Data Science
- MATH2280 - Ordinary Differential Equations (QI)

OR

Option 3

Earn a minimum grade of C- in the following:

- MATH2250 - Linear Algebra and Differential Equations (QI)

OR

Opotion 4

Earn a minimum grade of C- in the following:

- BIOL4270 - Theoretical Ecology

BIOL4250 - Internship/Co-op - 1 - 2 Credits

Course Overview

Course Prefix
BIOL

Course Number
4250

Department
Biology

Course Title
Internship/Co-op

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Internship/cooperative work experience in biology or prehealth biology to allow student to gain a professional level of experience.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
2

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
2

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
2

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
2

Lecture Hours Operator:
TO

Special Approval

Instructor permission

No Requirements

BIOL4270 - Theoretical Ecology - 3 - Credits

Course Overview

Course Prefix
BIOL

Course Number
4270

Department
Biology

Course Title
Theoretical Ecology

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers seminal concepts of theoretical ecology and an introduction to the use of mathematical models of ecology.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- BIOL1610 - Biology I
  AND BIOL2220 - General Ecology
  AND MATH1210 - Calculus I (QL)

BIOL4320 - Summarizing complex datasets and machine learning for biologists - 1 - Credits

Course Overview

Course Prefix
BIOL

Course Number
4320

Department
Biology

Course Title
Summarizing complex datasets and machine learning for biologists

Grade Mode
Standard Letter

Course Description
Students learn principles of multivariate analysis, machine learning tools, and interactive data visualization applied to complex data sets for life scientists. This course spans the first 7 weeks of the semester.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- BIOL1620 - Biology II (BLS)
  AND MATH1210 - Calculus I (QL)
  AND STAT3000 - Statistics for Scientists (QI)

BIOL4400 - Plant Physiology (QI) - 4 - Credits

Course Overview

Course Prefix
BIOL

Course Number
4400

Department
Biology

Course Title
Plant Physiology (QI)

General Education Attribute
QI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Introduction to plant metabolism, water relations, and growth.

Credit Hours

Credit Hours
Min:
4

Contact Hours

Contact Hours
Min:
4

Billing Hours

Billing Hours
Min:
4

Lecture Hours

Lecture Hours
Min:
4

Simple Requisites

Prerequisite

Type
Prerequisite

Prerequisite

Fulfill ALL of the following requirements:

Required

Complete ALL of the following Courses:

- BIOL1620 - Biology II (BLS)
  AND BIOL1625 - Biology II Laboratory

AND

Required

Fulfill ANY of the following requirements:

Option 1

Complete ALL of the following Courses:

- MATH1050 - College Algebra (QL)

or higher mathematics course

OR

Option 2

AP Calculus AB exam score of 3 or higher

BIOL4420 - Plant Systematics and Diversity - 3 - Credits

Course Overview

Course Prefix
BIOL

Course Number
4420

Department
Biology

Dual-Listed Courses

BIOL6420 - Plant Systematics and Diversity

Course Title

Plant Systematics and Diversity

Grade Mode
Standard Letter

Repeat Status
NR

Course Description

This is an overview of plant diversity in a phylogenetic context following the latest schemes available. Students will develop skills to identify plants anywhere in the world. Additional coursework is required for those enrolled in the graduate level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- BIOL1620 - Biology II (BLS)

BIOL4430 - Introduction to Plant Pathology - 4 - Credits

Course Overview

Course Prefix
BIOL

Course Number
4430

Department
Biology

Course Title
Introduction to Plant Pathology

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Combined lecture-lab course emphasizing concepts in plant pathology. Symptoms and disease-causing organisms are described. Methods of control, the nature of epidemics, and disease prediction.

Credit Hours

Credit Hours
Min:
4

Contact Hours

Contact Hours
Min:
4

Billing Hours

Billing Hours
Min:
4

Lecture Hours

Lecture Hours
Min:
4

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- BIOL1610 - Biology I
  AND BIOL1615 - Biology I Laboratory

BIOL4450 - Neurobiology - 3 - Credits

Course Overview

Course Prefix
BIOL

Course Number
4450

Department
Biology

Course Title
Neurobiology

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Physiology, organization, and development of nervous systems. Examples taken from vertebrate and invertebrate systems. Special emphasis placed on cellular and molecular substrates of electrical excitability.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- BIOL1620 - Biology II (BLS)
  AND CHEM1220 - Principles of Chemistry II (BPS)

BIOL4500 - Applied Entomology - 3 - Credits

Course Overview

Course Prefix
BIOL

Course Number
4500

Department
Biology

Dual-Listed Courses
BIOL6500 - Applied Entomology

Course Title
Applied Entomology

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers the fundamentals of insect biology, emphasizing species of economic importance. Students learn the principles and tactics of pest management. The laboratory includes a survey of beneficial and harmful insects affecting humans and agriculture. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Other Enrollment Recommendations
BIOL1620 BIOLOGY II (BLS) and BIOL1625 BIOLOGY II LABORATORY

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:
- BIOL1610 - Biology I
- BIOL1615 - Biology I Laboratory

BIOL4540 - Invertebrate Zoology - 3 - Credits

Course Overview

Course Prefix
BIOL

Course Number
4540

Department
Biology

Dual-Listed Courses
BIOL6540 - Invertebrate Zoology

Course Title
Invertebrate Zoology

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students learn the structure, function, behavior, habitat, ecology, evolution and phylogeny of animals not included in the subphylum Vertebrata with a focus on selected examples that typify major groups or clarify evolutionary relationships. Graduate students are required to prepare a review paper.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:
- BIOL1620 - Biology II (BLS)

BIOL4600 - Advanced Human Physiology - 5 - Credits

Course Overview

Course Prefix
BIOL

Course Number
4600

Department
Biology

Course Title
Advanced Human Physiology

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Advanced study of the functions of the human body, emphasizing major organ systems. Four lectures and one lab.

Credit Hours

Credit Hours
Min:
5

Contact Hours

Contact Hours
Min:
5

Billing Hours

Billing Hours
Min:
5

Lecture Hours

Lecture Hours
Min:
5

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Fulfill ANY of the following requirements:

Required

Complete ALL of the following Courses:

- BIOL1620 - Biology II (BLS)
  AND BIOL1625 - Biology II Laboratory

OR

Required

Complete ALL of the following Courses:

- BIOL2320 - Human Anatomy

BIOL4650 - Evolution: History of an Idea (CI/DSC) - 3 - Credits

Course Overview

Course Prefix
BIOL

Course Number
4650

Department
Biology

Dual-Listed Courses
BIOL6650 - Evolution: History of an Idea

Course Title
Evolution: History of an Idea (CI/DSC)

General Education Attribute
CI, DSC

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students are introduced to historical and modern theories of evolution with emphases on Darwin's "On the Origin of the Species" and the social and philosophical impacts of evolutionary theory.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

A minimum grade of 'C-' in Course BIOL1620

Type
Prerequisite

Required

Earn a minimum grade (UG) of C- in the following:

- BIOL1620 - Biology II (BLS)

BIOL4700 - Plant Identification, Documentation, and Herbarium Resources - 2 - Credits

Course Overview

Course Prefix
BIOL

Course Number
4700

Department
Biology

Course Title
Plant Identification, Documentation, and Herbarium Resources

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course consolidates the theory and practice of plant identification and documentation, using both “classic” approaches and digital resources. Students gain hands-on experience in plant identification, plant documentation, and the practical application of plant occurrence data .

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Other Enrollment Recommendations
This course includes the evaluative component of the Certificate in Plant Identification and Applied Botany. Students pursuing the certificate are encouraged to take this course after they have completed all or most of their other certificate requirements. Please consult with the instructor for more information.

Course Learning Objectives

Course Learning Outcomes
1. This course is the "capstone" course for the Certificate in Plant Identification and Applied Botany, providing for the practice and demonstration of career-ready skills in applied botany.

BIOL4710 - Teaching Internship - 1 - Credits

Course Overview

Course Prefix
BIOL

Course Number
4710

Department
Biology

Course Title
Teaching Internship

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Advanced undergraduates function as teaching interns under supervision of a faculty member. Only 1 credit may be counted toward Biology degree electives.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Special Approval
Instructor permission

No Requirements

BIOL4770 - Introduction to Dynamic Biological Systems - 3 - Credits

Course Overview

Course Prefix
BIOL

Course Number
4770

Department
Biology

Dual-Listed Courses
BIOL6770 - Introduction to Dynamic Biological Systems

Course Title
Introduction to Dynamic Biological Systems

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces the biological and mathematical concepts needed for the construction and interpretation of mathematical models in molecular systems biology using MATLAB as well as providing an understanding of the biological systems themselves. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- BIOL1610 - Biology I
  AND CHEM1210 - Principles of Chemistry I
- MATH1100 - Calculus Techniques (QL)
  OR MATH1210 - Calculus I (QL)

BIOL5010 - Biogeography - 3 - Credits

Course Overview

Course Prefix
BIOL

Course Number
5010

Department
Biology

Dual-Listed Courses
BIOL6010 - Biogeography

Course Title
Biogeography

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Distributions of plants and animals, including invertebrates, from terrestrial, freshwater, and marine systems, discussed from historical and ecological perspectives. Explores ecological patterns of body size, color, species density, home range, etc., as well as their causes.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- BIOL1620 - Biology II (BLS)

BIOL5050 - Evolutionary Genomics - 3 - Credits

Course Overview

Course Prefix
BIOL

Course Number
5050

Department
Biology

Dual-Listed Courses
BIOL6050 - Evolutionary Genomics

Course Title
Evolutionary Genomics

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course examines theoretical and practical aspects of the application of genomic tools to evolutionary questions. It emphasizes the link between genomic and phenotypic analyses of evolutionary and ecological processes in natural populations. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- BIOL3070 - Computational Approaches to Biology

BIOL5150 - Immunology - 3 - Credits

Course Overview

Course Prefix
BIOL

Course Number
5150

Department
Biology

Course Title
Immunology

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Immune response in health and disease. Experimental approach to investigating immune function and abnormalities.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Prerequisite

Fulfill ALL of the following requirements:

Required

Complete ALL of the following Courses:

- CHEM1220 - Principles of Chemistry II (BPS)
  AND BIOL3060 - Principles of Genetics (QI)

AND

Required

Complete ANY of the following Courses:

- BIOL3300 - General Microbiology
  OR BIOL5210 - Cell Biology

BIOL5210 - Cell Biology - 3 - Credits

Course Overview

Course Prefix
BIOL

Course Number
5210

Department
Biology

Course Title
Cell Biology

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Examines the mechanisms of cell structure and function at the molecular level.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Fulfill ALL of the following requirements:

Required

Complete ALL of the following Courses:

- BIOL1620 - Biology II (BLS)
  AND BIOL3060 - Principles of Genetics (QI)

AND

Required

Complete ANY of the following Courses:

- CHEM2300 - Principles of Organic Chemistry
  OR CHEM2320 - Organic Chemistry II

AND

Required

Complete ANY of the following Courses:

- CHEM3700 - Introductory Biochemistry
  OR CHEM5700 - General Biochemistry I

CHEM 5700 highly recommended

BIOL5230 - Developmental Biology - 3 - Credits

Course Overview

Course Prefix
BIOL

Course Number
5230

Department
Biology

Course Title
Developmental Biology

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Examines the mechanisms of biological development using classical embryological and modern molecular and cellular approaches.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Other Enrollment Recommendations

CHEM3700 INTRO BIOCHEMISTRY ***and*** CHEM5700 GENERAL BIOCHEMISTRY I are strongly recommended.

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- BIOL3060 - Principles of Genetics (QI)
  AND BIOL5210 - Cell Biology

BIOL5240 - Virology - 3 - Credits

Course Overview

Course Prefix
BIOL

Course Number
5240

Department
Biology

Course Title
Virology

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Structure, replication, genetics, and molecular biology of viruses, as well as virus-host interactions, and viral diseases and antiviral agents.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- BIOL3060 - Principles of Genetics (QI)

BIOL5310 - Soil Microbiology - 3 - Credits

Course Overview

Course Prefix
BIOL

Course Number
5310

Department
Biology

Course Title
Soil Microbiology

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Ecology and diversity of microorganisms in soils. Emphasis on factors controlling microbial activity and the role of microorganisms in organic matter decomposition and nutrient cycling.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Fulfill ALL of the following requirements:

Required

Complete ALL of the following Courses:

- BIOL1610 - Biology I
  AND BIOL1615 - Biology I Laboratory
  AND BIOL1620 - Biology II (BLS)
  AND BIOL1625 - Biology II Laboratory

AND

Required

Complete ALL of the following Courses:

- CHEM1220 - Principles of Chemistry II (BPS)

or equivalent Chemistry course

AND

Required

Complete ALL of the following Courses:

- PSC3000 - Fundamentals of Soil Science

BIOL5390 - Genes and Behavior (CI) - 3 - Credits

Course Overview

Course Prefix
BIOL

Course Number
5390

Department
Biology

Dual-Listed Courses
BIOL6390 - Genes and Behavior

Course Title
Genes and Behavior (CI)

General Education Attribute
CI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Molecular genetic principles of animal behavior and its evolution, including methods used to study behavioral genetics and case studies in behavior.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ENGL2010 - Research and Argument Across Perspectives (CL2)
- BIOL3060 - Principles of Genetics (QI)
  OR WILD3800 - Wildland Plants and Ecosystems

BIOL5400 - Environmental Toxicology - 3 - Credits

Course Overview

Course Prefix
BIOL

Course Number
5400

Department
Biology

Cross-Listed Courses
PUBH5400 - Environmental Toxicology

Dual-Listed Courses
BIOL6400 - Environmental Toxicology

Course Title
Environmental Toxicology

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course presents an in-depth survey of toxic chemicals present in the environment, environmental factors impacting fate of chemicals, potential biological effects associated with chemical exposures, and methods of defining and reducing associated risks. Additional course work is required for those enrolled in the graduate level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Fulfill ALL of the following requirements:

Required

Complete ALL of the following Courses:

- BIOL1620 - Biology II (BLS)

AND

Required

Complete ALL of the following Courses:

- CHEM1220 - Principles of Chemistry II (BPS)
  AND CHEM2300 - Principles of Organic Chemistry

Or higher Chemistry course

BIOL5450 - Parasitology - 3 - Credits

Course Overview

Course Prefix
BIOL

Course Number
5450

Department
Biology

Course Title
Parasitology

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course examines the diversity, life histories, and ecology of eukaryotic parasites, emphasizing medically and ecologically important species. Students explore host–parasite interactions, epidemiology, virulence, and the roles parasites play in shaping populations, communities, and ecosystems.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

All of the following requirements

Type
Prerequisite

Prerequisite

Fulfill ALL of the following requirements:

Required

Earn a minimum grade (UG) of D in the following:

- BIOL3060 - Principles of Genetics (QI)

AND

Required

Fulfill ANY of the following requirements:

Option A

Earn a minimum grade (UG) of D in the following:

- CHEM3700 - Introductory Biochemistry

OR

Option B

Earn a minimum grade (UG) of D in the following:

- CHEM5710 - General Biochemistry II

AND

Required

Earn a minimum grade (UG) of D in the following:

- BIOL3200 - Advanced Ecology (CI)

BIOL5460 - Molecular Neurophamacology - 3 - Credits

Course Overview

Course Prefix
BIOL

Course Number
5460

Department
Biology

Dual-Listed Courses
BIOL6460 - Molecular Neurophamacology

Course Title
Molecular Neurophamacology

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course explores how drugs act on the nervous system focusing on molecular actions that affect brain function and behavior. It covers neurotransmitter systems, receptor binding, signal transduction, and pharmakokinetics with applications in treating neurological disorders and drug abuse. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- BIOL4450 - Neurobiology

Course Learning Objectives

Course Learning Outcomes

1. Understand how drugs modulate synaptic transmission.
2. Apply pharmacological principles to neurological and psychiatric conditions.
3. Analyze drug effects at molecular, cellular, and systemic levels. Learn about drug development and therapeutic targets.

BIOL5530 - Insect Systematics and Evolution - 3 - Credits

Course Overview

Course Prefix
BIOL

Course Number
5530

Department
Biology

Course Title
Insect Systematics and Evolution

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Evolution, biology, and classification of insects, including basic external morphology. Emphasizes role of phylogeny in systematics and importance of systematics in comparative biology.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- BIOL1620 - Biology II (BLS)

BIOL5550 - Freshwater Invertebrates - 3 - Credits

Course Overview

Course Prefix
BIOL

Course Number
5550

Department
Biology

Cross-Listed Courses
WATS5550 - Freshwater Invertebrates

Course Title
Freshwater Invertebrates

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Ecology, collection, and systematics of freshwater aquatic invertebrates. Focuses on insects, but also covers crustaceans, molluscs, and annelids. Several weekend field trips and a collection are required.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
One year of general biology or zoology

BIOL5560 - Ornithology - 3 - Credits

Course Overview

Course Prefix
BIOL

Course Number
5560

Department
Biology

Course Title
Ornithology

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Surveys evolution, systematics, physiology, anatomy, ecology, behavior, and identification of birds. Includes lectures, laboratory and field exercises, field trips, and an independent project. Attendance required at one Saturday and one Friday-Sunday field trip.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- BIOL1620 - Biology II (BLS)
  AND BIOL1625 - Biology II Laboratory

BIOL5570 - Herpetology - 3 - Credits

Course Overview

Course Prefix
BIOL

Course Number
5570

Department
Biology

Course Title
Herpetology

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Evolution, adaptations, distribution, natural history, behavior, and identification of amphibians and reptiles of the world, with special emphasis on North American species. Two lectures and one lab.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- BIOL1620 - Biology II (BLS)
  AND BIOL1625 - Biology II Laboratory

BIOL5580 - Mammalogy - 3 - Credits

Course Overview

Course Prefix
BIOL

Course Number
5580

Department
Biology

Cross-Listed Courses
WILD5580 - Mammalogy

Course Title
Mammalogy

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Evolution, adaptations, distribution, natural history, behavior, and identification of mammals of the world, with special emphasis on North American species. Two lectures and one lab.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- BIOL1620 - Biology II (BLS)
  AND BIOL1625 - Biology II Laboratory

BIOL5600 - Comparative Animal Physiology - 3 - Credits

Course Overview

Course Prefix
BIOL

Course Number
5600

Department
Biology

Dual-Listed Courses
BIOL6600 - Comparative Animal Physiology

Course Title
Comparative Animal Physiology

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Principles and mechanisms of physiology in vertebrate and invertebrate animals. For graduate (6000-level) credit, additional reading, recitation, and/or writing will be required.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- BIOL1620 - Biology II (BLS)
  AND BIOL1625 - Biology II Laboratory
- CHEM1110 - General Chemistry I (BPS)
  OR CHEM1120 - General Chemistry II (BPS)
  OR CHEM1220 - Principles of Chemistry II (BPS)

BIOL5625 - Neurophysiology Laboratory - 2 - Credits

Course Overview

Course Prefix
BIOL

Course Number
5625

Department
Biology

Course Title
Neurophysiology Laboratory

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course examines foundational principles in cellular neuroscience using hands-on laboratory techniques. This includes neuroanatomy, the electrophysiological nature of neuronal cells, neuronal structure and function, and the various extracellular and intracellular messages used to communicate in the nervous system.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- BIOL1610 - Biology I
  AND BIOL1615 - Biology I Laboratory
  AND BIOL1620 - Biology II (BLS)
  AND BIOL1625 - Biology II Laboratory
  AND BIOL4450 - Neurobiology

BIOL5630 - Endocrinology (CI) - 3 - Credits

Course Overview

Course Prefix
BIOL

Course Number
5630

Department
Biology

Cross-Listed Courses
ADVS5630 - Endocrinology (CI)

Dual-Listed Courses
BIOL6630 - Endocrinology

Course Title
Endocrinology (CI)

General Education Attribute
CI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course explores the molecular, cellular and physiological aspects of the endocrine system in vertebrates, presented with a species comparative approach. Students learn the clinical aspects and diseases associated with dysfunction of the endocrine system.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- BIOL1620 - Biology II (BLS)

BIOL5650 - Comparative Anatomy of the Vertebrates - 4 - Credits

Course Overview

Course Prefix
BIOL

Course Number
5650

Department
Biology

Course Title
Comparative Anatomy of the Vertebrates

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides a detailed introduction to the anatomy of vertebrate animals, focusing on the evolution of organ systems through time. Lectures discuss evolutionary changes and adaptive roles of anatomical structures, while laboratories involve dissection of several representative species.

Credit Hours

Credit Hours
Min:
4

Contact Hours

Contact Hours
Min:
4

Billing Hours

Billing Hours
Min:
4

Lecture Hours

Lecture Hours
Min:
4

Other Enrollment Recommendations

BIOL3020 EVOLUTIONARY BIOLOGY, and BIOL3050 ORGANISMAL BIOL AND PHYS and junior standing

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- BIOL1610 - Biology I
  AND BIOL1615 - Biology I Laboratory
  AND BIOL1620 - Biology II (BLS)
  AND BIOL1625 - Biology II Laboratory

Course Learning Objectives

Course Learning Outcomes

1. The course is intended to provide a detailed introduction to the anatomy of vertebrates and to describe the changes in vertebrate structure through evolutionary time.

2. Gaining factual knowledge.

3. Learning fundamental principles.

4. Learning to evaluate ideas critically.

BIOL5750 - Topics in Biology - 1 - 3 Credits

Course Overview

Course Prefix
BIOL

Course Number
5750

Department
Biology

Dual-Listed Courses
BIOL6750 - Topics in Biology

Course Title
Topics in Biology

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course allows an exploration of topics that are not part of the standard curriculum. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

BIOL5780 - Neuroendocrinology: Hormones and Behavior - 3 - Credits

Course Overview

Course Prefix
BIOL

Course Number
5780

Department
Biology

Course Title
Neuroendocrinology: Hormones and Behavior

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course delves into the complex interplay between hormones, brains, and behavior. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- BIOL1610 - Biology I
  AND BIOL1615 - Biology I Laboratory
- BIOL1620 - Biology II (BLS)
  AND BIOL1625 - Biology II Laboratory

Course Learning Objectives

Course Learning Outcomes

1. Describe the mechanisms of actio of hormones in the brain.
2. Understand the ways in which hormones influence complex behaviors.
3. Connect neurobiological discoveries in animals to our understanding of the role of hormones in human biology, health, and behavior.

BIOL5790 - Protein Structure/Function and Purification - 3 - Credits

Course Overview

Course Prefix
BIOL

Course Number
5790

Department
Biology

Cross-Listed Courses
BENG5790 - Protein Structure/Function and Purification, CHEM5790 - Protein Structure/Function and Purification

Dual-Listed Courses
BIOL6790 - Protein Structure/Function and Purification

Course Title
Protein Structure/Function and Purification

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Protein biosynthesis, modification, folding, structure, and stability, protein purification and protein analysis are discussed. Students develop an original research proposal through oral and written presentations. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Admission to the Biology, Biochemistry or Biological Engineering program

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ANY of the following Courses:

- BIOL3300 - General Microbiology
  OR CHEM3700 - Introductory Biochemistry

BIOL5800 - Undergraduate Research - 1 - 3 Credits

Course Overview

Course Prefix
BIOL

Course Number
5800

Department
Biology

Course Title
Undergraduate Research

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Faculty-directed research in biology. Maximum of 3 credits of BIOL 5800 are acceptable toward Biology degree elective requirements.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

Special Approval
Must have instructor permission

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- BIOL1620 - Biology II (BLS)
  AND BIOL1625 - Biology II Laboratory

BIOL5810 - Bachelor's Thesis - 3 - Credits

Course Overview

Course Prefix
BIOL

Course Number
5810

Department
Biology

Course Title
Bachelor's Thesis

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Preparation of a written thesis, based upon individual investigation, under the supervision of faculty.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Special Approval
Instructor permission

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- BIOL5800 - Undergraduate Research

Completion of 3 credits (may be taken concurrently)

BIOL6000 - Introduction to Graduate Teaching in Biology - 1 - Credits

Course Overview

Course Prefix
BIOL

Course Number
6000

Department
Biology

Course Title
Introduction to Graduate Teaching in Biology

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This is a course for first-time Biology graduate teaching assistants who are concurrently assigned to teach BIOL 1615 and/or BIOL 1625

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Course Learning Objectives

Course Learning Outcomes
1. Develop specific skills, competencies, and points of view needed by biology teachers.

BIOL6010 - Biogeography - 3 - Credits

Course Overview

Course Prefix
BIOL

Course Number
6010

Department
Biology

Dual-Listed Courses
BIOL5010 - Biogeography

Course Title
Biogeography

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Distributions of plants and animals, including invertebrates, from terrestrial, freshwater, and marine systems, discussed from historical and ecological perspectives. Explores ecological patterns of body size, color, species density, home range, etc., as well as their causes.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- BIOL1620 - Biology II (BLS)

BIOL6020 - Cellular and Molecular Neuroscience - 3 - Credits

Course Overview

Course Prefix
BIOL

Course Number
6020

Department
Biology

Cross-Listed Courses
PSY6020 - Cellular and Molecular Neuroscience

Course Title
Cellular and Molecular Neuroscience

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This is a comprehensive introductory neuroscience course for graduate students. The course covers basic principles of organization and function of the nervous system, as well as references to neurological and psychiatric disorders.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Registration Restrictions
Graduate standing or instructor permission

BIOL6050 - Evolutionary Genomics - 3 - Credits

Course Overview

Course Prefix
BIOL

Course Number
6050

Department
Biology

Dual-Listed Courses
BIOL5050 - Evolutionary Genomics

Course Title
Evolutionary Genomics

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course examines theoretical and practical aspects of the application of genomic tools to evolutionary questions. It emphasizes the link between genomic and phenotypic analyses of evolutionary and ecological processes in natural populations. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Registration Restrictions
Graduate standing

Special Approval
Instructor permission

No Requirements

BIOL6120 - Behavioral Neuroscience - 3 - Credits

Course Overview

Course Prefix
BIOL

Course Number
6120

Department
Biology

Cross-Listed Courses
PSY6120 - Behavioral Neuroscience

Course Title
Behavioral Neuroscience

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This is a comprehensive introductory neuroscience course for graduate students that builds on material learned in Cellular and Molecular Neuroscience. The course provides an overview of brain circuits and higher brain functions. Neuropsychiatric disease is also discussed.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

BIOL6200 - Biogeochemistry of Terrestrial Ecosystems - 3 - Credits

Course Overview

Course Prefix
BIOL

Course Number
6200

Department
Biology

Cross-Listed Courses
WILD6200 - Biogeochemistry of Terrestrial Ecosystems

Course Title
Biogeochemistry of Terrestrial Ecosystems

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Carbon and nutrient cycles play a crucial role in shaping terrestrial ecosystem structure and function. This course offers a framework for understanding biogeochemical cycles, emphasizing their importance at both the ecosystem and global scales, and their relevance to ecosystem management.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Special Approval
Instructor permission

BIOL6210 - Measuring and Modeling the Terrestrial Carbon Cycle - 3 - Credits

Course Overview

Course Prefix
BIOL

Course Number
6210

Department
Biology

Cross-Listed Courses
CAS6210 - Measuring and Modeling the Terrestrial Carbon Cycle

Course Title
Measuring and Modeling the Terrestrial Carbon Cycle

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course focuses on the ecological processes that drive the terrestrial carbon (C) cycle and examines how they are represented in predictive mathematical models.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- MATH1210 - Calculus I (QL)
- BIOL6200 - Biogeochemistry of Terrestrial Ecosystems
  OR PSC6200 - Biogeochemistry of Terrestrial Ecosystems (Inactive)
  OR WILD6200 - Biogeochemistry of Terrestrial Ecosystems

BIOL6250 - Graduate Internship - 1 - 6 Credits

Course Overview

Course Prefix
BIOL

Course Number
6250

Department
Biology

Course Title
Graduate Internship

Grade Mode
Pass/Fail

Repeat Status
NR

Course Description
Work experience, for which the student is paid, tied to academics in a graduate student's field of study.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
6

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
6

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
6

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
6

Lecture Hours Operator:
TO

Special Approval
Permission of department head prior to enrollment

No Requirements

BIOL6270 - Theoretical Ecology - 3 - Credits

Course Overview

Course Prefix
BIOL

Course Number
6270

Department
Biology

Cross-Listed Courses
CAS6270 - Theoretical Ecology

Course Title
Theoretical Ecology

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers seminal concepts of theoretical ecology and introduces the use of mathematical models of ecology. An independent course project is required for graduate credit.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Registration Restrictions
Graduate standing

Special Approval
Instructor permission

No Requirements

BIOL6310 - Linear Regression and Beyond for Life Scientists - 1 - 2 Credits

Course Overview

Course Prefix
BIOL

Course Number
6310

Department
Biology

Cross-Listed Courses
CAS6310 - Linear Regression and Beyond for Life Scientists

Course Title
Linear Regression and Beyond for Life Scientists

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This is an overview of multiple regression (including ANCOVA), generalized linear models, and an introduction to mixed effects, time series, and spatial models with an emphasis on practical tools and applications to the life sciences.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
2

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
2

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
2

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
2

Lecture Hours Operator:
TO

No Requirements

BIOL6320 - Summarizing complex datasets and machine learning for life scientists - 1 - 2 Credits

Course Overview

Course Prefix
BIOL

Course Number
6320

Department
Biology

Cross-Listed Courses
CAS6320 - Summarizing complex datasets and machine learning for life scientists

Course Title
Summarizing complex datasets and machine learning for life scientists

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students learn the principles of multivariate analysis, machine learning tools, and interactive data visualization applied to complex data sets for life scientists. A project and paper are required for the 2 credit course.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
2

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
2

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
2

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
2

Lecture Hours Operator:
TO

No Requirements

BIOL6325 - Bayesian Analysis of Biological Data - 3 - Credits

Course Overview

Course Prefix
BIOL

Course Number
6325

Department
Biology

Course Title
Bayesian Analysis of Biological Data

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Theory, conceptual foundations, and practical applications of Bayesian statistics applied to biological data sets.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

BIOL6390 - Genes and Behavior - 3 - Credits

Course Overview

Course Prefix
BIOL

Course Number
6390

Department
Biology

Dual-Listed Courses
BIOL5390 - Genes and Behavior (CI)

Course Title
Genes and Behavior

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Molecular genetic principles of animal behavior and its evolution, including methods used to study behavioral genetics and case studies in behavior.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Graduate standing

No Requirements

BIOL6400 - Environmental Toxicology - 3 - Credits

Course Overview

Course Prefix
BIOL

Course Number
6400

Department
Biology

Cross-Listed Courses
PUBH6400 - Environmental Toxicology

Dual-Listed Courses
BIOL5400 - Environmental Toxicology

Course Title
Environmental Toxicology

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course presents an in-depth survey of toxic chemicals present in the environment, environmental factors impacting fate of chemicals, potential biological effects associated with chemical exposures, and methods of defining and reducing associated risks. Additional course work is required for those enrolled in the graduate level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Fulfill ALL of the following requirements:

Required

Complete ALL of the following Courses:

- BIOL1620 - Biology II (BLS)

AND

Required

Complete ALL of the following Courses:

- CHEM1220 - Principles of Chemistry II (BPS)
  AND CHEM2300 - Principles of Organic Chemistry

or higher Chemistry course

BIOL6420 - Plant Systematics and Diversity - 3 - Credits

Course Overview

Course Prefix
BIOL

Course Number
6420

Department
Biology

Dual-Listed Courses
BIOL4420 - Plant Systematics and Diversity

Course Title
Plant Systematics and Diversity

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This is an overview of plant diversity in a phylogenetic context following the latest schemes available. Students will develop skills to identify plants anywhere in the world. Additional coursework is required for those enrolled in the graduate level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

BIOL6460 - Molecular Neurophamacology - 3 - Credits

Course Overview

Course Prefix
BIOL

Course Number
6460

Department
Biology

Dual-Listed Courses
BIOL5460 - Molecular Neurophamacology

Course Title
Molecular Neurophamacology

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course explores how drugs act on the nervous system focusing on molecular actions that affect brain function and behavior. It covers neurotransmitter systems, receptor binding, signal transduction, and pharmakokinetics with applications in treating neurological disorders and drug abuse. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- BIOL4450 - Neurobiology

Course Learning Objectives

Course Learning Outcomes

1. Understand how drugs modulate synaptic transmission.
2. Apply pharmacological principles to neurological and psychiatric conditions.
3. Analyze drug effects at molecular, cellular, and systemic levels. Learn about drug development and therapeutic targets.

BIOL6500 - Applied Entomology - 3 - Credits

Course Overview

Course Prefix
BIOL

Course Number
6500

Department
Biology

Dual-Listed Courses

BIOL4500 - Applied Entomology

Course Title

Applied Entomology

Grade Mode
Standard Letter

Repeat Status
NR

Course Description

This course covers the fundamentals of insect biology, emphasizing species of economic importance. Students learn the principles and tactics of pest management. The laboratory includes a survey of beneficial and harmful insects affecting humans and agriculture. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Other Enrollment Recommendations

BIOL1620 BIOLOGY II (BLS) and BIOL1625 BIOLOGY II LABORATORY

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- BIOL1610 - Biology I
  AND BIOL1615 - Biology I Laboratory

BIOL6540 - Invertebrate Zoology - 3 - Credits

Course Overview

Course Prefix
BIOL

Course Number
6540

Department
Biology

Dual-Listed Courses
BIOL4540 - Invertebrate Zoology

Course Title
Invertebrate Zoology

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students learn the structure, function, behavior, habitat, ecology, evolution and phylogeny of animals not included in the subphylum Vertebrata with a focus on selected examples that typify major groups or clarify evolutionary relationships. Graduate students are required to prepare a review paper.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequiste

Type
Prerequisite

Required

Earn a minimum grade of C- in the following:

- BIOL1620 - Biology II (BLS)

BIOL6600 - Comparative Animal Physiology - 3 - Credits

Course Overview

Course Prefix
BIOL

Course Number
6600

Department
Biology

Dual-Listed Courses
BIOL5600 - Comparative Animal Physiology

Course Title
Comparative Animal Physiology

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Principles and mechanisms of physiology in vertebrate and invertebrate animals. For graduate (6000-level) credit, additional reading, recitation, and/or writing will be required.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Fulfill ALL of the following requirements:

Required

Complete ALL of the following Courses:

- BIOL1620 - Biology II (BLS)
  AND BIOL1625 - Biology II Laboratory

AND

Required

Complete at least 1 of the following courses:

- CHEM1110 - General Chemistry I (BPS)
  OR CHEM1120 - General Chemistry II (BPS)
  OR CHEM1220 - Principles of Chemistry II (BPS)

BIOL6630 - Endocrinology - 3 - Credits

Course Overview

Course Prefix
BIOL

Course Number
6630

Department
Biology

Cross-Listed Courses
ADVS6630 - Endocrinology

Dual-Listed Courses
BIOL5630 - Endocrinology (CI)

Course Title
Endocrinology

Grade Mode
Standard Letter

Repeat Status
NR

Course Description

Molecular, cellular and physiological aspects of the endocrine system in vertebrates, presented with a species comparative approach. Clinical aspects and diseases associated with dysfunction of the endocrine system.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- BIOL1620 - Biology II (BLS)

BIOL6650 - Evolution: History of an Idea - 3 - Credits

Course Overview

Course Prefix
BIOL

Course Number
6650

Department
Biology

Dual-Listed Courses
BIOL4650 - Evolution: History of an Idea (CI/DSC)

Course Title
Evolution: History of an Idea

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students are introduced to historical and modern theories of evolution with emphases on Darwin's "On the Origin of the Species" and the social and philosophical impacts of evolutionary theory.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Earn a minimum grade (UG) of C- in the following:

- BIOL1620 - Biology II (BLS)

BIOL6740 - Cellular Communication by Small Molecules and Proteins - 1 - Credits

Course Overview

Course Prefix
BIOL

Course Number
6740

Department
Biology

Cross-Listed Courses
CHEM6740 - Cellular Communication by Small Molecules and Proteins

Course Title
Cellular Communication by Small Molecules and Proteins

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers the use of post-translational modifications, small molecules, and protein motifs in cellular communication. It also covers variances in the communication systems related to disease state and/or cell stress and therapeutic strategies to manipulate the communication systems.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Earn a minimum grade of B- in the following:

- CHEM5700 - General Biochemistry I

BIOL6750 - Topics in Biology - 1 - 3 Credits

Course Overview

Course Prefix
BIOL

Course Number
6750

Department
Biology

Dual-Listed Courses
BIOL5750 - Topics in Biology

Course Title
Topics in Biology

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course allows an exploration of topics that are not part of the standard curriculum. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

BIOL6770 - Introduction to Dynamic Biological Systems - 3 - Credits

Course Overview

Course Prefix
BIOL

Course Number
6770

Department
Biology

Dual-Listed Courses
BIOL4770 - Introduction to Dynamic Biological Systems

Course Title
Introduction to Dynamic Biological Systems

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces the biological and mathematical concepts needed for the construction and interpretation of mathematical models in molecular systems biology using MATLAB as well as providing an understanding of the biological systems themselves. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- BIOL1610 - Biology I
  AND CHEM1210 - Principles of Chemistry I
- MATH1100 - Calculus Techniques (QL)
  OR MATH1210 - Calculus I (QL)

BIOL6780 - Community Ecology and Analysis - 3 - Credits

Course Overview

Course Prefix
BIOL

Course Number
6780

Department
Biology

Course Title
Community Ecology and Analysis

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Students learn fundamental concepts in community ecology, paired with analytical tools to conduct appropriate analyses. Methods may include multivariate analyses, ordination, time series analyses, network theory and analysis, rarefaction, diversity metrics, phylogenetic regression, and mixed-effects generalized linear modeling.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

BIOL6790 - Protein Structure/Function and Purification - 3 - Credits

Course Overview

Course Prefix
BIOL

Course Number
6790

Department
Biology

Cross-Listed Courses
BENG6790 - Protein Structure/Function and Purfication, CHEM6790 - Protein Structure/Function and Purification

Dual-Listed Courses
BIOL5790 - Protein Structure/Function and Purification

Course Title
Protein Structure/Function and Purification

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Protein biosynthesis, modification, folding, structure, and stability, protein purification and protein analysis are discussed. Students develop an original research proposal through oral and written presentations. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Admission to the Biology, Biochemistry or Biological Engineering program

Other Enrollment Recommendations
BIOL3300 GENERAL MICROBIOLOGY; ***or*** CHEM3700 INTRO BIOCHEMISTRY; ***or*** CHEM5700 GENERAL BIOCHEMISTRY I

BIOL6800 - Biology Seminar - 1 - Credits

Course Overview

Course Prefix
BIOL

Course Number
6800

Department
Biology

Course Title
Biology Seminar

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
Format for general graduate-level seminar topics.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

No Requirements

BIOL6870 - Ecology Seminar - 1 - Credits

Course Overview

Course Prefix
BIOL

Course Number
6870

Department
Biology

Course Title
Ecology Seminar

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
The Ecology Center schedules seminars with ecological scientists from participating institutions. Ecology majors are required to attend or view a minimum of 10 such lectures. Ecologically focused seminars offered by other departments and colleges may also be eligible for credit.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

No Requirements

BIOL6910 - Special Problems - 1 - 3 Credits

Course Overview

Course Prefix
BIOL

Course Number
6910

Department
Biology

Course Title
Special Problems

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
Individual or group study under faculty guidance.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

Special Approval

Instructor permission

No Requirements

BIOL6970 - Thesis Research - 1 - 12 Credits

Course Overview

Course Prefix
BIOL

Course Number
6970

Department
Biology

Course Title
Thesis Research

Grade Mode
Temporary Pass/Fail

Repeat Status
RP

Course Description
This course allows students to pursue research toward the M.S. degree.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
12

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
12

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
12

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
12

Lecture Hours Operator:
TO

No Requirements

BIOL6990 - Continuing Graduate Advisement - 1 - 9 Credits

Course Overview

Course Prefix
BIOL

Course Number
6990

Department
Biology

Course Title
Continuing Graduate Advisement

Grade Mode
Temporary Pass/Fail

Repeat Status
RP

Course Description
This course provides graduate students with continued advisement. It is usually taken following completion of all coursework required for the degree.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
9

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
9

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
9

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
9

Lecture Hours Operator:
TO

No Requirements

BIOL7110 - Cognitive Neuroscience - 3 - Credits

Course Overview

Course Prefix
BIOL

Course Number
7110

Department
Biology

Cross-Listed Courses
PSY7110 - Cognitive Neuroscience

Course Title
Cognitive Neuroscience

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides an in-depth study of theories, models, and current research in the field of cognitive neuroscience, including memory, perception, problem-solving, and decision making.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Registration Restrictions
Graduate standing

Special Approval
Instructor permission

No Requirements

BIOL7140 - Methods in Neuroscience - 3 - Credits

Course Overview

Course Prefix
BIOL

Course Number
7140

Department
Biology

Cross-Listed Courses
PSY7140 - Methods in Neuroscience

Course Title
Methods in Neuroscience

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This comprehensive course for graduate students provides an overview of modern neuroscience methods, including molecular and cellular methods, pharmacology, in vivo electrophysiology, optogenetics, imaging and behavioral methods.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Completion Requirement

Required

Complete ANY of the following Courses:

- PSY6020 - Cellular and Molecular Neuroscience
  OR BIOL4450 - Neurobiology

BIOL7750 - Topics in Biology - 1 - 3 Credits

Course Overview

Course Prefix
BIOL

Course Number
7750

Department
Biology

Course Title
Topics in Biology

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course explores a particular topic in greater depth and with narrower focus than a conventional course.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

No Requirements

BIOL7780 - Neuroendocrinology: Hormones and Behavior - 3 - Credits

Course Overview

Course Prefix
BIOL

Course Number
7780

Department
Biology

Cross-Listed Courses
PSY7780 - Neuroendocrinology: Hormones and Behavior

Dual-Listed Courses
BIOL5780 - Neuroendocrinology: Hormones and Behavior

Course Title
Neuroendocrinology: Hormones and Behavior

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course delves into the complex interplay between hormones, brains, and behavior. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Other Enrollment Recommendations

BIOL4450 NEUROBIOLOGY and/or PSY3460 NEUROSCIENCE I

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- BIOL1610 - Biology I
  AND BIOL1615 - Biology I Laboratory
  AND BIOL1620 - Biology II (BLS)
  AND BIOL1625 - Biology II Laboratory

Course Learning Objectives

Course Learning Outcomes

1. Describe the mechanisms of action of hormones in the brain.

2. Understand the ways in which hormones influence complex behaviors.

3. Connect neurobiological discoveries in animals to our understanding of the role of hormones in human biology, health and behavior.

BIOL7830 - Mechanisms of Neuropsychiatric Disease - 3 - Credits

Course Overview

Course Prefix
BIOL

Course Number
7830

Department
Biology

Cross-Listed Courses
PSY7830 - Mechanisms of Neuropsychiatric Disease

Course Title
Mechanisms of Neuropsychiatric Disease

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course for graduate students discusses the clinical presentation and current therapeutical approaches for brain disorders in the context of neurobiology, neuropsychology, imaging and genetics.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

BIOL7970 - Dissertation Research - 1 - 12 Credits

Course Overview

Course Prefix
BIOL

Course Number
7970

Department
Biology

Course Title
Dissertation Research

Grade Mode
Temporary Pass/Fail

Repeat Status
RP

Course Description
This course allows students to pursue research toward the Ph.D. degree.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
12

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
12

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
12

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
12

Lecture Hours Operator:
TO

No Requirements

BIOL7990 - Continuing Graduate Advisement - 1 - 9 Credits

Course Overview

Course Prefix
BIOL

Course Number
7990

Department
Biology

Course Title
Continuing Graduate Advisement

Grade Mode
Temporary Pass/Fail

Repeat Status
RP

Course Description
This course provides graduate students with continued advisement. It is usually taken following completion of all coursework required for the degree.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
9

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
9

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
9

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
9

Lecture Hours Operator:
TO

No Requirements

BSED2510 - Orientation to Business Education - 2 - Credits

Course Overview

Course Prefix
BSED

Course Number
2510

Department
Applied Sciences, Technology and Education

Course Title
Orientation to Business Education

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course includes a study of requirements for teachers in the Business Education program, foundations of business and technology education, and an overview of the historical development of business education. Students examine business education career opportunities and the changing technology industry.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

No Requirements

BSED3150 - Methods for Business Education - 3 - Credits

Course Overview

Course Prefix
BSED

Course Number
3150

Department
Applied Sciences, Technology and Education

Course Title
Methods for Business Education

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides an introduction to basic practices of classroom teaching and program planning. Through participation in discussions, activities, and assignments, students refine their abilities to develop programs, diagnose the learner, prepare the instruction, and guide student learning.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- BSED2510 - Orientation to Business Education

BSED3300 - Clinical Experience I in Business Education - 1 - Credits

Course Overview

Course Prefix
BSED

Course Number
3300

Department
Applied Sciences, Technology and Education

Course Title
Clinical Experience I in Business Education

Grade Mode
Pass/Fail

Repeat Status
NR

Course Description
Clinical practicum (45 hours minimum) in middle or secondary schools, arranged by instructors and the Office of Field Experience in TEAL.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Registration Restrictions

Admission into Teacher Education

No Requirements

BSED4150 - Methods of Business, Finance, and Marketing Education - 3 - Credits

Course Overview

Course Prefix
BSED

Course Number
4150

Department
Applied Sciences, Technology and Education

Course Title
Methods of Business, Finance, and Marketing Education

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course teaches preservice teachers the basic principles of planning, managing, teaching, and evaluating students in business courses such as: accounting, business communications, management, business entrepreneurship, business law, finance, marketing, and workplace skills.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Admission to the Teacher Education

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- BSED2510 - Orientation to Business Education

BSED4210 - Cognition and Evaluation of Student Learning in Career and Technical Education - 3 - Credits

Course Overview

Course Prefix
BSED

Course Number
4210

Department
Applied Sciences, Technology and Education

Cross-Listed Courses
ASTE4210 - Cognition and Evaluation of Student Learning in Career and Technical Education, FCSE4210 - Cognition and Evaluation of Student Learning in Career and Teachnical Education, TEE4210 - Cognition and Evaluation of Student Learning in Career and Technical Education

Course Title
Cognition and Evaluation of Student Learning in Career and Technical Education

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides an overview of the various methods used to measure and evaluate student achievement within the cognitive, affective, and psychomotor domains with emphasis on performance-based, authentic assessment specific to the Career and Technical Education classroom.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Admission to Teacher Education

BSED4300 - Clinical Experience II Business Education - 1 - Credits

Course Overview

Course Prefix
BSED

Course Number
4300

Department
Applied Sciences, Technology and Education

Course Title
Clinical Experience II Business Education

Grade Mode
Pass/Fail

Repeat Status
NR

Course Description
Clinical practicum (45 hours minimum) in middle or secondary schools, arranged by instructors and the Office of Field Experience in TEAL.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Registration Restrictions
Admission to the Secondary Teacher Education Program (STEP).

No Requirements

BSED5500 - Business Education Secondary Curriculum Seminar - 2 - Credits

Course Overview

Course Prefix
BSED

Course Number
5500

Department
Applied Sciences, Technology and Education

Course Title
Business Education Secondary Curriculum Seminar

Grade Mode
Pass/Fail

Repeat Status
NR

Course Description
This course covers the cooperative examination of considerations and processes for teaching secondary students, including reflection on the practice of teaching and preparation for entry into the teaching profession.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Registration Restrictions

Admission to Elementary Education or Secondary Education Student Teaching

Simple Requisites

Corequisite

Type
Corequisite

Required

Enroll in the following Courses:

- BSED5630 - Business Education Student Teaching

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- BSED4150 - Methods of Business, Finance, and Marketing Education
- BSED4300 - Clinical Experience II Business Education

BSED5630 - Business Education Student Teaching - 10 - Credits

Course Overview

Course Prefix
BSED

Course Number
5630

Department
Applied Sciences, Technology and Education

Course Title
Business Education Student Teaching

Grade Mode
Pass/Fail

Repeat Status
NR

Course Description
Students teach business and technology courses in secondary and middle school settings under the guidance of clinical and Utah State University supervisors.

Credit Hours

Credit Hours
Min:
10

Contact Hours

Contact Hours
Min:
10

Billing Hours

Billing Hours
Min:
10

Lecture Hours

Lecture Hours
Min:
10

Registration Restrictions
Admission to Elementary Education or Secondary Education Student Teaching

Simple Requisites

Corequisite

Type
Corequisite

Required

Enroll in the following Courses:
- BSED5500 - Business Education Secondary Curriculum Seminar

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:
- BSED4150 - Methods of Business, Finance, and Marketing Education
- BSED4300 - Clinical Experience II Business Education

BUS1000 - HSB Freshmen Academy - 1 - Credits

Course Overview

Course Prefix
BUS

Course Number
1000

Department
Jon M. Huntsman School of Business Courses

Course Title
HSB Freshmen Academy

Grade Mode
Pass/Fail

Repeat Status
NR

Course Description
This course (for declared business majors) is designed to include and serve all incoming freshmen in the Huntsman School. The course provides information and access to the School's academic and experiential programs and creates a sense of community and purpose.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Registration Restrictions
Admission to a Huntsman School of Business major

No Requirements

BUS1500 - Huntsman Leadership Lab - 1 - Credits

Course Overview

Course Prefix
BUS

Course Number
1500

Department
Jon M. Huntsman School of Business Courses

Course Title
Huntsman Leadership Lab

Grade Mode
Pass/Fail

Repeat Status
NR

Course Description
This is a leadership development experience for students in the Huntsman Scholar program.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Registration Restrictions

Admission to the Huntsman Scholar program

No Requirements

BUS1600 - Huntsman Analytical Rigor Lab - 1 - Credits

Course Overview

Course Prefix
BUS

Course Number
1600

Department
Jon M. Huntsman School of Business Courses

Course Title
Huntsman Analytical Rigor Lab

Grade Mode
Pass/Fail

Repeat Status
NR

Course Description
This is a developmental experience focused on analytical thinking for students in the Huntsman Scholar program.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Registration Restrictions

Admission to the Huntsman Scholar program

No Requirements

BUS1700 - Huntsman Global Vision Lab - 1 - Credits

Course Overview

Course Prefix
BUS

Course Number
1700

Department
Jon M. Huntsman School of Business Courses

Course Title
Huntsman Global Vision Lab

Grade Mode
Pass/Fail

Repeat Status
NR

Course Description
This course consists of a developmental experience focused on business in a global context for students in the Huntsman Scholar program.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Registration Restrictions

Admission to the Huntsman Scholar program

No Requirements

BUS1800 - Entrepreneurial Spirit Lab - 1 - Credits

Course Overview

Course Prefix
BUS

Course Number
1800

Department
Jon M. Huntsman School of Business Courses

Course Title
Entrepreneurial Spirit Lab

Grade Mode
Pass/Fail

Repeat Status
NR

Course Description
This is a developmental experience focused on cultivating an entrepreneurial mindset for students in the Huntsman Scholar Program.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Registration Restrictions

Admission to the Huntsman Scholar program

No Requirements

BUS2000 - Foundations for Global Learning Experiences - 0.5 - 3 Credits

Course Overview

Course Prefix
BUS

Course Number
2000

Department
Jon M. Huntsman School of Business Courses

Course Title
Foundations for Global Learning Experiences

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Provides context for the Huntsman School's Global Learning Experiences. Topics include political, historical, economic, and cultural factors that shape the social and business environment of countries to be visited; relations between program countries; relations between program countries and the United States.

Credit Hours

Credit Hours Min:
0.5

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
0.5

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
0.5

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
0.5

Lecture Hours Max:
3

Lecture Hours Operator:
TO

Registration Restrictions
Admission to Huntsman School Global Learning Program.

No Requirements

BUS2250 - Introductory Internship - 1 - 9 Credits

Course Overview

Course Prefix
BUS

Course Number
2250

Department
Jon M. Huntsman School of Business Courses

Course Title
Introductory Internship

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Introductory-level experience in a career-related position approved by the Cooperative Education Office. One credit for every 75 hours of internship experience, with a maximum of 9 credits. A maximum of 12 credits of BUS 2250 and BUS 4250 combined can be counted toward the minimum degree requirements for the Huntsman School of Business.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
9

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
9

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
9

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
9

Lecture Hours Operator:
TO

Special Approval
Instructor permission

No Requirements

BUS3200 - Professional Communication with AI (CI) - 3 - Credits

Course Overview

Course Prefix
BUS

Course Number
3200

Department
Jon M. Huntsman School of Business Courses

Course Title
Professional Communication with AI (CI)

General Education Attribute
CI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students develop professional business communication skills using critical thinking and generative AI, mastering ethical, effective communication strategies via written, oral, and digital channels. Through experiential learning and authentic workplace projects, the course cultivates career-ready professionals prepared to succeed and thrive.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Earn a minimum grade of C in the following:
- ENGL2010 - Research and Argument Across Perspectives (CL2)

BUS3400 - Finance Fundamentals (QI) - 3 - Credits

Course Overview

Course Prefix
BUS

Course Number
3400

Department
Jon M. Huntsman School of Business Courses

Course Title
Finance Fundamentals (QI)

General Education Attribute
QI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Study of basic financial management principles, methods, and policies for business.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Fulfill ALL of the following requirements:

Requirement 1

Cumulative GPA of 2.5 or higher

AND

Requirement 2

Complete ALL of the following Courses:
- ACCT2010 - Financial Accounting Principles
- STAT1040 - Introduction to Statistics (QL)
  OR STAT1045 - Introduction to Statistics with Elements with Algebra (QL)

OR STAT2000 - Statistical Methods (QI)
OR STAT2300 - Business Statistics (QL)
OR STAT3000 - Statistics for Scientists (QI)
OR PSY3010 - Psychological Statistics (QI)
- MATH1050 - College Algebra (QL)

or higher mathematics class or AP Calculus AB score of 3 or higher

BUS4250 - Advanced Internship - 1 - 9 Credits

Course Overview

Course Prefix
BUS

Course Number
4250

Department
Jon M. Huntsman School of Business Courses

Course Title
Advanced Internship

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Advanced or middle-level internship experience in a career-related position approved by the Cooperative Education Office. One credit for every 75 hours of internship experience, with a maximum of 9 credits.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
9

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
9

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
9

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
9

Lecture Hours Operator:
TO

Special Approval
Instructor permission

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete the following:
GPA of 2.5 and at least 40 earned credits

BUSN1010 - Business Principles (BSS) - 3 - Credits

Course Overview

Course Prefix
BUSN

Course Number
1010

Department
Technology, Design & Technical Ed

Course Title
Business Principles (BSS)

General Education Attribute
BSS

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course examines the roles of business and commerce through history and how they shape modern society. Students study both classical and current theories of management, human relations and motivation, ethics, and social responsibility.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

BUSN1020 - Digital Literacy - 2 - Credits

Course Overview

Course Prefix
BUSN

Course Number
1020

Department
Technology, Design & Technical Ed

Course Title
Digital Literacy

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Digital literacy explores the latest 21st-century technology. Students will practice appropriately and effectively using tools for productivity, collaboration, and communications; finding reliable information, creating content, communicating safely, and identifying credibility and bias in modern digital environments.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

No Requirements

BUSN1021 - Personal Finance - 3 - Credits

Course Overview

Course Prefix
BUSN

Course Number
1021

Department
Technology, Design & Technical Ed

Course Title
Personal Finance

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course is designed for all students, introducing them to personal financial planning throughout all stages of life. Emphasis is placed on planning for, acquiring, protecting and investing wealth to meet personal financial objectives.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

BUSN1050 - Business Mathematics - 3 - Credits

Course Overview

Course Prefix
BUSN

Course Number
1050

Department
Technology, Design & Technical Ed

Course Title
Business Mathematics

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course examines common business practices and their associated math procedures. Topics include: discounts, markups/markdowns, payroll, promissory notes, time value of money, consumer and business credit, interpretation of financial statements, inventory, depreciation, and an introduction to business statistics.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

BUSN1091 - Business Presentations - 2 - Credits

Course Overview

Course Prefix
BUSN

Course Number
1091

Department
Technology, Design & Technical Ed

Course Title
Business Presentations

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Presentations explore developing and creating professional electronic presentations. Students will practice adding visual elements, formatting slides, incorporating audio and video elements, and saving and sharing files. Upon successful completion of this course, students will be able to demonstrate industry-level competency.

Credit Hours

Credit Hours Min:
2

Contact Hours

Contact Hours Min:
2

Billing Hours

Billing Hours Min:
2

Lecture Hours

Lecture Hours Min:
2

No Requirements

BUSN1111 - Accounting Principles - 3 - Credits

Course Overview

Course Prefix
BUSN

Course Number
1111

Department
Technology, Design & Technical Ed

Course Title
Accounting Principles

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students develop a foundational understanding of accounting procedures and gain practical understanding of basic accounting and bookkeeping procedures. They explore the accounting cycle for service and merchandising businesses and are introduced to payroll accounting and financial statement preparation and analysis.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

BUSN1310 - Introduction to Business Management - 2 - Credits

Course Overview

Course Prefix
BUSN

Course Number
1310

Department
Technology, Design & Technical Ed

Course Title
Introduction to Business Management

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Covers an overview of management functions and roles and will specifically examine organizational and strategic planning, organizational design, the staffing process, and control systems. Course is required for students working towards an Associate of Science in Business Administration.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

No Requirements

BUSN1400 - Introduction to Hospitality Management - 3 - Credits

Course Overview

Course Prefix
BUSN

Course Number
1400

Department
Technology, Design & Technical Ed

Course Title
Introduction to Hospitality Management

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces hospitality businesses, management functions, and responsibilities. Students gain foundational knowledge of the industry and explore career opportunities in hospitality management, preparing for entry-level roles and professional growth.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Other Enrollment Recommendations

This course is a recommended elective for AAS Business Administration students with a hospitality emphasis.

No Requirements

BUSN1405 - Word Processing - 2 - Credits

Course Overview

Course Prefix
BUSN

Course Number
1405

Department
Technology, Design & Technical Ed

Course Title
Word Processing

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course is designed to teach word processing techniques using Microsoft Word. Students learn document design and formatting skills as well as advanced word processing skills such as graphic formatting, mail merge, charts and diagrams, tables, and macros.

Credit Hours

Credit Hours Min:
2

Contact Hours

Contact Hours Min:
2

Billing Hours

Billing Hours Min:
2

Lecture Hours

Lecture Hours Min:
2

No Requirements

BUSN1410 - Spreadsheet (Excel) - 2 - Credits

Course Overview

Course Prefix
BUSN

Course Number
1410

Department
Technology, Design & Technical Ed

Course Title
Spreadsheet (Excel)

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers spreadsheet operations, including several predefined spreadsheet functions, database functions, advanced functions, financial tools, macros, creating charts and graphs, and other graphic elements.

Credit Hours

Credit Hours Min:
2

Contact Hours

Contact Hours Min:
2

Billing Hours

Billing Hours Min:
2

Lecture Hours

Lecture Hours Min:
2

Special Approval

Instructor permission

No Requirements

BUSN1500 - Business Leadership Club - 1 - Credits

Course Overview

Course Prefix
BUSN

Course Number
1500

Department
Technology, Design & Technical Ed

Course Title
Business Leadership Club

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course provides students practical experience and leadership development through campus and community service projects. Participants may join national business organizations, PBL or DECA, to network and engage in state and national activities that enhance leadership skills and professional growth.

Credit Hours

Credit Hours Min:
1

Contact Hours

Contact Hours Min:
1

Billing Hours

Billing Hours Min:
1

Lecture Hours

Lecture Hours Min:
1

No Requirements

BUSN2010 - Financial Accounting - 4 - Credits

Course Overview

Course Prefix
BUSN

Course Number
2010

Department
Technology, Design & Technical Ed

Course Title
Financial Accounting

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces students to basic accounting principles necessary to prepare, understand, and use financial statements and financial reports. Students develop skills needed in the business world and an understanding of the role accounting plays in the U.S. economy.

Credit Hours

Credit Hours Min:
4

Contact Hours

Contact Hours Min:
4

Billing Hours

Billing Hours Min:
4

Lecture Hours

Lecture Hours Min:
4

No Requirements

BUSN2020 - Managerial Accounting - 4 - Credits

Course Overview

Course Prefix
BUSN

Course Number
2020

Department
Technology, Design & Technical Ed

Course Title
Managerial Accounting

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course explores the use of accounting information in business decision-making, covering product and activity-based costing, cost behavior, and budgeting for operational planning, control, and capital expenditures, equipping students to provide managers with relevant financial insights for effective organizational decisions.

Credit Hours

Credit Hours Min:
4

Contact Hours

Contact Hours Min:
4

Billing Hours

Billing Hours Min:
4

Lecture Hours

Lecture Hours Min:
4

Other Enrollment Recommendations
MATH1030 QUANTITATIVE REASONING (QL)

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- BUSN2010 - Financial Accounting

BUSN2050 - Business Law - 3 - Credits

Course Overview

Course Prefix
BUSN

Course Number
2050

Department
Technology, Design & Technical Ed

Course Title
Business Law

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students examine the nature of the legal environment among businesses, governments, and consumers. They explore constitutional law, legal reasoning, ethics, and procedures. They investigate issues facing national and international businesses, including torts, crimes, contracts, property, employment, agency, and bankruptcy.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

BUSN2100 - Business English - 4 - Credits

Course Overview

Course Prefix
BUSN

Course Number
2100

Department
Technology, Design & Technical Ed

Course Title
Business English

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course emphasizes the essentials of clear, concise, and correct business English. Students demonstrate professional writing and proofreading by using accurate spelling, grammar, punctuation, and sentence fluency skills.

Credit Hours

Credit Hours
Min:
4

Contact Hours

Contact Hours
Min:
4

Billing Hours

Billing Hours
Min:
4

Lecture Hours

Lecture Hours
Min:
4

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Explore the fundamentals of the English language and why they are necessary for effective communication.
2. Demonstrate the fundamentals of grammar, punctuation, spelling, and word usage.
3. Proofread and edit existing documents for clarity and accuracy.

BUSN2151 - Income Tax Preparation - 2 - Credits

Course Overview

Course Prefix
BUSN

Course Number
2151

Department
Technology, Design & Technical Ed

Course Title
Income Tax Preparation

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Income Tax Preparation gives students understanding and skill in preparation of the IRS 1040 form and supporting schedules. Students prepare and electronically file these documents as a service to low-income and senior citizen community members using the computer. Students will become aware of important individual decisions in reporting and financial tax planning.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

No Requirements

BUSN2160 - Introduction to Business Finance - 3 - Credits

Course Overview

Course Prefix
BUSN

Course Number
2160

Department
Technology, Design & Technical Ed

Course Title
Introduction to Business Finance

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Introductory course in business finance. Course topics will include the financial sector, financial analysis, budgeting, the time value of money, sources of financing, the cost of capital, and basic securities.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Other Enrollment Recommendations

Basic understanding of algebra; BUSN2010 FINANCIAL ACCOUNTING strongly recommended

No Requirements

BUSN2200 - Professional Communications - 3 - Credits

Course Overview

Course Prefix
BUSN

Course Number
2200

Department
Technology, Design & Technical Ed

Course Title
Professional Communications

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course is designed to give students the knowledge and opportunity to write clear, concise, and correct business correspondence. The course focuses on the most common forms of business writing: sales letters, memos, proposals, research reports, and resumes.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

BUSN2201 - Digital Marketing Concepts - 3 - Credits

Course Overview

Course Prefix
BUSN

Course Number
2201

Department
Technology, Design & Technical Ed

Course Title
Digital Marketing Concepts

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
An overview of the marketing function emphasizing concepts and terminology. Covers the components of the marketing mix, opportunities available in marketing, and the relationship between marketing and the world of business.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

BUSN2202 - International Marketing - 3 - Credits

Course Overview

Course Prefix
BUSN

Course Number
2202

Department
Technology, Design & Technical Ed

Course Title
International Marketing

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course explores the challenges of conducting business globally, emphasizing cultural and social diversity in international markets. Students examine global marketing strategies, pricing, distribution, advertising, and product development through lectures and in-class discussions, preparing for effective international business engagement.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- BUSN2201 - Digital Marketing Concepts

BUSN2211 - Introduction to Advertising - 2 - Credits

Course Overview

Course Prefix
BUSN

Course Number
2211

Department
Technology, Design & Technical Ed

Course Title
Introduction to Advertising

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Introduces students to the basic techniques used in advertising. Teaches the use of marketing information and research to develop effective advertising campaigns for different media. Other topics include basic design skills, advertising terminology, examples of effective advertising and simple market research.

Credit Hours

Credit Hours Min:
2

Contact Hours

Contact Hours Min:
2

Billing Hours

Billing Hours Min:
2

Lecture Hours

Lecture Hours Min:
2

Other Enrollment Recommendations

An introductory course in marketing, such as BUSN2201 DIGITAL MARKETING CONCEPTS, is recommended

No Requirements

BUSN2241 - Retail Merchandising - 2 - Credits

Course Overview

Course Prefix
BUSN

Course Number
2241

Department
Technology, Design & Technical Ed

Course Title
Retail Merchandising

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
An overview of the retailing process, the environment within which it operates, and the institutions and functions that are performed by retailers.

Credit Hours

Credit Hours Min:
2

Contact Hours

Contact Hours Min:
2

Billing Hours

Billing Hours Min:
2

Lecture Hours

Lecture Hours Min:
2

No Requirements

BUSN2251 - Consumer Behavior - 3 - Credits

Course Overview

Course Prefix
BUSN

Course Number
2251

Department
Technology, Design & Technical Ed

Course Title
Consumer Behavior

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Designed to apply psychological, sociological, economic and anthropological influences to the purchasing and the consumption of goods and services by the ultimate consumer.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

BUSN2320 - Small Business Management - CTE - 3 - Credits

Course Overview

Course Prefix
BUSN

Course Number
2320

Department
Technology, Design & Technical Ed

Course Title
Small Business Management - CTE

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Examines the many aspects of establishing and/or managing a small business. In addition to the basic underpinnings of a small business, the course focuses on human resource management, ethics, business communications, financial management and managing the growth and expansion.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

BUSN2321 - Small Business Management - 2 - Credits

Course Overview

Course Prefix
BUSN

Course Number
2321

Department
Technology, Design & Technical Ed

Course Title
Small Business Management

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Focuses on the unique aspects of establishing and operating a small business. Enables students interested in entrepreneurship to develop the necessary skills and tools for success. Topics will include small business practices, family businesses, franchising and formation of small businesses.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

No Requirements

BUSN2390 - Organizational Behavior - 3 - Credits

Course Overview

Course Prefix
BUSN

Course Number
2390

Department
Technology, Design & Technical Ed

Course Title
Organizational Behavior

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Comprehensive study of human behavior in the workplace. Focuses on the application of psychological theories of attribution, learning, motivation, and group processes to enhance productivity, quality, and job satisfaction.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerquisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ENGL1010 - Writing as Inquiry (CL1)

BUSN2420 - Database (Access) - 3 - Credits

Course Overview

Course Prefix
BUSN

Course Number
2420

Department
Technology, Design & Technical Ed

Course Title
Database (Access)

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers the utility and application of databases. Students learn database creation, editing, and querying. They create custom forms and reports, and design custom advanced queries for use in hyperlink fields and the internet.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

BUSN2430 - Desktop Publishing - 2 - Credits

Course Overview

Course Prefix
BUSN

Course Number
2430

Department
Technology, Design & Technical Ed

Course Title
Desktop Publishing

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces students to the concepts of desktop publishing using Microsoft Publisher. Concepts covered include such topics as creating business cards, letterheads, flyers, brochures, and booklets.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

No Requirements

BUSN2451 - Travel and Tourism - 2 - Credits

Course Overview

Course Prefix
BUSN

Course Number
2451

Department
Technology, Design & Technical Ed

Course Title
Travel and Tourism

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Designed to help students understand the underlying principle and practices of domestic and international tourism. Examines how these dimensions effect travel services, marketing strategies, planning, development, research and policy making in the area of hospitality management.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

No Requirements

BUSN2590 - Business Ethics and Social Responsibility - 2 - Credits

Course Overview

Course Prefix
BUSN

Course Number
2590

Department
Technology, Design & Technical Ed

Course Title
Business Ethics and Social Responsibility

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course examines business responsibility and ethics from multidisciplinary and managerial perspectives. Students explore current ethical theories and apply them to case studies covering consumer safety, advertising, affirmative action, harassment, employee rights, whistle-blowing, conflicts of interest, and workplace safety.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

No Requirements

BUSN2600 - Business Consulting - 1 - 3 Credits

Course Overview

Course Prefix
BUSN

Course Number
2600

Department
Technology, Design & Technical Ed

Course Title
Business Consulting

Grade Mode
Standard Letter

Repeat Status
NR

Course Description

This course gives business students practical consulting experience, exposing them to real-world business challenges. Under faculty supervision, students work with local small businesses, providing or assisting in consulting, training, and business counseling services, developing professional skills and practical knowledge.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

No Requirements

BUSN2620 - Digital Marketing - 3 - Credits

Course Overview

Course Prefix
BUSN

Course Number
2620

Department
Technology, Design & Technical Ed

Course Title
Digital Marketing

Grade Mode
Standard Letter

Repeat Status
NR

Course Description

Students will learn organic and paid social media marketing on today's leading platforms. This course will instruct branding, strategy, management, content marketing, tools, and analytics. Students will create marketing plans by performing best practices and methods of social media marketing.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Explain why social media marketing has become an integral part of a company's overall marketing strategy.
2. Demonstrate knowledge of social media marketing key terminology and definitions.
3. Analyze when and how to use social media marketing to maximize return on investment.
4. Execute social media marketing best practices for today's most popular platforms.
5. Demonstrate proficiency in using social media marketing platforms and tools.
6. Create and optimize social media ad campaigns.
7. Break down and report on social media analytics.

BUSN2700 - Business Forum - 1 - Credits

Course Overview

Course Prefix
BUSN

Course Number
2700

Department
Technology, Design & Technical Ed

Course Title
Business Forum

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course enhances student success during and after college by guiding portfolio creation, including resumes, exemplary work, and recommendation letters. It also reviews major business subjects, accounting, business law, economics, marketing, management, finance and how they interrelate.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

No Requirements

BUSN2710 - Entrepreneurial Mindset - 3 - Credits

Course Overview

Course Prefix
BUSN

Course Number
2710

Department
Technology, Design & Technical Ed

Course Title
Entrepreneurial Mindset

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course is designed to immerse students in the fundamental concepts of an entrepreneurial mindset and the unlimited opportunities this mindset can provide.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

BUSN2720 - Introduction to Project Management - 3 - Credits

Course Overview

Course Prefix
BUSN

Course Number
2720

Department
Technology, Design & Technical Ed

Course Title
Introduction to Project Management

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces students to the field of Project Management. Students develop essential skills to lead and manage projects of varying sizes, complexities, and industries. Students gain knowledge and confidence to apply best practices to their professional projects.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Identify concepts, terminology, and roles of project management.
2. Become familiar with tools and systems associated with project management.
3. Describe the Agile framework and various other methodologies used in project management.
4. Analyze the steps central to task management.

BUSN2800 - Computerized Accounting - 3 - Credits

Course Overview

Course Prefix
BUSN

Course Number
2800

Department
Technology, Design & Technical Ed

Course Title
Computerized Accounting

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Enhances students' understanding of fundamental accounting principles in General Ledger, Accounts Receivable, Accounts Payable, Inventory, and Payroll using Quickbooks software.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- BUSN1111 - Accounting Principles
  OR BUSN2010 - Financial Accounting

BUSN2977 - Internship Education Experiences - 1 - 3 Credits

Course Overview

Course Prefix
BUSN

Course Number
2977

Department
Technology, Design & Technical Ed

Course Title
Internship Education Experiences

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Provides for supervised on-the-job training in general business functions. Learning objectives, hours worked and credit agreements are approved by instructor.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

Special Approval
Instructor permission

No Requirements

BUSN2988 - Special Problems - 1 - 3 Credits

Course Overview

Course Prefix
BUSN

Course Number
2988

Department
Technology, Design & Technical Ed

Course Title
Special Problems

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Provides an opportunity for business students to study or research a special area of interest approved by an instructor. Time and credit is to be arranged.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

No Requirements

BUSN2999 - Workshop - 1 - 3 Credits

Course Overview

Course Prefix
BUSN

Course Number
2999

Department
Technology, Design & Technical Ed

Course Title
Workshop

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Designed to meet the changing needs of the Business or Non-Business student in today's world. In a workshop or seminar-type format, opportunity is provided to cover a broad range of topics and issues. Emphasis will be placed upon the most current thinking in business practice and technology.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

No Requirements

CAI5000 - Foundations of Anticipatory Intelligence - 3 - Credits

Course Overview

Course Prefix
CAI

Course Number
5000

Department
College of Arts & Sciences

Dual-Listed Courses
CAI6000 - Foundations of Anticipatory Intelligence

Course Title
Foundations of Anticipatory Intelligence

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces anticipatory intelligence, focusing on analytic frameworks, emerging issue analysis, and uncertainty. Students apply these tools to real-world contexts and develop skills in audience analysis and tailored analytic communication. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Registration Restrictions
Admission to the Anticipatory Intelligence Program

CAI5010 - Dynamics of Disruptive Technology - 3 - Credits

Course Overview

Course Prefix
CAI

Course Number
5010

Department
College of Arts & Sciences

Dual-Listed Courses
CAI6010 - Dynamics of Disruptive Technology

Course Title
Dynamics of Disruptive Technology

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course analyzes historical and contemporary patterns of the development of disruptive technology, including repercussions to society, economy, security and war. Students practice utilizing a historically-informed framework for anticipatory intelligence analysis of future disruptive technology. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Other Enrollment Recommendations
CAI5000 ANTICIPATORY INTEL FOUNDATIONS

CAI5020 - Cybersecurity and the Citizen - 3 - Credits

Course Overview

Course Prefix
CAI

Course Number
5020

Department
College of Arts & Sciences

Course Title
Cybersecurity and the Citizen

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces students to cybersecurity concepts and challenges at the policy, societal, business, and individual levels. It offers students from non-technical backgrounds a foundation for understanding cybersecurity issues and students from technical backgrounds a broader social context for cybersecurity.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Course Learning Objectives

Course Learning Outcomes
1. Introduce students without prior experience in the field to fundamental principles and concepts in cybersecurity.

2. Provide students from non-technical backgrounds a foundation for understanding cybersecurity issues and provide students from technical backgrounds a broader social and business context for cybersecurity challenges.

3. Instruct students on the complex interactions between cybersecurity challenges at the international, national, industry, community, and individual levels.

4. Equip students to employ basic cybersecurity and cyber hygiene best practices in their own lives.

CAI5200 - Threats and Resilience in the Knowledge Century - 3 - Credits

Course Overview

Course Prefix
CAI

Course Number
5200

Department
College of Arts & Sciences

Dual-Listed Courses
CAI6200 - Threats and Resilience in the Knowledge Century

Course Title
Threats and Resilience in the Knowledge Century

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course will expose students to a survey of emergent security challenges across multiple disciplines including artificial intelligence, cybersecurity, biotechnology, and climate science. Students are introduced to threat modeling and will evaluate principles and practices of resistance and resilience against identified challenges. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:
- CAI5000 - Foundations of Anticipatory Intelligence

CAI5300 - Art and Science of Anticipation - 3 - Credits

Course Overview

Course Prefix
CAI

Course Number
5300

Department
College of Arts & Sciences

Dual-Listed Courses
CAI6300 - Art and Science of Anticipation

Course Title
Art and Science of Anticipation

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course offers advanced training in cognitive methods, qualitative tools, and team-oriented processes for more accurately anticipating and predicting future developments and events. It utilizes a student-led course structure to allow students to actively model substantive content. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:
- CAI5000 - Foundations of Anticipatory Intelligence

CAI5310 - Strategic Culture and Analytics - 3 - Credits

Course Overview

Course Prefix
CAI

Course Number
5310

Department
College of Arts & Sciences

Dual-Listed Courses
CAI6310 - Strategic Culture and Analytics

Course Title
Strategic Culture and Analytics

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides advanced training in interdisciplinary social science research methods, the Cultural Topography (CTops) analytic methodology, and Standard Analytic Techniques (SATs). It equips students with critical hard skills in intelligence, strategic culture, and human domain analysis. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- CAI5000 - Foundations of Anticipatory Intelligence

CAI5400 - Ethics and Emerging Technology - 3 - Credits

Course Overview

Course Prefix
CAI

Course Number
5400

Department
College of Arts & Sciences

Cross-Listed Courses
PHIL5400 - Ethics and Emerging Technology (DHA)

Dual-Listed Courses
CAI6400 - Ethics and Emerging Technology

Course Title
Ethics and Emerging Technology

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces students to key ethical frameworks and concepts applied to questions of emerging technology, both by considering macro-level questions of technology and its impact on human flourishing as well as applied tech ethics case studies. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

CAI5500 - Strategic Intelligence - 3 - Credits

Course Overview

Course Prefix
CAI

Course Number
5500

Department
College of Arts & Sciences

Dual-Listed Courses
CAI6500 - Strategic Intelligence

Course Title
Strategic Intelligence

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces students to the intelligence analysis cycle and foundational strategic intelligence tradecraft. Students have the opportunity to learn the principles of strategic intelligence and apply analysis techniques to topical projects. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Admission to a program in the Center for Anticipatory Intelligence

CAI5510 - Russian Security Affairs - 3 - Credits

Course Overview

Course Prefix
CAI

Course Number
5510

Department
College of Arts & Sciences

Dual-Listed Courses
CAI6510 - Russian Security Affairs

Course Title
Russian Security Affairs

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides an in-depth examination of contemporary international security issues relating to the Russian Federation. It combines depth area knowledge with a rigorous emphasis on applied skills in research, analysis, and writing. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

CAI5520 - Chinese Security Affairs - 3 - Credits

Course Overview

Course Prefix
CAI

Course Number
5520

Department
College of Arts & Sciences

Dual-Listed Courses
CAI6520 - Chinese Security Affairs

Course Title
Chinese Security Affairs

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides an in-depth examination of contemporary international security issues relating to the People's Republic of China. It combines depth area knowledge with a rigorous emphasis on applied skills in research, analysis, and writing. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

CAI5530 - Weapons of Mass Destruction - 3 - Credits

Course Overview

Course Prefix
CAI

Course Number
5530

Department
College of Arts & Sciences

Dual-Listed Courses
CAI6530 - Weapons of Mass Destruction

Course Title
Weapons of Mass Destruction

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides an in-depth examination of international security issues related to weapons of mass destruction, including nuclear, radiological, biological, and chemical weapons. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

CAI5540 - Future Space Security - 3 - Credits

Course Overview

Course Prefix
CAI

Course Number
5540

Department
College of Arts & Sciences

Dual-Listed Courses
CAI6540 - Future Space Security

Course Title
Future Space Security

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides an in-depth examination of international security issues in outer space, including an assessment of international cooperation, competition, or conflict in space, and the risk of space weather-related natural disasters. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

CAI5550 - Irregular Warfare - 3 - Credits

Course Overview

Course Prefix
CAI

Course Number
5550

Department
College of Arts & Sciences

Dual-Listed Courses
CAI6550 - Irregular Warfare

Course Title
Irregular Warfare

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course delves into the complexities of Irregular Warfare, exploring its elusive definition, challenges in combat, and strategies for resolution. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Admission to a program in the Center for Anticipatory Intelligence

CAI5600 - Biosecurity I - 3 - Credits

Course Overview

Course Prefix
CAI

Course Number
5600

Department
College of Arts & Sciences

Cross-Listed Courses
ASTE5600 - Biosecurity I

Dual-Listed Courses
CAI6600 - Biosecurity I

Course Title
Biosecurity I

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course is the first in a two-class series providing an in-depth examination of interdisciplinary biosecurity issues and challenges, potentially including risks of a shifting climate, infectious diseases, quarantined pests, invasive alien species, living modified organisms, and biological weapons. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

CAI5610 - Biosecurity II - 3 - Credits

Course Overview

Course Prefix
CAI

Course Number
5610

Department
College of Arts & Sciences

Cross-Listed Courses
ASTE5610 - Biosecurity II

Dual-Listed Courses
CAI6610 - Biosecurity II

Course Title
Biosecurity II

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course is the second in a two-class series providing an in-depth examination of interdisciplinary biosecurity issues and challenges, potentially including risks of a shifting climate, infectious diseases, quarantined pests, invasive alien species, living modified organisms, and biological weapons. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

CAI5620 - Food Security and Solutions - 3 - Credits

Course Overview

Course Prefix
CAI

Course Number
5620

Department
College of Arts & Sciences

Cross-Listed Courses
ASTE5620 - Food Security and Solutions

Dual-Listed Courses
CAI6620 - Food Security and Solutions

Course Title
Food Security and Solutions

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course gives students a deep-dive examination of global food systems' security and sustainability challenges. It employs a holistic view of food security and engages a multidisciplinary approach to solutions for building resilience in food systems. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

CAI5630 - Water Security and Solutions - 3 - Credits

Course Overview

Course Prefix
CAI

Course Number
5630

Department
College of Arts & Sciences

Dual-Listed Courses
CAI6630 - Water Security and Solutions

Course Title
Water Security and Solutions

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides a deep-dive examination of security and sustainability challenges affecting the global water cycle and localized water systems. It employs a holistic view of water security and engages a multidisciplinary approach to solutions for water system resilience. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

CAI5800 - Continuing Education in Anticipatory Intelligence - 0.5 - 3 Credits

Course Overview

Course Prefix
CAI

Course Number
5800

Department
College of Arts & Sciences

Course Title
Continuing Education in Anticipatory Intelligence

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
This course provides concentrated offerings to increase participants' knowledge and skills in current anticipatory intelligence topics or curriculum areas.

Credit Hours

Credit Hours Min:
0.5

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
0.5

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
0.5

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
0.5

Lecture Hours Max:
3

Lecture Hours Operator:
TO

No Requirements

CAI5810 - Training for Public Sector Professionals - 0.5 - 3 Credits

Course Overview

Course Prefix
CAI

Course Number
5810

Department
College of Arts & Sciences

Course Title
Training for Public Sector Professionals

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
This course provides concentrated offerings to increase participants' knowledge and skills in current anticipatory intelligence topics or curriculum areas with particular relevance to public sector professionals.

Credit Hours

Credit Hours Min:
0.5

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
0.5

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
0.5

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
0.5

Lecture Hours Max:
3

Lecture Hours Operator:
TO

No Requirements

CAI5820 - Training for Private Sector Professionals - 0.5 - 3 Credits

Course Overview

Course Prefix
CAI

Course Number
5820

Department
College of Arts & Sciences

Course Title
Training for Private Sector Professionals

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
This course provides concentrated offerings to increase participants' knowledge and skills in current anticipatory intelligence topics or curriculum areas with particular relevance to private sector professionals.

Credit Hours

Credit Hours Min:
0.5

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
0.5

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
0.5

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
0.5

Lecture Hours Max:
3

Lecture Hours Operator:
TO

No Requirements

CAI5830 - Training for Military Service Members - 0.5 - 3 Credits

Course Overview

Course Prefix
CAI

Course Number
5830

Department
College of Arts & Sciences

Course Title
Training for Military Service Members

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
This course provides concentrated offerings to increase participants' knowledge and skills in current anticipatory intelligence topics or curriculum areas with particular relevance to military service members.

Credit Hours

Credit Hours Min:
0.5

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
0.5

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
0.5

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
0.5

Lecture Hours Max:
3

Lecture Hours Operator:
TO

No Requirements

CAI5880 - Critical Soft Skills - 3 - Credits

Course Overview

Course Prefix
CAI

Course Number
5880

Department
College of Arts & Sciences

Course Title
Critical Soft Skills

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course focuses on acquiring and practicing critical soft-skills techniques and tools in the areas of self-assessment, facilitation and team dynamics, leadership, and creativity.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Course Learning Objectives

Course Learning Outcomes

1. Introduce students to soft skills that correlate strongly and positively with individual and organizational success.

2. Engage students in the development of soft skills through student-led team tasks and discussions.

3. Familiarize students with key contributions on soft skills in the academic and professional literature.

4. Facilitate student practice with critical soft skills for current and future professional use, including self-assessment, facilitation and team dynamics, leadership, and creativity.

CAI5890 - Special Topics in Anticipatory Intelligence - 1 - 3 Credits

Course Overview

Course Prefix
CAI

Course Number
5890

Department
College of Arts & Sciences

Dual-Listed Courses
CAI6890 - Special Topics in Anticipatory Intelligence

Course Title
Special Topics in Anticipatory Intelligence

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course examines special topics within anticipatory intelligence and is intended to be a vehicle for new or unique courses not offered as part of the regular anticipatory intelligence curriculum. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

CAI5900 - Directed Readings and Research - 1 - 6 Credits

Course Overview

Course Prefix
CAI

Course Number
5900

Department
College of Arts & Sciences

Dual-Listed Courses
CAI6900 - Directed Readings and Research

Course Title
Directed Readings and Research

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course consists of selected readings and research, a specialized tutorial, or an experiential learning project individually assigned and supervised by a faculty member. Prior approval of the supervising faculty member is required. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
6

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
6

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
6

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
6

Lecture Hours Operator:
TO

Special Approval
Instructor permission

CAI5910 - Public Sector Internship - 1 - 6 Credits

Course Overview

Course Prefix
CAI

Course Number
5910

Department
College of Arts & Sciences

Dual-Listed Courses
CAI6910 - Public Sector Internship

Course Title
Public Sector Internship

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course comprises a semester-length internship with a public sector entity, including government or nonprofit organizations. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
6

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
6

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
6

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
6

Lecture Hours Operator:
TO

Special Approval
Instructor permission

CAI5920 - Private Sector Internship - 1 - 6 Credits

Course Overview

Course Prefix
CAI

Course Number
5920

Department
College of Arts & Sciences

Dual-Listed Courses
CAI6920 - Private Sector Internship

Course Title
Private Sector Internship

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course comprises a semester-length internship with a private sector entity, including corporations and small business entities. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
6

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
6

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
6

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
6

Lecture Hours Operator:
TO

Special Approval
Instructor permission

CAI5930 - I3SC Labs Internship - 1 - 6 Credits

Course Overview

Course Prefix
CAI

Course Number
5930

Department
College of Arts & Sciences

Dual-Listed Courses
CAI6930 - I3SC Labs Internship

Course Title
I3SC Labs Internship

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course comprises a semester-length internship with a student lab facilitated under the Intermountain Intelligence, Industry, and Security Consortium (I3SC). Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
6

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
6

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
6

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
6

Lecture Hours Operator:
TO

Special Approval
Instructor permission

CAI5940 - CAI Field Experience - 1 - 3 Credits

Course Overview

Course Prefix
CAI

Course Number
5940

Department
College of Arts & Sciences

Dual-Listed Courses
CAI6940 - CAI Field Experience

Course Title
CAI Field Experience

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course comprises a faculty-led field experience focused on a specific issue area of relevance to the Anticipatory Intelligence curriculum. Travel sites, coursework, and duration of field experience are determined by the instructor. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

CAI6000 - Foundations of Anticipatory Intelligence - 3 - Credits

Course Overview

Course Prefix
CAI

Course Number
6000

Department
College of Arts & Sciences

Dual-Listed Courses
CAI5000 - Foundations of Anticipatory Intelligence

Course Title
Foundations of Anticipatory Intelligence

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces anticipatory intelligence, focusing on analytic frameworks, emerging issue analysis, and uncertainty. Students apply these tools to real-world contexts and develop skills in audience analysis and tailored analytic communication. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Registration Restrictions
Admission to the Anticipatory Intelligence Program

CAI6010 - Dynamics of Disruptive Technology - 3 - Credits

Course Overview

Course Prefix
CAI

Course Number
6010

Department
College of Arts & Sciences

Dual-Listed Courses
CAI5010 - Dynamics of Disruptive Technology

Course Title
Dynamics of Disruptive Technology

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course analyzes historical and contemporary patterns of the development of disruptive technology, including repercussions to society, economy, security and war. Students practice utilizing a historically-informed framework for anticipatory intelligence analysis of future disruptive technology. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Other Enrollment Recommendations
CAI5000 ANTICIPATORY INTEL FOUNDATIONS or CAI6000 ANTICIPATORY INTEL FOUNDATIONS

CAI6200 - Threats and Resilience in the Knowledge Century - 3 - Credits

Course Overview

Course Prefix
CAI

Course Number
6200

Department
College of Arts & Sciences

Dual-Listed Courses
CAI5200 - Threats and Resilience in the Knowledge Century

Course Title
Threats and Resilience in the Knowledge Century

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course exposes students to a survey of emergent security challenges across multiple disciplines, including artificial intelligence, cybersecurity, biotechnology, and climate science. Students are introduced to threat modeling and evaluate principles and practices of resistance and resilience against identified challenges. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- CAI5000 - Foundations of Anticipatory Intelligence

CAI6300 - Art and Science of Anticipation - 3 - Credits

Course Overview

Course Prefix
CAI

Course Number
6300

Department
College of Arts & Sciences

Dual-Listed Courses
CAI5300 - Art and Science of Anticipation

Course Title
Art and Science of Anticipation

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course offers advanced training in cognitive methods, qualitative tools, and team-oriented processes for more accurately anticipating and predicting future developments and events. It utilizes a student-led course structure to allow students to actively model substantive content. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:
- CAI5000 - Foundations of Anticipatory Intelligence

CAI6310 - Strategic Culture and Analytics - 3 - Credits

Course Overview

Course Prefix
CAI

Course Number
6310

Department
College of Arts & Sciences

Dual-Listed Courses
CAI5310 - Strategic Culture and Analytics

Course Title
Strategic Culture and Analytics

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides advanced training in interdisciplinary social science research methods, the Cultural Topography (CTops) analytic methodology, and Standard Analytic Techniques (SATs). It equips students with critical hard skills in intelligence, strategic culture, and human domain analysis. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:
- CAI5000 - Foundations of Anticipatory Intelligence

CAI6400 - Ethics and Emerging Technology - 3 - Credits

Course Overview

Course Prefix
CAI

Course Number
6400

Department
College of Arts & Sciences

Dual-Listed Courses
CAI5400 - Ethics and Emerging Technology

Course Title
Ethics and Emerging Technology

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces students to key ethical frameworks and concepts applied to questions of emerging technology, both by considering macro-level questions of technology and “the good life” and applied tech ethics case studies. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- CAI5000 - Foundations of Anticipatory Intelligence

May be taken concurrently

CAI6500 - Strategic Intelligence - 3 - Credits

Course Overview

Course Prefix
CAI

Course Number
6500

Department
College of Arts & Sciences

Dual-Listed Courses
CAI5500 - Strategic Intelligence

Course Title
Strategic Intelligence

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces students to the intelligence analysis cycle and foundational strategic intelligence tradecraft. Students have the opportunity to learn the principles of strategic intelligence and apply analysis techniques to topical projects. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Admission to a program in the Center for Anticipatory Intelligence

No Requirements

CAI6510 - Russian Security Affairs - 3 - Credits

Course Overview

Course Prefix
CAI

Course Number
6510

Department
College of Arts & Sciences

Dual-Listed Courses
CAI5510 - Russian Security Affairs

Course Title
Russian Security Affairs

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides an in-depth examination of contemporary international security issues relating to the Russian Federation. It combines depth area knowledge with a rigorous emphasis on applied skills in research, analysis, and writing. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

CAI6520 - Chinese Security Affairs - 3 - Credits

Course Overview

Course Prefix
CAI

Course Number
6520

Department
College of Arts & Sciences

Dual-Listed Courses
CAI5520 - Chinese Security Affairs

Course Title
Chinese Security Affairs

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides an in-depth examination of contemporary international security issues relating to the People's Republic of China. It combines depth area knowledge with a rigorous emphasis on applied skills in research, analysis, and writing. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

CAI6530 - Weapons of Mass Destruction - 3 - Credits

Course Overview

Course Prefix
CAI

Course Number
6530

Department
College of Arts & Sciences

Dual-Listed Courses
CAI5530 - Weapons of Mass Destruction

Course Title
Weapons of Mass Destruction

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides an in-depth examination of international security issues related to weapons of mass destruction, including nuclear, radiological, biological, and chemical weapons. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

CAI6540 - Future Space Security - 3 - Credits

Course Overview

Course Prefix
CAI

Course Number
6540

Department
College of Arts & Sciences

Dual-Listed Courses
CAI5540 - Future Space Security

Course Title
Future Space Security

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides an in-depth examination of international security issues in outer space, including an assessment of international cooperation, competition, or conflict in space, and the risk of space weather-related natural disasters. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

CAI6550 - Irregular Warfare - 3 - Credits

Course Overview

Course Prefix
CAI

Course Number
6550

Department
College of Arts & Sciences

Dual-Listed Courses
CAI5550 - Irregular Warfare

Course Title
Irregular Warfare

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course delves into the complexities of Irregular Warfare, exploring its elusive definition, challenges in combat, and strategies for resolution. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Admission to a program in the Center for Anticipatory Intelligence

No Requirements

CAI6600 - Biosecurity I - 3 - Credits

Course Overview

Course Prefix
CAI

Course Number
6600

Department
College of Arts & Sciences

Cross-Listed Courses
ASTE6600 - Biosecurity I

Dual-Listed Courses
CAI5600 - Biosecurity I

Course Title
Biosecurity I

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course is the first in a two-class series providing an in-depth examination of interdisciplinary biosecurity issues and challenges, potentially including risks of a shifting climate, infectious diseases, quarantined pests, invasive alien species, living modified organisms, and biological weapons. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

CAI6610 - Biosecurity II - 3 - Credits

Course Overview

Course Prefix
CAI

Course Number
6610

Department
College of Arts & Sciences

Cross-Listed Courses
ASTE6610 - Biosecurity II

Dual-Listed Courses
CAI5610 - Biosecurity II

Course Title
Biosecurity II

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course is the second in a two-class series providing an in-depth examination of interdisciplinary biosecurity issues and challenges, potentially including risks of a shifting climate, infectious diseases, quarantined pests, invasive alien species, living modified organisms, and biological weapons. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- CAI6600 - Biosecurity I

CAI6620 - Food Security and Solutions - 3 - Credits

Course Overview

Course Prefix
CAI

Course Number
6620

Department
College of Arts & Sciences

Cross-Listed Courses
ASTE6620 - Food Security and Solutions

Dual-Listed Courses
CAI5620 - Food Security and Solutions

Course Title
Food Security and Solutions

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course gives students a deep-dive examination of global food systems' security and sustainability challenges. It employs a holistic view of food security and engages a multidisciplinary approach to solutions for building resilience in food systems. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

CAI6630 - Water Security and Solutions - 3 - Credits

Course Overview

Course Prefix
CAI

Course Number
6630

Department
College of Arts & Sciences

Dual-Listed Courses
CAI5630 - Water Security and Solutions

Course Title
Water Security and Solutions

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides a deep-dive examination of security and sustainability challenges affecting the global water cycle and localized water systems. It employs a holistic view of water security and engages a multidisciplinary approach to solutions for water system resilience. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

CAI6890 - Special Topics in Anticipatory Intelligence - 1 - 3 Credits

Course Overview

Course Prefix
CAI

Course Number
6890

Department
College of Arts & Sciences

Dual-Listed Courses
CAI5890 - Special Topics in Anticipatory Intelligence

Course Title
Special Topics in Anticipatory Intelligence

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course examines special topics within anticipatory intelligence and is intended to be a vehicle for new or unique courses not offered as part of the regular anticipatory intelligence curriculum. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

No Requirements

CAI6900 - Directed Readings and Research - 1 - 6 Credits

Course Overview

Course Prefix
CAI

Course Number
6900

Department
College of Arts & Sciences

Dual-Listed Courses
CAI5900 - Directed Readings and Research

Course Title
Directed Readings and Research

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course consists of selected readings and research, a specialized tutorial, or an experiential learning project individually assigned and supervised by a faculty member. Prior approval of the supervising faculty member is required. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
6

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
6

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
6

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
6

Lecture Hours Operator:
TO

Special Approval
Instructor permission

No Requirements

CAI6910 - Public Sector Internship - 1 - 6 Credits

Course Overview

Course Prefix
CAI

Course Number
6910

Department
College of Arts & Sciences

Dual-Listed Courses
CAI5910 - Public Sector Internship

Course Title
Public Sector Internship

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course comprises a semester-length internship with a public sector entity, including government or nonprofit organizations. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
6

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
6

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
6

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
6

Lecture Hours Operator:
TO

Special Approval
Instructor permission

No Requirements

CAI6920 - Private Sector Internship - 1 - 6 Credits

Course Overview

Course Prefix
CAI

Course Number
6920

Department
College of Arts & Sciences

Dual-Listed Courses
CAI5920 - Private Sector Internship

Course Title
Private Sector Internship

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course comprises a semester-length internship with a private sector entity, including corporations and small business entities. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
6

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
6

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
6

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
6

Lecture Hours Operator:
TO

Special Approval
Instructor permission

No Requirements

CAI6930 - I3SC Labs Internship - 1 - 6 Credits

Course Overview

Course Prefix
CAI

Course Number
6930

Department
College of Arts & Sciences

Dual-Listed Courses
CAI5930 - I3SC Labs Internship

Course Title
I3SC Labs Internship

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course comprises a semester-length internship with a student lab facilitated under the Intermountain Intelligence, Industry, and Security Consortium (I3SC). Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
6

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
6

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
6

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
6

Lecture Hours Operator:
TO

Special Approval
Instructor permission

No Requirements

CAI6940 - CAI Field Experience - 1 - 3 Credits

Course Overview

Course Prefix
CAI

Course Number
6940

Department
College of Arts & Sciences

Dual-Listed Courses
CAI5940 - CAI Field Experience

Course Title
CAI Field Experience

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course comprises a faculty-led field experience focused on a specific issue area of relevance to the Anticipatory Intelligence curriculum. Travel sites, coursework, and duration of field experience are determined by the instructor. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

No Requirements

CAI6990 - Graduate Capstone Experience - 3 - Credits

Course Overview

Course Prefix
CAI

Course Number
6990

Department
College of Arts & Sciences

Course Title
Graduate Capstone Experience

Grade Mode
Temporary Standard Letter

Repeat Status
NR

Course Description
This course completes graduate engagement with the anticipatory intelligence curriculum through an advisor-approved project, collaboration, or internship applying the anticipatory intelligence toolkit to the student's professional field.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

CAS6001 - Introduction to Climate Adaptation Sciences - 1 - 2 Credits

Course Overview

Course Prefix
CAS

Course Number
6001

Department
General University

Course Title
Introduction to Climate Adaptation Sciences

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
Students learn the fundamentals of climate adaptation and gain insights into the main climate issues affecting the world, the US, and the western United States. They explore what global, national, and local organizations do to address these issues.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
2

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
2

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
2

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
2

Lecture Hours Operator:
TO

Other Enrollment Recommendations

The 1 credit section is intended for students who are not part of the Climate Adaptation Sciences (CAS) Specilization/Program.

The 2 credit section is intended for students completing the Climate Adaptation Specilization

Course Learning Objectives

Course Learning Outcomes

By the end of this course, students will be able to:

1. Explain the basics of the science of climate change and its impacts at the global, national, and local levels—especially in Utah.
2. Analyze long-term climate trends and distinguish between natural variability and human-driven change.
3. Summarize how climate change is understood by the public and communicated across different sectors.
4. Identify key players in climate adaptation, including business, scientists, policymakers, and community leaders.
5. Explain how climate projections are generated and interpret data from Global Climate Models (GCMs), including CMIP6 and downscaling techniques.
6. Apply systems thinking to explore the interconnectedness of climate, natural systems, economy, and society.
7. Evaluate the roles of climate justice, mitigation, and adaptation, and recognize the risks of maladaptation.
8. Collaborate in interdisciplinary teams and partner with scientists, managers, and policy makers to solve real-world problems

CAS6002 - Climate Adaptation Science Studio I - 2 - Credits

Course Overview

Course Prefix
CAS

Course Number
6002

Department
General University

Course Title
Climate Adaptation Science Studio I

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This studio course is the first of a two-part required sequence, situated in the academic year between two summer internships associated with the CAS program focusing on core training in informatics, interdisciplinary research methods, risk assessment and decision-making under risk, a variety of modeling and analytical approaches from climate, ecology, and social sciences, and project management.

Credit Hours

Credit Hours Min:
2

Contact Hours

Contact Hours Min:
2

Billing Hours

Billing Hours Min:
2

Lecture Hours

Lecture Hours Min:
2

No Requirements

Course Learning Objectives

Course Learning Outcomes
By the end of this course, students will be able to:

1. Use climate projections data to assess and describe plausible, relevant impacts of future climate change on society.
2. Identify needs or uses for future climate data and impact assessments, and design user-friendly content that supports those applications.
3. Formulate research questions about their project outcomes and design and execute a plan to evaluate the product(s) they develop.
4. Identify how disciplinary knowledge in their respective fields of expertise can be applied to support a team-based project and work together effectively to devise and carry out a project plan.
5. Synthesize feedback from actual and potential users, and operationalize that feedback to improve their plans and products.

CAS6003 - Climate Adaptation Science Studio II - 2 - Credits

Course Overview

Course Prefix
CAS

Course Number
6003

Department
General University

Course Title
Climate Adaptation Science Studio II

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course is the second of a two-part required sequence. It emphasizes core training in informatics, interdisciplinary research methods, risk assessment and decision-making under risk, a variety of modeling and analytical approaches from climate, ecology, and social sciences, and project management.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- CAS6002 - Climate Adaptation Science Studio I

Course Learning Objectives

Course Learning Outcomes

By the end of this course, students will be able to:

1. Use climate projections data to assess and describe plausible, relevant impacts of future climate change on society.
2. Identify needs or uses for future climate data and impact assessments, and design user-friendly content that supports those applications.
3. Formulate research questions about their project outcomes and design and execute a plan to evaluate the product(s) they develop.
4. Identify how disciplinary knowledge in their respective fields of expertise can be applied to support a team-based project and work together effectively to devise and carry out a project plan.
5. Synthesize feedback from actual and potential users, and operationalize that feedback to improve their plans and products.

CAS6004 - Climate Adaptation Science Internship I - 1 - Credits

Course Overview

Course Prefix
CAS

Course Number
6004

Department
General University

Course Title
Climate Adaptation Science Internship I

Grade Mode
Pass/Fail

Repeat Status
NR

Course Description
Students spend six to ten weeks with a host organization, providing the student with real-world practical training and an opportunity to actively engage in climate adaptation science.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

No Requirements

CAS6005 - Climate Adaptation Science Internship II - - Credits

Course Overview

Course Prefix
CAS

Course Number
6005

Department
General University

Course Title
Climate Adaptation Science Internship II

Grade Mode
Pass/Fail

Repeat Status
NR

Course Description
Students spend six to ten weeks with the host organization, providing the student the opportunity to actively engage in actionable climate adaptation science and continue work started in their first internship.

Credit Hours

Credit Hours
Min:
0

Contact Hours

Contact Hours
Min:
0

Billing Hours

Billing Hours
Min:
0

Lecture Hours

Lecture Hours
Min:
0

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- CAS6004 - Climate Adaptation Science Internship I

CAS6007 - Climate Adaptation Sciences Interdisciplinary Research Colloquium - 1 - Credits

Course Overview

Course Prefix
CAS

Course Number
6007

Department
General University

Course Title
Climate Adaptation Sciences Interdisciplinary Research Colloquium

Grade Mode
Pass/Fail

Repeat Status
NR

Course Description
This course consists of a series of research presentations given by faculty and guest scholars. Students have early exposure to research topics and assemble research-driven student groups to formulate, discuss and answer research questions, and write reports on their findings.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Earn at least 2 credits from the following:

- CAS6007 - Climate Adaptation Sciences Interdisciplinary Research Colloquium

Course Learning Objectives

Course Learning Outcomes

By the end of this course, students will be able to:

1. Collaborate effectively in interdisciplinary research teams to advance the project initiated in the Fall semester.
2. Apply project management skills to define, maintain, and adapt research timelines.
3. Develop and refine a full research proposal that integrates scientific rigor, clear objectives, and actionable outcomes.
4. Communicate scientific findings through writing, presentations, and discussions tailored to diverse audiences.
5. Engage meaningfully with stakeholders and policymakers to connect research outcomes with decision-making processes.
6. Design and iterate a climate data product or service that addresses real-world needs and reflects interdisciplinary insights.
7. Synthesize knowledge across disciplines to strengthen the relevance and impact of climate adaptation research.

CAS6210 - Measuring and Modeling the Terrestrial Carbon Cycle - 3 - Credits

Course Overview

Course Prefix
CAS

Course Number
6210

Department
General University

Cross-Listed Courses

BIOL6210 - Measuring and Modeling the Terrestrial Carbon Cycle

Course Title

Measuring and Modeling the Terrestrial Carbon Cycle

Grade Mode
Standard Letter

Repeat Status
NR

Course Description

This course focuses on the ecological processes that drive the terrestrial carbon (C) cycle and examines how they are represented in predictive mathematical models.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- MATH1210 - Calculus I (QL)
- BIOL6200 - Biogeochemistry of Terrestrial Ecosystems
  OR PSC6200 - Biogeochemistry of Terrestrial Ecosystems (Inactive)
  OR WILD6200 - Biogeochemistry of Terrestrial Ecosystems

CAS6270 - Theoretical Ecology - 3 - Credits

Course Overview

Course Prefix
CAS

Course Number
6270

Department
General University

Cross-Listed Courses
BIOL6270 - Theoretical Ecology

Course Title
Theoretical Ecology

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers seminal concepts of theoretical ecology and introduces the use of mathematical models of ecology. An independent course project is required for graduate credit.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

CAS6310 - Linear Regression and Beyond for Life Scientists - 1 - 2 Credits

Course Overview

Course Prefix
CAS

Course Number
6310

Department
General University

Dual-Listed Courses
BIOL6310 - Linear Regression and Beyond for Life Scientists

Course Title
Linear Regression and Beyond for Life Scientists

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This is an overview of multiple regression (including ANCOVA), generalized linear models, and an introduction to mixed effects, time series, and spatial models with an emphasis on practical tools and applications to the life sciences.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
2

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
2

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
2

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
2

Lecture Hours Operator:
TO

No Requirements

CAS6320 - Summarizing complex datasets and machine learning for life scientists - 1 - 2 Credits

Course Overview

Course Prefix
CAS

Course Number
6320

Department
General University

Cross-Listed Courses
BIOL6320 - Summarizing complex datasets and machine learning for life scientists

Course Title
Summarizing complex datasets and machine learning for life scientists

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students learn the principles of multivariate analysis, machine learning tools, and interactive data visualization applied to complex data sets for life scientists. A project and paper are required for the two credit course.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
2

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
2

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
2

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
2

Lecture Hours Operator:
TO

No Requirements

CAS6889 - Environmental Risks and Decision Making - 1 - Credits

Course Overview

Course Prefix
CAS

Course Number
6889

Department
General University

Course Title
Environmental Risks and Decision Making

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course focuses on how people make decisions in the context of environmental risks, how decisions affect the vulnerability of ecosystems and society to environmental change, and strategies for improving decision-making in these contexts.

Credit Hours

Credit Hours Min:
1

Contact Hours

Contact Hours Min:
1

Billing Hours

Billing Hours Min:
1

Lecture Hours

Lecture Hours Min:
1

CAS6890 - Project Management in the Sciences - 0.5 - Credits

Course Overview

Course Prefix
CAS

Course Number
6890

Department
General University

Course Title
Project Management in the Sciences

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This class explores the unique requirements of project management in the physical, natural, and social sciences.

Credit Hours

Credit Hours Min:
0.5

Contact Hours

Contact Hours Min:
0.5

Billing Hours

Billing Hours Min:
0.5

Lecture Hours

Lecture Hours Min:
0.5

No Requirements

CAS6900 - Graduate Special Topics - 0.5 - 3 Credits

Course Overview

Course Prefix
CAS

Course Number
6900

Department
General University

Course Title
Graduate Special Topics

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course offers credit for special assignments, reading, and seminars beyond regularly scheduled courses.

Credit Hours

Credit Hours Min:
0.5

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
0.5

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
0.5

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
0.5

Lecture Hours Max:
3

Lecture Hours Operator:
TO

No Requirements

CCA1150 - Arts Project - 0.5 - Credits

Course Overview

Course Prefix
CCA

Course Number
1150

Department
College of Arts & Sciences

Course Title
Arts Project

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Elective course available to all students who wish to extend the exploration of the fine and cultural arts beyond the classroom. Students attend a minimum number of cultural programs and submit written evaluation reports. Class includes lecture, lab and/or field trips.

Credit Hours

Credit Hours Min:
0.5

Contact Hours

Contact Hours Min:
0.5

Billing Hours

Billing Hours Min:
0.5

Lecture Hours

Lecture Hours Min:
0.5

No Requirements

CCA1250 - Interdisciplinary Workshop - 1 - 5 Credits

Course Overview

Course Prefix
CCA

Course Number
1250

Department
College of Arts & Sciences

Course Title
Interdisciplinary Workshop

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Students study a specific area of discipline that is not part of the department's regularly scheduled curriculum.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
5

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
5

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
5

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
5

Lecture Hours Operator:
TO

No Requirements

CCA2250 - Introductory Internship/Co-op - 1 - 5 Credits

Course Overview

Course Prefix
CCA

Course Number
2250

Department
College of Arts & Sciences

Course Title
Introductory Internship/Co-op

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
Introductory-level educational work experience in an internship or cooperative education position approved by the college.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
5

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
5

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
5

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
5

Lecture Hours Operator:
TO

No Requirements

CCA3050 - The Arts in Cultural Context - 3 - Credits

Course Overview

Course Prefix
CCA

Course Number
3050

Department
College of Arts & Sciences

Course Title
The Arts in Cultural Context

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Interdisciplinary study of a work, figure, or theme in the arts. Topics vary.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

CCA3060 - Quantitative Methods for the Arts (QI) - 3 - Credits

Course Overview

Course Prefix
CCA

Course Number
3060

Department
College of Arts & Sciences

Course Title
Quantitative Methods for the Arts (QI)

General Education Attribute
QI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
From budgeting to sales analysis and from performance evaluation to the economic impact of cultural activities, students will grapple with the theoretical knowledge and practical skills required of successful arts practitioners and prepared arts advocates.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Course Sets:

- Quantitative Literacy (QL) Course

CCA3070 - Unveiling the Anthropocene (DSC/QI) - 3 - Credits

Course Overview

Course Prefix
CCA

Course Number
3070

Department
College of Arts & Sciences

Course Title
Unveiling the Anthropocene (DSC/QI)

General Education Attribute
DSC, QI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
The course tells the scientific story of humanity's intensifying impacts on the planet, and possible future paths. Students explore re-interpreting these stories in their own individual and artistic voices. Emphasis is on complex systems, data visualization, and artistic storytelling.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Course Sets:

- Quantitative Literacy (QL) Course

CCA3080 - Physics of Artistic Expression; Sound and Color (DSC/QI) - 3 - Credits

Course Overview

Course Prefix
CCA

Course Number
3080

Department
College of Arts & Sciences

Course Title
Physics of Artistic Expression; Sound and Color (DSC/QI)

General Education Attribute
DSC, QI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
The goal of this course is to help students gain an appreciation for the physics behind sound, music, art, and color. Students will gain experience working with mathematical equations and learn to use the language of physics.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Course Sets:

- Breadth Physical Sciences (BPS) Course
- Quantitative Literacy (QL) Course

Course Learning Objectives

Course Learning Outcomes
1. Understand science in general as a process.

2. Learn to apply scientific methods and reasoning to solve problems.

3. Gain a fundamental understanding of the underlying principles of physics of sound and color.

4. Become well-versed in using plots, graphs, and tables to analyze data.

5. Become comfortable using the language of physics.

CCA3330 - Arts Symposium (DHA) - 2 - Credits

Course Overview

Course Prefix
CCA

Course Number
3330

Department
College of Arts & Sciences

Course Title
Arts Symposium (DHA)

General Education Attribute
DHA

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students attend a number of cultural events offered at USU and in the community, as well as write critiques of the events. Note: CCA 3330 may be applied to the depth requirements, but not to the breadth requirements. Two credits of CCA 3330 are needed to fulfill the DHA requirement.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Completion of at least 30 credits

CCA4250 - Advanced Internship/Co-op - 1 - 15 Credits

Course Overview

Course Prefix
CCA

Course Number
4250

Department
College of Arts & Sciences

Course Title
Advanced Internship/Co-op

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
Internship or cooperative education position of a more professional level, with increased complexity, approved by the college.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
15

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
15

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
15

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
15

Lecture Hours Operator:
TO

No Requirements

CCA4910 - Study Abroad - 1 - 20 Credits

Course Overview

Course Prefix
CCA

Course Number
4910

Department
College of Arts & Sciences

Course Title
Study Abroad

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
A semester study abroad experience through a student exchange program.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
20

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
20

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
20

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
20

Lecture Hours Operator:
TO

Special Approval
Approval from the Study Abroad Office

No Requirements

CCA5250 - Interdisciplinary Workshop - 1 - 5 Credits

Course Overview

Course Prefix
CCA

Course Number
5250

Department
College of Arts & Sciences

Course Title
Interdisciplinary Workshop

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Students study a specific area of discipline that is not part of the department's regularly scheduled curriculum.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
5

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
5

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
5

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
5

Lecture Hours Operator:
TO

CCA6250 - Graduate Internship/Co-op - 1 - 15 Credits

Course Overview

Course Prefix
CCA

Course Number
6250

Department
College of Arts & Sciences

Course Title
Graduate Internship/Co-op

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Internship or cooperative education position approved by the department and/or the college.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
15

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
15

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
15

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
15

Lecture Hours Operator:
TO

No Requirements

CCA6910 - Study Abroad - 1 - 12 Credits

Course Overview

Course Prefix
CCA

Course Number
6910

Department
College of Arts & Sciences

Course Title
Study Abroad

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
A semester study abroad experience through a student exchange program.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
12

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
12

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
12

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
12

Lecture Hours Operator:
TO

Special Approval
Approval from the Study Abroad Office

No Requirements

CEE1400 - Introduction to Computer Programming for Civil and Environmental Engineers - 2 - Credits

Course Overview

Course Prefix
CEE

Course Number
1400

Department
Civil & Environmental Engineering

Course Title
Introduction to Computer Programming for Civil and Environmental Engineers

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course presents the fundamentals of computer programming using the Python computer language. Topics include problem solving, programming, program development, and data structures with civil and environmental engineering applications.

Credit Hours

Credit Hours Min:
2

Contact Hours

Contact Hours Min:
2

Billing Hours

Billing Hours Min:
2

Lecture Hours

Lecture Hours Min:
2

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Earn a minimum grade of C- in the following:

- MATH1050 - College Algebra (QL)

or Math ACT score of 25 or higher or equivalent SAT score

or AP Calculus AB score of 3 or higher

CEE1880 - Civil and Environmental Engineering Orientation and Computer Applications - 1 - Credits

Course Overview

Course Prefix
CEE

Course Number
1880

Department
Civil & Environmental Engineering

Course Title
Civil and Environmental Engineering Orientation and Computer Applications

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Orients students to programs of the Department of Civil and Environmental Engineering, professional and academic advising, student services, professional societies, and engineering careers. Laboratory activities emphasize problem solving using computer applications, such as spreadsheets and the HP48 Scientific Calculator.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

No Requirements

CEE2240 - Engineering Surveying - 3 - Credits

Course Overview

Course Prefix
CEE

Course Number
2240

Department
Civil & Environmental Engineering

Course Title
Engineering Surveying

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Experience with a wide variety of common surveying equipment, including use and operation of levels, theodolites, total station equipment, and GPS. Prior to graduation, computer applications and field exercises prepare students for civil engineering employment early in their careers.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Admission to a major within the College of Engineering

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- MATH1050 - College Algebra (QL)
  OR MATH1060 - Trigonometry

OR

ACT Math score of 27 or higher or equivalent SAT Math score or AP Calculus AB score of 3 or higher

CEE2270 - Computer Engineering Drafting - 2 - Credits

Course Overview

Course Prefix
CEE

Course Number
2270

Department
Civil & Environmental Engineering

Course Title
Computer Engineering Drafting

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces the computer-aided drafting environment, including hand CAD techniques, AutoCAD, Civil 3-D and Revit, and provides background in drafting theory and applications. Students prepare to employ creative thinking and graphical communication skills in team and workplace environments.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Registration Restrictions

Admission to a major within the College of Engineering

No Requirements

CEE2450 - Computer Programming and Numerical Methods for Civil and Environmental Engineers - 3 - Credits

Course Overview

Course Prefix
CEE

Course Number
2450

Department
Civil & Environmental Engineering

Course Title
Computer Programming and Numerical Methods for Civil and Environmental Engineers

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides hands-on experience in computer programming applications and numerical methods to perform practical tasks and solve civil and environmental engineering problems using the Python programming language. The course focuses on the problem-solving scenarios engineers commonly encounter.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- MATH1210 - Calculus I (QL)
- MATH1220 - Calculus II (QL)
- MATH2250 - Linear Algebra and Differential Equations (QI) **OR** MATH2280 - Ordinary Differential Equations (QI)
- CS1400 - Introduction to Computer Science--CS 1

or an equivalent introductory computer programming class

MATH2250 LINEAR ALG/DIFF EQUATIONS (QI) *or* ***MATH2280 ORD DIFFRNTIAL EQUATIONS (QI)*** *may be taken concurrently*

Required

Complete ALL of the following Courses:

- CEE1400 - Introduction to Computer Programming for Civil and Environmental Engineers

or an equivalent introductory computer programming class such as CECS1400 INTRO COMPUTER SCIENCE 1

CEE2620 - Environmental Engineering Microbiology - 3 - Credits

Course Overview

Course Prefix
CEE

Course Number
2620

Department
Civil & Environmental Engineering

Cross-Listed Courses

BENG2620 - Environmental Engineering Microbiology

Course Title

Environmental Engineering Microbiology

Grade Mode
Standard Letter

Repeat Status
NR

Course Description

This course explores environmental microbiology foundations with emphasis on engineering applications. Topics include: metabolism, classification, growing and enumerating microorganisms, biogeochemical nutrient cycling, pathogens in environmental media, indicator organisms, water and wastewater treatment, and microbial ecology applications in treating hazardous pollutants.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- BIOL1010 - Biology and the Citizen (BLS)
- CHEM1220 - Principles of Chemistry II (BPS)

or score of at least 3 on the AP Biology or AP Environmental Exams can serve in place of BIOL 1010

CEE2890 - Environmental Engineering Sophomore Seminar - 1 - Credits

Course Overview

Course Prefix
CEE

Course Number
2890

Department
Civil & Environmental Engineering

Course Title
Environmental Engineering Sophomore Seminar

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Introduces students to the field of environmental engineering, emphasizing design, ethics, and leadership in the environmental engineering profession. Emphasizes creative thinking, organizational skills, team work, professional ethics, and social responsibility.

Credit Hours

Credit Hours Min:
1

Contact Hours

Contact Hours Min:
1

Billing Hours

Billing Hours Min:
1

Lecture Hours

Lecture Hours Min:
1

Registration Restrictions

Admission to the Environmental Engineering major; sophomore standing

No Requirements

CEE3020 - Structural Analysis - 3 - Credits

Course Overview

Course Prefix
CEE

Course Number
3020

Department
Civil & Environmental Engineering

Course Title
Structural Analysis

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Classification of structural types and development of loads. Analysis of trusses, beams, frames, cables, and arches (determinate and indeterminate). Calculation of deflections using superposition, geometric and energy methods. Utilization of approximate methods to analyze large structures.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Registration Restrictions

Admission to the Professional Engineering program

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ENGR2140 - Mechanics of Materials

CEE3080 - Design of Reinforced Concrete Structures - 3 - Credits

Course Overview

Course Prefix
CEE

Course Number
3080

Department
Civil & Environmental Engineering

Course Title
Design of Reinforced Concrete Structures

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course explores the design of reinforced concrete structural elements, simple and continuous reinforced beams, columns, joints, and one-way slabs. Includes concrete materials laboratory.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Admission to the Professional Engineering Program

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- CEE3160 - Civil Engineering Materials
- CEE3020 - Structural Analysis

***CEE3020 STRUCTURAL ANALYSIS** may be taken concurrently*

CEE3160 - Civil Engineering Materials - 2 - Credits

Course Overview

Course Prefix
CEE

Course Number
3160

Department
Civil & Environmental Engineering

Course Title
Civil Engineering Materials

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces the measurement of engineering properties of various civil engineering materials. It emphasizes load-deformation characteristics and failure modes of natural and fabricated materials. The required laboratory includes experiments on data collection, data analysis, interpretation and presentation of results.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Registration Restrictions

Admission to the Professional program

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ENGR2140 - Mechanics of Materials

CEE3165 - Civil Engineering Materials Laboratory - 1 - Credits

Course Overview

Course Prefix
CEE

Course Number
3165

Department
Civil & Environmental Engineering

Course Title
Civil Engineering Materials Laboratory

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This laboratory teaches measurement of the mechanical behavior of civil engineering materials.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ENGR2140 - Mechanics of Materials
- CEE3160 - Civil Engineering Materials

CEE3165 CIVIL ENGR MATERIALS LAB may be taken concurrently

CEE3210 - Introduction to Transportation Engineering - 3 - Credits

Course Overview

Course Prefix
CEE

Course Number
3210

Department
Civil & Environmental Engineering

Course Title
Introduction to Transportation Engineering

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Introduction to basic concepts of roadway geometric design, and intersection and highway capacity analysis. Other topics include: traffic flow characteristics, traffic studies, signal design, and transportation project evaluation.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Admission to the Professional Engineering Program

CEE3300 - Engineering Soil Mechanics - - 3 Credits

Course Overview

Course Prefix
CEE

Course Number
3300

Department
Civil & Environmental Engineering

Course Title
Engineering Soil Mechanics

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course explores the physical and mechanical properties of soils. Topics include: classification, permeability, soil stresses and settlement analysis, soil strength, slope stability, lateral earth pressures, introduction to foundations, numerical solutions, and computer applications.

Credit Hours

Credit Hours Min:
0

Credit Hours Max:
3

Credit Hours Operator:
OR

Contact Hours

Contact Hours Min:
0

Contact Hours Max:
3

Contact Hours Operator:
OR

Billing Hours

Billing Hours Min:
0

Billing Hours Max:
3

Billing Hours Operator:
OR

Lecture Hours

Lecture Hours Min:
0

Lecture Hours Max:
3

Lecture Hours Operator:
OR

Registration Restrictions
Admission to the Professional Engineering program

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ENGR2140 - Mechanics of Materials

CEE3330 - Ancient and Modern Civil Engineering in Italy and France - 3 - Credits

Course Overview

Course Prefix
CEE

Course Number
3330

Department
Civil & Environmental Engineering

Course Title
Ancient and Modern Civil Engineering in Italy and France

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This study abroad course explores ancient and modern civil and environmental engineering, covering transportation, structural, geotechnical, environmental, and hydraulic disciplines. Through lectures, site visits, and hands-on projects, students gain practical knowledge of international engineering practices and cultural impacts.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Special Approval
Instructor permission

Other Enrollment Recommendations
Conversational French or Italian

Simple Requisites

Prerequisite

Type
Completion Requirement

Required

2.5 GPA or higher

Course Learning Objectives

Course Learning Outcomes

1. Explore the evolution of civil engineering from ancient times to modern era.
2. Assess the design, construction, and social impact of both ancient and modern infrastructure.
3. Compare and contrast ancient Roman engineering techniques with contemporary practices.
4. Gain insights into the preservation and integration of ancient infrastructure within modern society.
5. Examine the connections between transportation, structures, geotechnical engineering, environmental, and hydraulic engineering in the context of sustainability.
6. Gain practical understanding of how infrastructure is developed through site visits to infrastructure projects, environmental sites, and engineering facilities.
7. Consider the influence of culture on infrastructure development.
8. Consider the impact of ancient and modern engineering trends to anticipate future advancements.

CEE3430 - Engineering Hydrology - 3 - Credits

Course Overview

Course Prefix
CEE

Course Number
3430

Department
Civil & Environmental Engineering

Course Title
Engineering Hydrology

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Provides a basic understanding of engineering hydrology through the hydrologic cycle, watershed characteristics, atmospheric water, rainfall-runoff processes, infiltration and evaporation, stream flow analysis, groundwater flow, and related designs.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Admission to the Professional Engineering program

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- CEE3500 - Civil and Environmental Engineering Fluid Mechanics

CEE3500 - Civil and Environmental Engineering Fluid Mechanics - 3 - Credits

Course Overview

Course Prefix
CEE

Course Number
3500

Department
Civil & Environmental Engineering

Course Title
Civil and Environmental Engineering Fluid Mechanics

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Explores fluid properties, hydrostatics, fluid dynamics similitude, energy and momentum principles, closed conduit flow, open channel flow, and flow measurement.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Admission to the Professional Engineering program

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- MATH1220 - Calculus II (QL)
- MATH2210 - Multivariable Calculus (QI)
  OR MATH2250 - Linear Algebra and Differential Equations (QI)
- ENGR2010 - Engineering Mechanics Statics
- ENGR2030 - Engineering Mechanics Dynamics

CEE3510 - Civil and Environmental Engineering Hydraulics - 3 - Credits

Course Overview

Course Prefix
CEE

Course Number
3510

Department
Civil & Environmental Engineering

Course Title
Civil and Environmental Engineering Hydraulics

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Steady flow in open channel and closed circuits, nonuniform flow in open channels, combined energy losses in pipelines, and distribution in pipe networks. Includes laboratory and computer exercises in data collection, pipe networks, and unsteady and nonuniform flow.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Admission to the Professional Engineering program

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- CEE3500 - Civil and Environmental Engineering Fluid Mechanics

CEE3610 - Environmental Management - 3 - Credits

Course Overview

Course Prefix
CEE

Course Number
3610

Department
Civil & Environmental Engineering

Cross-Listed Courses
PUBH3610 - Environmental Management

Course Title
Environmental Management

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides an introduction to environmental health, emphasizing relationships among environmental quality, public health, environmental and occupational health regulations, human health risk assessment, institutions, and engineered systems in environmental health management.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Admission to the Professional Engineering program

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Fulfill ALL of the following requirements:

Requirement 1

Complete ALL of the following Courses:

- CHEM1210 - Principles of Chemistry I

- MATH1210 - Calculus I (QL)

AND

Requirement 2

Complete at least 1 course in the following course sets:

- Breadth Life Sciences (BLS) Course

or score of at least 3 on the AP Biology or AP Environmental Exam

CEE3640 - Drinking Water Engineering - 3 - Credits

Course Overview

Course Prefix
CEE

Course Number
3640

Department
Civil & Environmental Engineering

Course Title
Drinking Water Engineering

Grade Mode
Standard Letter

Repeat Status
NR

Course Description

Engineering analysis and design of processes for treatment of drinking water. Major topics include regulations; water quality evaluation; physical, chemical, and biological treatment systems; design of facilities for production and conveyance of drinking water; and management of residuals from water treatment facilities.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Registration Restrictions

Admission to the Professional Engineering program

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- CEE3610 - Environmental Management
  OR PUBH3610 - Environmental Management

CEE3650 - Wastewater Engineering - 3 - Credits

Course Overview

Course Prefix
CEE

Course Number
3650

Department
Civil & Environmental Engineering

Course Title
Wastewater Engineering

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Engineering analysis and process design for municipal and industrial wastewater. Major topics include water quality evaluation; physical, chemical, and biological treatment; design and analysis of wastewater collection systems; design of municipal and industrial wastewater reclamation facilities; and management of wastewater treatment residuals.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Admission to the Professional Engineering program

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- CEE3610 - Environmental Management
  OR PUBH3610 - Environmental Management

CEE3670 - Transport Phenomena in Bio-Environmental Systems - 3 - Credits

Course Overview

Course Prefix
CEE

Course Number
3670

Department
Civil & Environmental Engineering

Cross-Listed Courses
BENG3670 - Transport Phenomena in Bio-Environmental Systems

Course Title
Transport Phenomena in Bio-Environmental Systems

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Biological and environmental engineering students learn principles, concepts, modes, and methods of calculating heat and mass transfer. Emphasis is on contaminant and nutrient flux, their state transformations, and evaluating options for production, clean-up, and control of bio-environmental systems.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Admission to the Professional Engineering program

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Earn a minimum grade of C- in the following:

- BENG2400 - Biological and Environmental Thermodynamics
  OR MAE2300 - Thermodynamics I
- CEE3500 - Civil and Environmental Engineering Fluid Mechanics
  OR BENG3500 - Fluid Mechanics in Biological Engineering

OR MAE3420 - Fluid Mechanics

CEE3780 - Solid and Hazardous Waste Management - 3 - Credits

Course Overview

Course Prefix
CEE

Course Number
3780

Department
Civil & Environmental Engineering

Course Title
Solid and Hazardous Waste Management

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Introduction to integrated management of municipal and industrial solid waste; household, commercial, and industrial hazardous waste; and resource recovery, recycling, and sustainability principles. Three lectures augmented by computer modeling and field trip experiences related to modern solid and hazardous waste management principles.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Admission to the Professional Engineering program

No Requirements

CEE3880 - Civil and Environmental Design I - 2 - Credits

Course Overview

Course Prefix
CEE

Course Number
3880

Department
Civil & Environmental Engineering

Course Title
Civil and Environmental Design I

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This is the first of a three-semester senior design sequence focused on civil engineering project management, economics, and acquiring work. Students self-organize into teams to identify projects, draft proposals, and plan, schedule, and manage projects.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Registration Restrictions
Admission to the Civil Engineering - BS professional program or the Environmental Engineering - BS professional program.

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ENGR3080 - Creativity and Communication in Design (CI)

CEE3890 - Environmental Engineering Design I - 1 - Credits

Course Overview

Course Prefix
CEE

Course Number
3890

Department
Civil & Environmental Engineering

Course Title
Environmental Engineering Design I

Grade Mode
Standard Letter

Repeat Status
NR

Course Description

Introduction to senior environmental engineering students' integrated design experience. Design project identified and proposal for its completion during the senior year is produced, under mentoring of course instructor. Emphasizes project identification, project scoping, manpower and materials budgeting, project scheduling, and completion of design proposal.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Registration Restrictions

Admission to the Professional Engineering program

Simple Requisites

Corequisite

Type
Corequisite

Required

Enroll in the following Courses:

- CEE3640 - Drinking Water Engineering
- CEE3670 - Transport Phenomena in Bio-Environmental Systems
  OR PUBH3610 - Environmental Management

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- CEE3610 - Environmental Management
  OR PUBH3610 - Environmental Management

CEE4000 - Municipal Engineering - 3 - Credits

Course Overview

Course Prefix
CEE

Course Number
4000

Department
Civil & Environmental Engineering

Course Title
Municipal Engineering

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides an overview of municipal engineering, focusing on planning, design, construction, and maintenance of municipal infrastructure. Topics include water supply, wastewater, stormwater, transportation systems, land development, urban planning, zoning, legal aspects, and public involvement.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Admission to the Civil Engineering professional program.

Other Enrollment Recommendations
CEE3080 DESIGN REINFORCED CONCRETE

Course Learning Objectives

Course Learning Outcomes
1. Explore the role of municipal engineering in urban development and public infrastructure.
2. Understand the design, construction, and maintenance of critical public infrastructure, such as roads, water supply systems, and sewer networks.
3. Integrate engineering practices from different disciplines, including transportation, water resources, and structural engineering.
4. Gain insights into city planning, zoning laws, public safety regulations, and their effect on infrastructure projects.
5. Examine the integration of transportation, environmental, geotechnical, and hydraulic engineering in urban development.
6. Gain practical understanding of infrastructure development through guest lectures, case studies and site visits to public works projects.
7. Consider the impact of sustainability and environmental standards on municipal engineering decisions.
8. Prepare for the FE and PE exams by developing knowledge and skills aligned with professional licensure requirements.

CEE4200 - Engineering Economics - 3 - Credits

Course Overview

Course Prefix
CEE

Course Number
4200

Department
Civil & Environmental Engineering

Course Title
Engineering Economics

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course consists of applications of the mathematics of finance, statistics, and probability to engineering decision making. It should be taken during the junior year of the engineering curriculum.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Admission to the Professional Engineering program

No Requirements

CEE4870 - Civil and Environmental Design II (CI) - 2 - Credits

Course Overview

Course Prefix
CEE

Course Number
4870

Department
Civil & Environmental Engineering

Course Title
Civil and Environmental Design II (CI)

General Education Attribute
CI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Second semester of three-semester design sequence. Teams work on projects they proposed in Engineering Design I. Emphasizes teamwork, project management, scheduling, design calculations, communication, presentations, progress toward completing project report.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Registration Restrictions
Admission to the Professional Engineering program

Other Enrollment Recommendations
Senior design technical elective should be taken concurrently

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:
- CEE3880 - Civil and Environmental Design I

CEE4880 - Civil and Environmental Design III (CI) - 2 - Credits

Course Overview

Course Prefix
CEE

Course Number
4880

Department
Civil & Environmental Engineering

Course Title
Civil and Environmental Design III (CI)

General Education Attribute
CI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Completion of three-semester sequence. Teams complete professionally-reviewed design projects proposed in Engineering Design I, and begun in Design II, and submit professional reports. Emphasizes teamwork, project management, scheduling, design calculations, evaluation criteria, presentations peer-review, response to technical review.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Registration Restrictions
Admission to the Professional Engineering program

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:
- CEE4870 - Civil and Environmental Design II (CI)

CEE5000 - Irrigation and Drainage of Agricultural Lands - 3 - Credits

Course Overview

Course Prefix
CEE

Course Number
5000

Department
Civil & Environmental Engineering

Dual-Listed Courses
CEE6000 - Irrigation and Drainage of Agricultural Lands

Course Title
Irrigation and Drainage of Agricultural Lands

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Soil-water-plant relationships; evapotranspiration and water requirements; effective water use; irrigation scheduling; infiltration; irrigation systems planning, drainage systems and their design and the impact of irrigation on water quality

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Admission to the Professional Engineering Program

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- CEE3430 - Engineering Hydrology
- CEE3500 - Civil and Environmental Engineering Fluid Mechanics

CEE5001 - Design and Evaluation of Pressurized Irrigation Systems - 3 - Credits

Course Overview

Course Prefix
CEE

Course Number
5001

Department
Civil & Environmental Engineering

Dual-Listed Courses
CEE6001 - Design and Evaluation of Pressurized Irrigation Systems

Course Title
Design and Evaluation of Pressurized Irrigation Systems

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course explores irrigation principles and design constraints including soil and plant water relations. Design and evaluation of sprinkler and drip/micro irrigation systems including pump station and supply pipeline design. Offered fall semester of even years. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Admission to the Professional Engineering Program

Other Enrollment Recommendations
CEE3430 ENGINEERING HYDROLOGY and CEE3500 FLUID MECHANICS and PSC5710 IRRIGATED SOILS

CEE5003 - Remote Sensing of Land Surfaces - 3 - Credits

Course Overview

Course Prefix
CEE

Course Number
5003

Department
Civil & Environmental Engineering

Cross-Listed Courses
PSC5003 - Remote Sensing of Land Surfaces

Dual-Listed Courses
CEE6003 - Remote Sensing of Land Surfaces

Course Title
Remote Sensing of Land Surfaces

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Introduction to principles of radiation, reflectance, infrared thermal, and other remote sensing measurements for vegetation, soil, water, and urban landscapes. Topics include vegetation index applications, water balance components, satellites and drone technologies, cloud-based data repositories, computational environments for remote sensing. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Admission to the Professional Engineering Program

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- CEE2450 - Computer Programming and Numerical Methods for Civil and Environmental Engineers

CEE5005 - Design and Evaluation of Gravity Irrigation Systems - 3 - Credits

Course Overview

Course Prefix
CEE

Course Number
5005

Department
Civil & Environmental Engineering

Dual-Listed Courses
CEE6005 - Design and Evaluation of Gravity Irrigation Systems

Course Title
Design and Evaluation of Gravity Irrigation Systems

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course explores the design and evaluation of surface irrigation and subsurface drainage systems, including irrigation canal and the design and operation of canal structures. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Admission to the Professional Engineering Program

Other Enrollment Recommendations
CEE3430 ENGINEERING HYDROLOGY and CEE3500 FLUID MECHANICS and PSC5710 IRRIGATED SOILS

CEE5006 - Agricultural Water Management - 3 - Credits

Course Overview

Course Prefix
CEE

Course Number
5006

Department
Civil & Environmental Engineering

Dual-Listed Courses
CEE6006 - Agricultural Water Management

Course Title
Agricultural Water Management

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Soil water balance management and its influence on yield. Topics include farming decision making, plant hardiness and last freezing/planting dates, influence of weather, crop, soil, and irrigation system on seasonal consumptive water use and irrigation scheduling. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Admission to the Professional Engineering Program

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- CEE5001 - Design and Evaluation of Pressurized Irrigation Systems
- PSC5710 - Irrigated Soils

may be taken concurrently

CEE5007 - Field Evaluation of Agricultural Irrigation Systems - 2 - Credits

Course Overview

Course Prefix
CEE

Course Number
5007

Department
Civil & Environmental Engineering

Dual-Listed Courses
CEE6007 - Field Evaluation of Agricultural Irrigation Systems

Course Title
Field Evaluation of Agricultural Irrigation Systems

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Field measurements in pressurized and surface irrigation systems for performance evaluation and determination of water application uniformity and efficiency. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Registration Restrictions
Admission to the Professional Engineering Program

CEE5008 - Management of Irrigation Systems - 3 - Credits

Course Overview

Course Prefix
CEE

Course Number
5008

Department
Civil & Environmental Engineering

Dual-Listed Courses
CEE6008 - Management of Irrigation Systems

Course Title
Management of Irrigation Systems

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Assessment of irrigation and drainage projects, from a hydrological and operation & maintenance (O&M) perspectives. Simulation of command area water demands and water distribution. Irrigation project performance monitoring (Walk Thru surveys, conveyance hydraulic assessment, flowrate monitoring). Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Admission to the Professional Engineering Program

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- CEE3510 - Civil and Environmental Engineering Hydraulics
- CEE5001 - Design and Evaluation of Pressurized Irrigation Systems
  OR PSC5710 - Irrigated Soils

CEE5009 - Groundwater Systems Engineering I - 3 - Credits

Course Overview

Course Prefix
CEE

Course Number
5009

Department
Civil & Environmental Engineering

Dual-Listed Courses
CEE6009 - Groundwater Systems Engineering I

Course Title
Groundwater Systems Engineering I

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Groundwater exploration; well drilling and testing; pumping plant design, operation, and testing; aquifer evaluations; siting of multiple well systems. Development of pumping strategies for water supply and environmental control systems. Introduction to conjunctive use.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Admission to the Professional Engineering Program

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:
- CEE5000 - Irrigation and Drainage of Agricultural Lands
  OR CEE6000 - Irrigation and Drainage of Agricultural Lands

CEE5010 - Matrix Analysis/Finite Element - 3 - Credits

Course Overview

Course Prefix
CEE

Course Number
5010

Department
Civil & Environmental Engineering

Course Title
Matrix Analysis/Finite Element

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Analysis of structures using matrix methods. Application of software based on the stiffness method to practical analysis problems. Introduction of Finite Element method based on stiffness approach and mathematical derivation of simple finite elements, along with application to practical problems.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Admission to the Professional Engineering program

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:
- CEE3020 - Structural Analysis

CEE5015 - Structural Design Loads - 3 - Credits

Course Overview

Course Prefix
CEE

Course Number
5015

Department
Civil & Environmental Engineering

Dual-Listed Courses
CEE6015 - Structural Design Loads

Course Title
Structural Design Loads

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides students with a working knowledge of the structural design loads required for US building design. It presents minimum load requirements for buildings and other structures along with real-world applications, limitations, and practical background understanding for future working professionals. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Admission to the Professional Engineering Program

CEE5020 - Finite Element Methods in Solid Mechanics I - 3 - Credits

Course Overview

Course Prefix
CEE

Course Number
5020

Department
Civil & Environmental Engineering

Cross-Listed Courses
MAE5020 - Finite Element Methods in Solid Mechanics I

Course Title
Finite Element Methods in Solid Mechanics I

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Introduction to finite element methods and their application to the analysis and design of mechanical engineering systems.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Admission to the Professional Engineering program

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- MAE3040 - Mechanics of Solids

CEE5050 - Design of Wood and Masonry Structures - 3 - Credits

Course Overview

Course Prefix
CEE

Course Number
5050

Department
Civil & Environmental Engineering

Course Title
Design of Wood and Masonry Structures

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course addresses the design of beams, columns, joints, walls, and diaphragms in both wood and masonry materials. Current design codes are utilized.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- CEE3020 - Structural Analysis

CEE5060 - Mechanics of Composite Materials - 3 - Credits

Course Overview

Course Prefix
CEE

Course Number
5060

Department
Civil & Environmental Engineering

Cross-Listed Courses
MAE5060 - Mechanics of Composite Materials I

Course Title
Mechanics of Composite Materials

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students study stress-strain relations for nonisotropic composites (such as fiber-reinforced plastic laminates), properties of composite materials and their uses, strength and life determination, and methods for design using composite materials.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Admission to the Professional Engineering program

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- CEE3020 - Structural Analysis
  OR MAE3040 - Mechanics of Solids

CEE5070 - Structural Steel Design - 3 - Credits

Course Overview

Course Prefix
CEE

Course Number
5070

Department
Civil & Environmental Engineering

Course Title
Structural Steel Design

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Structural steel design using load and resistance factor design (LRFD) method. Focuses on design of structural beams, columns, and connections utilizing steel design codes.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Registration Restrictions

Admission to the Professional Engineering program

Simple Requisites

Corequisite

Type
Corequisite

Required

Enroll in the following Courses:

- CEE5015 - Structural Design Loads

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- CEE3020 - Structural Analysis

CEE5080 - Numerical Methods in Elasticity - 3 - Credits

Course Overview

Course Prefix
CEE

Course Number
5080

Department
Civil & Environmental Engineering

Dual-Listed Courses
CEE6080 - Numerical Methods in Elasticity

Course Title
Numerical Methods in Elasticity

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Elasticity theory, stress and strain analysis, and yield criteria. Governing equilibrium, kinematic, and compatibility equations. Generalized Hooke's law. Classical solutions of flex and torsion problems. Energy methods. Introduction to finite difference, finite element, and boundary element methods. Computer applications.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Admission to the Professional Engineering Program

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:
- CEE3020 - Structural Analysis

CEE5100 - Infrastructure Evaluation and Renewal - 3 - Credits

Course Overview

Course Prefix
CEE

Course Number
5100

Department
Civil & Environmental Engineering

Course Title
Infrastructure Evaluation and Renewal

Grade Mode
Standard Letter

Course Description
Evaluation of existing structural systems and techniques to improve their performance. Focuses on structures which are seismically deficient.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Admission to the Professional Engineering program

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:
- CEE3080 - Design of Reinforced Concrete Structures
- CEE5070 - Structural Steel Design

CEE5190 - Geographic Information Systems for Civil Engineers - 3 - Credits

Course Overview

Course Prefix
CEE

Course Number
5190

Department
Civil & Environmental Engineering

Dual-Listed Courses
CEE6190 - Geographic Information Systems for Civil Engineers

Course Title
Geographic Information Systems for Civil Engineers

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Introduction to GIS concepts addressing data structures, spatial entities, and queries. Topics include location referencing methods, data collection techniques, current applications, and institutional and organizational issues.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Admission to the Professional Engineering Program

CEE5205 - Transportation Data Analysis and Research Methods - 3 - Credits

Course Overview

Course Prefix
CEE

Course Number
5205

Department
Civil & Environmental Engineering

Dual-Listed Courses
CEE6205 - Transportation Data Analysis and Research Methods

Course Title
Transportation Data Analysis and Research Methods

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces students to various transportation datasets and analysis techniques used in transportation research, including statistics, machine learning, and computer programming. Students learn interdisciplinary research methods, including study design, ethics, data collection techniques, literature review, and dissemination of research. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Admission to the Professional Engineering Program

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- CEE3210 - Introduction to Transportation Engineering

CEE5220 - Traffic Operations and Management - 3 - Credits

Course Overview

Course Prefix
CEE

Course Number
5220

Department
Civil & Environmental Engineering

Dual-Listed Courses
CEE6220 - Traffic Operations and Management

Course Title
Traffic Operations and Management

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces modern traffic operations and management, covering macroscopic and microscopic traffic flow analysis, capacity and level of service, traffic control devices and signalized intersections, data collection, traffic simulation, and emerging intelligent transportation systems. Graduate enrollees complete additional coursework.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Admission to the Professional Engineering Program

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- CEE3210 - Introduction to Transportation Engineering

CEE5230 - Geometric Design of Highways - 3 - Credits

Course Overview

Course Prefix
CEE

Course Number
5230

Department
Civil & Environmental Engineering

Dual-Listed Courses
CEE6230 - Geometric Design of Highways

Course Title
Geometric Design of Highways

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Principles of highway location and planning, with full consideration of economic, environmental, and other impacts. Capacity analysis of intersections and highways, passing-lane design, and risk-cost based horizontal and vertical alignment design. Introduction to design software through coursework and term projects. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Admission to the Professional Engineering Program

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- CEE3210 - Introduction to Transportation Engineering

CEE5240 - Transportation Planning - 3 - Credits

Course Overview

Course Prefix
CEE

Course Number
5240

Department
Civil & Environmental Engineering

Dual-Listed Courses
CEE6240 - Transportation Planning

Course Title
Transportation Planning

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course examines travel demand forecasting, data collection, and survey analysis techniques. It also studies trip generation, distribution, mode choice, and route assignment models, focusing on transportation-land use interactions and the societal impacts of planning and policies on travel demand. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Admission to the Professional Engineering Program

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- CEE3210 - Introduction to Transportation Engineering

CEE5255 - Transportation Safety - 3 - Credits

Course Overview

Course Prefix
CEE

Course Number
5255

Department
Civil & Environmental Engineering

Dual-Listed Courses
CEE6255 - Transportation Safety

Course Title
Transportation Safety

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course focuses on traffic safety topics, including crash data, human factors, safety management, safety countermeasures, and societal impacts. Students also learn and apply data analysis skills to understand crash prediction methods, including safety performance functions and crash modification factors. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Admission to the Professional Engineering Program

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- CEE3210 - Introduction to Transportation Engineering

CEE5260 - Public Transportation - 3 - Credits

Course Overview

Course Prefix
CEE

Course Number
5260

Department
Civil & Environmental Engineering

Dual-Listed Courses
CEE6260 - Public Transportation

Course Title
Public Transportation

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Covers principles and methods of design, operation, planning, and policy for public transit in urban and rural areas; examines transit networks, routes, and stations/ stops. Introduces innovations in data collection and analysis. Additional coursework is required for graduate-level enrollment.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Admission to the Professional Engineering Program.

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- CEE3210 - Introduction to Transportation Engineering

Course Learning Objectives

Course Learning Outcomes

1. Students will develop an ability to identify, formulate, and solve complex transportation problems by applying principles of engineering, science, and mathematics.

CEE5265 - Active Transportation - 3 - Credits

Course Overview

Course Prefix
CEE

Course Number
5265

Department
Civil & Environmental Engineering

Dual-Listed Courses
CEE6265 - Active Transportation

Course Title
Active Transportation

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces students to principles and methods in the planning, design, and operation of active transportation modes (walking, bicycling, micromobility) and facilities. Topics covered include user characteristics, facility design, traffic operations, facility analysis, data, planning, and policy. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Admission to the Professional Engineering Program

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:
- CEE3210 - Introduction to Transportation Engineering

CEE5290 - Transportation Network Analysis - 3 - Credits

Course Overview

Course Prefix
CEE

Course Number
5290

Department
Civil & Environmental Engineering

Dual-Listed Courses
CEE6290 - Transportation Network Analysis

Course Title
Transportation Network Analysis

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Course introduces transportation network analysis and mobility optimization, covering representation, topology, shortest path algorithms, optimal traffic assignment, route choice, demand–supply interactions, and network design. Explores emerging computational methods using GPS, maps, and sensors. Additional coursework required for graduate enrollment.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Admission to the Professional Engineering Program

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:
- CEE3210 - Introduction to Transportation Engineering

Course Learning Objectives

Course Learning Outcomes

1. Students will develop an ability to identify, formulate, and solve complex transportation problems by applying principles of engineering, science, and mathematics.

CEE5350 - Foundation Analysis and Design - 3 - Credits

Course Overview

Course Prefix
CEE

Course Number
5350

Department
Civil & Environmental Engineering

Dual-Listed Courses
CEE6350 - Foundation Analysis and Design

Course Title
Foundation Analysis and Design

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Applications of theories studied in soil mechanics. Design considerations for various foundation types, including shallow foundations, driven piles, drilled shafts, walls, soil anchorages, and mechanically-stabilized earth support systems. Field investigation techniques and computer applications.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Admission to the Professional Engineering Program

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- CEE3300 - Engineering Soil Mechanics

CEE5375 - Geotechnical Earthquake Engineering - 3 - Credits

Course Overview

Course Prefix
CEE

Course Number
5375

Department
Civil & Environmental Engineering

Dual-Listed Courses
CEE6375 - Geotechnical Earthquake Engineering

Course Title
Geotechnical Earthquake Engineering

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers geotechnical aspects of earthquake engineering, wave propagation, soil dynamics, ground response, local site effects, liquefaction, and seismic slope stability.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- CEE5385 - Introduction to Earthquake Engineering

Course Learning Objectives

Course Learning Outcomes

1. Understand seismic wave propagation
2. Understand dynamic soil properties
3. Understand ground response
4. Understand soil liquefaction
5. Understand seismic slope stability

CEE5385 - Introduction to Earthquake Engineering - 3 - Credits

Course Overview

Course Prefix
CEE

Course Number
5385

Department
Civil & Environmental Engineering

Dual-Listed Courses
CEE6385 - Introduction to Earthquake Engineering

Course Title
Introduction to Earthquake Engineering

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Covers wide variety of earthquake engineering topics, including seismology and earthquake source characterization, strong ground motion, seismic hazard analysis, wave propagation, soil dynamics, ground response, local site effects, liquefaction, seismic slope stability, soil improvement, vibrational analyses, and structural seismic design. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Registration Restrictions
Admission to professional program

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- CEE3300 - Engineering Soil Mechanics

Course Learning Objectives

Course Learning Outcomes

1. Understand basics of seismology
2. Understand code-based design ground motions
3. Understand basics of vibration and structural analysis
4. Understand soil liquefaction
5. Understand seismic slope stability

CEE5395 - Numerical Modeling in Geomechanics - 3 - Credits

Course Overview

Course Prefix
CEE

Course Number
5395

Department
Civil & Environmental Engineering

Dual-Listed Courses
CEE6395 - Numerical Modeling in Geomechanics

Course Title
Numerical Modeling in Geomechanics

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers finite difference and finite element methods, constitutive properties of soil. Students use these models and properties to evaluate flow, static deformations and dynamic behavior in soil. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Course Learning Objectives

Course Learning Outcomes

1. Understand finite difference and finite element methods
2. Understand constitutive properties of soils
3. Understand numerical solutions to LaPlace's equation
4. Understand static and dynamic numerical analyses in soil

CEE5410 - Engineering Systems Analysis - 3 - Credits

Course Overview

Course Prefix
CEE

Course Number
5410

Department
Civil & Environmental Engineering

Dual-Listed Courses
CEE6410 - Engineering Systems Analysis

Course Title
Engineering Systems Analysis

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Formulating and solving linear, integer, non-linear, multi-objective, and other problems to improve engineering system design, efficiency, planning, and management. Considering economic, environmental, and other goals under uncertainty. Additional work is required for graduate students.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

CEE5430 - Groundwater Engineering - 3 - Credits

Course Overview

Course Prefix
CEE

Course Number
5430

Department
Civil & Environmental Engineering

Dual-Listed Courses
CEE6430 - Groundwater Engineering

Course Title
Groundwater Engineering

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Explores fundamentals of groundwater hydrology by focusing on theory related to aquifer systems and flow analysis, regional groundwater balance, well hydraulics, aquifer testing, capture zone analysis, unsaturated flow, saltwater intrusion, and basics of flow modeling.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Admission to the Professional Engineering Program

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- CEE3430 - Engineering Hydrology

or similar hydrology course

CEE5450 - Hydrologic Modeling - 3 - Credits

Course Overview

Course Prefix
CEE

Course Number
5450

Department
Civil & Environmental Engineering

Dual-Listed Courses
CEE6450 - Hydrologic Modeling

Course Title
Hydrologic Modeling

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers the principles and practices of hydrologic modeling for both groundwater and surface water systems, focusing on physically based, distributed models. Topics include groundwater flow, solute transport, and integrated surface-subsurface processes like evapotranspiration, infiltration, and runoff. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Admission to the Professional Engineering program

Other Enrollment Recommendations
CEE5430 GROUNDWATER ENGR or CEE6430 GROUNDWATER ENGR or GEO5510 GROUNDWATER GEOLOGY (QI)

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- CEE3430 - Engineering Hydrology

CEE5470 - Sedimentation Engineering - 3 - Credits

Course Overview

Course Prefix
CEE

Course Number
5470

Department
Civil & Environmental Engineering

Dual-Listed Courses
CEE6470 - Sedimentation Engineering

Course Title
Sedimentation Engineering

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Explores river response, sediment transport, sediment and watershed yield, flow resistance, scour and erosion, and floodplain management. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Admission to the Professional Engineering Program

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- CEE3510 - Civil and Environmental Engineering Hydraulics **AND** CEE5500 - Open Channel Hydraulics

CEE5490 - Integrated River Basin/Watershed Planning and Management - 3 - Credits

Course Overview

Course Prefix
CEE

Course Number
5490

Department
Civil & Environmental Engineering

Dual-Listed Courses
CEE6490 - Integrated River Basin/Watershed Planning and Management

Course Title
Integrated River Basin/Watershed Planning and Management

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces students to modern tools, strategies, and challenges to manage river basins. It covers multiple and competing water supplies, hydropower generation, recreation, ecosystem, and other objectives. Students forecast water demands, model operations, assess policies, and communicate with diverse stakeholders. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Admission to the Professional Engineering Program

CEE5500 - Open Channel Hydraulics - 3 - Credits

Course Overview

Course Prefix
CEE

Course Number
5500

Department
Civil & Environmental Engineering

Dual-Listed Courses
CEE6500 - Open Channel Hydraulics

Course Title
Open Channel Hydraulics

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers theory and applications of open channel flows under steady uniform and gradually varied flow conditions for both subcritical and supercritical flows in canals and natural channels. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Admission to the Professional Engineering Program

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- CEE3500 - Civil and Environmental Engineering Fluid Mechanics
- CEE3510 - Civil and Environmental Engineering Hydraulics

CEE5530 - Hydraulic Modeling - 3 - Credits

Course Overview

Course Prefix
CEE

Course Number
5530

Department
Civil & Environmental Engineering

Dual-Listed Courses
CEE6530 - Hydraulic Modeling

Course Title
Hydraulic Modeling

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Course explores the derivation of the Navier-Stokes equations and solutions to unsteady free-surface flows, emphasizing solutions to practical flow problems from industry and research perspectives using CFD software/solvers from industry to model channels, rivers, and hydraulic structures. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- CEE3510 - Civil and Environmental Engineering Hydraulics
- CEE5500 - Open Channel Hydraulics

Course Learning Objectives

Course Learning Outcomes

Students will develop an ability to identify, formulate, and solve complex hydraulic problems by applying principles of engineering, science, and mathematics.

CEE5540 - Hydraulic Structures Design - 3 - Credits

Course Overview

Course Prefix
CEE

Course Number
5540

Department
Civil & Environmental Engineering

Dual-Listed Courses
CEE6540 - Hydraulic Structures Design

Course Title
Hydraulic Structures Design

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Design of a variety of hydraulic structures is explored, both in the classroom and laboratory. Integrates student-developed, original computer programs; commercially available software; field trips; and hands-on laboratory design projects to further students' understanding of hydraulic structures.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Admission to the Professional Engineering Program

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:
- CEE3500 - Civil and Environmental Engineering Fluid Mechanics
- CEE3510 - Civil and Environmental Engineering Hydraulics

CEE5550 - Hydraulics of Closed Conduits - 3 - Credits

Course Overview

Course Prefix
CEE

Course Number
5550

Department
Civil & Environmental Engineering

Dual-Listed Courses
CEE6550 - Hydraulics of Closed Conduits

Course Title
Hydraulics of Closed Conduits

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Includes design and operation of piping systems; economics; feasibility and impact of pipelines; pipe, pump, and valve selection; transient and cavitation analysis; and pipeline operation and filling.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Admission to the Professional Engineering program

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:
- CEE3500 - Civil and Environmental Engineering Fluid Mechanics
- CEE3510 - Civil and Environmental Engineering Hydraulics

CEE5600 - Environmental Chemistry of Inorganic Contaminants - 2 - Credits

Course Overview

Course Prefix
CEE

Course Number
5600

Department
Civil & Environmental Engineering

Dual-Listed Courses
CEE6600 - Environmental Chemistry of Inorganic Contaminants

Course Title
Environmental Chemistry of Inorganic Contaminants

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Inorganics of environmental concern discussed in terms of processes affecting their behavior in soil and water systems. Explores remediation of environmental systems contaminated with inorganic pollutants.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

No Requirements

CEE5610 - Environmental Quality Analysis - 3 - Credits

Course Overview

Course Prefix
CEE

Course Number
5610

Department
Civil & Environmental Engineering

Cross-Listed Courses
BENG5660 - Environmental Quality Analysis, BENG6660 - Environmental Quality Analysis

Dual-Listed Courses
CEE6610 - Environmental Quality Analysis

Course Title
Environmental Quality Analysis

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Familiarizes students with various methods used for analysis of chemical parameters in environmental samples (water, soil, and air). Provides students with skills enabling them to make proper selection/evaluation of analytical procedure and evaluate data generated.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Admission to the Professional Engineering Program

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- CHEM1210 - Principles of Chemistry I

CEE5620 - Aquatic Chemistry - 3 - Credits

Course Overview

Course Prefix
CEE

Course Number
5620

Department
Civil & Environmental Engineering

Course Title
Aquatic Chemistry

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Provides students with understanding of principles of aquatic chemistry, emphasizing chemical equilibria, acid-base reactions, complex formation, oxidation-reduction reactions, complex formation, and dissolution chemistry.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Admission to the Professional Engineering program

Simple Requisites

Prerequsite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- CHEM1210 - Principles of Chemistry I

or equivalent

CEE5635 - Environmental Engineering in Developing Nations - 3 - Credits

Course Overview

Course Prefix
CEE

Course Number
5635

Department
Civil & Environmental Engineering

Course Title
Environmental Engineering in Developing Nations

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
The course is designed for engineers and non-engineers and covers appropriate safe water, sanitation, air pollution technologies, and public health principles, for developing nations. Social and educational approaches, and project management principles required for successful project implementation, are stressed.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Admission to the Professional Engineering program

Simple Requisites

Corequisite

Type
Corequisite

Required

Enroll in the following Courses:

- CEE6635 - Environmental Engineering in Developing Nations

CEE5655 - Green Stormwater Infrastructure - 3 - Credits

Course Overview

Course Prefix
CEE

Course Number
5655

Department
Civil & Environmental Engineering

Dual-Listed Courses
CEE6655 - Green Stormwater Infrastructure

Course Title
Green Stormwater Infrastructure

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students explore policy, planning, and design aspects of green stormwater infrastructure implementation for sustainable communities through lectures, discussions, field trips, homework, and a group design project. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Junior-level standing

CEE5670 - Hazardous Chemicals Handling and Safety - 2 - Credits

Course Overview

Course Prefix
CEE

Course Number
5670

Department
Civil & Environmental Engineering

Cross-Listed Courses
PUBH5670 - Hazardous Chemicals Handling and Safety

Course Title
Hazardous Chemicals Handling and Safety

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Provides students with necessary skills and knowledge for working safely in areas associated with hazardous chemicals. Topics covered include: regulations, exposure routes, toxicology, chemical and physical hazards, personal protective equipment, sampling, monitoring, decontamination, and emergency response procedures.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Registration Restrictions
Admission to the Professional Engineering program

Simple Requisites

Prerquisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- CHEM1210 - Principles of Chemistry I

CEE5680 - Soil-Based Waste Management - 2 - Credits

Course Overview

Course Prefix
CEE

Course Number
5680

Department
Civil & Environmental Engineering

Cross-Listed Courses
BENG5680 - Soil-based Waste Management

Dual-Listed Courses
CEE6680 - Soil-Based Waste Management

Course Title
Soil-Based Waste Management

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Engineering management of wastes present in the vadose zone, including extraction, containment, and biological, chemical, and physical destruction technologies for sustainable agriculture and environmental quality. Aspects include engineering characterization, problem definition, treatment, and monitoring. Analysis and design emphasized through problems, examinations, and report writing.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Registration Restrictions
Admission to the Professional Engineering Program

CEE5690 - Natural Systems Engineering - 3 - Credits

Course Overview

Course Prefix
CEE

Course Number
5690

Department
Civil & Environmental Engineering

Dual-Listed Courses
CEE6690 - Natural Systems Engineering

Course Title
Natural Systems Engineering

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Explores integrated river basin planning and management using common assessment models and tools to simulate physical, chemical, and ecological processes from site to watershed scales, including water resources systems, impact assessment, and risk analysis.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Admission to the Professional Engineering Program

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- CEE3610 - Environmental Management
  OR PUBH3610 - Environmental Management
- CEE3500 - Civil and Environmental Engineering Fluid Mechanics

- CEE3510 - Civil and Environmental Engineering Hydraulics
- CEE3640 - Drinking Water Engineering

CEE5710 - Pollution Prevention and Industrial Ecology - 2 - Credits

Course Overview

Course Prefix
CEE

Course Number
5710

Department
Civil & Environmental Engineering

Course Title
Pollution Prevention and Industrial Ecology

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Explores pollution prevention and waste minimization concepts, focusing on implementation of these concepts in design of production processes and products. Discussion of pollution prevention/waste minimization concepts, energy and materials conservation, Life Cycle Analysis, materials and process audits, industrial process design for waste minimization and energy conservation, packaging, and ISO 14000.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Registration Restrictions
Admission to the Professional Engineering program

CEE5720 - Natural Systems Modeling - 3 - Credits

Course Overview

Course Prefix
CEE

Course Number
5720

Department
Civil & Environmental Engineering

Dual-Listed Courses
CEE6720 - Natural Systems Modeling

Course Title
Natural Systems Modeling

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Provides hands-on experience using commonly applied modeling tools to estimate physical, chemical, and biological impacts of existing and proposed water resource systems, emphasizing model utility, limitations, and the integrative multidisciplinary nature of impact assessment frameworks.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Admission to the Professional Engineering Program

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- CEE5690 - Natural Systems Engineering
  OR CEE6690 - Natural Systems Engineering

CEE5730 - Environmental Chemistry of Organic Contaminants - 3 - Credits

Course Overview

Course Prefix
CEE

Course Number
5730

Department
Civil & Environmental Engineering

Dual-Listed Courses
CEE6730 - Environmental Chemistry of Organic Contaminants

Course Title
Environmental Chemistry of Organic Contaminants

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Provides students with understanding of methods used in analysis of environmental samples for organic contaminants. Examines various properties and processes determining the fate of organic contaminants in the environment. Taught first half of fall semester.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Admission to the Professional Engineering Program

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Earn a minimum grade of C- in the following:

- CHEM1210 - Principles of Chemistry I
- CHEM1215 - Chemical Principles Laboratory I

CEE5750 - Air Quality Measurements - 2 - Credits

Course Overview

Course Prefix
CEE

Course Number
5750

Department
Civil & Environmental Engineering

Course Title
Air Quality Measurements

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Laboratory-based course designed to familiarize participants with federally-approved reference measurement techniques for ambient and source air pollutants. Also provides understanding of temporal and spatial pollutant behavior.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Registration Restrictions
Admission to the Professional Engineering program

CEE5790 - Accident and Emergency Management - 3 - Credits

Course Overview

Course Prefix
CEE

Course Number
5790

Department
Civil & Environmental Engineering

Cross-Listed Courses
PUBH5790 - Accident and Emergency Management

Course Title
Accident and Emergency Management

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Introduction to fundamentals of accident, hazard, and emergency management. Topics include legislation; chemical safety fundamentals; fire, explosion, and spill fundamentals; contaminant air transport fundamentals; hazard and risk assessment; dispersion applications; and hazard and risk management applications.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Admission to the Professional Engineering program

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- CHEM1220 - Principles of Chemistry II (BPS)

CEE5810 - Biochemical Engineering - 3 - Credits

Course Overview

Course Prefix
CEE

Course Number
5810

Department
Civil & Environmental Engineering

Cross-Listed Courses
BENG5810 - Biochemical Engineering

Dual-Listed Courses
CEE6810 - Biochemical Engineering

Course Title
Biochemical Engineering

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers fundamentals of bioreactor design and bioengineering to produce biological commodities. It emphasizes mathematical models of microbial and enzymatic processes in environmental and industrial biotechnology. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Admission to the Professional Engineering Program

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Fulfill ANY of the following requirements:

Option 1

Earn a minimum grade of C- in the following:

- BENG3200 - Introduction to Unit Operations in Biological

Engineering
- BENG3670 - Transport Phenomena in Bio-Environmental Systems
  OR CEE3670 - Transport Phenomena in Bio-Environmental Systems

OR

Option 2

Earn a minimum grade of C- in the following:
- BENG3670 - Transport Phenomena in Bio-Environmental Systems
  OR CEE3670 - Transport Phenomena in Bio-Environmental Systems
- CEE3610 - Environmental Management
  OR PUBH3610 - Environmental Management
- CEE3640 - Drinking Water Engineering

CEE5830 - Management and Utilization of Biological Solids and Wastewater - 3 - Credits

Course Overview

Course Prefix
CEE

Course Number
5830

Department
Civil & Environmental Engineering

Cross-Listed Courses
BENG5830 - Management and Utilization of Biological Solids and Wastewater

Dual-Listed Courses
CEE6830 - Management and Utilization of Biological Solids and Wastewater

Course Title
Management and Utilization of Biological Solids and Wastewater

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Focuses on production, management, and disposal of biosolids and wastewater generated in food processing and wastewater treatment. Emphasizes beneficial use of biosolids and wastewater for agricultural production, forest enhancement, and land reclamation.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Admission to the Professional Engineering Program

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:
- BENG3670 - Transport Phenomena in Bio-Environmental

Systems
OR CEE3670 - Transport Phenomena in Bio-Environmental Systems

CEE5860 - Air Quality Management - 3 - Credits

Course Overview

Course Prefix
CEE

Course Number
5860

Department
Civil & Environmental Engineering

Course Title
Air Quality Management

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides an introduction to air quality management. It explores the legislation, sources, behaviors, and effects of regulated and nonregulated air pollution, control techniques, and air dispersion modeling.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- CEE3610 - Environmental Management

CEE5870 - Hazardous Waste Incineration - 2 - Credits

Course Overview

Course Prefix
CEE

Course Number
5870

Department
Civil & Environmental Engineering

Course Title
Hazardous Waste Incineration

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Provides introduction to hazardous waste incineration principles. Topics include: thermodynamics, stoichiometry, thermochemistry, chemical kinetics, energy recovery, pollution control systems, and incinerator design principles.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Registration Restrictions

Admission to the Professional Engineering program and graduate standing

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- CEE3780 - Solid and Hazardous Waste Management

CEE5880 - Remediation Engineering - 3 - Credits

Course Overview

Course Prefix
CEE

Course Number
5880

Department
Civil & Environmental Engineering

Course Title
Remediation Engineering

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Physical, chemical, and biological principles associated with remediation of hazardous waste contaminated soil, water, sediments, and air. Topics include: source removal and source control, product recovery, chemical treatment methods, biological remediation concepts, in situ processes, ex situ processes, and integrated process design.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Admission to the Professional Engineering program

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- CEE3780 - Solid and Hazardous Waste Management
- CEE3610 - Environmental Management
  OR PUBH3610 - Environmental Management

CEE5885 - Precast/Prestressed Concrete - 3 - Credits

Course Overview

Course Prefix
CEE

Course Number
5885

Department
Civil & Environmental Engineering

Dual-Listed Courses
CEE6885 - Precast/Presetressed Concrete

Course Title
Precast/Prestressed Concrete

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students learn fundamentals of precast and prestressed concrete, exploring the application of first principles to various problems. Topics include prestress losses, initial and long-term deflection, transfer and development length, and indeterminate structures, emphasizing flexure and shear design of prestressed beams. Additional work is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- CEE3080 - Design of Reinforced Concrete Structures

CEE5900 - Cooperative Practice - 3 - Credits

Course Overview

Course Prefix
CEE

Course Number
5900

Department
Civil & Environmental Engineering

Course Title
Cooperative Practice

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
A planned work experience in industry. Detailed program must have prior approval. Written report required.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Registration Restrictions
Admission to the Professional Engineering program

CEE5930 - Independent Study - 1 - 3 Credits

Course Overview

Course Prefix
CEE

Course Number
5930

Department
Civil & Environmental Engineering

Course Title
Independent Study

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course consists of a laboratory design or research project on problem selected by the student. It requires review of literature, preparation of a proposal describing the project, completion of the design or research project, and preparation of a report.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

Registration Restrictions
Admission to the Professional Engineering Program

CEE5999 - Precision Agriculture Practicum - 3 - Credits

Course Overview

Course Prefix
CEE

Course Number
5999

Department
Civil & Environmental Engineering

Cross-Listed Courses
PSC5999 - Precision Agriculture Practicum, ASTE5999 - Precision Agriculture Practicum

Course Title
Precision Agriculture Practicum

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students set up, collect, and analyze multiple types of real-time sensor data on their "farm." As a final project, students utilize the data they have collected and create a prescription map for the next cropping cycle.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Junior or senior standing

Other Enrollment Recommendations
It is recommended that students complete an introductory statistics course (such as STAT1080 FOUNDATIONS OF DATA SCI (QL) or similar).

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- MATH1050 - College Algebra (QL)

or equivalent

Course Learning Objectives

Course Learning Outcomes
1. To establish the importance of the various state of the art monitoring devices used in modern farming operations and the programming steps required.
2. To develop an understanding in the efficient adjustment and set up of the different monitoring and yield mapping methods used on modern farming operations.
3. To gain hands-on experience in parsing and understanding of agronomic data from in-field sensing techniques.
4. To train the student in the methods of proper troubleshooting and the most productive way in developing efficient machine operation.
5. To determine and communicate effective management decisions based on sensor data.

CEE6000 - Irrigation and Drainage of Agricultural Lands - 3 - Credits

Course Overview

Course Prefix
CEE

Course Number
6000

Department
Civil & Environmental Engineering

Dual-Listed Courses
CEE5000 - Irrigation and Drainage of Agricultural Lands

Course Title
Irrigation and Drainage of Agricultural Lands

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Soil-water-plant relationships; evapotranspiration and water requirements; effective water use; irrigation scheduling; infiltration; irrigation systems planning, drainage systems and their design and the impact of irrigation on water quality.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- CEE3430 - Engineering Hydrology
- CEE3500 - Civil and Environmental Engineering Fluid Mechanics

CEE6001 - Design and Evaluation of Pressurized Irrigation Systems - 3 - Credits

Course Overview

Course Prefix
CEE

Course Number
6001

Department
Civil & Environmental Engineering

Dual-Listed Courses
CEE5001 - Design and Evaluation of Pressurized Irrigation Systems

Course Title
Design and Evaluation of Pressurized Irrigation Systems

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course explores irrigation principles and design constraints including soil and plant water relations. Design and evaluation of sprinkler and drip/micro irrigation systems including pump station and supply pipeline design. Offered fall semester of even years. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Other Enrollment Recommendations
CEE3430 ENGINEERING HYDROLOGY and CEE3500 FLUID MECHANICS and PSC5710 IRRIGATED SOILS

CEE6003 - Remote Sensing of Land Surfaces - 3 - Credits

Course Overview

Course Prefix
CEE

Course Number
6003

Department
Civil & Environmental Engineering

Cross-Listed Courses
PSC6003 - Remote Sensing of Land Surfaces

Dual-Listed Courses
CEE5003 - Remote Sensing of Land Surfaces

Course Title
Remote Sensing of Land Surfaces

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Introduction to principles of radiation, reflectance, infrared thermal, and other remote sensing measurements for vegetation, soil, water, and urban landscapes. Topics include vegetation index applications, water balance components, satellites and drone technologies, cloud-based data repositories, computational environments for remote sensing. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- CEE2450 - Computer Programming and Numerical Methods for Civil and Environmental Engineers

CEE6005 - Design and Evaluation of Gravity Irrigation Systems - 3 - Credits

Course Overview

Course Prefix
CEE

Course Number
6005

Department
Civil & Environmental Engineering

Dual-Listed Courses
CEE5005 - Design and Evaluation of Gravity Irrigation Systems

Course Title
Design and Evaluation of Gravity Irrigation Systems

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course explores the design and evaluation of surface irrigation and subsurface drainage systems, including irrigation canal and the design and operation of canal structures. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Other Enrollment Recommendations

CEE3430 ENGINEERING HYDROLOGY and CEE3500 FLUID MECHANICS and PSC5710 IRRIGATED SOILS

No Requirements

CEE6006 - Agricultural Water Management - 3 - Credits

Course Overview

Course Prefix
CEE

Course Number
6006

Department
Civil & Environmental Engineering

Dual-Listed Courses
CEE5006 - Agricultural Water Management

Course Title
Agricultural Water Management

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Soil water balance management and its influence on yield. Topics include farming decision making, plant hardiness and last freezing/planting dates, influence of weather, crop, soil, and irrigation system on seasonal consumptive water use and irrigation scheduling. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- CEE5001 - Design and Evaluation of Pressurized Irrigation Systems
  OR CEE6001 - Design and Evaluation of Pressurized Irrigation Systems

CEE6007 - Field Evaluation of Agricultural Irrigation Systems - 2 - Credits

Course Overview

Course Prefix
CEE

Course Number
6007

Department
Civil & Environmental Engineering

Dual-Listed Courses
CEE5007 - Field Evaluation of Agricultural Irrigation Systems

Course Title
Field Evaluation of Agricultural Irrigation Systems

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Field measurements in pressurized and surface irrigation systems for performance evaluation and determination of water application uniformity and efficiency. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

No Requirements

CEE6008 - Management of Irrigation Systems - 3 - Credits

Course Overview

Course Prefix
CEE

Course Number
6008

Department
Civil & Environmental Engineering

Dual-Listed Courses
CEE5008 - Management of Irrigation Systems

Course Title
Management of Irrigation Systems

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Assessment of irrigation and drainage projects, from a hydrological and operation & maintenance (O&M) perspectives. Simulation of command area water demands and water distribution. Irrigation project performance monitoring (Walk Thru surveys, conveyance hydraulic assessment, flowrate monitoring). Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- CEE3510 - Civil and Environmental Engineering Hydraulics
- CEE5001 - Design and Evaluation of Pressurized Irrigation Systems
  OR PSC5710 - Irrigated Soils

CEE6009 - Groundwater Systems Engineering I - 3 - Credits

Course Overview

Course Prefix
CEE

Course Number
6009

Department
Civil & Environmental Engineering

Dual-Listed Courses
CEE5009 - Groundwater Systems Engineering I

Course Title
Groundwater Systems Engineering I

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Groundwater exploration; well drilling and testing; pumping plant design, operation, and testing; aquifer evaluations; siting of multiple well systems. Development of pumping strategies for water supply and environmental control systems. Introduction to conjunctive use.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- CEE6000 - Irrigation and Drainage of Agricultural Lands
  OR CEE5000 - Irrigation and Drainage of Agricultural Lands

CEE6010 - Finite Element Methods in Solid Mechanics II - 3 - Credits

Course Overview

Course Prefix
CEE

Course Number
6010

Department
Civil & Environmental Engineering

Course Title
Finite Element Methods in Solid Mechanics II

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Advanced theory and applications of finite element methods to both static and dynamic solid mechanics problems.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- CEE5010 - Matrix Analysis/Finite Element

CEE6015 - Structural Design Loads - 3 - Credits

Course Overview

Course Prefix
CEE

Course Number
6015

Department
Civil & Environmental Engineering

Dual-Listed Courses
CEE5015 - Structural Design Loads

Course Title
Structural Design Loads

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides students with a working knowledge of the structural design loads required for US building design. It presents minimum load requirements for buildings and other structures along with real-world applications, limitations, and practical background understanding for future working professionals. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

CEE6020 - Structural Stability - 3 - Credits

Course Overview

Course Prefix
CEE

Course Number
6020

Department
Civil & Environmental Engineering

Course Title
Structural Stability

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Elastic and inelastic buckling of columns; analysis of beam columns, thin-walled beams of open cross-section. Stability analysis of frame and plate structures. Large deflection theory. Historical notes on stability of structures. Computer applications.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

CEE6030 - Structural Optimization - 3 - Credits

Course Overview

Course Prefix
CEE

Course Number
6030

Department
Civil & Environmental Engineering

Course Title
Structural Optimization

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Introduction to optimization techniques for linear and nonlinear, univariable, and multivariable functions with or without constraints. Computer applications, and applications to structural design.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Special Approval

Instructor permission

No Requirements

CEE6040 - Structural Reliability - 3 - Credits

Course Overview

Course Prefix
CEE

Course Number
6040

Department
Civil & Environmental Engineering

Course Title
Structural Reliability

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Elements of probability theory and its application to structural engineering and mechanics. Statistical distribution of loads. Uncertainties in material parameters and their effects in design. Reliability-based safety analysis and computer applications.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Special Approval

Instructor permission

No Requirements

CEE6050 - Experimental Methods in Structural Engineering - 3 - Credits

Course Overview

Course Prefix
CEE

Course Number
6050

Department
Civil & Environmental Engineering

Course Title
Experimental Methods in Structural Engineering

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Experimental techniques used in research and design in structural engineering and mechanics. Structural models. Theory and practical applications. Development of principles used to design research projects.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Special Approval

Instructor permission

No Requirements

CEE6070 - Mechanics of Composite Materials II - 3 - Credits

Course Overview

Course Prefix
CEE

Course Number
6070

Department
Civil & Environmental Engineering

Cross-Listed Courses
MAE6070 - Mechanics of Composite Materials II

Course Title
Mechanics of Composite Materials II

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Second course in composite materials. Stress-strain states of laminated composite structures, including interlaminar stresses, failure criteria, and hygrothermal stresses.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- MAE5060 - Mechanics of Composite Materials I

CEE6080 - Numerical Methods in Elasticity - 3 - Credits

Course Overview

Course Prefix
CEE

Course Number
6080

Department
Civil & Environmental Engineering

Dual-Listed Courses
CEE5080 - Numerical Methods in Elasticity

Course Title
Numerical Methods in Elasticity

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Elasticity theory, stress and strain analysis, and yield criteria. Governing equilibrium, kinematic, and compatibility equations. Generalized Hooke's law. Classical solutions of flex and torsion problems. Energy methods. Introduction to finite difference, finite element, and boundary element methods. Computer applications.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- CEE3020 - Structural Analysis

CEE6090 - Theory of Plates and Shells - 3 - Credits

Course Overview

Course Prefix
CEE

Course Number
6090

Department
Civil & Environmental Engineering

Dual-Listed Courses
MAE6090 - Theory of Plates and Shells

Course Title
Theory of Plates and Shells

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces plate and shell theories, including development of bending and buckling of plates and shells through classical theory.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- MAE3040 - Mechanics of Solids
  OR CEE3020 - Structural Analysis

CEE6110 - Hydroinformatics - 3 - Credits

Course Overview

Course Prefix
CEE

Course Number
6110

Department
Civil & Environmental Engineering

Course Title
Hydroinformatics

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Introduces hydroinformatics concepts and procedures including automated data collection, relational databases, data management software, metadata and semantics, data storage formats and standards, data transformations, web based data distribution, and automation of data manipulation tasks supporting hydrologic modeling and analysis.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

CEE6120 - Bridge Engineering - 3 - Credits

Course Overview

Course Prefix
CEE

Course Number
6120

Department
Civil & Environmental Engineering

Course Title
Bridge Engineering

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Provides students with a basic understanding of the facets of bridge design pertinent to a structural engineer. Focuses on analysis and design of a slab and prestressed concrete girder bridge.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

CEE6130 - Structural Dynamics and Seismic Design - 3 - Credits

Course Overview

Course Prefix
CEE

Course Number
6130

Department
Civil & Environmental Engineering

Cross-Listed Courses
MAE6130 - Structural Dynamics and Seismic Design

Course Title
Structural Dynamics and Seismic Design

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Development and solutions for equations of motion for single- and multi-degree of freedom systems. Dynamic analysis by Modal Superposition and Response Spectra. Design of structures for seismically active areas.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

CEE6140 - Advanced Reinforced Concrete - 3 - Credits

Course Overview

Course Prefix
CEE

Course Number
6140

Department
Civil & Environmental Engineering

Course Title
Advanced Reinforced Concrete

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Develops improved understanding of the behavior of reinforced concrete members. After students understand general behavior, codes are placed in proper perspective. Then students can design in situations not explicitly considered in current codes.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

CEE6150 - Prestressed Concrete Analysis and Design - 3 - Credits

Course Overview

Course Prefix
CEE

Course Number
6150

Department
Civil & Environmental Engineering

Course Title
Prestressed Concrete Analysis and Design

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces the analysis and design of prestressed concrete, including concepts for both pretensioning and post-tensioning: materials, types of prestresses, and prestress losses; design for flexure and shear; partial prestressing, serviceability, composite sections, slabs, indeterminate systems, and bridge design.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- CEE3080 - Design of Reinforced Concrete Structures

CEE6180 - Dynamics and Vibrations - 3 - Credits

Course Overview

Course Prefix
CEE

Course Number
6180

Department
Civil & Environmental Engineering

Cross-Listed Courses
MAE6180 - Dynamics and Vibrations

Course Title
Dynamics and Vibrations

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Fundamentals of two-dimensional and three-dimensional rigid body dynamics, including Newtonian, Lagrangian, and Leavit Energy Methods. Equations of motion, mode shapes, and natural frequencies for continuous media and multi degree-of-freedom systems.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- MAE5300 - Vibrations
  OR CEE6130 - Structural Dynamics and Seismic Design
  OR MAE6130 - Structural Dynamics and Seismic Design
  OR MAE5360 - Advanced Dynamics

CEE6190 - Geographic Information Systems for Civil Engineers - 3 - Credits

Course Overview

Course Prefix
CEE

Course Number
6190

Department
Civil & Environmental Engineering

Dual-Listed Courses
CEE5190 - Geographic Information Systems for Civil Engineers

Course Title
Geographic Information Systems for Civil Engineers

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Introduction to GIS concepts addressing data structures, spatial entities, and queries. Topics include location referencing methods, data collection techniques, current applications, and institutional and organizational issues.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

CEE6200 - Pavement Design - 3 - Credits

Course Overview

Course Prefix
CEE

Course Number
6200

Department
Civil & Environmental Engineering

Course Title
Pavement Design

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Analysis and design of flexible and rigid pavements for highways and runways, including the design of overlays. Equal emphasis on current practice and advanced concepts of pavement management.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

CEE6205 - Transportation Data Analysis and Research Methods - 3 - Credits

Course Overview

Course Prefix
CEE

Course Number
6205

Department
Civil & Environmental Engineering

Dual-Listed Courses
CEE5205 - Transportation Data Analysis and Research Methods

Course Title
Transportation Data Analysis and Research Methods

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces students to various transportation datasets and analysis techniques used in transportation research, including statistics, machine learning, and computer programming. Students learn interdisciplinary research methods, including study design, ethics, data collection techniques, literature review, and dissemination of research. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

CEE6220 - Traffic Operations and Management - 3 - Credits

Course Overview

Course Prefix
CEE

Course Number
6220

Department
Civil & Environmental Engineering

Dual-Listed Courses
CEE5220 - Traffic Operations and Management

Course Title
Traffic Operations and Management

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces modern traffic operations and management, covering macroscopic and microscopic traffic flow analysis, capacity and level of service, traffic control devices and signalized intersections, data collection, traffic simulation, and emerging intelligent transportation systems. Graduate enrollees complete additional coursework.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- CEE3210 - Introduction to Transportation Engineering

CEE6230 - Geometric Design of Highways - 3 - Credits

Course Overview

Course Prefix
CEE

Course Number
6230

Department
Civil & Environmental Engineering

Dual-Listed Courses
CEE5230 - Geometric Design of Highways

Course Title
Geometric Design of Highways

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Principles of highway location and planning, with full consideration of economic, environmental, and other impacts. Capacity analysis of intersections and highways, passing-lane design, and risk-cost based horizontal and vertical alignment design. Introduction to design software through coursework and term projects. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

CEE6240 - Transportation Planning - 3 - Credits

Course Overview

Course Prefix
CEE

Course Number
6240

Department
Civil & Environmental Engineering

Dual-Listed Courses
CEE5240 - Transportation Planning

Course Title
Transportation Planning

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course examines travel demand forecasting, data collection, and survey analysis techniques. It also studies trip generation, distribution, mode choice, and route assignment models, focusing on transportation-land use interactions and the societal impacts of planning and policies on travel demand. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

CEE6245 - Travel Behavior - 3 - Credits

Course Overview

Course Prefix
CEE

Course Number
6245

Department
Civil & Environmental Engineering

Course Title
Travel Behavior

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course discusses multidisciplinary theories and perspectives on travel behaviors and decisions, including built environment, socio-demographic, and psychological factors and influences. This course also addresses evolving travel behavior data collection and analysis methods used in both research and practice.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- CEE6240 - Transportation Planning

Course Learning Objectives

Course Learning Outcomes

1. Understand multidisciplinary theories and perspectives on travel behaviors and travel decision-making.
2. Understand travel behavior data collection and analysis methods used in both research and practice.
3. Apply course material to answer a travel behavior research question.

CEE6255 - Transportation Safety - 3 - Credits

Course Overview

Course Prefix
CEE

Course Number
6255

Department
Civil & Environmental Engineering

Dual-Listed Courses

CEE5255 - Transportation Safety

Course Title

Transportation Safety

Grade Mode
Standard Letter

Repeat Status
NR

Course Description

This course focuses on traffic safety topics, including crash data, human factors, safety management, safety countermeasures, and societal impacts. Students also learn and apply data analysis skills to understand crash prediction methods, including safety performance functions and crash modification factors. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

CEE6260 - Public Transportation - 3 - Credits

Course Overview

Course Prefix
CEE

Course Number
6260

Department
Civil & Environmental Engineering

Dual-Listed Courses

CEE5260 - Public Transportation

Course Title

Public Transportation

Grade Mode
Standard Letter

Repeat Status
NR

Course Description

Covers principles and methods of design, operation, planning, and policy for public transit in urban and rural areas; examines transit networks, routes, and stations/stops. Introduces innovations in data collection and analysis. Additional coursework is required for graduate-level enrollment.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

CEE6265 - Active Transportation - 3 - Credits

Course Overview

Course Prefix
CEE

Course Number
6265

Department
Civil & Environmental Engineering

Dual-Listed Courses
CEE5265 - Active Transportation

Course Title
Active Transportation

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces students to principles and methods in the planning, design, and operation of active transportation modes (walking, bicycling, micromobility) and facilities. Topics covered include user characteristics, facility design, traffic operations, facility analysis, data, planning, and policy. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

CEE6281 - Systems Approach to Electrified Transportation - 3 - Credits

Course Overview

Course Prefix
CEE

Course Number
6281

Department
Civil & Environmental Engineering

Cross-Listed Courses
ECE6281 - Systems Approach to Electrified Transportation

Course Title
Systems Approach to Electrified Transportation

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students learn to analyze electrified transportation using a systems-of-systems framework, examining interactions among vehicles, charging infrastructure, power grids, policy, economics, and societal impacts.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Course Learning Objectives

Course Learning Outcomes

1. Examine the relationships between the various systems involved in transportation electrification.
2. Examine how transportation electrification challenges typical ways of planning and operating electric power and transportation systems.
3. Evaluate the emerging adoption and policy landscape surrounding electric vehicles and charging infrastructure.
4. Assess the evolving effects of transportation electrification on the environment, human health, the economy, and society.
5. Analyze data related to specific problems in transportation electrification.

CEE6282 - AI-Enabled Electrified Transportation Networks - 3 - Credits

Course Overview

Course Prefix
CEE

Course Number
6282

Department
Civil & Environmental Engineering

Cross-Listed Courses
ECE6282 - AI-Enabled Electrified Transportation Networks

Course Title
AI-Enabled Electrified Transportation Networks

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students learn to model and optimize electrified transportation networks using data-driven and artificial intelligence methods, including demand estimation, infrastructure planning, and policy-aware system analysis.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Other Enrollment Recommendations
Students should have introductory programming experience or equivalent technical background.

Course Learning Objectives

Course Learning Outcomes
Upon successful completion of this course, students will be able to:

1. Identify key components and performance metrics of electrified transportation networks.
2. Develop computational models to estimate electric vehicle and electric transit charging demand.
3. Apply machine learning and AI techniques to transportation electrification planning and optimization problems.
4. Analyze the influence of policy and equity considerations on network design and deployment decisions.
5. Evaluate model results to support infrastructure planning and operational decision-making.

CEE6283 - Urban Sustainability and Energy Modeling - 3 - Credits

Course Overview

Course Prefix
CEE

Course Number
6283

Department
Civil & Environmental Engineering

Cross-Listed Courses
ECE6283 - Urban Sustainability and Energy Modeling

Course Title
Urban Sustainability and Energy Modeling

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students learn to model urban energy systems by integrating transportation electrification, building energy use, renewable generation, economics, and sustainability considerations to support data-informed planning decisions.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Other Enrollment Recommendations
It is recommended that students have background in quantitative reasoning.

Course Learning Objectives

Course Learning Outcomes
Upon successful completion of this course, students will be able to:

1. Explain the interactions among transportation, building energy use, power systems, and urban sustainability goals.
2. Construct urban-scale energy models incorporating electrified transportation, buildings, and renewable resources.
3. Analyze spatiotemporal energy demand patterns and their implications for planning and operations.
4. Interpret modeling results within economic, environmental, and equity contexts.
5. Develop integrated sustainability strategies informed by quantitative energy modeling.

CEE6284 - Advanced Energy Systems and Grid Modernization - 3 - Credits

Course Overview

Course Prefix
CEE

Course Number
6284

Department
Civil & Environmental Engineering

Cross-Listed Courses
ECE6284 - Advanced Energy Systems and Grid Modernization

Course Title
Advanced Energy Systems and Grid Modernization

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students learn to design and implement modern energy management systems using industry protocols and Artificial Intelligence (AI) techniques to support grid modernization, electrified transportation, and distributed energy resources.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Other Enrollment Recommendations
ECE6281 SYS APPROACH TO ELECT. TRANS., or CEE6281 SYS APPROACH TO ELECT. TRANS., or equivalent background.

Course Learning Objectives

Course Learning Outcomes
1. Develop practical skills in software development for hardware-in-the-loop projects related to grid modernization.
2. Implement OCPP 1.6.1 and 2.0.1, focusing on their purpose, usage, and cyber-physical security aspects.
3. Utilize OpenADR as an effective energy management system for grid-to-site control and resource management.
4. Build fundamental energy management systems using OCPP, OpenADR, and real-time price signals.
5. Apply AI techniques, including Q-learning, reinforcement learning, and Transformer models, to create intelligent EMS solutions for predicting and managing energy demands and resources.

CEE6290 - Transportation Network Analysis - 3 - Credits

Course Overview

Course Prefix
CEE

Course Number
6290

Department
Civil & Environmental Engineering

Dual-Listed Courses
CEE5290 - Transportation Network Analysis

Course Title
Transportation Network Analysis

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Course introduces transportation network analysis and mobility optimization, covering representation, topology, shortest path algorithms, optimal traffic assignment, route choice, demand–supply interactions, and network design. Explores emerging computational methods using GPS, maps, and sensors. Additional coursework required for graduate enrollment.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

CEE6300 - Embankments, Dams, and Slopes - 3 - Credits

Course Overview

Course Prefix
CEE

Course Number
6300

Department
Civil & Environmental Engineering

Course Title
Embankments, Dams, and Slopes

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Advanced slope stability and seepage analyses techniques applied to the design of earth dams, levees, and other earth embankments. Topics include: seepage analysis and the assessment of internal erosion, causes of slope instability, and components of dam/levee design and construction.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- CEE3300 - Engineering Soil Mechanics
- CEE5350 - Foundation Analysis and Design
  OR CEE6350 - Foundation Analysis and Design

CEE6310 - Environmental Geotechniques - 3 - Credits

Course Overview

Course Prefix
CEE

Course Number
6310

Department
Civil & Environmental Engineering

Course Title
Environmental Geotechniques

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Geotechnical aspects of environmental systems, with concentration on waste containment facilities.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- CEE3300 - Engineering Soil Mechanics

CEE6320 - Deep Foundations - 3 - Credits

Course Overview

Course Prefix
CEE

Course Number
6320

Department
Civil & Environmental Engineering

Course Title
Deep Foundations

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Analysis, design, and construction of deep foundations with emphasis on driver piles and drilled shafts.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- CEE3300 - Engineering Soil Mechanics
- CEE5350 - Foundation Analysis and Design
  OR CEE6350 - Foundation Analysis and Design

CEE6330 - Ground Reinforcement, Improvement and Treatment - 3 - Credits

Course Overview

Course Prefix
CEE

Course Number
6330

Department
Civil & Environmental Engineering

Course Title
Ground Reinforcement, Improvement and Treatment

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Theory, design, and construction methods for ground reinforcement, improvement, and treatment applications.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- CEE3300 - Engineering Soil Mechanics
- CEE5350 - Foundation Analysis and Design
  OR CEE6350 - Foundation Analysis and Design

CEE6340 - In-Situ Site Characterization - 3 - Credits

Course Overview

Course Prefix
CEE

Course Number
6340

Department
Civil & Environmental Engineering

Course Title
In-Situ Site Characterization

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers in-situ investigations performed for collecting detailed site characterization data for direct and/or indirect use in geotechnical design. Various in-situ tests to obtain estimates of stratigraphy, density, strength, stress history, modulus, and permeability of geotechnical materials are covered.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- CEE3300 - Engineering Soil Mechanics
- CEE5350 - Foundation Analysis and Design
  OR CEE6350 - Foundation Analysis and Design

CEE6350 - Foundation Analysis and Design - 3 - Credits

Course Overview

Course Prefix
CEE

Course Number
6350

Department
Civil & Environmental Engineering

Dual-Listed Courses
CEE5350 - Foundation Analysis and Design

Course Title
Foundation Analysis and Design

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Applications of theories studied in soil mechanics. Design considerations for various foundation types, including shallow foundations, driven piles, drilled shafts, walls, soil anchorages, and mechanically-stabilized earth support systems. Field investigation techniques and computer applications.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- CEE3300 - Engineering Soil Mechanics

CEE6360 - Geotechnical Principles - 3 - Credits

Course Overview

Course Prefix
CEE

Course Number
6360

Department
Civil & Environmental Engineering

Course Title
Geotechnical Principles

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers the consolidation and settlement behavior of fine and coarse grained soils, including predicting time-settlement behavior.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- CEE3300 - Engineering Soil Mechanics
- CEE5350 - Foundation Analysis and Design
  OR CEE6350 - Foundation Analysis and Design

CEE6370 - Risk Informed Decision Making for Dams and Levees - 3 - Credits

Course Overview

Course Prefix
CEE

Course Number
6370

Department
Civil & Environmental Engineering

Course Title
Risk Informed Decision Making for Dams and Levees

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This class is an overview of Risk Assessment and Risk Informed Decision Making (RIDM) methods applied to the assessment of dams and levees. The course covers basic concepts of RIDM, procedures for applying RIDM to dams and levees, and uses of RIDM for asset management.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- CEE3300 - Engineering Soil Mechanics

CEE6375 - Geotechnical Earthquake Engineering - 3 - Credits

Course Overview

Course Prefix
CEE

Course Number
6375

Department
Civil & Environmental Engineering

Dual-Listed Courses
CEE5375 - Geotechnical Earthquake Engineering

Course Title
Geotechnical Earthquake Engineering

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers geotechnical aspects of earthquake engineering, wave propagation, soil dynamics, ground response, local site effects, liquefaction, and seismic slope stability.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- CEE5385 - Introduction to Earthquake Engineering

Course Learning Objectives

Course Learning Outcomes

1. Understand seismic wave propagation
2. Understand dynamic soil properties
3. Understand ground response
4. Understand soil liquefaction
5. Understand seismic slope stability

CEE6385 - Introduction to Earthquake Engineering - 3 - Credits

Course Overview

Course Prefix
CEE

Course Number
6385

Department
Civil & Environmental Engineering

Dual-Listed Courses
CEE5385 - Introduction to Earthquake Engineering

Course Title
Introduction to Earthquake Engineering

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Covers wide variety of earthquake engineering topics, including seismology and earthquake source characterization, strong ground motion, seismic hazard analysis, wave propagation, soil dynamics, ground response, local site effects, liquefaction, seismic slope stability, soil improvement, vibrational analyses, and structural seismic design. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- CEE3300 - Engineering Soil Mechanics

Course Learning Objectives

Course Learning Outcomes
1) Understand basics of seismology

2) Understand code-based design ground motions

3) Understand basics of vibration and structural analysis

4) Understand soil liquefaction

5) Understand seismic slope stability

CEE6390 - Shear Strength of Soils - 3 - Credits

Course Overview

Course Prefix
CEE

Course Number
6390

Department
Civil & Environmental Engineering

Course Title
Shear Strength of Soils

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course provides the theory and knowledge necessary to understand the complex interaction of properties and mechanisms that affect the shear strength behavior of soils, and how to make appropriate strength estimates for geotechnical analyses.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

CEE6395 - Numerical Modeling in Geomechanics - 3 - Credits

Course Overview

Course Prefix
CEE

Course Number
6395

Department
Civil & Environmental Engineering

Dual-Listed Courses
CEE5395 - Numerical Modeling in Geomechanics

Course Title
Numerical Modeling in Geomechanics

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers finite difference and finite element methods, constitutive properties of soil. Students use these models and properties to evaluate flow, static deformations and dynamic behavior in soil. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Course Learning Objectives

Course Learning Outcomes

1. Understand finite difference and finite element methods
2. Understand constitutive properties of soils
3. Understand numerical solutions to LaPlace's equation
4. Understand static and dynamic numerical analyses in soil

CEE6400 - Physical Hydrology - 3 - Credits

Course Overview

Course Prefix
CEE

Course Number
6400

Department
Civil & Environmental Engineering

Course Title
Physical Hydrology

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Fundamentals of hydrologic cycle and hydrologic processes. Precipitation, infiltration, runoff generation, evaporation and transpiration, and snowmelt. Representation of hydrologic processes in hydrologic models.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- CEE3430 - Engineering Hydrology

CEE6410 - Engineering Systems Analysis - 3 - Credits

Course Overview

Course Prefix
CEE

Course Number
6410

Department
Civil & Environmental Engineering

Dual-Listed Courses
CEE5410 - Engineering Systems Analysis

Course Title
Engineering Systems Analysis

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Formulating and solving linear, integer, non-linear, multi-objective, and other problems to improve engineering system design, efficiency, planning, and management. Considering economic, environmental, and other goals under uncertainty. Additional work is required for graduate students.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

CEE6430 - Groundwater Engineering - 3 - Credits

Course Overview

Course Prefix
CEE

Course Number
6430

Department
Civil & Environmental Engineering

Dual-Listed Courses
CEE5430 - Groundwater Engineering

Course Title
Groundwater Engineering

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Explores fundamentals of groundwater hydrology by focusing on theory related to aquifer systems and flow analysis, regional groundwater balance, well hydraulics, aquifer testing, capture zone analysis, unsaturated flow, saltwater intrusion, and basics of flow modeling.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- CEE3430 - Engineering Hydrology

or similar hydrology course

CEE6440 - Advanced Hydrology Through CUAHSI Virtual University - 1 - 4 Credits

Course Overview

Course Prefix
CEE

Course Number
6440

Department
Civil & Environmental Engineering

Course Title
Advanced Hydrology Through CUAHSI Virtual University

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
A web broadcast graduate level course consisting of a diverse set of four-week modules offered by instructors at Consortium of Universities for the Advancement of Hydrologic Science (CUAHSI) member universities. Students do between 1 and 4 modules of their choosing from member university offerings, which vary year to year.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
4

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
4

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
4

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
4

Lecture Hours Operator:
TO

No Requirements

CEE6450 - Hydrologic Modeling - 3 - Credits

Course Overview

Course Prefix
CEE

Course Number
6450

Department
Civil & Environmental Engineering

Dual-Listed Courses
CEE5450 - Hydrologic Modeling

Course Title
Hydrologic Modeling

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers the principles and practices of hydrologic modeling for both groundwater and surface water systems, focusing on physically based, distributed models. Topics include groundwater flow, solute transport, and integrated surface-subsurface processes like evapotranspiration, infiltration, and runoff. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Other Enrollment Recommendations
CEE5430 GROUNDWATER ENGR or CEE6430 GROUNDWATER ENGR or GEO5510 GROUNDWATER GEOLOGY (QI)

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- CEE3430 - Engineering Hydrology

CEE6460 - Water Resources Engineering - 3 - Credits

Course Overview

Course Prefix
CEE

Course Number
6460

Department
Civil & Environmental Engineering

Dual-Listed Courses
CEE5460 - Water Resources Engineering (Inactive)

Course Title
Water Resources Engineering

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Engineering design course covering a wide range of topics, including: surface and groundwater hydrology, statistical analysis, water law, hydroelectric power, water supply, irrigation, flood control, wastewater, drainage, dams and reservoirs, pipelines, open channels, and planning.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- CEE3430 - Engineering Hydrology
- CEE3500 - Civil and Environmental Engineering Fluid Mechanics
- CEE4200 - Engineering Economics

CEE6470 - Sedimentation Engineering - 3 - Credits

Course Overview

Course Prefix
CEE

Course Number
6470

Department
Civil & Environmental Engineering

Dual-Listed Courses
CEE5470 - Sedimentation Engineering

Course Title
Sedimentation Engineering

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Explores river response, sediment transport, sediment and watershed yield, flow resistance, scour and erosion, and floodplain management. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- CEE3500 - Civil and Environmental Engineering Fluid Mechanics
- CEE5500 - Open Channel Hydraulics

CEE6480 - Groundwater Contamination: Modeling, Monitoring, and Management - 3 - Credits

Course Overview

Course Prefix
CEE

Course Number
6480

Department
Civil & Environmental Engineering

Course Title
Groundwater Contamination: Modeling, Monitoring, and Management

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
In-depth exploration of physical, chemical, and biological processes related to fate and transport of contaminants in the subsurface, mathematical modeling, remediation technologies, and mitigation of contaminated sites using risk-based decision-making.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- CEE5430 - Groundwater Engineering
  OR CEE6430 - Groundwater Engineering

or equivalent

CEE6490 - Integrated River Basin/Watershed Planning and Management - 3 - Credits

Course Overview

Course Prefix
CEE

Course Number
6490

Department
Civil & Environmental Engineering

Dual-Listed Courses
CEE5490 - Integrated River Basin/Watershed Planning and Management

Course Title
Integrated River Basin/Watershed Planning and Management

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces students to modern tools, strategies, and challenges to manage river basins. It covers multiple and competing water supplies, hydropower generation, recreation, ecosystem, and other objectives. Students forecast water demands, model operations, assess policies, and communicate with diverse stakeholders. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

CEE6500 - Open Channel Hydraulics - 3 - Credits

Course Overview

Course Prefix
CEE

Course Number
6500

Department
Civil & Environmental Engineering

Dual-Listed Courses
CEE5500 - Open Channel Hydraulics

Course Title
Open Channel Hydraulics

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers theory and applications of open channel flows under steady uniform and gradually varied flow conditions for both subcritical and supercritical flows in canals and natural channels. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- CEE3500 - Civil and Environmental Engineering Fluid Mechanics
- CEE3510 - Civil and Environmental Engineering Hydraulics

CEE6510 - Numerical and Statistical Methods for Civil Engineers - 3 - Credits

Course Overview

Course Prefix
CEE

Course Number
6510

Department
Civil & Environmental Engineering

Course Title
Numerical and Statistical Methods for Civil Engineers

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Engineering applications of approximation and interpolation, solution methods for ordinary differential equations, numerical solution of partial differential equations, nonparametric and parametric probability and regression estimation, and Monte Carlo and uncertainty analysis. (F)

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

CEE6530 - Hydraulic Modeling - 3 - Credits

Course Overview

Course Prefix
CEE

Course Number
6530

Department
Civil & Environmental Engineering

Dual-Listed Courses
CEE5530 - Hydraulic Modeling

Course Title
Hydraulic Modeling

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Course explores the derivation of the Navier-Stokes equations and solutions to unsteady free-surface flows, emphasizing solutions to practical flow problems from industry and research perspectives using CFD software/solvers from industry to model channels, rivers, and hydraulic structures. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- CEE3510 - Civil and Environmental Engineering Hydraulics
- CEE5500 - Open Channel Hydraulics
  OR CEE6500 - Open Channel Hydraulics

CEE6540 - Hydraulic Structures Design - 3 - Credits

Course Overview

Course Prefix
CEE

Course Number
6540

Department
Civil & Environmental Engineering

Dual-Listed Courses
CEE5540 - Hydraulic Structures Design

Course Title
Hydraulic Structures Design

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Explores design of a variety of hydraulic structures, both in the classroom and laboratory. Integrates student-developed, original computer programs; commercially available software; field trips; and hands-on laboratory design projects to further students' understanding of hydraulic structures.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- CEE3500 - Civil and Environmental Engineering Fluid Mechanics
- CEE3510 - Civil and Environmental Engineering Hydraulics

CEE6550 - Hydraulics of Closed Conduits - 3 - Credits

Course Overview

Course Prefix
CEE

Course Number
6550

Department
Civil & Environmental Engineering

Dual-Listed Courses
CEE5550 - Hydraulics of Closed Conduits

Course Title
Hydraulics of Closed Conduits

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Includes design and operation of piping systems; economics; feasibility and impact of pipelines; pipe, pump, and valve selection; transient and cavitation analysis; and pipeline operation and filling.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- CEE3500 - Civil and Environmental Engineering Fluid Mechanics
- CEE3510 - Civil and Environmental Engineering Hydraulics

CEE6570 - Computer Vision Applications for Natural and Built Environments - 3 - Credits

Course Overview

Course Prefix
CEE

Course Number
6570

Department
Civil & Environmental Engineering

Course Title
Computer Vision Applications for Natural and Built Environments

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces applications of computer vision for visual sensing across environmental, civil, and agricultural domains. This course is for students who desire to work with real data and understand practical applications of both long-standing and cutting-edge computer vision techniques.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- MATH1210 - Calculus I (QL)
- MATH1220 - Calculus II (QL)

Required

Complete ALL of the following Courses:

- PHYS2210 - Physics for Scientists and Engineers I (QI/BPS)

Course Learning Objectives

Course Learning Outcomes

1. Students will learn applications of computer vision for visual sensing in both natural and built environments across environmental, civil, and agricultural domains.
2. Students will learn to work with real data and understand the practical applications of both long-standing and cutting-edge computer vision techniques.

CEE6580 - Intermediate Fluid Mechanics - 3 - Credits

Course Overview

Course Prefix
CEE

Course Number
6580

Department
Civil & Environmental Engineering

Course Title
Intermediate Fluid Mechanics

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Survey of mathematical methods used in fluid mechanics, including: potential flow solutions (complex variables), laminar flow and turbulent flow solutions, boundary layer theory, and introduction to dispersion in fluid.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

CEE6590 - Evaluation of Hydrologic Modeling Systems - 3 - Credits

Course Overview

Course Prefix
CEE

Course Number
6590

Department
Civil & Environmental Engineering

Course Title
Evaluation of Hydrologic Modeling Systems

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Focuses on different techniques for evaluating the performance, diagnosing the model structure, and assessing the uncertainty of hydrologic modeling systems. Examines mathematical and systems theory methods for examining the interrelation between model inputs and outputs.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- CEE6400 - Physical Hydrology

CEE6600 - Environmental Chemistry of Inorganic Contaminants - 2 - Credits

Course Overview

Course Prefix
CEE

Course Number
6600

Department
Civil & Environmental Engineering

Dual-Listed Courses
CEE5600 - Environmental Chemistry of Inorganic Contaminants

Course Title
Environmental Chemistry of Inorganic Contaminants

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Inorganics of environmental concern discussed in terms of processes affecting their behavior in soil and water systems. Explores remediation of environmental systems contaminated with inorganic pollutants.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

CEE6610 - Environmental Quality Analysis - 3 - Credits

Course Overview

Course Prefix
CEE

Course Number
6610

Department
Civil & Environmental Engineering

Cross-Listed Courses
BENG6660 - Environmental Quality Analysis, BENG5660 - Environmental Quality Analysis

Dual-Listed Courses
CEE5610 - Environmental Quality Analysis

Course Title
Environmental Quality Analysis

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Familiarizes students with various methods used for analysis of chemical parameters in environmental samples (water, soil, and air). Provides students with skills enabling them to make proper selection/evaluation of analytical procedure and evaluate data generated.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Completion Requirement

Required

Complete ALL of the following Courses:

- CHEM1210 - Principles of Chemistry I

CEE6620 - Field Sampling and Analysis of Environmental Systems - 3 - Credits

Course Overview

Course Prefix
CEE

Course Number
6620

Department
Civil & Environmental Engineering

Course Title
Field Sampling and Analysis of Environmental Systems

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Explores applied field sampling, as well as field and laboratory techniques used in the monitoring of environmental media. Includes theory and practice of field site monitoring and measurement of physical, chemical, and biological processes in the environment.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Special Approval

Instructor permission

No Requirements

CEE6630 - Process Dynamics in Environmental Engineering Systems - 3 - Credits

Course Overview

Course Prefix
CEE

Course Number
6630

Department
Civil & Environmental Engineering

Course Title
Process Dynamics in Environmental Engineering Systems

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students learn fundamental principles used in analysis and simulation of environmental systems. Emphasis is on small particle dynamics, reaction kinetics, mass transfer, reactor analysis and design, transport phenomena, and development and solution of mathematical models to describe environmental systems.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- CEE3500 - Civil and Environmental Engineering Fluid Mechanics

CEE6635 - Environmental Engineering in Developing Nations - 3 - Credits

Course Overview

Course Prefix
CEE

Course Number
6635

Department
Civil & Environmental Engineering

Dual-Listed Courses
CEE5635 - Environmental Engineering in Developing Nations

Course Title
Environmental Engineering in Developing Nations

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
The course is designed for engineers and non-engineers and covers appropriate safe water, sanitation, air pollution technologies, and public health principles, for developing nations. Social and educational approaches, and project management principles required for successful project implementation, are stressed.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Admission to an Engineering graduate program

No Requirements

CEE6640 - Physical and Chemical Environmental Process Engineering - 3 - Credits

Course Overview

Course Prefix
CEE

Course Number
6640

Department
Civil & Environmental Engineering

Cross-Listed Courses
BENG6540 - Physical and Chemical Environmental Process Engineering

Course Title
Physical and Chemical Environmental Process Engineering

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Principles of physical and chemical environmental engineering processes, including sedimentation, filtration, gas transfer, aeration, absorption, ion exchange, membrane processes, coagulation, flocculation, precipitation, oxidation, reduction, and disinfection. Process modeling and analysis applications in treatment of water, wastewater, industrial wastes, vapor treatment, and soil remediation.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Special Approval
Instructor Permission

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- CEE5610 - Environmental Quality Analysis

OR CEE6610 - Environmental Quality Analysis
- CEE6630 - Process Dynamics in Environmental Engineering Systems

CEE6650 - Biological Processes in Environmental Engineering - 3 - Credits

Course Overview

Course Prefix
CEE

Course Number
6650

Department
Civil & Environmental Engineering

Course Title
Biological Processes in Environmental Engineering

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Theory and design of biological processes used in environmental engineering. Stoichiometric, energetic, kinetic and molecular biological analysis of processes for treatment of contaminated water, soil and air; modeling and design of aerobic and anaerobic suspended growth and fixed-film processes for treatment of municipal and industrial waste streams; nutrient removal; bioenergy production, and bioremediation.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Corequisite

Type
Corequisite

Required

Enroll in the following Courses:
- CEE6640 - Physical and Chemical Environmental Process Engineering
- CEE6670 - Environmental Process Laboratory

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- CEE6630 - Process Dynamics in Environmental Engineering Systems

CEE6655 - Green Stormwater Infrastructure - 3 - Credits

Course Overview

Course Prefix
CEE

Course Number
6655

Department
Civil & Environmental Engineering

Dual-Listed Courses
CEE5655 - Green Stormwater Infrastructure

Course Title
Green Stormwater Infrastructure

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students explore policy, planning, and design aspects of green stormwater infrastructure implementation for sustainable communities through lectures, discussions, field trips, homework, and a group design project. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

CEE6660 - Environmental and Hydrologic Data Analysis - 3 - Credits

Course Overview

Course Prefix
CEE

Course Number
6660

Department
Civil & Environmental Engineering

Course Title
Environmental and Hydrologic Data Analysis

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Data analysis, programming, and experimental design for environmental and hydrologic science, covering graphical methods, parametric and nonparametric statistics, frequency distributions, hypothesis testing, censored data, regression, factorial experimental design, environmental monitoring and uncertainty, and temporal and spatial analysis in diverse applications.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

CEE6670 - Environmental Process Laboratory - 2 - Credits

Course Overview

Course Prefix
CEE

Course Number
6670

Department
Civil & Environmental Engineering

Course Title
Environmental Process Laboratory

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Laboratory testing to demonstrate physical, chemical, and biological principles utilized in environmental engineering processes.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Simple Requisites

Corequisite

Type
Corequisite

Required

Enroll in the following Courses:

- CEE6640 - Physical and Chemical Environmental Process Engineering
- CEE6650 - Biological Processes in Environmental Engineering

CEE6680 - Soil-Based Waste Management - 2 - Credits

Course Overview

Course Prefix
CEE

Course Number
6680

Department
Civil & Environmental Engineering

Cross-Listed Courses
BENG6680 - Soil-based Waste Management

Dual-Listed Courses
CEE5680 - Soil-Based Waste Management

Course Title
Soil-Based Waste Management

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Engineering management of wastes present in the vadose zone, including extraction, containment, and biological, chemical, and physical destruction technologies for sustainable agriculture and environmental quality. Aspects include engineering characterization, problem definition, treatment, and monitoring. Analysis and design emphasized through problems, examinations, and report writing.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Registration Restrictions

Admission to Engineering graduate program

CEE6690 - Natural Systems Engineering - 3 - Credits

Course Overview

Course Prefix
CEE

Course Number
6690

Department
Civil & Environmental Engineering

Dual-Listed Courses
CEE5690 - Natural Systems Engineering

Course Title
Natural Systems Engineering

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Explores integrated river basin planning and management using common assessment models and tools to simulate physical, chemical, and ecological processes from site to watershed scales, including water resources systems, impact assessment, and risk analysis.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- CEE3610 - Environmental Management
  OR PUBH3610 - Environmental Management
- CEE3500 - Civil and Environmental Engineering Fluid Mechanics
- CEE3510 - Civil and Environmental Engineering Hydraulics
- CEE3640 - Drinking Water Engineering

CEE6710 - Environmental Engineering Microbial Ecology - 2 - Credits

Course Overview

Course Prefix
CEE

Course Number
6710

Department
Civil & Environmental Engineering

Course Title
Environmental Engineering Microbial Ecology

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Principles of microbial ecology applied to engineered and natural systems.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- BIOL3300 - General Microbiology
- CEE3610 - Environmental Management
  OR PUBH3610 - Environmental Management

CEE6720 - Natural Systems Modeling - 3 - Credits

Course Overview

Course Prefix
CEE

Course Number
6720

Department
Civil & Environmental Engineering

Dual-Listed Courses
CEE5720 - Natural Systems Modeling

Course Title
Natural Systems Modeling

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Provides hands-on experience using commonly applied modeling tools to estimate physical, chemical, and biological impacts of existing and proposed water resource systems, emphasizing model utility, limitations, and the integrative, multidisciplinary nature of impact assessment frameworks.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- CEE6690 - Natural Systems Engineering
  OR CEE5690 - Natural Systems Engineering

CEE6730 - Environmental Chemistry of Organic Contaminants - 3 - Credits

Course Overview

Course Prefix
CEE

Course Number
6730

Department
Civil & Environmental Engineering

Cross-Listed Courses
PUBH6730 - Environmental Chemistry of Organic Contaminants

Dual-Listed Courses
CEE5730 - Environmental Chemistry of Organic Contaminants

Course Title
Environmental Chemistry of Organic Contaminants

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Provides students with understanding of methods used in analysis of environmental samples for organic contaminants. Examines various properties and processes determining the fate of organic contaminants in the environment. Taught first half of fall semester.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Earn a minimum grade of C- in the following:

- CHEM1210 - Principles of Chemistry I
- CHEM1215 - Chemical Principles Laboratory I

CEE6740 - Surface Water Quality Modeling - 4 - Credits

Course Overview

Course Prefix
CEE

Course Number
6740

Department
Civil & Environmental Engineering

Course Title
Surface Water Quality Modeling

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Development and application of mathematical models for conventional pollutants in surface water systems. Covers the fundamentals of completely mixed systems; topics associated with various surface water quality environments (e.g., streams, rivers, lakes, etc.); and dissolved oxygen, BOD, nitrogen, phosphorus, sediment, and temperature behavior in surface water systems.

Credit Hours

Credit Hours Min:
4

Contact Hours

Contact Hours Min:
4

Billing Hours

Billing Hours Min:
4

Lecture Hours

Lecture Hours Min:
4

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- MATH1220 - Calculus II (QL)
- CHEM1210 - Principles of Chemistry I
  OR CHEM1110 - General Chemistry I (BPS)
- PHYS2210 - Physics for Scientists and Engineers I (QI/BPS)
  OR PHYS2010 - General Physics I

CEE6800 - CEE Seminar - 1 - Credits

Course Overview

Course Prefix
CEE

Course Number
6800

Department
Civil & Environmental Engineering

Course Title
CEE Seminar

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
This course is a graduate seminar for faculty, student, and guest lecturer presentations.

Credit Hours

Credit Hours Min:
1

Contact Hours

Contact Hours Min:
1

Billing Hours

Billing Hours Min:
1

Lecture Hours

Lecture Hours Min:
1

No Requirements

CEE6810 - Biochemical Engineering - 3 - Credits

Course Overview

Course Prefix
CEE

Course Number
6810

Department
Civil & Environmental Engineering

Cross-Listed Courses
BENG6810 - Biochemical Engineering

Dual-Listed Courses
CEE5810 - Biochemical Engineering

Course Title
Biochemical Engineering

Grade Mode
Standard Letter

Repeat Status
NR

Course Description

This course covers fundamentals of bioreactor design and bioengineering to produce biological commodities. It emphasizes mathematical models of microbial and enzymatic processes in environmental and industrial biotechnology. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Fulfill ANY of the following requirements:

Option 1

Earn a minimum grade of C- in the following:

- BENG3200 - Introduction to Unit Operations in Biological Engineering
- BENG3670 - Transport Phenomena in Bio-Environmental Systems
  OR CEE3670 - Transport Phenomena in Bio-Environmental Systems
- CEE3610 - Environmental Management
  OR PUBH3610 - Environmental Management
- CEE3640 - Drinking Water Engineering

OR

Option 2

Earn a minimum grade of C- in the following:

- BENG3670 - Transport Phenomena in Bio-Environmental Systems
  OR CEE3670 - Transport Phenomena in Bio-Environmental Systems
- CEE3610 - Environmental Management
  OR PUBH3610 - Environmental Management
- CEE3640 - Drinking Water Engineering

CEE6830 - Management and Utilization of Biological Solids and Wastewater - 3 - Credits

Course Overview

Course Prefix
CEE

Course Number
6830

Department
Civil & Environmental Engineering

Cross-Listed Courses
BENG6830 - Management and Utilization of Biological Solids and Wastewater

Dual-Listed Courses
CEE5830 - Management and Utilization of Biological Solids and Wastewater

Course Title
Management and Utilization of Biological Solids and Wastewater

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Focuses on production, management, and disposal of biosolids and wastewater generated in food processing and wastewater treatment. Emphasizes beneficial use of biosolids and wastewater for agricultural production, forest enhancement, and land reclamation.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- BENG3670 - Transport Phenomena in Bio-Environmental Systems
  OR CEE3670 - Transport Phenomena in Bio-Environmental Systems

CEE6840 - Application of Technology Transfer for Teachers - 2 - Credits

Course Overview

Course Prefix
CEE

Course Number
6840

Department
Civil & Environmental Engineering

Course Title
Application of Technology Transfer for Teachers

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Focuses on application of modern instructional strategies to the transfer of technology and science to the public education setting. Part of a series of six courses.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Special Approval

Advisor permission

Other Enrollment Recommendations

Participation in an In*Step Science Program in the public schools

No Requirements

CEE6850 - Atmospheric and Air Pollution Chemistry - 3 - Credits

Course Overview

Course Prefix
CEE

Course Number
6850

Department
Civil & Environmental Engineering

Course Title
Atmospheric and Air Pollution Chemistry

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Provides students with training in the fundamentals of natural and anthropogenically impacted atmospheric chemistry, primarily focusing on tropospheric meteorology, kinetics, and photochemistry, including gas-phase, aqueous-phase, and aerosol-forming reactions.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- CEE5680 - Soil-Based Waste Management
  OR CEE6680 - Soil-Based Waste Management

or upper-level chemistry

CEE6885 - Precast/Presetressed Concrete - 3 - Credits

Course Overview

Course Prefix
CEE

Course Number
6885

Department
Civil & Environmental Engineering

Dual-Listed Courses
CEE5885 - Precast/Prestressed Concrete

Course Title
Precast/Presetressed Concrete

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students learn fundamentals of precast and prestressed concrete, exploring the application of first principles to various problems. Topics include prestress losses, initial and long-term deflection, transfer and development length, and indeterminate structures, emphasizing flexure and shear design of prestressed beams. Additional work is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

CEE6900 - Directed Reading - 1 - 3 Credits

Course Overview

Course Prefix
CEE

Course Number
6900

Department
Civil & Environmental Engineering

Course Title
Directed Reading

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course consists of directed readings on advanced topics.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

Special Approval

Instructor permission

No Requirements

CEE6930 - Special Problems - 1 - 4 Credits

Course Overview

Course Prefix
CEE

Course Number
6930

Department
Civil & Environmental Engineering

Course Title
Special Problems

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Independent or group study of engineering problems not covered in regular course offerings.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
4

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
4

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
4

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
4

Lecture Hours Operator:
TO

Special Approval

Instructor permission

No Requirements

CEE6950 - Practical Training - 3 - Credits

Course Overview

Course Prefix
CEE

Course Number
6950

Department
Civil & Environmental Engineering

Course Title
Practical Training

Grade Mode
Pass/Fail

Repeat Status
NR

Course Description
Intended for graduate students who are interested in practical training before graduation.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

CEE6970 - Thesis Research - 1 - 6 Credits

Course Overview

Course Prefix
CEE

Course Number
6970

Department
Civil & Environmental Engineering

Course Title
Thesis Research

Grade Mode
Temporary Pass/Fail

Repeat Status
RP

Course Description
This course is designed for students preparing a master's degree thesis.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
6

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
6

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
6

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
6

Lecture Hours Operator:
TO

Special Approval

Instructor permission

No Requirements

CEE6990 - Continuing Graduate Advisement - 1 - 9 Credits

Course Overview

Course Prefix
CEE

Course Number
6990

Department
Civil & Environmental Engineering

Course Title
Continuing Graduate Advisement

Grade Mode
Temporary Pass/Fail

Repeat Status
RP

Course Description
This course provides graduate students with continued support and advisement. It is usually taken following completion of all coursework required for the degree.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
9

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
9

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
9

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
9

Lecture Hours Operator:
TO

Special Approval

Instructor permission

No Requirements

CEE7000 - Groundwater Systems Engineering II - 4 - Credits

Course Overview

Course Prefix
CEE

Course Number
7000

Department
Civil & Environmental Engineering

Course Title
Groundwater Systems Engineering II

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
System analysis techniques applied to aquifer and stream/aquifer management. Development of economically, quantitatively, and environmentally optimal strategies for alternative water policies. Modeling techniques for managing aquifer systems under volumetric, economic, and environmental management goals.

Credit Hours

Credit Hours Min:
4

Contact Hours

Contact Hours Min:
4

Billing Hours

Billing Hours Min:
4

Lecture Hours

Lecture Hours Min:
4

Simple Requisites

Perequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- CEE5470 - Sedimentation Engineering
  OR CEE6470 - Sedimentation Engineering
  OR CEE6500 - Open Channel Hydraulics

CEE7110 - Constitutive Modeling and Structural Response of Engineering Materials - 3 - Credits

Course Overview

Course Prefix
CEE

Course Number
7110

Department
Civil & Environmental Engineering

Course Title
Constitutive Modeling and Structural Response of Engineering Materials

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Constitutive modeling of reinforced concrete, metals, soils, and composite materials. Plasticity and endochronic theories. Finite element modeling and predictive analysis of two- and three-dimensional structures. Computer applications and implementations.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Special Approval

Instructor permission

No Requirements

CEE7120 - Advanced Topics in Civil Engineering - 3 - Credits

Course Overview

Course Prefix
CEE

Course Number
7120

Department
Civil & Environmental Engineering

Course Title
Advanced Topics in Civil Engineering

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Discussion of current research topics conducted by civil and other engineering faculty and staff at USU and elsewhere. Offered on either arranged or regular basis. Topics and times can be arranged with instructor and advisor.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Special Approval

Instructor permission

No Requirements

CEE7150 - Effective Engineering Instruction - 1 - Credits

Course Overview

Course Prefix
CEE

Course Number
7150

Department
Civil & Environmental Engineering

Course Title
Effective Engineering Instruction

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Seminar-style course designed to give PhD candidates insight and guidance for becoming effective engineering instructors.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

No Requirements

CEE7160 - Successful Faculty Strategies - 1 - Credits

Course Overview

Course Prefix
CEE

Course Number
7160

Department
Civil & Environmental Engineering

Course Title
Successful Faculty Strategies

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Seminar-style course designed to give PhD candidates insight and guidance into the expectations and approaches for becoming successful university faculty members.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

No Requirements

CEE7170 - Research Methods in Engineering - 1 - Credits

Course Overview

Course Prefix
CEE

Course Number
7170

Department
Civil & Environmental Engineering

Course Title
Research Methods in Engineering

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Seminar-style course designed to give PhD candidates insight and guidance into research methods in engineering.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

No Requirements

CEE7270 - Travel Demand and Supply Analysis - 3 - Credits

Course Overview

Course Prefix
CEE

Course Number
7270

Department
Civil & Environmental Engineering

Course Title
Travel Demand and Supply Analysis

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Fundamentals of demand and supply analysis. Theoretical aspects of travel demand modeling techniques. Modeling of performance characteristics and costs of transportation modes. Emphasis on theoretical aspects of discrete choice analysis and their applications in the modeling of transportation systems.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

CEE7300 - Theoretical Soil Mechanics - 3 - Credits

Course Overview

Course Prefix
CEE

Course Number
7300

Department
Civil & Environmental Engineering

Course Title
Theoretical Soil Mechanics

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Advanced studies of stress distribution in soil masses, shear strength, consolidation, constitutive modeling, and finite applications.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- CEE6360 - Geotechnical Principles

CEE7310 - Fundamentals of Soil Behavior - 3 - Credits

Course Overview

Course Prefix
CEE

Course Number
7310

Department
Civil & Environmental Engineering

Course Title
Fundamentals of Soil Behavior

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
The influence of clay mineralogy, clay chemistry, and soil origin on the engineering properties of soil.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- CEE6360 - Geotechnical Principles

CEE7320 - Advanced Soil Dynamics - 3 - Credits

Course Overview

Course Prefix
CEE

Course Number
7320

Department
Civil & Environmental Engineering

Course Title
Advanced Soil Dynamics

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Advanced studies in the response of soil structures and foundations to dynamic loads.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- CEE6360 - Geotechnical Principles

CEE7430 - Stochastic Hydrology - 3 - Credits

Course Overview

Course Prefix
CEE

Course Number
7430

Department
Civil & Environmental Engineering

Course Title
Stochastic Hydrology

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Stochastic description of hydrologic variability in time, space, and space-time. Markov processes, time series synthesis and forecasting, spectral analysis, spatial interpolation and random field simulation, data imputation, and parameter estimation for physical models. Lattice and Markov chain Monte Carlo methods, simulated annealing, and Gibbs processes. Applications to rainfall, streamflow, groundwater quality and quantity, and subsurface characterization.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

CEE7460 - Advanced Topics in Hydrology - 3 - Credits

Course Overview

Course Prefix
CEE

Course Number
7460

Department
Civil & Environmental Engineering

Course Title
Advanced Topics in Hydrology

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Topics of prominent current interest for advanced MS and PhD students. Can be repeated for credit with consent of instructor.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

CEE7520 - Mathematical Methods for Civil and Environmental Engineers - 3 - Credits

Course Overview

Course Prefix
CEE

Course Number
7520

Department
Civil & Environmental Engineering

Course Title
Mathematical Methods for Civil and Environmental Engineers

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Applications of advanced mathematical methods to analyze civil and environmental engineering problems, including analysis of dynamical systems, solutions to nonlinear and stochastic differential equations, Fourier analysis, and neural networks.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

CEE7970 - Dissertation Research - 1 - 10 Credits

Course Overview

Course Prefix
CEE

Course Number
7970

Department
Civil & Environmental Engineering

Course Title
Dissertation Research

Grade Mode
Temporary Pass/Fail

Repeat Status
RP

Course Description
This course consists of individual work on research problems for students enrolled in doctoral programs.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
10

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
10

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
10

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
10

Lecture Hours Operator:
TO

Special Approval

Instructor permission

No Requirements

CEE7990 - Continuing Graduate Advisement - 1 - 9 Credits

Course Overview

Course Prefix
CEE

Course Number
7990

Department
Civil & Environmental Engineering

Course Title
Continuing Graduate Advisement

Grade Mode
Temporary Pass/Fail

Repeat Status
RP

Course Description
This course provides graduate students with continued support and advisement. It is usually taken following completion of all coursework required for the degree.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
9

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
9

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
9

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
9

Lecture Hours Operator:
TO

Special Approval

Instructor permission

No Requirements

CHEM1010 - Introduction to Chemistry (BPS) - 3 - Credits

Course Overview

Course Prefix
CHEM

Course Number
1010

Department
Chemistry & Biochemistry

Course Title
Introduction to Chemistry (BPS)

General Education Attribute
BPS

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course is for non-science majors. It includes basic chemical concepts and a survey of the various branches of chemistry. Heavy emphasis is placed on everyday applications to problems involving environmental pollution, radioactivity, energy sources, and human health.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

CHEM1110 - General Chemistry I (BPS) - 4 - Credits

Course Overview

Course Prefix
CHEM

Course Number
1110

Department
Chemistry & Biochemistry

Course Title
General Chemistry I (BPS)

General Education Attribute
BPS

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
First of a two-semester sequence for non-science majors. Progression is made from the basic tenets of general chemistry through an introduction to organic chemistry, with topics being presented in order of practical importance and sophistication.

Credit Hours

Credit Hours
Min:
4

Contact Hours

Contact Hours
Min:
4

Billing Hours

Billing Hours
Min:
4

Lecture Hours

Lecture Hours
Min:
4

Other Enrollment Recommendations
This course is designed for students whose major does not require the more mathematically intensive CHEM 1210 or CHEM 1220 courses.

It is recommended that students take MATH 1050 (can take concurrently) for this course.

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Prerequisites may be fulfilled through coursework or exam.

Fulfill ANY of the following requirements:

Course Options

A grade of C- or better is required in MATH0995 COLLEGE MATHEMATICS PREP.

Complete ANY of the following Courses:

- MATH0995 - College Mathematics Preparation
- MATH1050 - College Algebra (QL)

OR

Exam Option

Complete any of the following exams with a qualifying score:

- ALEKS Math Placement score of 46 or better
- ACT of 23 or equivalent

CHEM1115 - General Chemistry I Laboratory - 1 - Credits

Course Overview

Course Prefix
CHEM

Course Number
1115

Department
Chemistry & Biochemistry

Course Title
General Chemistry I Laboratory

Grade Mode
Standard Letter

Repeat Status
NR

Course Description

Experiments are chosen to illustrate and clarify concepts taught in the lecture portion of CHEM 1110. Hands-on experience with the techniques of chemistry such as using crucibles, vernier calipers, funnels, semipermeable membranes to study osmosis and diffusion, an indicator derived from red cabbage to study acid/base properties of solutions and so forth. Upon completion of the laboratory experience, students will have a better idea of laboratory manipulations needed to acquire the data they use in the nursing profession.

Credit Hours

Credit Hours Min:
1

Contact Hours

Contact Hours Min:
1

Billing Hours

Billing Hours Min:
1

Lecture Hours

Lecture Hours Min:
1

Simple Requisites

Corequisite

Type
Corequisite

Required

Enroll in the following Courses:

- CHEM1110 - General Chemistry I (BPS)

CHEM1120 - General Chemistry II (BPS) - 4 - Credits

Course Overview

Course Prefix
CHEM

Course Number
1120

Department
Chemistry & Biochemistry

Course Title
General Chemistry II (BPS)

General Education Attribute
BPS

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Continuation of CHEM 1110; the second half of a two-semester sequence. Additional coverage of organic chemistry is presented along with an introduction to biochemistry.

Credit Hours

Credit Hours
Min:
4

Contact Hours

Contact Hours
Min:
4

Billing Hours

Billing Hours
Min:
4

Lecture Hours

Lecture Hours
Min:
4

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- CHEM1110 - General Chemistry I (BPS)

CHEM1125 - General Chemistry II Laboratory - 1 - Credits

Course Overview

Course Prefix
CHEM

Course Number
1125

Department
Chemistry & Biochemistry

Course Title
General Chemistry II Laboratory

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Laboratory course designed for non-science majors who are enrolled in CHEM 1120. Laboratory experiments involve basic aspects of general chemistry, organic chemistry and biochemistry.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Earn a minimum grade (UG) of D in the following:

- CHEM1110 - General Chemistry I (BPS)
- CHEM1120 - General Chemistry II (BPS)

(CHEM 1120 may be taken concurrently)

CHEM1130 - General, Organic, & Biological Chemistry - 4 - Credits

Course Overview

Course Prefix
CHEM

Course Number
1130

Department
Chemistry & Biochemistry

Course Title
General, Organic, & Biological Chemistry

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
An overview of general, organic, and biochemistry principles in preparation for careers in health-related professions such as nursing, as well as environmental and agricultural science.

Credit Hours

Credit Hours
Min:
4

Contact Hours

Contact Hours
Min:
4

Billing Hours

Billing Hours
Min:
4

Lecture Hours

Lecture Hours
Min:
4

Simple Requisites

Prerequisite

Type
Prerequisite

Prerequisite

Prerequisite can be fulfilled through either course or qualifying examination.

Fulfill ANY of the following requirements:

Course Option

Earn a minimum C- of undefined in the following:

- MATH0995 - College Mathematics Preparation
  OR MATH1050 - College Algebra (QL)
  OR MATH1210 - Calculus I (QL)

OR

Exam Option

Complete any of the following exams:

- ALEKS exam score of 46 or higher
- ACT Math score of 23 or equivalent SAT Math Section Score
- Sufficient score on the AP Exam equivalent to Math 1050 or higher

Course Learning Objectives

Course Learning Outcomes

Review math and learn to do calculations while working everyday examples of problems in health and medicine using metric units.

1. Understand the relationship of isotopes to the atomic mass of an element on the periodic table.
2. Understand the relationship between electron arrangement, group number, and periodic law.
3. Understand different types of radiation, radiation protection, balancing of nuclear equations, and the fusion and fission processes.
4. Learn the relationship between group numbers, valence electrons, and the formation of ionic and covalent compounds.
5. Write ionic formulas and names of compounds with polyatomic ions.
6. Use VSEPR theory to determine the shape, bond angles, and polarity of a molecule.
7. Classify an equation as a combination, decomposition, replacement, combustion, and/or oxidation-reduction.
8. For a given mass of a substance in a reaction, use the appropriate mole factors and molar masses to calculate the mass of a reactant or product.
9. Understand solubility and determine whether a salt will dissolve in water.
10. Calculate the percent concentrations and molarity of a solution.
11. Describe the behavior of a red blood cell in hypotonic, isotonic, and hypertonic solutions.
12. Describe the characteristics of acids and bases.
13. Classify bases/acids as strong or weak.
14. Describe the function of a buffer. Describe the properties, reactions, and names of alkanes, alkenes alkynes. alcohols, phenols, thiols, ethers, aldehydes, ketones, carboxylic acids, esters, amines, amides, and be able to draw their condensed structural and line-angle formulas.
15. Identify chiral and achiral carbon atoms in an organic molecule. Use Fischer projections to identify and draw the D and L enantiomers of monosaccharides.
16. Draw the Haworth structures for monosaccharides.
17. Learn the physical and chemical properties of saccharides.
18. Describe the classes of lipids and learn how to identify lipids as being saturated or unsaturated.
19. Learn the chemical properties of lipids, the structural features of phospholipids and steroids, and describe the composition and function of the cellular lipid bilayer.

20. Describe the primary, secondary, tertiary, and quaternary structure of a protein.
21. Describe enzymes and their roles in enzyme-catalyzed reactions.
22. Describe the components that make up the nucleic acids of DNA and RNA.
23. Describe the primary structure of RNA and DNA, the double helix of DNA, and the process of DNA replication.
24. Identify the different types of RNA and the synthesis of mRNA.
25. Use the genetic code to write the amino acid sequence for a segment of mRNA.

CHEM1135 - General, Organic, and Biological Chemistry Lab - 1 - Credits

Course Overview

Course Prefix
CHEM

Course Number
1135

Department
Chemistry & Biochemistry

Course Title
General, Organic, and Biological Chemistry Lab

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course is designed to provide hands-on experience with techniques and concepts common to general, organic, and biological chemistry research.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Other Enrollment Recommendations
This course is intended to be taken concurrently with CHEM1130 GENERAL ORGANIC & BIOCHEMISTRY.

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Enroll in the following Courses:

- CHEM1130 - General, Organic, & Biological Chemistry

(may be taken concurrently)

Course Learning Objectives

Course Learning Outcomes

1. Appreciation of laboratory safety

2. Use of photometry
3. Understanding of chromatography
4. Use of gel electrophoresis
5. Use of acid titrations.
6. Understanding of chirality
7. Understanding of enzyme kinetics and protein structure

CHEM1210 - Principles of Chemistry I - 4 - Credits

Course Overview

Course Prefix
CHEM

Course Number
1210

Department
Chemistry & Biochemistry

Course Title
Principles of Chemistry I

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
First of a two-semester sequence, covering fundamentals of chemistry. Designed for science and engineering students.

Credit Hours

Credit Hours
Min:
4

Contact Hours

Contact Hours
Min:
4

Billing Hours

Billing Hours
Min:
4

Lecture Hours

Lecture Hours
Min:
4

Other Enrollment Recommendations
High school chemistry recommended

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Prerequisite may be fulfilled through coursework or exam.

Fulfill ANY of the following requirements:

Course Options

Complete ANY of the following Courses:

- MATH1100 - Calculus Techniques (QL)
  OR MATH1210 - Calculus I (QL)
  OR MATH1050 - College Algebra (QL)

(MATH 1050 may be taken concurrently)

OR

Exam Options

Fulfillment through one of the following exams:

- MATH ACT score of at least 25 or equivalent SAT Math score
- Sufficient score on AP Exam equivalent to MATH1050 COLLEGE ALGEBRA (QL)or higher.
- ALEKS Math Placement Exam of 61 or higher

CHEM1215 - Chemical Principles Laboratory I - 1 - Credits

Course Overview

Course Prefix
CHEM

Course Number
1215

Department
Chemistry & Biochemistry

Course Title
Chemical Principles Laboratory I

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Laboratory course designed to be taken concurrently with CHEM 1210. The laboratory class offers hands-on experience related to the topics taught in the lecture sequence..

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Registration Restrictions

Some sections of the course may be designated for chemistry and biochemistry department majors only.

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- CHEM1210 - Principles of Chemistry I

(may be taken concurrently)

CHEM1220 - Principles of Chemistry II (BPS) - 4 - Credits

Course Overview

Course Prefix
CHEM

Course Number
1220

Department
Chemistry & Biochemistry

Course Title
Principles of Chemistry II (BPS)

General Education Attribute
BPS

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Continuation of CHEM 1210; the second half of a two-semester sequence, covering the fundamentals of chemistry. Designed for science and engineering students.

Credit Hours

Credit Hours
Min:
4

Contact Hours

Contact Hours
Min:
4

Billing Hours

Billing Hours
Min:
4

Lecture Hours

Lecture Hours
Min:
4

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- CHEM1210 - Principles of Chemistry I

CHEM1225 - Chemical Principles Laboratory II - 1 - Credits

Course Overview

Course Prefix
CHEM

Course Number
1225

Department
Chemistry & Biochemistry

Course Title
Chemical Principles Laboratory II

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course is a continuation of CHEM 1215. It is normally taken concurrently with CHEM 1220. The laboratory class offers hands-on experience related to topics taught in the lecture sequence.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Registration Restrictions

There may be some chemistry and biochemistry department major specific sections of the course available.

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- CHEM1215 - Chemical Principles Laboratory I
- CHEM1220 - Principles of Chemistry II (BPS)

(CHEM 1220 may be taken concurrently)

CHEM1990 - Introduction to the Chemistry and Biochemistry Professions - 1 - Credits

Course Overview

Course Prefix
CHEM

Course Number
1990

Department
Chemistry & Biochemistry

Course Title
Introduction to the Chemistry and Biochemistry Professions

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
This course is designed to expose students to careers in chemistry and biochemistry as well as the professional skills needed to land and keep a job. It includes topics presented by faculty and invited guests and assignments focused on employability skills.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

No Requirements

CHEM2300 - Principles of Organic Chemistry - 3 - Credits

Course Overview

Course Prefix
CHEM

Course Number
2300

Department
Chemistry & Biochemistry

Course Title
Principles of Organic Chemistry

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Shape, bonding, nomenclature, stereochemistry, physical properties, and reactivity of organic molecules is covered for a range of molecules, beginning with simple alkanes and finishing with some of the more complex abiotic and biotic organic molecules known today.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- CHEM1210 - Principles of Chemistry I

CHEM2310 - Organic Chemistry I - 4 - Credits

Course Overview

Course Prefix
CHEM

Course Number
2310

Department
Chemistry & Biochemistry

Course Title
Organic Chemistry I

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course is the first of a two-semester sequence covering the physical properties, nomenclature, stereochemistry, mechanisms, chemical reactivity, and spectroscopy of organic compounds, including the biological roles and importance of organic compounds. It is designed for students requiring an in-depth understanding of organic chemistry.

Credit Hours

Credit Hours
Min:
4

Contact Hours

Contact Hours
Min:
4

Billing Hours

Billing Hours
Min:
4

Lecture Hours

Lecture Hours
Min:
4

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ANY of the following Courses:

- CHEM1120 - General Chemistry II (BPS)
  OR CHEM1220 - Principles of Chemistry II (BPS)

CHEM2315 - Organic Chemistry Laboratory I - 1 - Credits

Course Overview

Course Prefix
CHEM

Course Number
2315

Department
Chemistry & Biochemistry

Course Title
Organic Chemistry Laboratory I

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Laboratory course designed to accompany CHEM 2310 . The laboratory class offers hands-on experience related to the topics taught in the lecture sequence.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Registration Restrictions
There may be chemistry and biochemistry major specific sections of this course available.

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- CHEM1215 - Chemical Principles Laboratory I
- CHEM2300 - Principles of Organic Chemistry
  OR CHEM2310 - Organic Chemistry I

(CHEM 2300 or CHEM 2310 may be taken concurrently)

CHEM2320 - Organic Chemistry II - 4 - Credits

Course Overview

Course Prefix
CHEM

Course Number
2320

Department
Chemistry & Biochemistry

Course Title
Organic Chemistry II

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course is the second half of a two semester organic chemistry sequence covering the physical properties, nomenclature, stereochemistry, mechanisms, chemical reactivity, and spectroscopy of organic compounds, including the biological roles and importance of organic compounds

Credit Hours

Credit Hours
Min:
4

Contact Hours

Contact Hours
Min:
4

Billing Hours

Billing Hours
Min:
4

Lecture Hours

Lecture Hours
Min:
4

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- CHEM2310 - Organic Chemistry I

CHEM2325 - Organic Chemistry Laboratory II - 1 - Credits

Course Overview

Course Prefix
CHEM

Course Number
2325

Department
Chemistry & Biochemistry

Course Title
Organic Chemistry Laboratory II

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This is a continuation of CHEM 2315, normally taken concurrently with CHEM 2320. This laboratory class offers hands-on experience related to topics taught in the lecture sequence.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Registration Restrictions

There may be chemistry and biochemistry major specific sections of this course available.

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- CHEM2315 - Organic Chemistry Laboratory I
- CHEM2320 - Organic Chemistry II

(CHEM 2320 may be taken concurrently)

CHEM2977 - Cooperative Education - 1 - 3 Credits

Course Overview

Course Prefix
CHEM

Course Number
2977

Department
Chemistry & Biochemistry

Course Title
Cooperative Education

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Provides supervised on-the-job training in chemistry lab assistant and similar positions. Students meet with the instructor / coordinator periodically during the course to determine and evaluate learning objectives, hours to be worked, credit agreements.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

Special Approval
Instructor permission

No Requirements

CHEM2988 - Special Problems - 1 - 3 Credits

Course Overview

Course Prefix
CHEM

Course Number
2988

Department
Chemistry & Biochemistry

Course Title
Special Problems

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Individual work approved by instructor. Time and credit to be arranged.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

No Requirements

CHEM3000 - Quantitative Analysis (QI) - 3 - Credits

Course Overview

Course Prefix
CHEM

Course Number
3000

Department
Chemistry & Biochemistry

Course Title
Quantitative Analysis (QI)

General Education Attribute
QI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers basic theory and laboratory practice in analytical chemistry, including introduction to multiple equilibria and chemical separation methods.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Fulfill ALL of the following requirements:

Chemistry course prererquisites

Complete ALL of the following Courses:

- CHEM1210 - Principles of Chemistry I
- CHEM1220 - Principles of Chemistry II (BPS)

AND

Math prerequisite

Complete ANY of the following Courses:

- MATH1050 - College Algebra (QL)

OR MATH1210 - Calculus I (QL)

- ***Or*** Sufficient score on AP Exam equivalent to MATH1050 COLLEGE ALGEBRA (QL) or higher.

CHEM3005 - Quantitative Analysis Laboratory - 1 - Credits

Course Overview

Course Prefix
CHEM

Course Number
3005

Department
Chemistry & Biochemistry

Course Title
Quantitative Analysis Laboratory

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course is a one three-hour laboratory per week that accompanies the Quantitative Analysis course.

Credit Hours

Credit Hours Min:
1

Contact Hours

Contact Hours Min:
1

Billing Hours

Billing Hours Min:
1

Lecture Hours

Lecture Hours Min:
1

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Fulfill ALL of the following requirements:

Chemistry course prerequisites

Complete ALL of the following Courses:

- CHEM1215 - Chemical Principles Laboratory I
- CHEM1225 - Chemical Principles Laboratory II
- CHEM3000 - Quantitative Analysis (QI)

(CHEM3000 QUANTITATIVE ANALYSIS (QI) may be taken concurrently)

AND

Math Prerequisite

Complete ANY of the following Courses:

- MATH1050 - College Algebra (QL)
  OR MATH1210 - Calculus I (QL)

- ***Or*** Sufficient score on AP Exam equivalent to MATH1050 COLLEGE ALGEBRA (QL) or higher.

CHEM3060 - Physical Chemistry I (QI) - 3 - Credits

Course Overview

Course Prefix
CHEM

Course Number
3060

Department
Chemistry & Biochemistry

Course Title
Physical Chemistry I (QI)

General Education Attribute
QI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers chemical thermodynamics, laws of thermodynamics, changes of state, chemical equilibrium, chemical kinetics, rate laws, reaction mechanisms and theories of reaction rates.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- CHEM1220 - Principles of Chemistry II (BPS)
  AND MATH2210 - Multivariable Calculus (QI)
  AND PHYS2220 - Physics for Scientists and Engineers II (BPS/QI)

CHEM3070 - Physical Chemistry II (QI) - 3 - Credits

Course Overview

Course Prefix
CHEM

Course Number
3070

Department
Chemistry & Biochemistry

Course Title
Physical Chemistry II (QI)

General Education Attribute
QI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides an introduction to quantum mechanics, the Schrodinger equation, and exactly-soluble problems. It includes chemical applications of quantum mechanics, the periodic table and chemical bonding. It also covers spectroscopy and statistical thermodynamics.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- CHEM3060 - Physical Chemistry I (QI)

CHEM3090 - Physical Chemistry Laboratory (CI) - 2 - Credits

Course Overview

Course Prefix
CHEM

Course Number
3090

Department
Chemistry & Biochemistry

Course Title
Physical Chemistry Laboratory (CI)

General Education Attribute
CI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This laboratory course consists of experimental work to accompany CHEM 3060 and CHEM 3070.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- CHEM3060 - Physical Chemistry I (QI)

Corequiste

Type
Corequisite

Required

Enroll in the following Courses:

- CHEM3070 - Physical Chemistry II (QI)

CHEM3510 - Intermediate Inorganic Chemistry - 2 - Credits

Course Overview

Course Prefix
CHEM

Course Number
3510

Department
Chemistry & Biochemistry

Course Title
Intermediate Inorganic Chemistry

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Survey of basic structure, bonding, and reactivity across the periodic table. .

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- CHEM1220 - Principles of Chemistry II (BPS)
  AND CHEM2310 - Organic Chemistry I
  AND CHEM2315 - Organic Chemistry Laboratory I

CHEM3520 - Inorganic Chemistry Laboratory - 1 - Credits

Course Overview

Course Prefix
CHEM

Course Number
3520

Department
Chemistry & Biochemistry

Course Title
Inorganic Chemistry Laboratory

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Covers basic aspects of inorganic synthesis and compound characterization.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Simple Requisites

Corequisite

Type
Corequisite

Required

Enroll in the following Courses:

- CHEM3510 - Intermediate Inorganic Chemistry

CHEM3650 - Environmental Chemistry (DSC) - 3 - Credits

Course Overview

Course Prefix
CHEM

Course Number
3650

Department
Chemistry & Biochemistry

Course Title
Environmental Chemistry (DSC)

General Education Attribute
DSC

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Survey of issues and chemical nature of environmental problems, including air, soil, and water pollution.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ANY of the following Courses:

- CHEM1010 - Introduction to Chemistry (BPS)
  OR CHEM1120 - General Chemistry II (BPS)
  OR CHEM1220 - Principles of Chemistry II (BPS)

CHEM3700 - Introductory Biochemistry - 3 - Credits

Course Overview

Course Prefix
CHEM

Course Number
3700

Department
Chemistry & Biochemistry

Course Title
Introductory Biochemistry

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Brief survey of the chemistry of biologically important compounds and their role in microbial, animal, and plant metabolism.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ANY of the following Courses:

- CHEM2300 - Principles of Organic Chemistry
  OR CHEM2310 - Organic Chemistry I

CHEM3710 - Introductory Biochemistry Laboratory - 1 - Credits

Course Overview

Course Prefix
CHEM

Course Number
3710

Department
Chemistry & Biochemistry

Course Title
Introductory Biochemistry Laboratory

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Laboratory course designed to accompany CHEM 3700.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Simple Requisites

Corequisite

Type
Corequisite

Required

Enroll in the following Courses:

- CHEM3700 - Introductory Biochemistry

CHEM3750 - Chemistry Special Topics - 1 - 3 Credits

Course Overview

Course Prefix
CHEM

Course Number
3750

Department
Chemistry & Biochemistry

Course Title
Chemistry Special Topics

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course explores a particular topic in greater depth and with narrower focus than a conventional course.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

No Requirements

CHEM4250 - Cooperative Experience - 1 - 2 Credits

Course Overview

Course Prefix
CHEM

Course Number
4250

Department
Chemistry & Biochemistry

Course Title
Cooperative Experience

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Planned work outside the University. Specific experience must receive prior approval for credit to be earned. Consult advisor or department head for details.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
2

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
2

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
2

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
2

Lecture Hours Operator:
TO

No Requirements

CHEM4800 - Research Problems (CI) - 1 - 3 Credits

Course Overview

Course Prefix
CHEM

Course Number
4800

Department
Chemistry & Biochemistry

Course Title
Research Problems (CI)

General Education Attribute
CI

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Directed undergraduate research.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

Special Approval

Department permission

No Requirements

CHEM4890 - Undergraduate Biochemistry Seminar (CI) - 2 - Credits

Course Overview

Course Prefix
CHEM

Course Number
4890

Department
Chemistry & Biochemistry

Course Title
Undergraduate Biochemistry Seminar (CI)

General Education Attribute
CI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course includes the presentation of scientific seminars, critiquing of and participation in departmental seminars, scientific literature searching, accessing and using scientific databases, and career preparation and development. Biochemistry majors should take the course during their senior year.

Credit Hours

Credit Hours Min:
2

Contact Hours

Contact Hours Min:
2

Billing Hours

Billing Hours Min:
2

Lecture Hours

Lecture Hours Min:
2

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Earn a minimum grade of C- in the following:

- CHEM5700 - General Biochemistry I
  AND CHEM5710 - General Biochemistry II

CHEM4990 - Undergraduate Seminar (CI) - 2 - Credits

Course Overview

Course Prefix
CHEM

Course Number
4990

Department
Chemistry & Biochemistry

Course Title
Undergraduate Seminar (CI)

General Education Attribute
CI

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
In this course, students hone their writing and speaking skills, which are necessary for presenting scientific information.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- CHEM3060 - Physical Chemistry I (QI)

(may be taken concurrently)

CHEM5070 - Biophysical Chemistry - 3 - Credits

Course Overview

Course Prefix
CHEM

Course Number
5070

Department
Chemistry & Biochemistry

Course Title
Biophysical Chemistry

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Biological applications and theories of physical chemistry. Equilibrium, thermodynamics, chemical kinetics, transport properties, and spectroscopy.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- CHEM1220 - Principles of Chemistry II (BPS)
- CHEM5700 - General Biochemistry I
- MATH1220 - Calculus II (QL)
- PHYS2120 - General Physics - Life Sciences II (BPS)
  OR PHYS2220 - Physics for Scientists and Engineers II (BPS/QI)

CHEM5100 - Computational Chemistry - 3 - Credits

Course Overview

Course Prefix
CHEM

Course Number
5100

Department
Chemistry & Biochemistry

Course Title
Computational Chemistry

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Provides students with an understanding of modern computational chemical methods. Students will learn how to incorporate these methods into their own research projects, and to assess the validity of such data that appears in the scientific literature.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- CHEM3070 - Physical Chemistry II (QI)

CHEM5520 - Advanced Inorganic Chemistry - 2 - Credits

Course Overview

Course Prefix
CHEM

Course Number
5520

Department
Chemistry & Biochemistry

Course Title
Advanced Inorganic Chemistry

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Advanced treatment of the structure/bonding/reactivity relationships across the periodic table.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- CHEM3070 - Physical Chemistry II (QI)
- CHEM3510 - Intermediate Inorganic Chemistry

CHEM5530 - Advanced Synthesis Laboratory - 2 - Credits

Course Overview

Course Prefix
CHEM

Course Number
5530

Department
Chemistry & Biochemistry

Course Title
Advanced Synthesis Laboratory

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Laboratory course in advanced synthetic techniques, including vacuum lines, inert atmosphere, Schlenk manipulations, liquid ammonia solvent, and tube furnace reactions.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Simple Requisites

Any of the following requirements

Type
Prerequisite

Required

Complete ALL of the following Courses:

- CHEM2325 - Organic Chemistry Laboratory II
- CHEM3070 - Physical Chemistry II (QI)
- CHEM3520 - Inorganic Chemistry Laboratory

CHEM5640 - Instrumental Analysis - 3 - Credits

Course Overview

Course Prefix
CHEM

Course Number
5640

Department
Chemistry & Biochemistry

Course Title
Instrumental Analysis

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students study the theory and application of physiochemical methods of analysis. Topics include atomic and molecular spectroscopies, mass spectrometry and chromatographic methods.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- CHEM3000 - Quantitative Analysis (QI)
- CHEM3060 - Physical Chemistry I (QI)
- CHEM3070 - Physical Chemistry II (QI)

(CHEM 3070 may be taken concurrently)

CHEM5650 - Instrumental Analysis Laboratory - 2 - Credits

Course Overview

Course Prefix
CHEM

Course Number
5650

Department
Chemistry & Biochemistry

Course Title
Instrumental Analysis Laboratory

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This laboratory course is to accompany CHEM 5640. Students participate in two three-hour labs per week.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- CHEM3005 - Quantitative Analysis Laboratory
- CHEM3070 - Physical Chemistry II (QI)
- CHEM3090 - Physical Chemistry Laboratory (CI)

(CHEM 3070 and CHEM 3090 may be taken concurrently)

CHEM5670 - Intermediate Environmental Chemistry - 3 - Credits

Course Overview

Course Prefix
CHEM

Course Number
5670

Department
Chemistry & Biochemistry

Dual-Listed Courses
CHEM6670 - Intermediate Environmental Chemistry

Course Title
Intermediate Environmental Chemistry

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Survey of chemical processes and pollutants in the environment. Sampling and analysis of pollutants to determine chemical fate. Additional course work is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Other Enrollment Recommendations

CHEM3070 PHYSICAL CHEMISTRY II (QI)

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- CHEM3000 - Quantitative Analysis (QI)
- CHEM3005 - Quantitative Analysis Laboratory

CHEM5680 - Environmental Chemistry Laboratory - 2 - Credits

Course Overview

Course Prefix
CHEM

Course Number
5680

Department
Chemistry & Biochemistry

Course Title
Environmental Chemistry Laboratory

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Laboratory course to accompany CHEM 5670. Field sampling and laboratory analysis of air, water, and soil samples. Method building and hypothesis testing.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- CHEM3000 - Quantitative Analysis (QI)
- CHEM3005 - Quantitative Analysis Laboratory

Corequisite

Type
Corequisite

Required

Enroll in the following Courses:

- CHEM5670 - Intermediate Environmental Chemistry

CHEM5700 - General Biochemistry I - 3 - Credits

Course Overview

Course Prefix
CHEM

Course Number
5700

Department
Chemistry & Biochemistry

Course Title
General Biochemistry I

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This is general biochemistry for science majors, including proteins, enzymes, catalysis, bioenergetics, and catabolic metabolism.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Earn a minimum grade of C- in the following:

- CHEM2320 - Organic Chemistry II

CHEM5710 - General Biochemistry II - 3 - Credits

Course Overview

Course Prefix
CHEM

Course Number
5710

Department
Chemistry & Biochemistry

Course Title
General Biochemistry II

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This is a continuation of CHEM 5700. It consists of general biochemistry for science majors, including anabolic metabolism, DNA, RNA, and protein synthesis.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Earn a minimum grade of C- in the following:

- CHEM5700 - General Biochemistry I

CHEM5715 - General Biochemistry Laboratory I - 1 - Credits

Course Overview

Course Prefix
CHEM

Course Number
5715

Department
Chemistry & Biochemistry

Course Title
General Biochemistry Laboratory I

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This first course in a laboratory series provides hands-on experience with techniques, concepts, and approaches common to biochemistry research. This course involves lecture and laboratory experience, directed reading, designing and performing experiments, data analysis, and completing laboratory reports.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- CHEM5700 - General Biochemistry I

(may be taken concurrently)

Course Learning Objectives

Course Learning Outcomes

1. Gaining a basic understanding of standard molecular biology techniques typically used in biochemistry labs (e.g., factual knowledge, principles, generalizations, theories).

2. Learning to apply course material in a "real-life' research setting (to improve thinking, problem-solving, and decisions).

3. Developing specific skills, competencies, and points of view needed by professionals in the field most closely related to this course.

4. Acquiring skills in working with others as a member of a team.

CHEM5720 - General Biochemistry Laboratory II (CI) - 2 - Credits

Course Overview

Course Prefix
CHEM

Course Number
5720

Department
Chemistry & Biochemistry

Course Title
General Biochemistry Laboratory II (CI)

General Education Attribute
CI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description

This second course in a laboratory series provides hands-on experience with techniques, concepts, and approaches common to biochemistry research. This course involves lecture and laboratory experience, directed reading, designing and performing experiments, data analysis, and completing laboratory reports.

Credit Hours

Credit Hours Min:
2

Contact Hours

Contact Hours Min:
2

Billing Hours

Billing Hours Min:
2

Lecture Hours

Lecture Hours Min:
2

Simple Requisites

Required

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ENGL2010 - Research and Argument Across Perspectives (CL2)
- CHEM5710 - General Biochemistry II

(CHEM 5710 may be taken concurrently)

Required

Earn a minimum grade of C- in the following:

- CHEM5715 - General Biochemistry Laboratory I

CHEM5790 - Protein Structure/Function and Purification - 3 - Credits

Course Overview

Course Prefix
CHEM

Course Number
5790

Department
Chemistry & Biochemistry

Cross-Listed Courses
BENG5790 - Protein Structure/Function and Purification, BIOL5790 - Protein Structure/Function and Purification

Dual-Listed Courses
CHEM6790 - Protein Structure/Function and Purification

Course Title
Protein Structure/Function and Purification

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Protein biosynthesis, modification, folding, structure, and stability, protein purification and protein analysis will be discussed. Students will develop an original research proposal through oral and written presentations. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Admission to the Biology, Biochemistry or Biological Engineering program

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ANY of the following Courses:

- BIOL3300 - General Microbiology
  OR CHEM3700 - Introductory Biochemistry

CHEM6010 - Quantum Chemistry - 3 - Credits

Course Overview

Course Prefix
CHEM

Course Number
6010

Department
Chemistry & Biochemistry

Course Title
Quantum Chemistry

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Quantum mechanics applied to chemical problems. Theory of atoms and molecules.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Untitled Requirement

Type
Prerequisite

Required

Complete ALL of the following Courses:

- CHEM3070 - Physical Chemistry II (QI)
- MATH2250 - Linear Algebra and Differential Equations (QI)

CHEM6020 - Molecular Spectroscopy - 3 - Credits

Course Overview

Course Prefix
CHEM

Course Number
6020

Department
Chemistry & Biochemistry

Course Title
Molecular Spectroscopy

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Spectroscopy of atoms and molecules.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- CHEM6010 - Quantum Chemistry

CHEM6250 - Curricular Practical Training - 1 - 6 Credits

Course Overview

Course Prefix
CHEM

Course Number
6250

Department
Chemistry & Biochemistry

Course Title
Curricular Practical Training

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
Work experience tied to academics, in the graduate student's major field of study, either chemistry or biochemistry, for which the student is paid.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
6

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
6

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
6

Lecture Hours Operator:
TO

Special Approval

Department Head permission prior to enrollment

No Requirements

CHEM6300 - Advanced Modern Organic Chemistry - 3 - Credits

Course Overview

Course Prefix
CHEM

Course Number
6300

Department
Chemistry & Biochemistry

Course Title
Advanced Modern Organic Chemistry

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers reaction mechanisms in organic chemistry and the methods used to identify and characterize them.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- CHEM2320 - Organic Chemistry II
- CHEM3060 - Physical Chemistry I (QI)

CHEM6500 - Reactivity and Mechanisms in Inorganic Chemistry - 3 - Credits

Course Overview

Course Prefix
CHEM

Course Number
6500

Department
Chemistry & Biochemistry

Course Title
Reactivity and Mechanisms in Inorganic Chemistry

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Inorganic reactions and mechanisms relevant to areas of main group, transition metals, and bioinorganic and organometallic chemistry.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Required

Type
Prerequisite

Required

Complete ALL of the following Courses:

- CHEM5520 - Advanced Inorganic Chemistry

CHEM6510 - Chemical Applications of Group Theory - 1 - Credits

Course Overview

Course Prefix
CHEM

Course Number
6510

Department
Chemistry & Biochemistry

Course Title
Chemical Applications of Group Theory

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Introduction to symmetry point groups and theorems of group theory for application to structure, bonding, and spectroscopy. Some familiarity with linear algebra is recommended.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- CHEM3070 - Physical Chemistry II (QI)

CHEM6600 - Modern Chemical Analysis - 3 - Credits

Course Overview

Course Prefix
CHEM

Course Number
6600

Department
Chemistry & Biochemistry

Course Title
Modern Chemical Analysis

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Methodology and statistical treatment of chemical data, experimental design, quality control, and chemical separations.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- CHEM5640 - Instrumental Analysis

CHEM6670 - Intermediate Environmental Chemistry - 3 - Credits

Course Overview

Course Prefix
CHEM

Course Number
6670

Department
Chemistry & Biochemistry

Dual-Listed Courses
CHEM5670 - Intermediate Environmental Chemistry

Course Title
Intermediate Environmental Chemistry

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course is a survey of chemical processes and pollutants in the environment. Sampling and analysis of pollutants to determine chemical fate. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Other Enrollment Recommendations
CHEM3070 PHYSICAL CHEMISTRY II (QI).

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- CHEM3000 - Quantitative Analysis (QI)
- CHEM3005 - Quantitative Analysis Laboratory

CHEM6700 - Advanced Biochemistry I - 1 - 3 Credits

Course Overview

Course Prefix
CHEM

Course Number
6700

Department
Chemistry & Biochemistry

Course Title
Advanced Biochemistry I

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Advanced-level biochemistry course intended for biochemistry MS and PhD students. Covers proteins, enzyme mechanism, nucleic acid structure and function, and catabolic metabolism at a level appropriate for students preparing for the qualifying examination. This course (which is co-instructed with CHEM 5700, with additional projects for CHEM 6700) cannot be taken for credit by students who have previously taken CHEM 5700 for credit.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

No Requirements

CHEM6710 - Advanced Biochemistry II - 3 - Credits

Course Overview

Course Prefix
CHEM

Course Number
6710

Department
Chemistry & Biochemistry

Course Title
Advanced Biochemistry II

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Advanced-level biochemistry course intended for biochemistry MS and PhD students. Covers anabolic metabolism and bioinformation processes at a level appropriate for students preparing for the qualifying examination. This course (which is co-instructed with CHEM 5710, with additional projects for CHEM 6710) cannot be taken for credit by students who have previously taken CHEM 5710 for credit.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

CHEM6720 - Principles of Enzymology I - 1 - Credits

Course Overview

Course Prefix
CHEM

Course Number
6720

Department
Chemistry & Biochemistry

Course Title
Principles of Enzymology I

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Enzyme kinetics, principles of enzymatic rate acceleration, methods to study enzymatic mechanisms and identify reaction intermediates.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Simple Requisites

Prerequisite

Type
Prerequisite

Require

Complete ALL of the following Courses:

- CHEM5700 - General Biochemistry I

CHEM6730 - Principles of Enzymology II - 2 - Credits

Course Overview

Course Prefix
CHEM

Course Number
6730

Department
Chemistry & Biochemistry

Course Title
Principles of Enzymology II

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Enzymatic mechanisms and strategies for carbon-carbon and carbon-hydrogen bond cleaving and forming reactions, phosphoryl group transfer, stereochemical analysis and outcomes of enzymatic reactions, mechanistic roles of organic and metallic coenzymes.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- CHEM6720 - Principles of Enzymology I

(may be taken concurrently)

CHEM6740 - Cellular Communication by Small Molecules and Proteins - 1 - Credits

Course Overview

Course Prefix
CHEM

Course Number
6740

Department
Chemistry & Biochemistry

Cross-Listed Courses
BIOL6740 - Cellular Communication by Small Molecules and Proteins

Course Title
Cellular Communication by Small Molecules and Proteins

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers the use of post-translational modifications, small molecules, and protein motifs in cellular communication. It also covers variances in the communication systems related to disease state and/or cell stress and therapeutic strategies to manipulate the communication systems.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Earn a minimum grade of B- in the following:

- CHEM5700 - General Biochemistry I

CHEM6750 - Principles of Structural Biology - 1 - Credits

Course Overview

Course Prefix
CHEM

Course Number
6750

Department
Chemistry & Biochemistry

Course Title
Principles of Structural Biology

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
General principles of protein and nucleic acid structure. Approaches to understanding biological function through structural analysis.

Credit Hours

Credit Hours Min:
1

Contact Hours

Contact Hours Min:
1

Billing Hours

Billing Hours Min:
1

Lecture Hours

Lecture Hours Min:
1

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- CHEM5700 - General Biochemistry I

CHEM6760 - Principles of Bioenergetics - 1 - 3 Credits

Course Overview

Course Prefix
CHEM

Course Number
6760

Department
Chemistry & Biochemistry

Course Title
Principles of Bioenergetics

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Global biological energy cycles including carbon, nitrogen, and sulfur cycles; respiration; electron transfer; and energy transduction.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ANY of the following Courses:

- CHEM5700 - General Biochemistry I

OR CHEM6700 - Advanced Biochemistry I

CHEM6770 - Biochemical Methods - 1 - Credits

Course Overview

Course Prefix
CHEM

Course Number
6770

Department
Chemistry & Biochemistry

Course Title
Biochemical Methods

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Chemistry 6770 is a graduate-level course covering the theory and application of biochemical and biophysical methods.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ANY of the following Courses:

- CHEM5700 - General Biochemistry I
  OR CHEM6700 - Advanced Biochemistry I

CHEM6780 - Biochemical Basis of Gene Expression: Nucleic Acid Protein Interactions - 1 - Credits

Course Overview

Course Prefix
CHEM

Course Number
6780

Department
Chemistry & Biochemistry

Course Title

Biochemical Basis of Gene Expression: Nucleic Acid Protein Interactions

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students study nucleic acid structure and function in both prokaryotic and eukaryotic systems. They learn the general mechanisms proteins use to recognize nucleic acid sequence, and methods for probing nucleic acid structure and function and analyzing protein-nucleic acid interactions.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- CHEM5700 - General Biochemistry I
- CHEM5710 - General Biochemistry II

CHEM6790 - Protein Structure/Function and Purification - 3 - Credits

Course Overview

Course Prefix
CHEM

Course Number
6790

Department
Chemistry & Biochemistry

Cross-Listed Courses
BENG6790 - Protein Structure/Function and Purfication, BIOL6790 - Protein Structure/Function and Purification

Dual-Listed Courses
CHEM5790 - Protein Structure/Function and Purification

Course Title
Protein Structure/Function and Purification

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Protein biosynthesis, modification, folding, structure, and stability, protein purification and protein analysis are discussed. Students develop an original research proposal through oral and written presentations. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Registration Restrictions
Admission to the Biology, Biochemistry or Biological Engineering program

Other Enrollment Recommendations
BIOL3300 GENERAL MICROBIOLOGY; ***or*** CHEM3700 INTRO BIOCHEMISTRY; ***or*** CHEM5700 GENERAL BIOCHEMISTRY I

CHEM6910 - Special Problems in Chemistry and Biochemistry - 1 - 4 Credits

Course Overview

Course Prefix
CHEM

Course Number
6910

Department
Chemistry & Biochemistry

Course Title
Special Problems in Chemistry and Biochemistry

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Selected problems in chemistry and biochemistry.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
4

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
4

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
4

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
4

Lecture Hours Operator:
TO

Special Approval
Written permission from department head

No Requirements

CHEM6970 - Thesis Research - 1 - 10 Credits

Course Overview

Course Prefix
CHEM

Course Number
6970

Department
Chemistry & Biochemistry

Course Title
Thesis Research

Grade Mode
Temporary Pass/Fail

Repeat Status
RP

Course Description
Research for MS degree.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
10

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
10

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
10

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
10

Lecture Hours Operator:
TO

No Requirements

CHEM6990 - Continuing Graduate Advisement - 1 - 9 Credits

Course Overview

Course Prefix
CHEM

Course Number
6990

Department
Chemistry & Biochemistry

Course Title
Continuing Graduate Advisement

Grade Mode
Temporary Pass/Fail

Repeat Status
RP

Course Description
This course provides graduate students with continued advisement. It is usually taken following completion of all coursework required for the degree.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
9

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
9

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
9

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
9

Lecture Hours Operator:
TO

No Requirements

CHEM7020 - Statistical Mechanics - 3 - Credits

Course Overview

Course Prefix
CHEM

Course Number
7020

Department
Chemistry & Biochemistry

Course Title
Statistical Mechanics

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Statistical mechanics with applications to research problems of current interest.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- CHEM6010 - Quantum Chemistry

CHEM7030 - Special Topics in Physical Chemistry (Topic) - 1 - 3 Credits

Course Overview

Course Prefix
CHEM

Course Number
7030

Department
Chemistry & Biochemistry

Course Title
Special Topics in Physical Chemistry (Topic)

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Covers special areas of current interest and activity in physical chemistry.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

No Requirements

CHEM7300 - Reactions and Synthesis in Modern Organic Chemistry - 3 - Credits

Course Overview

Course Prefix
CHEM

Course Number
7300

Department
Chemistry & Biochemistry

Course Title
Reactions and Synthesis in Modern Organic Chemistry

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Reactions of modern organic chemistry and their application to organic synthesis.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- CHEM6300 - Advanced Modern Organic Chemistry

CHEM7310 - Molecular Structure/ Spectroscopy of Organic Compounds - 3 - Credits

Course Overview

Course Prefix
CHEM

Course Number
7310

Department
Chemistry & Biochemistry

Course Title
Molecular Structure/Spectroscopy of Organic Compounds

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Modern methods of predicting and determining molecular structure of organic compounds using advanced computational and spectroscopic tools.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- CHEM6300 - Advanced Modern Organic Chemistry

CHEM7330 - Special Topics in Organic Chemistry (Topic) - 1 - 3 Credits

Course Overview

Course Prefix
CHEM

Course Number
7330

Department
Chemistry & Biochemistry

Course Title
Special Topics in Organic Chemistry (Topic)

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Covers special areas of current interest and activity in organic chemistry.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- CHEM6300 - Advanced Modern Organic Chemistry

CHEM7500 - Coordination Chemistry - 3 - Credits

Course Overview

Course Prefix
CHEM

Course Number
7500

Department
Chemistry & Biochemistry

Course Title
Coordination Chemistry

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Theory and spectroscopy of transition metal coordination complexes.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- CHEM3070 - Physical Chemistry II (QI)
- CHEM6500 - Reactivity and Mechanisms in Inorganic Chemistry
- CHEM6510 - Chemical Applications of Group Theory

CHEM7510 - Bioinorganic Chemistry - 1 - 3 Credits

Course Overview

Course Prefix
CHEM

Course Number
7510

Department
Chemistry & Biochemistry

Course Title
Bioinorganic Chemistry

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Advanced systematic study of metallobiochemical structure and function.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- CHEM6500 - Reactivity and Mechanisms in Inorganic Chemistry

CHEM7530 - Special Topics in Inorganic Chemistry (Topic) - 1 - 3 Credits

Course Overview

Course Prefix
CHEM

Course Number
7530

Department
Chemistry & Biochemistry

Course Title
Special Topics in Inorganic Chemistry (Topic)

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Students study topics of current interest in inorganic chemistry.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- CHEM6500 - Reactivity and Mechanisms in Inorganic Chemistry

CHEM7600 - Analytical Spectroscopy - 3 - Credits

Course Overview

Course Prefix
CHEM

Course Number
7600

Department
Chemistry & Biochemistry

Course Title
Analytical Spectroscopy

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Practical description of spectroscopy-based analysis, emphasizing instrumentation and methods.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- CHEM5640 - Instrumental Analysis

CHEM7610 - Chemical Separations - 3 - Credits

Course Overview

Course Prefix
CHEM

Course Number
7610

Department
Chemistry & Biochemistry

Course Title
Chemical Separations

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Survey of theory and practice of modern chemical separations, including extractions, chromatography, distillation, and phase separations.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- CHEM5640 - Instrumental Analysis

CHEM7620 - Electrochemistry - 3 - Credits

Course Overview

Course Prefix
CHEM

Course Number
7620

Department
Chemistry & Biochemistry

Course Title
Electrochemistry

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Survey of electrochemistry with emphasis on electrochemical analysis.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- CHEM5640 - Instrumental Analysis

CHEM7640 - Special Topics in Analytical Chemistry (Topic) - 1 - 3 Credits

Course Overview

Course Prefix
CHEM

Course Number
7640

Department
Chemistry & Biochemistry

Course Title
Special Topics in Analytical Chemistry (Topic)

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Students study topics of current interest in analytical chemistry.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- CHEM5640 - Instrumental Analysis

CHEM7770 - Special Topics in Biochemistry (Topic) - 1 - 3 Credits

Course Overview

Course Prefix
CHEM

Course Number
7770

Department
Chemistry & Biochemistry

Course Title
Special Topics in Biochemistry (Topic)

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Topics of current interest in biochemistry.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

No Requirements

CHEM7800 - Seminar - 1 - Credits

Course Overview

Course Prefix
CHEM

Course Number
7800

Department
Chemistry & Biochemistry

Course Title
Seminar

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
Graduate seminar.

Credit Hours

Credit Hours Min:
1

Contact Hours

Contact Hours Min:
1

Billing Hours

Billing Hours Min:
1

Lecture Hours

Lecture Hours Min:
1

No Requirements

CHEM7970 - PhD Dissertation Research - 1 - 12 Credits

Course Overview

Course Prefix
CHEM

Course Number
7970

Department
Chemistry & Biochemistry

Course Title
PhD Dissertation Research

Grade Mode
Temporary Pass/Fail

Repeat Status
RP

Course Description
This course allows students to pursue research toward the Ph.D. degree.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
12

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
12

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
12

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
12

Lecture Hours Operator:
TO

No Requirements

CHEM7990 - Continuing Graduate Advisement - 1 - 9 Credits

Course Overview

Course Prefix
CHEM

Course Number
7990

Department
Chemistry & Biochemistry

Course Title
Continuing Graduate Advisement

Grade Mode
Temporary Pass/Fail

Repeat Status
RP

Course Description
This course provides graduate students with continued advisement. It is usually taken following completion of all coursework required for the degree.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
9

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
9

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
9

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
9

Lecture Hours Operator:
TO

No Requirements

CHIN1010 - Chinese First Year I - 4 - Credits

Course Overview

Course Prefix
CHIN

Course Number
1010

Department
World Languages and Cultures

Course Title
Chinese First Year I

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course teaches communicative competencies in the four language skills: speaking, listening, reading, and writing with exposure to cultures and customs. This course is only for students with no previous background in the Chinese language.

Credit Hours

Credit Hours
Min:
4

Contact Hours

Contact Hours
Min:
4

Billing Hours

Billing Hours
Min:
4

Lecture Hours

Lecture Hours
Min:
4

CHIN1020 - Chinese First Year II - 4 - Credits

Course Overview

Course Prefix
CHIN

Course Number
1020

Department
World Languages and Cultures

Course Title
Chinese First Year II

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course teaches communicative competencies in the four language skills: speaking, listening, reading, and writing with exposure to cultures and customs. Native speaker instructor.

Credit Hours

Credit Hours
Min:
4

Contact Hours

Contact Hours
Min:
4

Billing Hours

Billing Hours
Min:
4

Lecture Hours

Lecture Hours
Min:
4

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- CHIN1010 - Chinese First Year I

CHIN1080 - Intensive Chinese Reading and Writing - 3 - Credits

Course Overview

Course Prefix
CHIN

Course Number
1080

Department
World Languages and Cultures

Course Title
Intensive Chinese Reading and Writing

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course is designed to fine tune and strengthen reading and writing skills for students studying Chinese. Students at varying levels of experience can benefit from this intensive review.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequiste

Type
Prerequisite

Required

Complete ALL of the following Courses:

- CHIN1010 - Chinese First Year I

CHIN1800 - Chinese I Study Abroad - 1 - 5 Credits

Course Overview

Course Prefix
CHIN

Course Number
1800

Department
World Languages and Cultures

Course Title
Chinese I Study Abroad

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Intensive study in a Chinese-speaking country, advancing proficiency in the four language skills and multicultural knowledge at the beginning level.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
5

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
5

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
5

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
5

Lecture Hours Operator:
TO

No Requirements

CHIN2010 - Chinese Second Year I - 4 - Credits

Course Overview

Course Prefix
CHIN

Course Number
2010

Department
World Languages and Cultures

Course Title
Chinese Second Year I

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This is a second-year overview of speaking, listening, reading, and writing with exposure to cultures and customs. The instructor is a native speaker.

Credit Hours

Credit Hours
Min:
4

Contact Hours

Contact Hours
Min:
4

Billing Hours

Billing Hours
Min:
4

Lecture Hours

Lecture Hours
Min:
4

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- CHIN1020 - Chinese First Year II

(or equivalent)

CHIN2020 - Chinese Second Year II - 4 - Credits

Course Overview

Course Prefix
CHIN

Course Number
2020

Department
World Languages and Cultures

Course Title
Chinese Second Year II

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This is a second-year overview of speaking, listening, reading, and writing with exposure to cultures and customs. The instructor is a native speaker.

Credit Hours

Credit Hours
Min:
4

Contact Hours

Contact Hours
Min:
4

Billing Hours

Billing Hours
Min:
4

Lecture Hours

Lecture Hours
Min:
4

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- CHIN2010 - Chinese Second Year I

(or equivalent)

CHIN2050 - Chinese Conversation - 3 - Credits

Course Overview

Course Prefix
CHIN

Course Number
2050

Department
World Languages and Cultures

Course Title
Chinese Conversation

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers the development of advanced verbal communication skills. It is designed to increase vocabulary and to teach students how to express and justify facts, opinions and emotions in Chinese. It is designed for non-native speaking students.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- CHIN2010 - Chinese Second Year I

CHIN2800 - Chinese II Study Abroad - 1 - 5 Credits

Course Overview

Course Prefix
CHIN

Course Number
2800

Department
World Languages and Cultures

Course Title
Chinese II Study Abroad

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Intensive study in a Chinese-speaking country, advancing proficiency in the four language skills and multicultural knowledge at the second-year level.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
5

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
5

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
5

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
5

Lecture Hours Operator:
TO

No Requirements

CHIN3000 - Chinese Conversation - 3 - Credits

Course Overview

Course Prefix
CHIN

Course Number
3000

Department
World Languages and Cultures

Course Title
Chinese Conversation

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
The course aims to enhance verbal communication abilities, expand vocabulary, and equip students with the skills to articulate and defend facts, opinions, and ideas.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Fulfilled by the following:

- AP Chinese Language and Culture exam with a minimum score of 3

CHIN3010 - Chinese Third Year I - 4 - Credits

Course Overview

Course Prefix
CHIN

Course Number
3010

Department
World Languages and Cultures

Course Title
Chinese Third Year I

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
First segment of the third-year overview of speaking, listening, reading, and writing, with additional exposure to cultures and customs. Readings include excerpts from televised drama.

Credit Hours

Credit Hours
Min:
4

Contact Hours

Contact Hours
Min:
4

Billing Hours

Billing Hours
Min:
4

Lecture Hours

Lecture Hours
Min:
4

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- CHIN2020 - Chinese Second Year II

(or equivalent proficiency testing score of 500+)

Course Learning Objectives

Course Learning Outcomes
1. In this course, students will enhance their verbal communication abilities, expand vocabulary, and equip students with the skills to articulate and defend facts, opinions, and ideas.

CHIN3020 - Chinese Third Year II - 4 - Credits

Course Overview

Course Prefix
CHIN

Course Number
3020

Department
World Languages and Cultures

Course Title
Chinese Third Year II

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Second segment of the third-year overview of speaking, listening, reading, and writing, with additional exposure to cultures and customs. Readings include short essays, Chinese proverbs and folktales, and other literary selections.

Credit Hours

Credit Hours
Min:
4

Contact Hours

Contact Hours
Min:
4

Billing Hours

Billing Hours
Min:
4

Lecture Hours

Lecture Hours
Min:
4

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- CHIN2020 - Chinese Second Year II

CHIN3060 - Chinese Grammar and Composition - 3 - Credits

Course Overview

Course Prefix
CHIN

Course Number
3060

Department
World Languages and Cultures

Course Title
Chinese Grammar and Composition

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students review major grammatical elements in Chinese, read short works of different writing styles from modern Chinese literature, and write on various topics.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Any of the following requirements

Type
Prerequisite

Required

Complete ALL of the following Courses:

- CHIN2020 - Chinese Second Year II

(or equivalent proficiency testing score of 500+)

CHIN3080 - Chinese Outreach Practicum - 1 - 3 Credits

Course Overview

Course Prefix
CHIN

Course Number
3080

Department
World Languages and Cultures

Course Title
Chinese Outreach Practicum

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course provides students of Chinese at the intermediate and advanced levels with the opportunity to apply Chinese language skills in a Chinese community setting. Students will perform service that requires their language skills.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

Registration Restrictions

Instructor permission

No Requirements

CHIN3090 - Introduction to Modern Chinese Literature and Film - 3 - Credits

Course Overview

Course Prefix
CHIN

Course Number
3090

Department
World Languages and Cultures

Course Title
Introduction to Modern Chinese Literature and Film

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students read selected texts by famous modern and contemporary Chinese authors, including short stories, poems, plays, and selections from novels. The primary texts are Chinese, accompanied by films adapted from these texts or reflecting related themes.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- CHIN3090 - Introduction to Modern Chinese Literature and Film

(or equivalent proficiency testing score of 500+)

CHIN3100 - Readings in Contemporary Chinese Culture (DHA) - 3 - Credits

Course Overview

Course Prefix
CHIN

Course Number
3100

Department
World Languages and Cultures

Course Title
Readings in Contemporary Chinese Culture (DHA)

General Education Attribute
DHA

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides an introduction to contemporary Chinese culture through readings from newspapers and other source materials.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- CHIN2020 - Chinese Second Year II

(or equivalent proficiency testing score of 500+)

CHIN3116 - Exploring China - Past, Present and You - 3 - Credits

Course Overview

Course Prefix
CHIN

Course Number
3116

Department
World Languages and Cultures

Course Title
Exploring China - Past, Present and You

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course explores Chinese history and traditional cultural values, and connects their influences on the modern Chinese-speaking world. Students utilize knowledge and language skills learned from the class to understand and discuss both ancient and modern Chinese culture and society.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Prerequisite fulfilled by the following:

- AP Chinese Language and Culture exam with a score of 3 or higher

CHIN3117 - Chinese Legacies - Tradition and Modernity - 3 - Credits

Course Overview

Course Prefix
CHIN

Course Number
3117

Department
World Languages and Cultures

Course Title
Chinese Legacies - Tradition and Modernity

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course explores the impact of traditional Chinese legacy on the formation and transformation of modern Chinese cultural identity. Students practice using Chinese in a variety of settings as they apply course knowledge.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Prerequisite fulfilled by the following:

- AP Chinese Language and Culture Exam with a score of 3 or higher

CHIN3118 - Chinese Popular Culture - 3 - Credits

Course Overview

Course Prefix
CHIN

Course Number
3118

Department
World Languages and Cultures

Course Title
Chinese Popular Culture

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course considers the role that current film, media, and entertainment play in the Chinese-speaking world. Students in this course are exposed to the historical and cultural perspectives presented through these media.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerquisite

Type
Prerequisite

Required

Prerequisite fulfilled by the following:

- AP Chinese Language and Culture exam with a score of 3 or higher

CHIN3510 - Chinese Business Presentations - 3 - Credits

Course Overview

Course Prefix
CHIN

Course Number
3510

Department
World Languages and Cultures

Course Title
Chinese Business Presentations

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course is designed to develop students' Chinese language skills and cultural competencies as they relate to a business environment. It focuses on creating a variety of business presentations in Chinese and how to write a business proposal in Chinese.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Any of the following requirements

Type
Prerequisite

Required

Complete ALL of the following Courses:
- CHIN2020 - Chinese Second Year II

(or equivalent proficiency testing score of 500+)

CHIN3520 - Chinese Business Strategies - 3 - Credits

Course Overview

Course Prefix
CHIN

Course Number
3520

Department
World Languages and Cultures

Course Title
Chinese Business Strategies

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students learn the concept of face, Chinese vs. western business letters, Chinese face-saving strategies, and Chinese business behavior analysis.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ANY of the following Courses:
- CHIN2020 - Chinese Second Year II

OR equivalent proficiency testing score of 500+

CHIN3540 - Translating into and from Chinese (CI) - 3 - Credits

Course Overview

Course Prefix
CHIN

Course Number
3540

Department
World Languages and Cultures

Course Title
Translating into and from Chinese (CI)

General Education Attribute
CI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces students to translation concepts and strategies. Students are exposed to different translation tools and become acquainted with the cultural knowledge and ethical principles relevant to both oral and written translation.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- CHIN2020 - Chinese Second Year II

(or equivalent proficiency testing score of 500+)

CHIN3600 - Contemporary Children's Literature in Chinese - 3 - Credits

Course Overview

Course Prefix
CHIN

Course Number
3600

Department
World Languages and Cultures

Course Title
Contemporary Children's Literature in Chinese

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces students to contemporary children's literature in China, Taiwan, Hong Kong, and other Sinophone communities. Students enhance their reading and writing in Chinese through analysis of the literary, aesthetic, sociopolitical and cultural issues in children's literature.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- CHIN3010 - Chinese Third Year I

CHIN3800 - Chinese III Study Abroad - 1 - 4 Credits

Course Overview

Course Prefix
CHIN

Course Number
3800

Department
World Languages and Cultures

Course Title
Chinese III Study Abroad

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Intensive study in a Chinese-speaking country, advancing proficiency in the four language skills and multicultural knowledge at the third-year level.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
4

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
4

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
4

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
4

Lecture Hours Operator:
TO

No Requirements

CHIN3880 - Individual Readings in Chinese - 1 - 4 Credits

Course Overview

Course Prefix
CHIN

Course Number
3880

Department
World Languages and Cultures

Course Title
Individual Readings in Chinese

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Individual study of selected readings in Chinese. Designed to broaden student's reading comprehension beyond the level addressed in CHIN 3020.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
4

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
4

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
4

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
4

Lecture Hours Operator:
TO

Special Approval

Instructor permission

No Requirements

CHIN3900 - Topics in Chinese Studies - 3 - Credits

Course Overview

Course Prefix
CHIN

Course Number
3900

Department
World Languages and Cultures

Course Title

Topics in Chinese Studies

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course provides an in-depth exploration of issues central to understanding language, literature, and culture as they pertain to Chinese-speaking communities. Topics vary by semester and instructor.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- CHIN2020 - Chinese Second Year II

(or equivalent proficiency testing score of 500+)

CHIN4010 - Chinese Multimedia - 3 - Credits

Course Overview

Course Prefix
CHIN

Course Number
4010

Department
World Languages and Cultures

Course Title
Chinese Multimedia

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students learn about recent social, economic, and cultural changes in China through authentic television news reports and newspapers.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ANY of the following Courses:

- CHIN2020 - Chinese Second Year II

OR equivalent proficiency testing score of 500+

CHIN4030 - Love and Death in Chinese Film - 3 - Credits

Course Overview

Course Prefix
CHIN

Course Number
4030

Department
World Languages and Cultures

Course Title
Love and Death in Chinese Film

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course delves into the powerful themes of love and death in Chinese/ Sinophone cinema. By analyzing iconic films, students examine how these cinematic portrayals reflect the socio-political contexts and gain insights into the interplay between aesthetics, politics, and culture.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- CHIN2020 - Chinese Second Year II

Course Learning Objectives

Course Learning Outcomes

1. Developing knowledge and understanding of diverse perspectives, global awareness, or other cultures.

2. Gaining a broader understanding and appreciation of intellectual/cultural activity.

3. Learning to analyze and critically evaluate ideas, arguments, and points of view.

CHIN4050 - Chinese Media Topics - 3 - Credits

Course Overview

Course Prefix
CHIN

Course Number
4050

Department
World Languages and Cultures

Course Title
Chinese Media Topics

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Students examine contemporary Chinese language media through films, documentaries, news, and digital platforms. Taught in Chinese, the course explores media policy, production, and circulation while fostering critical analysis of cultural, social, and political issues in China, Taiwan, and Hong Kong.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- CHIN2020 - Chinese Second Year II

Course Learning Objectives

Course Learning Outcomes

1. Be able to analyze contemporary Chinese language media across formats (film, documentary, news, and digital media) within their social, cultural, and political contexts.
2. Be able to apply concepts, terms, and theoretical approaches from visual culture, sociology, and communication studies to critically evaluate media representations and arguments.
3. Demonstrate global awareness and an understanding of different global perspectives through Chinese media analysis.
4. Develop effective communication skills in Chinese through discussion, debate, and analytical writing.

CHIN4070 - Advanced Chinese Reading - 3 - Credits

Course Overview

Course Prefix
CHIN

Course Number
4070

Department
World Languages and Cultures

Course Title
Advanced Chinese Reading

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course develops advanced reading skills and vocabulary through contemporary Chinese language texts and films. Students build competence in reading, as well as speaking, listening, and writing through high-level discussions of texts, current events, politics, economics, education, and cultures.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- CHIN2020 - Chinese Second Year II

Course Learning Objectives

Course Learning Outcomes
1. Develop advanced vocabulary and discourse through authentic materials drawn from contemporary films and related texts.
2. Demonstrate comprehension of advanced-level Chinese language readings and dialogue .
3. Be able to express and discuss different informed opinions in the target language on current events and issues related to Chinese society, politics, economics, education, and cultures.
4. Communicate effectively in Chinese using language grounded in authentic textual and cinematic contexts.
5. Continue developing global awareness and deeper understanding of different cultural perspectives.

CHIN4080 - Expressive Chinese Communication Skills - 3 - Credits

Course Overview

Course Prefix
CHIN

Course Number
4080

Department
World Languages and Cultures

Course Title
Expressive Chinese Communication Skills

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students with advanced Chinese proficiency further refine pronunciation, vocabulary, grammatical accuracy, and lexical usage. Further development of oral communication, written expression, linguistic precision, and advanced literacy skills, through engagement with authentic, real-world topics and reading and writing tasks.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- CHIN3060 - Chinese Grammar and Composition

Course Learning Objectives

Course Learning Outcomes

1. Students will systematically expand their vocabulary, internalize complex grammatical structures in Chinese.
2. Students will develop an understanding of distinctive language features, such as the principles guiding shifts between informal and formal registers in Chinese.
3. Students will be able to develop coherent, detailed, and stylistically appropriate narratives, thereby enhancing students' narrative and descriptive competencies in both spoken and written Chinese.
4. At the end of the course, students will be “advanced-low level” speakers as described in the ACTFL Proficiency Guidelines, including the capability to handle a variety of communicative tasks, handle concrete exchanges and discussions on a range of concrete topics, and be fully understood by a native speaker; and to be able to competently narrate and describe in past, present, and future with organized, extensive detail.
5. Students will develop knowledge and understanding of diverse perspectives, global awareness, or other cultures (e.g., Chinese).
6. Students will develop skill in expressing themselves orally or in (Chinese) writing.
7. Students will learn to analyze and critically evaluate ideas, arguments, and points of view and express themselves in Chinese.

CHIN4090 - Readings in Masterworks of Classical Chinese Fiction - 3 - Credits

Course Overview

Course Prefix
CHIN

Course Number
4090

Department
World Languages and Cultures

Course Title
Readings in Masterworks of Classical Chinese Fiction

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students explore traditional Chinese vernacular fiction that examines the seminal features of traditional society, including such things as religious and philosophical beliefs, the imperial system and dynastic change, gender relations, notions of class, ethnicity, virtue, kinship, family, and romance.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

CHIN4100 - Teaching Chinese as a Foreign Language - 3 - Credits

Course Overview

Course Prefix
CHIN

Course Number
4100

Department
World Languages and Cultures

Dual-Listed Courses
CHIN6100 - Teaching Chinese as a Foreign Language

Course Title
Teaching Chinese as a Foreign Language

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This is a methods course for prospective Chinese language teachers. It explores effective teaching techniques for the language classroom and focuses on meaningful individual and group projects. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- CHIN3010 - Chinese Third Year I

(or equivalent)

CHIN4210 - Chinese/Sinophone Theatre and Performance - 3 - Credits

Course Overview

Course Prefix
CHIN

Course Number
4210

Department
World Languages and Cultures

Course Title
Chinese/Sinophone Theatre and Performance

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students learn about theatrical and cultural performance in China, Hong Kong, Taiwan, and other Sinophone communities. The content covers major playwrights and performance events in the context of Chinese history and Chinese performance traditions.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- CHIN2020 - Chinese Second Year II

(or equivalent proficiency testing score of 500+)

CHIN4800 - Chinese IV Study Abroad - 1 - 4 Credits

Course Overview

Course Prefix
CHIN

Course Number
4800

Department
World Languages and Cultures

Course Title
Chinese IV Study Abroad

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Intensive study in a Chinese-speaking country, advancing proficiency in the four language skills and multicultural knowledge at the fourth-year level.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
4

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
4

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
4

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
4

Lecture Hours Operator:
TO

No Requirements

CHIN4920 - Chinese Language Tutoring - 1 - Credits

Course Overview

Course Prefix
CHIN

Course Number
4920

Department
World Languages and Cultures

Course Title
Chinese Language Tutoring

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Allows students to develop tutoring skills by assisting professors in lower-division courses or fulfilling instructional duties for a comparable amount of time in the language laboratory, public schools, or similar activities with departmental approval. May be repeated to a maximum of 3 credits.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Special Approval

Instructor permission

No Requirements

CHIN6100 - Teaching Chinese as a Foreign Language - 3 - Credits

Course Overview

Course Prefix
CHIN

Course Number
6100

Department
World Languages and Cultures

Dual-Listed Courses
CHIN4100 - Teaching Chinese as a Foreign Language

Course Title
Teaching Chinese as a Foreign Language

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This is a methods course for prospective Chinese language teachers. It explores effective teaching techniques for the language classroom and focuses on meaningful individual and group projects. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- CHIN3010 - Chinese Third Year I

(or equivalent)

CHSS1100 - Practice and Philosophies of Civic Responsibility - 2 - Credits

Course Overview

Course Prefix
CHSS

Course Number
1100

Department
College of Arts & Sciences

Course Title
Practice and Philosophies of Civic Responsibility

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Designed to help students come to a personal understanding of community issues, service and leadership through learning based on volunteer service experience, readings, group discussion and interaction, and critical reflection.

Credit Hours

Credit Hours Min:
2

Contact Hours

Contact Hours Min:
2

Billing Hours

Billing Hours Min:
2

Lecture Hours

Lecture Hours Min:
2

No Requirements

CHSS1250 - Interdisciplinary Workshop - 1 - 5 Credits

Course Overview

Course Prefix
CHSS

Course Number
1250

Department
College of Arts & Sciences

Course Title
Interdisciplinary Workshop

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Check with major department for limitations on number of credits that can be counted for graduation.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
5

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
5

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
5

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
5

Lecture Hours Operator:
TO

No Requirements

CHSS2550 - Creating Purpose By Design in Humanities and Social Sciences - 1 - Credits

Course Overview

Course Prefix
CHSS

Course Number
2550

Department
College of Arts & Sciences

Course Title
Creating Purpose By Design in Humanities and Social Sciences

Grade Mode
Pass/Fail

Repeat Status
NR

Course Description
This course introduces students to academic opportunities, experiential learning, and supports available through the college. Students define the value of education- and career-applicable experiences and create effective job application strategies and documents.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

CHSS3050 - The Humanities and Social Sciences in Cultural Context - 3 - Credits

Course Overview

Course Prefix
CHSS

Course Number
3050

Department
College of Arts & Sciences

Course Title
The Humanities and Social Sciences in Cultural Context

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Interdisciplinary study of a work, figure or theme in the humanities and/or social sciences. Topics vary.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

CHSS3250 - College to Career Transitions for Humanities and Social Sciences Majors - 1 - Credits

Course Overview

Course Prefix
CHSS

Course Number
3250

Department
College of Arts & Sciences

Course Title
College to Career Transitions for Humanities and Social Sciences Majors

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course prepares students to achieve future academic/career plans for humanities and social science students through identifying marketable skill sets; career design and exploration; online branding; resumes; cover letters; interview preparation; understanding job market expectations; and networking.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

No Requirements

CHSS3550 - Alumni Career Development Series - 1 - Credits

Course Overview

Course Prefix
CHSS

Course Number
3550

Department
College of Arts & Sciences

Course Title
Alumni Career Development Series

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
This course brings students and CHaSS alumni together to network, explore, and discuss the opportunities available to students after graduation. Students are graded on attendance, written and oral participation, and reflective writing assignments.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

No Requirements

CHSS4250 - Advanced Internship/Co-op - 1 - 15 Credits

Course Overview

Course Prefix
CHSS

Course Number
4250

Department
College of Arts & Sciences

Course Title
Advanced Internship/Co-op

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
Internship or cooperative education position of a more professional level, with increased complexity, approved by the college.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
15

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
15

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
15

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
15

Lecture Hours Operator:
TO

No Requirements

CHSS5250 - Interdisciplinary Workshop - 1 - 5 Credits

Course Overview

Course Prefix
CHSS

Course Number
5250

Department
College of Arts & Sciences

Course Title
Interdisciplinary Workshop

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Check with major department for limitations on number of credits that can be counted for graduation.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
5

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
5

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
5

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
5

Lecture Hours Operator:
TO

CHSS5950 - International Internship - 1 - 12 Credits

Course Overview

Course Prefix
CHSS

Course Number
5950

Department
College of Arts & Sciences

Course Title
International Internship

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This is a semester internship course at the international level.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
12

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
12

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
12

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
12

Lecture Hours Operator:
TO

CHSS6250 - Graduate Internship/Co-op - 1 - 15 Credits

Course Overview

Course Prefix
CHSS

Course Number
6250

Department
College of Arts & Sciences

Course Title
Graduate Internship/Co-op

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Internship or cooperative education position approved by the department and/or the College of Humanities and Social Sciences. Check with major department for limitations on number of credits that can be counted for graduation.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
15

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
15

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
15

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
15

Lecture Hours Operator:
TO

No Requirements

CILEXAM - Computer Information Literacy - - Credits

Course Overview

Course Prefix
CIL

Course Number
EXAM

Course Title
Computer Information Literacy

Grade Mode
Pass/Fail

Repeat Status
RP

Credit Hours

Credit Hours Min:
0

Contact Hours

Contact Hours Min:
0

Billing Hours

Billing Hours Min:
0

Lecture Hours

Lecture Hours Min:
0

No Requirements

CIVC1000 - Math for Real World Problems (QL) - 3 - Credits

Course Overview

Course Prefix
CIVC

Course Number
1000

Department
Center for Civic Excellence

Course Title
Math for Real World Problems (QL)

General Education Attribute
QL

Grade Mode
Standard Letter

Repeat Status
NR

Course Description

Learn to make sense of complex issues in society through the use of mathematical models. Organize, evaluate, and communicate through mathematical models in order to help find successful solutions to complex contemporary problems. (This course fulfills the Quantitative Literacy requirement in Utah State University's General Education program.)

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Course Learning Objectives

Course Learning Outcomes

1. Mathematization: Convert quantitative or mathematical information into appropriate mathematical representations and/or models such as equations, graphs, diagrams, or tables, including making and evaluating important assumptions as needed;
2. Use algebraic skills and techniques to solve problems, including the ability to identify and correct errors in calculations and understanding the role and proper use of technology in assisting with calculations;
3. Draw appropriate conclusions through quantitative or mathematical analysis of data or models, including understanding and evaluating important assumptions in order to recognize the limits of the analysis

CIVC1010 - Data and the Stories They Tell (QL) - 3 - Credits

Course Overview

Course Prefix
CIVC

Course Number
1010

Department
Center for Civic Excellence

Course Title
Data and the Stories They Tell (QL)

General Education Attribute
QL

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Use data to uncover patterns and tell meaningful stories. Create visuals, explore probability and prediction, and use simple programming to investigate contemporary issues with data science. (This course fulfills the Quantitative Literacy requirement in Utah State University's General Education program.)

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Course Learning Objectives

Course Learning Outcomes
1. Critically evaluate and communicate quantitative information from various sources with creativity, resilience, and habits of mind that foster lifelong learning and human flourishing.
2. Frame, model, and interpret real-world problems using mathematical reasoning, computational tools, and data analysis in order to draw sound conclusions and support effective decision-making.

CIVC1020 - Financial Foundations for Life and Society (QL) - 3 - Credits

Course Overview

Course Prefix
CIVC

Course Number
1020

Department
Center for Civic Excellence

Course Title
Financial Foundations for Life and Society (QL)

General Education Attribute
QL

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Explore financial concepts and mathematical tools that will help you understand financial decision-making on both the personal and public level. Learn to interpret data, assess trade-offs, understand broader economic trends, and make better-informed financial decisions. (This course fulfills the Quantitative Literacy requirement in Utah State University's General Education program.)

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Course Learning Objectives

Course Learning Outcomes
1. Critically evaluate and communicate quantitative information from various sources with creativity, resilience, and habits of mind that foster lifelong learning and human flourishing.
2. Frame, model, and interpret real-world problems using mathematical reasoning, computational tools, and data analysis in order to draw sound conclusions and support effective decision-making.

CIVC1100 - Flourishing and the Good Life (CL1) - 3 - Credits

Course Overview

Course Prefix
CIVC

Course Number
1100

Department
Center for Civic Excellence

Course Title
Flourishing and the Good Life (CL1)

General Education Attribute
CL1

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
What is human well-being? How do we achieve happiness, fulfillment, and personal growth? Through engagement with cultures across time and place, examine varying notions of "the good life" and explore how societal structures support or hinder individual and collective flourishing. (This course fulfills three credits of the Written Communication requirement in Utah State University's General Education program.)

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Course Learning Objectives

Course Learning Outcomes
- Through primary texts, understand and reflect upon divergent views on big questions of meaning, purpose, and value with empathy and nuance.
- Apply a range of writing and speaking processes to understand multiple perspectives on these big questions and craft effective arguments using credible evidence for a variety of purposes, audiences, and contexts.

CIVC1110 - Navigating Human Difference (CL1) - 3 - Credits

Course Overview

Course Prefix
CIVC

Course Number
1110

Department
Center for Civic Excellence

Course Title
Navigating Human Difference (CL1)

General Education Attribute
CL1

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
A basic feature of the human experience is the tension between sameness and difference between people. By examining seminal humanistic texts, you will engage with different perspectives about the temperament and tools needed to engage productively with diversity and conflict. (This course fulfills three credits of the Written Communication requirement in Utah State University's General Education program.)

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Course Learning Objectives

Course Learning Outcomes
1. Through primary texts, understand and reflect upon divergent views on big questions of meaning, purpose, and value with empathy and nuance.
2. Apply a range of writing and speaking processes to understand multiple perspectives on these big questions and craft effective arguments using credible evidence for a variety of purposes, audiences, and contexts.

CIVC1200 - “The Blessings of Liberty”: American Government (BAI) - 3 - Credits

Course Overview

Course Prefix
CIVC

Course Number
1200

Department
Center for Civic Excellence

Course Title
“The Blessings of Liberty”: American Government (BAI)

General Education Attribute
BAI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
How does America’s constitutional republic work? Explore the origins, functioning, and ongoing debates around our constitutional system and our rights and responsibilities within it. Learn how to help shape the future of American democracy. (This course fulfills the American Institutions requirement in Utah State University’s General Education program.)

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Course Learning Objectives

Course Learning Outcomes
- Understand the major debates, founding principles, and enduring ideas that inform the historical development of the economy and republican form of government in the United States.
- Apply knowledge about institutions of government and market economic systems to engage constructively in contemporary challenges and debates at the local, state, and national level.

CIVC1210 - “A More Perfect Union”: American History (BAI) - 3 - Credits

Course Overview

Course Prefix
CIVC

Course Number
1210

Department
Center for Civic Excellence

Course Title
“A More Perfect Union”: American History (BAI)

General Education Attribute
BAI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
How did Americans create America? Learn how diverse peoples formed, developed, defended, and evolved the nation’s distinctive cultural, political, and economic institutions, then consider how individuals can help shape America's future. (This course fulfills the American Institutions requirement in Utah State University’s General Education program.)

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Course Learning Objectives

Course Learning Outcomes
1. Understand the major debates, founding principles, and enduring ideas that inform the historical development of the economy and republican form of government in the United States.
2. Apply knowledge about institutions of government and market economic systems to engage constructively in contemporary challenges and debates at the local, state, and national level.

CIVC1220 - "Promote the General Welfare": The American Economy (BAI) - 3 - Credits

Course Overview

Course Prefix
CIVC

Course Number
1220

Department
Center for Civic Excellence

Course Title
"Promote the General Welfare": The American Economy (BAI)

General Education Attribute
BAI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
What makes America such a prosperous nation? Learn how Americans created and debated the nation's distinctive economic system in relationship to its politics and culture, and explore how to participate in and shape the nation's economic life. (This course fulfills the American Institutions requirement in Utah State University's General Education program.)

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Course Learning Objectives

Course Learning Outcomes
1. Understand the major debates, founding principles, and enduring ideas that inform the historical development of the economy and republican form of government in the United States.
2. Apply knowledge about institutions of government and market economic systems to engage constructively in contemporary challenges and debates at the local, state, and national level.

CIVC1400 - Planetary Change and Human Futures (BPS) - 3 - Credits

Course Overview

Course Prefix
CIVC

Course Number
1400

Department
Center for Civic Excellence

Course Title
Planetary Change and Human Futures (BPS)

General Education Attribute
BPS

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Examine Earth as an interrelated system focusing on climate dynamics and physical feedback. Analyze how energy and matter flow across spheres. Evaluate the risks and rewards of human intervention while developing scientific literacy to address modern environmental challenges. (This course fulfills the Physical Sciences requirement in Utah State University's General Education program.)

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Course Learning Objectives

Course Learning Outcomes
- Understand the process of scientific inquiry and how to ask scientific questions.
- Evaluate the credibility of various sources of information about scientific issues in order apply scientific knowledge responsibly in discussions of important public square debates.

CIVC1410 - Earth's Critical Resources (BPS) - 3 - Credits

Course Overview

Course Prefix
CIVC

Course Number
1410

Department
Center for Civic Excellence

Course Title
Earth's Critical Resources (BPS)

General Education Attribute
BPS

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Explore the physical science behind Earth's critical resources: water, energy, soils, and minerals. Investigate how matter and energy distribution shape resource availability to address global sustainability challenges, innovative energy solutions, and complex human-environment interactions. (This course fulfills the Physical Sciences requirement in Utah State University's General Education program.)

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Course Learning Objectives

Course Learning Outcomes
1. Understand the process of scientific inquiry and how to ask scientific questions.
2. Evaluate the credibility of various sources of information about scientific issues in order apply scientific knowledge responsibly in discussions of important public square debates.

CIVC1500 - The Science of You: Health and the Human Body (BLS) - 3 - Credits

Course Overview

Course Prefix
CIVC

Course Number
1500

Department
Center for Civic Excellence

Course Title
The Science of You: Health and the Human Body (BLS)

General Education Attribute
BLS

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Discover how the human body works. Ask questions and use evidence to make informed decisions about personal and public health. Develop the skills to tell solid science from sensational claims. (This course fulfills the Life Sciences requirement in Utah State University's General Education program.)

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Course Learning Objectives

Course Learning Outcomes
- Understand the process of scientific inquiry and how to ask scientific questions.
- Evaluate the credibility of various sources of information about scientific issues in order apply scientific knowledge responsibly in discussions of important public square debates.

CIVC1510 - Our Place in the Natural World (BLS) - 3 - Credits

Course Overview

Course Prefix
CIVC

Course Number
1510

Department
Center for Civic Excellence

Course Title
Our Place in the Natural World (BLS)

General Education Attribute
BLS

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Why are there over a million species on Earth? Why are species disappearing so fast? Explore how life evolves, sustains our planet, and how human decisions shape the future of the natural world. (This course fulfills the Life Sciences requirement in Utah State University's General Education program.)

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Course Learning Objectives

Course Learning Outcomes
1. Understand the process of scientific inquiry and how to ask scientific questions.
2. Evaluate the credibility of various sources of information about scientific issues in order apply scientific knowledge responsibly in discussions of important public square debates.

CIVC1520 - Farm to Future: Sustainable Food Systems (BLS) - 3 - Credits

Course Overview

Course Prefix
CIVC

Course Number
1520

Department
Center for Civic Excellence

Course Title
Farm to Future: Sustainable Food Systems (BLS)

General Education Attribute
BLS

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
How will science shape the future of food? Examine how evidence is used to understand food systems and their environmental and social impacts and apply scientific reasoning to discussions about sustainability and food security. (This course fulfills the Life Sciences requirement in Utah State University's General Education program.)

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Course Learning Objectives

Course Learning Outcomes
· Understand the process of scientific inquiry and how to ask scientific questions.

· Evaluate the credibility of various sources of information about scientific issues in order apply scientific knowledge responsibly in discussions of important public square debates.

CIVC1600 - Thinking Through the Arts (BCA) - 3 - Credits

Course Overview

Course Prefix
CIVC

Course Number
1600

Department
Center for Civic Excellence

Course Title
Thinking Through the Arts (BCA)

General Education Attribute
BCA

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
How do the arts help us think? Investigate visual arts, music, film, design, and drama to understand how meaning is created and shared. Strengthen interpretation, judgment, and creative thinking skills used across everyday life and society. (This course fulfills the Arts requirement in Utah State University's General Education program.)

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Course Learning Objectives

Course Learning Outcomes
- Understand the diversity of creative expression and its power to convey our deepest human values and aspirations.
- Understand and/or engage in creative processes to increase individual capacity for creative thinking and practice.

CIVC1610 - Design Thinking (BCA) - 3 - Credits

Course Overview

Course Prefix
CIVC

Course Number
1610

Department
Center for Civic Excellence

Course Title
Design Thinking (BCA)

General Education Attribute
BCA

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
The design process creates everything in our built world. Examine the social, cultural, aesthetic, and functional aspects of the built environment and the products within it, using an iterative design process to build your creative capacity. (This course fulfills the Arts requirement in Utah State University's General Education program.)

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Course Learning Objectives

Course Learning Outcomes
1. Understand the diversity of creative expression and its power to convey our deepest human values and aspirations.
2. Understand and/or engage in creative processes to increase individual capacity for creative thinking and practice.

CIVC1620 - Music and the Creative Life (BCA) - 3 - Credits

Course Overview

Course Prefix
CIVC

Course Number
1620

Department
Center for Civic Excellence

Course Title
Music and the Creative Life (BCA)

General Education Attribute
BCA

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
How do creative ideas become real? Explore the creative process through experimentation, collaboration, and feedback. Learn to develop ideas, take risks, and apply your creativity to make a positive impact in your community and the world. (This course fulfills the Arts requirement in Utah State University's General Education program.)

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Course Learning Objectives

Course Learning Outcomes
1. Understand the diversity of creative expression and its power to convey our deepest human values and aspirations.
2. Understand and/or engage in creative processes to increase individual capacity for creative thinking and practice.

CIVC1622 - Visual Arts and the Creative Life (BCA) - 3 - Credits

Course Overview

Course Prefix
CIVC

Course Number
1622

Department
Center for Civic Excellence

Course Title
Visual Arts and the Creative Life (BCA)

General Education Attribute
BCA

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
How do creative ideas become real? Explore the creative process through experimentation, collaboration, and feedback. Learn to develop ideas, take risks, and apply your creativity to make a positive impact in your community and the world. (This course fulfills the Arts requirement in Utah State University's General Education program.)

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Course Learning Objectives

Course Learning Outcomes
1. Understand the diversity of creative expression and its power to convey our deepest human values and aspirations.
2. Understand and/or engage in creative processes to increase individual capacity for creative thinking and practice.

CIVC1624 - Writing and the Creative Life (BCA) - 3 - Credits

Course Overview

Course Prefix
CIVC

Course Number
1624

Department
Center for Civic Excellence

Course Title
Writing and the Creative Life (BCA)

General Education Attribute
BCA

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
How do creative ideas become real? Explore the creative process through experimentation, collaboration, and feedback. Learn to develop ideas, take risks, and apply your creativity to make a positive impact in your community and the world. (This course fulfills the Arts requirement in Utah State University's General Education program.)

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Course Learning Objectives

Course Learning Outcomes

1. Understand the diversity of creative expression and its power to convey our deepest human values and aspirations.
2. Understand and/or engage in creative processes to increase individual capacity for creative thinking and practice.

CIVC1800 - Disagree Better (BSS) - 3 - Credits

Course Overview

Course Prefix
CIVC

Course Number
1800

Department
Center for Civic Excellence

Course Title
Disagree Better (BSS)

General Education Attribute
BSS

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Conflict is a normal part of human interactions, but people often struggle to navigate it productively. Drawing on social scientific perspectives, learn the practical skills needed to transform conflict in interpersonal relationships, from roommates to families to workplaces. (This course fulfills the Social and Behavioral Sciences requirement in Utah State University's General Education program.)

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Course Learning Objectives

Course Learning Outcomes

- Use evidence-based approaches and systematic inquiry to understand complex social problems, navigate constructive pathways, and contribute to the common good.
- Apply social science knowledge and foster durable skills to engage more thoughtfully and effectively in social settings.

CIVC1810 - Lead From Where You Are (BSS) - 3 - Credits

Course Overview

Course Prefix
CIVC

Course Number
1810

Department
Center for Civic Excellence

Course Title
Lead From Where You Are (BSS)

General Education Attribute
BSS

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Leadership is far more than a position or title. Learn how to lead by exercising positive influence through strengthening relationships, increasing trust, and aligning your actions with your core values and purpose. (This course fulfills the Social and Behavioral Sciences requirement in Utah State University's General Education program.)

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Course Learning Objectives

Course Learning Outcomes
1. Use evidence-based approaches and systematic inquiry to understand complex social problems, navigate constructive pathways, and contribute to the common good.
2. Apply social science knowledge and foster durable skills to engage more thoughtfully and effectively in social settings.

CIVC1820 - The Social Science of Happiness (BSS) - 3 - Credits

Course Overview

Course Prefix
CIVC

Course Number
1820

Department
Center for Civic Excellence

Course Title
The Social Science of Happiness (BSS)

General Education Attribute
BSS

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
How can we be happier? Is happiness even possible? Learn how to enhance emotional intelligence, resilience, healthy mental habits, interpersonal connections, and other virtues that allow people to thrive both personally and in their relationships with others. (This course fulfills the Social and Behavioral Sciences requirement in Utah State University's General Education program.)

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Course Learning Objectives

Course Learning Outcomes
1. Use evidence-based approaches and systematic inquiry to understand complex social problems, navigate constructive pathways, and contribute to the common good.
2. Apply social science knowledge and foster durable skills to engage more thoughtfully and effectively in social settings.

CIVC1830 - Pathways to Intercultural Understanding (BSS) - 3 - Credits

Course Overview

Course Prefix
CIVC

Course Number
1830

Department
Center for Civic Excellence

Course Title
Pathways to Intercultural Understanding (BSS)

General Education Attribute
BSS

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Positively engaging with different cultures is an essential skill for civic life. Using social scientific lenses, learn how to better understand cultural differences in order to foster more effective, empathetic, and reciprocal interactions across cultures. (This course fulfills the Social and Behavioral Sciences requirement in Utah State University's General Education program.)

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Course Learning Objectives

Course Learning Outcomes
1. Use evidence-based approaches and systematic inquiry to understand complex social problems, navigate constructive pathways, and contribute to the common good.
2. Apply social science knowledge and foster durable skills to engage more thoughtfully and effectively in social settings.

CIVC2100 - Freedom, Equality, and Justice (CL2) - 3 - Credits

Course Overview

Course Prefix
CIVC

Course Number
2100

Department
Center for Civic Excellence

Course Title
Freedom, Equality, and Justice (CL2)

General Education Attribute
CL2

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
What is freedom? What is equality? What is justice? What seem like "self-evident truths" are complicated and sometimes conflicting ideas, especially across diverse cultures. Learn how these concepts impact how we as citizens shape our legal, political, and economic systems. (This course fulfills three credits of the Written Communication requirement in Utah State University's General Education program.)

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Course Learning Objectives

Course Learning Outcomes
1. Through primary texts, understand and reflect upon divergent views on big questions of meaning, purpose, and value with empathy and nuance.
2. Apply a range of writing and speaking processes to understand multiple perspectives on these big questions and craft effective arguments using credible evidence for a variety of purposes, audiences, and contexts.

CJ1010 - Introduction to Criminal Justice (BSS) - 3 - Credits

Course Overview

Course Prefix
CJ

Course Number
1010

Department
School of Social Sciences

Course Title
Introduction to Criminal Justice (BSS)

General Education Attribute
BSS

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides an overview of the criminal justice system. The three pillars of the criminal justice system (police, courts, and corrections) are covered. Theory and research of crime is covered as well.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

CJ1030 - Introduction to Firearms Handling/ Safety - 3 - Credits

Course Overview

Course Prefix
CJ

Course Number
1030

Department
School of Social Sciences

Course Title
Introduction to Firearms Handling/Safety

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course is designed as an introductory program for students interested in shooting, hunting, home safety, or personal protection. The course teaches students safety skills and firearm care while providing an opportunity to practice on a firing range.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

CJ1060 - POST Certification: Special Function Officer (SFO) - 8 - Credits

Course Overview

Course Prefix
CJ

Course Number
1060

Department
School of Social Sciences

Course Title
POST Certification: Special Function Officer (SFO)

Grade Mode
Pass/Fail

Repeat Status
NR

Course Description
Successful completion of this course fulfills the requirements for the State of Utah Police Officer Standards and Training (POST) Special Function Officer (SFO) certification.

Credit Hours

Credit Hours
Min:
8

Contact Hours

Contact Hours
Min:
8

Billing Hours

Billing Hours
Min:
8

Lecture Hours

Lecture Hours
Min:
8

Course Learning Objectives

Course Learning Outcomes

1. Gaining a basic understanding of the subject (e.g., fundamentals, criminal law, Defensive Tactics I, physical training, and Officer ethics).

2. Developing specific skills, competencies, and points of view needed by professionals in the field most closely related to this course.

3. Developing skill in expressing myself orally or in writing.

4. Developing ethical reasoning and/or ethical decision making.

5. Learning to apply knowledge and skills to benefit others or serve the public good.

CJ1070 - POST Certification: Basic Corrections Officer (BCO) - 5 - Credits

Course Overview

Course Prefix
CJ

Course Number
1070

Department
School of Social Sciences

Course Title
POST Certification: Basic Corrections Officer (BCO)

Grade Mode
Pass/Fail

Repeat Status
NR

Course Description
Successful completion of this course fulfills the requirements for the State of Utah Police Officer Standards and Training (POST) Basic Corrections Officer (BCO) certification.

Credit Hours

Credit Hours
Min:
5

Contact Hours

Contact Hours
Min:
5

Billing Hours

Billing Hours
Min:
5

Lecture Hours

Lecture Hours
Min:
5

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- CJ1060 - POST Certification: Special Function Officer (SFO)

Course Learning Objectives

Course Learning Outcomes

1. Gaining a basic understanding of the subject (e.g., fundamentals, Corrections law, institutional Defensive Tactics, physical training, Inmate behavior, management, and control).

2. Developing specific skills, competencies, and points of view needed by professionals in the field most closely related to this course.

3. Developing skill in expressing myself orally or in writing.

4. Developing ethical reasoning and/or ethical decision making.

5. Learning to apply knowledge and skills to benefit others or serve the public good.

CJ1080 - POST Certification: Law Enforcement Officer (LEO) - 12 - Credits

Course Overview

Course Prefix
CJ

Course Number
1080

Department
School of Social Sciences

Course Title
POST Certification: Law Enforcement Officer (LEO)

Grade Mode
Pass/Fail

Repeat Status
NR

Course Description
Successful completion of this course fulfills the requirements for the State of Utah Police Officer Standards and Training (POST) Law Enforcement Officer (LEO) certification.

Credit Hours

Credit Hours
Min:
12

Contact Hours

Contact Hours
Min:
12

Billing Hours

Billing Hours
Min:
12

Lecture Hours

Lecture Hours
Min:
12

Simple Requisites

Prerequisitte

Type
Prerequisite

Required

Complete ALL of the following Courses:

- CJ1060 - POST Certification: Special Function Officer (SFO)

CJ1300 - Introduction to Corrections - 3 - Credits

Course Overview

Course Prefix
CJ

Course Number
1300

Department
School of Social Sciences

Course Title
Introduction to Corrections

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course examines the history of corrections in America. Emphasis is placed on the philosophies of punishment, sentencing strategies, prison community, alternatives to incarceration, and various reform efforts. Students learn to understand the evolution and administration of corrections today.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

CJ1330 - Criminal Law - 3 - Credits

Course Overview

Course Prefix
CJ

Course Number
1330

Department
School of Social Sciences

Course Title
Criminal Law

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers the nature of criminal liability in the United States criminal justice system. The elements of crimes and defenses are covered, as well as the general elements of criminality and the purposes of those elements.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

CJ1340 - Criminal Investigations - 3 - Credits

Course Overview

Course Prefix
CJ

Course Number
1340

Department
School of Social Sciences

Course Title
Criminal Investigations

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces students to legal, scientific, and administrative aspects of the criminal investigation process. Students learn to deal with potential obstacles encountered in the investigation process. The course objective is to acquaint students with the fundamentals of criminal investigations.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

CJ1350 - Introduction to Forensic Science - 3 - Credits

Course Overview

Course Prefix
CJ

Course Number
1350

Department
School of Social Sciences

Course Title
Introduction to Forensic Science

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers investigations, including interrogation and interview, sources of information (electronic/traditional), crime scene procedure, introduction to identification, collection and preservation of evidence, laboratory techniques and case preparation. Students learn the functions of evidence collection, preservation and analysis.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

CJ1355 - Crime Scene Processing - 3 - Credits

Course Overview

Course Prefix
CJ

Course Number
1355

Department
School of Social Sciences

Course Title
Crime Scene Processing

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers the duties and responsibilities of a crime scene technician. It includes instruction on the proper collection, handling and storage of evidence, report writing and requests for examination, as well as laboratory methods.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

CJ1360 - Crime Scene Academy - 3 - Credits

Course Overview

Course Prefix
CJ

Course Number
1360

Department
School of Social Sciences

Course Title
Crime Scene Academy

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students will receive extensive training to develop credible skills in the area of crime scene processing. These skills will include, but not limited to; analyzing crime scenes, learning proper investigation processes, managing crime scenes, documenting and preserving evidence at a crime scene, becoming familiar with the medical/legal aspects of crime scene investigation and becoming familiar with standardized national procedures. After successfully completing the course and passing the required test, students will be certified as a Crime Scene Technician by the Utah State Bureau of Forensic Services.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

CJ1390 - Introduction to Policing - 3 - Credits

Course Overview

Course Prefix
CJ

Course Number
1390

Department
School of Social Sciences

Course Title
Introduction to Policing

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course analyzes the role of Police in society. The functions of police, including organizational structure, discretion, subculture and interactions with the community are areas covered in detail. The class will also deal with problems in changing technology, corruption, violence and use of force by police today.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

CJ2110 - Managing Security: Threats, Risk, and Leadership - 3 - Credits

Course Overview

Course Prefix
CJ

Course Number
2110

Department
School of Social Sciences

Course Title
Managing Security: Threats, Risk, and Leadership

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course examines the components of private and public security. It covers physical, internal and external security, as well as the different concepts for securing both private and public institutions.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

CJ2330 - Juvenile Justice - 3 - Credits

Course Overview

Course Prefix
CJ

Course Number
2330

Department
School of Social Sciences

Course Title
Juvenile Justice

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers the origin, philosophy, and development of the juvenile justice system. Emphasis is placed on the nature and origins of juvenile law and the guiding principles that drive the system.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

CJ2350 - Laws of Evidence - 3 - Credits

Course Overview

Course Prefix
CJ

Course Number
2350

Department
School of Social Sciences

Course Title
Laws of Evidence

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers the rules governing the admissibility of evidence in the United States criminal justice system. It also covers the structure of criminal courts in the U.S. and the steps a criminal case passes through in the criminal justice system.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

CJ2360 - Juvenile Law and Procedures - 3 - Credits

Course Overview

Course Prefix
CJ

Course Number
2360

Department
School of Social Sciences

Course Title
Juvenile Law and Procedures

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers the juvenile system emphasizing Utah law and procedure. It distinguishes between juvenile and adult systems, function of probation, youth corrections, family services and the community.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

CJ2370 - Child Abuse and Neglect - 3 - Credits

Course Overview

Course Prefix
CJ

Course Number
2370

Department
School of Social Sciences

Course Title
Child Abuse and Neglect

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers causes, identification, reporting, and legal issues pertaining to abused and neglected children. Primary objectives assist students in gaining insight of what constitutes child maltreatment and domestic violence as well as assessing underlying causes of abuse and neglect.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

CJ2860 - Criminal Justice Field Experience - 3 - Credits

Course Overview

Course Prefix
CJ

Course Number
2860

Department
School of Social Sciences

Course Title
Criminal Justice Field Experience

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course gives students first-hand experience and knowledge of criminal justice by working, riding with, or observing a practitioner in the field. Students are enrolled by instructor permission only.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Special Approval

Instructor permission

No Requirements

CJ2977 - Cooperative Education - 1 - 3 Credits

Course Overview

Course Prefix
CJ

Course Number
2977

Department
School of Social Sciences

Course Title
Cooperative Education

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
(for second year program majors only) Open to all students in the Criminal Justice program who meet the minimum cooperative work experience requirements of the department. Provides academic credit for on-the-job experience. Grade and amount of credit will be determined by the department. Students will gain first hand experience and knowledge of an area of criminal justice through on the job training.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

No Requirements

CJ2988 - Special Problems - 1 - 3 Credits

Course Overview

Course Prefix
CJ

Course Number
2988

Department
School of Social Sciences

Course Title
Special Problems

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course includes a variety of short courses, institutes and special problems designed by the instructor and student. The number of credits earned is dependent upon department determination.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

No Requirements

CJ3110 - School Resource Officer: Safety and Crime Prevention in an Educational Setting - 3 - Credits

Course Overview

Course Prefix
CJ

Course Number
3110

Department
School of Social Sciences

Course Title
School Resource Officer: Safety and Crime Prevention in an Educational Setting

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers the complexities involving school security. These include crisis management, threat assessment, crime prevention through environmental design, mental health concerns, bullying, juvenile deviances, restorative justice, collaboration with school officials, and the legal and ethical considerations of school policing.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Course Learning Objectives

Course Learning Outcomes
1. Gaining a basic understanding of the complexities of school security. These include crime prevention through environmental design, mental health concerns, bullying, threat assessment, juvenile crime, restorative justice, technology, crisis management, and the legal and ethical considerations of school policing.

2. Developing knowledge and understanding of diverse perspectives and other cultures involving students in their schools and how to work with diverse student body.

3. Developing ethical reasoning and/or ethical decision making.

4. Learning to analyze and critically evaluate ideas, arguments, and points of view.

5. Developing specific skills, competencies, and points of view needed by SRO professionals in the field.

CJ3150 - Moot Court - 3 - Credits

Course Overview

Course Prefix
CJ

Course Number
3150

Department
School of Social Sciences

Course Title
Moot Court

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course is for students wishing to participate in USU's Moot Court team. Students gain skills in legal advocacy and courtroom demeanor. Students also learn how appellate courts function.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Students must be at least in their sophomore year

Special Approval
Instructor permission

Other Enrollment Recommendations
CJ2350 LAWS OF EVIDENCE

No Requirements

Course Learning Objectives

Course Learning Outcomes
1. Students will gain skills in legal advocacy and courtroom demeanor.

2. Students will learn how appellate courts function.

CJ3320 - Criminal Procedure - 3 - Credits

Course Overview

Course Prefix
CJ

Course Number
3320

Department
School of Social Sciences

Course Title
Criminal Procedure

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces students to the historical development and principles of criminal procedure. It begins with arrest and follows the court through to last appeal. Students learn to understand the procedural impact of the United States Constitution on the rights of accused persons.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

CJ3370 - Gender-Based Violence - 3 - Credits

Course Overview

Course Prefix
CJ

Course Number
3370

Department
School of Social Sciences

Cross-Listed Courses
SOC3370 - Gender-Based Violence

Course Title
Gender-Based Violence

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Gender has a unique relationship with violence. Using the lens of intersectionality, this course analyzes how marginalized identities interact with a variety of forms of violence including sexual assault/rape and intimate partner violence, as well as systemic and institutionalized violence.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Students will be exposed to theory and research focusing on gender-based violence.

2. Students will examine gender roles, socialization, cultures of violence, the role of anger, agencies of violence, and how survival informs responses to violence.

CJ3400 - Tribal Criminal Justice Systems - 3 - Credits

Course Overview

Course Prefix
CJ

Course Number
3400

Department
School of Social Sciences

Cross-Listed Courses
SOC3400 - Tribal Criminal Justice Systems

Course Title
Tribal Criminal Justice Systems

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course examines tribal criminal justice systems present in today's Native American legal structures, and the role, impact, and integration of the reservation system with federal and state laws and government policies from the early 1800s to the present.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Other Enrollment Recommendations
CJ1010 INTRO TO CRIMINAL JUSTICE(BSS) and CJ1330 CRIMINAL LAW are recommended but not required.

No Requirements

Course Learning Objectives

Course Learning Outcomes
Course Learning Outcomes:

1. Gaining a basic understanding of the subject (ie factual knowledge, methods, principles, generalizations, theories).

2. Developing knowledge and understanding of diverse perspectives, global awareness, or other cultures.

3. Developing specific skills, competencies, and points of view needed by professionals in the field most closely related to this course.

CJ3440 - Victimology - 3 - Credits

Course Overview

Course Prefix
CJ

Course Number
3440

Department
School of Social Sciences

Cross-Listed Courses
SOC3440 - Victimology

Course Title
Victimology

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course explores the study of victims and the impact of crime on individuals and communities. Topics include the theoretical foundations of victimology, patterns of victimization, victim rights, the impact of gender and social class, and services available to victims.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

CJ4200 - Criminal Justice Ethics - 3 - Credits

Course Overview

Course Prefix
CJ

Course Number
4200

Department
School of Social Sciences

Course Title
Criminal Justice Ethics

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers ethical issues in the United States criminal justice system. Various ethical theories are covered, and how these theories can be applied to situations that arise as an employee in the criminal justice system.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Understand the key theories and concepts in victimology.

2. Analyze patterns of victimization and their social implications.

3. Identify the psychological, emotional, and legal impacts of victimization on individuals and communities.

4. Critically examine the role of the criminal justice system in addressing victimization.

5. Discuss victim rights, advocacy, and the services available for victims of crime.

6. Assess the effects of social, economic, and cultural factors on victimization.

CJ4310 - Corrections Law & Inmate Rights - 3 - Credits

Course Overview

Course Prefix
CJ

Course Number
4310

Department
School of Social Sciences

Course Title
Corrections Law & Inmate Rights

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course examines the history and administration of inmates' rights through the department of corrections in America, emphasis placed on the philosophies of punishment, prison community, and reform efforts. Students understand the evolution of rights for offenders in America.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes
1. Gaining a basic understanding of the subject (e.g., factual knowledge, methods, principles, generalizations, theories).

2. Developing knowledge and understanding of diverse perspectives, global awareness, or other cultures.

3. Developing ethical reasoning and/or ethical decision making.

4. Learning to analyze and critically evaluate ideas, arguments, and points of view.

5. Developing specific skills, competencies, and points of view needed by professionals in the field most closely related to this course.

CJ4350 - Courtroom Communication (CI) - 3 - Credits

Course Overview

Course Prefix
CJ

Course Number
4350

Department
School of Social Sciences

Course Title
Courtroom Communication (CI)

General Education Attribute
CI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students gain skills in both oral advocacy and testimony presentation. Students also learn ways disputes are resolved in the criminal justice system outside of trial and the role communication plays in that process.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Other Enrollment Recommendations
CJ2350 LAWS OF EVIDENCE

Course Learning Objectives

Course Learning Outcomes
1. Students will gain skills in both oral advocacy and testimony presentation.

2. Students will learn about alternative ways (i.e., non-trial ways) cases are resolved in the criminal justice system and the role communication plays in that process.

CJ4440 - The Origins of the United States Criminal Justice System (DSS) - 3 - Credits

Course Overview

Course Prefix
CJ

Course Number
4440

Department
School of Social Sciences

Course Title
The Origins of the United States Criminal Justice System (DSS)

General Education Attribute
DSS

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students travel to England to learn how the English criminal justice system influenced the formation of the United States criminal justice system.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Study Abroad program admission through the Office of Global Engagement

CJ4450 - Foundations of Leadership - 3 - Credits

Course Overview

Course Prefix
CJ

Course Number
4450

Department
School of Social Sciences

Course Title
Foundations of Leadership

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces fundamental leadership concepts, focusing on developing a personal leadership philosophy, understanding the impact of leadership on organizational culture, and mastering decision-making and problem-solving skills.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Corequisite

Type
Corequisite

Required

Enroll in the following Courses:

- CJ4460 - Advanced Leadership Skills
- CJ4470 - Specialized Leadership Project
- CJ4480 - Executive Leadership

Course Learning Objectives

Course Learning Outcomes
1. Gaining factual knowledge (terminology, classifications, methods, trends).

2. Learning fundamental principles, generalizations, or theories.

3. Developing specific skills, competencies, and points of view needed by professionals in the field most closely related to this course.

4. Learning to analyze and critically evaluate ideas, arguments, and points of view.

5. Acquiring an interest in learning more by asking your own questions and seeking answers.

CJ4460 - Advanced Leadership Skills - 3 - Credits

Course Overview

Course Prefix
CJ

Course Number
4460

Department
School of Social Sciences

Course Title
Advanced Leadership Skills

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers ethics in leadership, situational leadership for employee development, employee engagement and assessment, and effective counseling techniques. It equips leaders with skills to adapt their leadership style to team needs and to engage effectively with their staff.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Corequisite

Type
Corequisite

Required

Enroll in the following Courses:

- CJ4450 - Foundations of Leadership
- CJ4470 - Specialized Leadership Project
- CJ4480 - Executive Leadership

Course Learning Objectives

Course Learning Outcomes

1. Gaining factual knowledge (terminology, classifications, methods, trends).

2. Learning fundamental principles, generalizations, or theories.

3. Developing specific skills, competencies, and points of view needed by professionals in the field most closely related to this course.

4. Learning to analyze and critically evaluate ideas, arguments, and points of view.

5. Acquiring an interest in learning more by asking your own questions and seeking answers.

CJ4470 - Specialized Leadership Project - 3 - Credits

Course Overview

Course Prefix
CJ

Course Number
4470

Department
School of Social Sciences

Course Title
Specialized Leadership Project

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course addresses skills in the correctional leadership context, namely media skills, critical incident/force management, managing high-stress situations and interacting effectively with media, and a mind-body bridging/self-awareness course. These specialized topics prepare leaders for the unique challenges in corrections.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Corequisite

Type
Corequisite

Required

Enroll in the following Courses:

- CJ4450 - Foundations of Leadership
- CJ4460 - Advanced Leadership Skills
- CJ4480 - Executive Leadership

Course Learning Objectives

Course Learning Outcomes

Course Learning Outcomes:

1. Gaining factual knowledge (terminology, classifications, methods, trends).

2. Learning fundamental principles, generalizations, or theories.

3. Developing specific skills, competencies, and points of view needed by professionals in the field most closely related to this course.

4. Learning to analyze and critically evaluate ideas, arguments, and points of view.

5. Acquiring an interest in learning more by asking your own questions and seeking answers.

CJ4480 - Executive Leadership - 3 - Credits

Course Overview

Course Prefix
CJ

Course Number
4480

Department
School of Social Sciences

Course Title
Executive Leadership

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course synthesizes CJ 4450, 4460, and 4470 into an executive leadership framework, focusing on creating an executive mindset, a professional image, and engaging in a public safety leadership forum and prepares and equips participants to effectively lead.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Corequisite

Type
Corequisite

Required

Enroll in the following Courses:

- CJ4450 - Foundations of Leadership
- CJ4460 - Advanced Leadership Skills
- CJ4470 - Specialized Leadership Project

Course Learning Objectives

Course Learning Outcomes

1. Gaining factual knowledge (terminology, classifications, methods, trends).

2. Learning fundamental principles, generalizations, or theories.

3. Developing specific skills, competencies, and points of view needed by professionals in the field most closely related to this course.

4. Learning to analyze and critically evaluate ideas, arguments, and points of view.

5. Acquiring an interest in learning more by asking your own questions and seeking answers.

CJ4770 - Criminal Justice Field Education and Experience - 3 - Credits

Course Overview

Course Prefix
CJ

Course Number
4770

Department
School of Social Sciences

Course Title
Criminal Justice Field Education and Experience

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students enroll in the Applied Criminal Justice Internship in the final year of the Criminal Justice emphasis in the Sociology major. This course provides students the opportunity to apply course material in a "real world" practice setting.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- CJ4200 - Criminal Justice Ethics

CJ4900 - CJ Capstone Experience - 1 - 3 Credits

Course Overview

Course Prefix
CJ

Course Number
4900

Department
School of Social Sciences

Course Title
CJ Capstone Experience

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
The Capstone Experience can either be guided independent readings in an area of Criminal Justice, or hands-on research collaboration with a faculty member involving topic selection, literature review, data collection and analysis, and presentation of results.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

Special Approval

Instructor permission

Course Learning Objectives

Course Learning Outcomes

1. Gaining a basic understanding of the subject (e.g., factual knowledge, methods, principles, generalizations, theories).

2. Developing specific skills, competencies, and points of view needed by

professionals in the field most closely related to this course.

3. Developing skill in expressing myself orally or in writing.

4. Learning how to find, evaluate, and use resources to explore a topic in depth.

5. Learning to analyze and critically evaluate ideas, arguments, and points of view.

CLAS1010 - Introduction to Classical Studies (BHU) - 3 - Credits

Course Overview

Course Prefix
CLAS

Course Number
1010

Department
History, Cultures & Ideas

Course Title
Introduction to Classical Studies (BHU)

General Education Attribute
BHU

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course is an introduction to Classical Studies. It includes a historical survey of Greece, Rome, and other ancient Mediterranean civilizations (such as Egypt and Mesopotamia), a study of their literary works and material culture, and their contemporary relevance.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Course Learning Objectives

Course Learning Outcomes
1. Learn basic facts about ancient Greece and Rome and other ancient Mediterranean civilizations.

2. Read the literature of ancient Greece, Rome, and other ancient civilizations and become familiar with their art and architecture.

3. Gain a deeper appreciation of how ancient cultures have influenced Western civilization and continue to influence us today.

CLAS1120 - Building English Vocabulary: The Latin and Greek Element in English - 3 - Credits

Course Overview

Course Prefix
CLAS

Course Number
1120

Department
History, Cultures & Ideas

Cross-Listed Courses
HIST1120 - Building English Vocabulary: The Latin and Greek Element in English

Course Title
Building English Vocabulary: The Latin and Greek Element in English

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course is a survey of classical word roots in English, with a view to enhancing students' comprehension of English vocabulary and its Indo-European heritage.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

CLAS1200 - Ancient Greek Civilization - 3 - Credits

Course Overview

Course Prefix
CLAS

Course Number
1200

Department
History, Cultures & Ideas

Course Title
Ancient Greek Civilization

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course surveys ancient Greek civilization from prehistory through Alexander the Great (323 BCE). Students study epics, lyric poetry, drama, history, art, architecture and philosophy. Assessment is based on students' written expression of facts and themes in history.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

CLAS3160 - Classical Drama and Society - 3 - Credits

Course Overview

Course Prefix
CLAS

Course Number
3160

Department
History, Cultures & Ideas

Cross-Listed Courses
HIST3160 - Classical Drama and Society

Course Title
Classical Drama and Society

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Review and analysis of the nature and function of ancient Greek and Roman drama in its theatrical, historical, and social context. Focuses on the major dramatists of classical antiquity.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Course Sets:

- Communications Literacy (CL2) Course

CLAS3170 - Descent and Return: Ancient Views of Hades and the Afterlife - 3 - Credits

Course Overview

Course Prefix
CLAS

Course Number
3170

Department
History, Cultures & Ideas

Cross-Listed Courses
HIST3170 - Descent and Return: Ancient Views of Hades and the Afterlife,
RELS3170 - Descent and Return: Ancient Views of Hades and the Afterlife

Course Title
Descent and Return: Ancient Views of Hades and the Afterlife

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course will focus on classical views of Hades and the afterlife, paying special attention to the gods and heroes, such as Persephone, Odysseus, Orpheus, and Aeneas, who were able to make the journey down into Hades while alive and then return back to the upper world. We will also discuss the historical background to the works and related religious and literary themes.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

CLAS3210 - Classical Mythology - 3 - Credits

Course Overview

Course Prefix
CLAS

Course Number
3210

Department
History, Cultures & Ideas

Cross-Listed Courses
ARTH3210 - Classical Mythology, ENGL3210 - Classical Mythology, HIST3210 - Classical Mythology, RELS3210 - Classical Mythology

Course Title
Classical Mythology

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces major myths of the Classical world and explores how these myths serve as keys to understanding the documents and arts of Classical civilization.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

CLAS3290 - Studying the New Testament - 3 - Credits

Course Overview

Course Prefix
CLAS

Course Number
3290

Department
History, Cultures & Ideas

Cross-Listed Courses
HIST3290 - Studying the New Testament, RELS3290 - Studying the New Testament

Course Title

Studying the New Testament

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides students a scholarly introduction to the collection of writings known as the New Testament. In addition to reading the biblical texts themselves, the course is intended to introduce students to literary-historical methods of biblical research and scholarship.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

CMST1020 - Public Speaking (BHU) - 3 - Credits

Course Overview

Course Prefix
CMST

Course Number
1020

Department
Communication & Media

Course Title
Public Speaking (BHU)

General Education Attribute
BHU

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course teaches students strategies for crafting speeches focused on community-building. Special emphasis on communicating to invite collaboration and understanding. Students practice these skills in formal speeches, informal speeches, and short writing assignments. One lecture and two labs per week.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

CMST1330 - Introduction to Global Communication (BSS) - 3 - Credits

Course Overview

Course Prefix
CMST

Course Number
1330

Department
Communication & Media

Course Title
Introduction to Global Communication (BSS)

General Education Attribute
BSS

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces the field of global communication and explores different perspectives on how to understand cultural communication systems. Students learn tools for being better global citizens and communicators across all facets of human difference.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

CMST1800 - Leadership and Human Flourishing - 3 - Credits

Course Overview

Course Prefix
CMST

Course Number
1800

Department
Communication & Media

Cross-Listed Courses
ASTE1800 - Leadership and Human Flourishing, MSLE1800 - Leadership and Human Flourishing

Course Title
Leadership and Human Flourishing

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course delves into the pivotal connection between leadership and human flourishing. Students learn leadership theories, practical skills, communication strategies, and the art of positive influence, all aimed at increasing personal and interpersonal excellence to improve global communities.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes
1. Students will explore the historical and modern questions related to human purpose, happiness, and leadership.

2. Students will practice leadership and communication approaches to improve their ability to address interpersonal and community problems.

3. Students will identify how socio-cultural context shapes human interaction, leadership methods, and self-efficacy for self and others.

4. Students will use various experiential learning methods to explore how their knowledge, skills, and values can contribute to community problem-solving and a higher quality of life for themselves and others.

CMST2110 - Interpersonal Communication (BHU) - 3 - Credits

Course Overview

Course Prefix
CMST

Course Number
2110

Department
Communication & Media

Course Title
Interpersonal Communication (BHU)

General Education Attribute
BHU

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course examines concepts and theories that help establish and maintain meaningful and successful interpersonal relationships in a variety of contexts. The course focuses on theoretical and practical competence that can enable increased cooperation and happiness in students' lives.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

CMST2120 - Group Collaboration and Decision Making - 3 - Credits

Course Overview

Course Prefix
CMST

Course Number
2120

Department
Communication & Media

Course Title
Group Collaboration and Decision Making

General Education Attribute
BSS

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course develops collaboration skills in various group settings. Specific emphasis is placed on building leadership skills, enhancing positive communication climates, and setting standards for competent decision making.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

CMST2250 - Introductory Internship/Co-op - 1 - 6 Credits

Course Overview

Course Prefix
CMST

Course Number
2250

Department
Communication & Media

Course Title
Introductory Internship/Co-op

Grade Mode
Pass/Fail

Repeat Status
NR

Course Description
Introductory level educational work experience in an internship or cooperative education position approved by the department and advisor. Internship project and number of credits must be approved by advisor.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
6

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
6

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
6

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
6

Lecture Hours Operator:
TO

No Requirements

CMST2270 - Argumentation and Debate - 3 - Credits

Course Overview

Course Prefix
CMST

Course Number
2270

Department
Communication & Media

Course Title
Argumentation and Debate

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course builds the crucial skills of critical thinking, public argumentation, and logical reasoning. This course fine-tunes the skill of academic debate alongside argumentative practice for everyday disagreements.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

CMST2810 - Communicating Emotions - 3 - Credits

Course Overview

Course Prefix
CMST

Course Number
2810

Department
Communication & Media

Course Title
Communicating Emotions

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course helps students gain awareness of the source, meaning, impact, and consequences of their emotions. This course is designed to deepen students' ability to understand and have the capacity to communicate their emotions and build meaningful connections with others.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Students will develop a greater awareness and understanding of their emotional experiences.

2. Students will understand and assess their own emotional intelligence.

3. Students will develop a plan and the skills needed to more effectively analyze, communicate and regulate their emotions.

CMST2900 - Degree and Career Planning in Communication - 1 - Credits

Course Overview

Course Prefix
CMST

Course Number
2900

Department
Communication & Media

Course Title
Degree and Career Planning in Communication

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course helps students plan an intentional program of study in Communication Studies and Global Communication majors and connect their coursework to various career paths.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

CMST3010 - Communication Studies Teaching Practicum: Public Speaking - 1 - Credits

Course Overview

Course Prefix
CMST

Course Number
3010

Department
Communication & Media

Course Title
Communication Studies Teaching Practicum: Public Speaking

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course is designed to develop and refine students' teaching competencies as teaching assistants for the Communication Studies public speaking course. The practicum focuses on coordinating lab and lecture experiences that assist public speaking students in developing effectiveness as speakers.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Special Approval

Instructor Permission

No Requirements

CMST3020 - Persuasive Public Communication - 3 - Credits

Course Overview

Course Prefix
CMST

Course Number
3020

Department
Communication & Media

Course Title
Persuasive Public Communication

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course offers students the opportunity to improve and expand their communication skills by engaging in issues of public significance. Specific attention is paid to demonstrating excellence in oral communication, constructing rigorous, evidence-based arguments, and critical evaluation of public communication.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- CMST1020 - Public Speaking (BHU)

CMST3120 - Communication in Family Contexts - 3 - Credits

Course Overview

Course Prefix
CMST

Course Number
3120

Department
Communication & Media

Course Title
Communication in Family Contexts

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course facilitates understanding of the major theories and concepts in the study of communication phenomena in family relationships. Emphasis is placed on critical analysis of communication research into the family context.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- CMST2110 - Interpersonal Communication (BHU)

CMST3160 - Gender Communication - 3 - Credits

Course Overview

Course Prefix
CMST

Course Number
3160

Department
Communication & Media

Course Title
Gender Communication

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course explores gender as a social construct created through communication. Students examine gender from an intersectional perspective by attending to the ways in which it is shaped by factors such as sexual orientation, race, and culture.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

CMST3230 - Global Communication, Music, and Culture - 3 - Credits

Course Overview

Course Prefix
CMST

Course Number
3230

Department
Communication & Media

Course Title
Global Communication, Music, and Culture

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This class helps students to understand the roles that communication and culture have on the music that people listen to around the world. Students analyze songs, albums and videos as texts through which the artist's culture is speaking.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Course Learning Objectives

Course Learning Outcomes

1. Students will be able to understand the roles that culture and communication play in the narratives infused in the music people around the world listen to.

2. Students will be able to analyze the narratives of music through a number of different channels (lyrics, videos, participation in social movements).

3. Students will be able to identify the direct influence that cultural differences in how music is used to communicate with mass audiences.

4. Students will be able to trace a history of music's influence on social movements and social change throughout global history.

CMST3240 - Global Communication and Diasporic Communities - 3 - Credits

Course Overview

Course Prefix
CMST

Course Number
3240

Department
Communication & Media

Course Title
Global Communication and Diasporic Communities

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course examines diasporic communities' uses of communication to influence both on the homeland and the host culture. It helps students understand the communicative processes that diasporic communities employ, through a focus on issues of identity, history, and politics.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Other Enrollment Recommendations

CMST1330 INTRO TO GLOBAL COMM (BSS) or CMST3330 INTERCULTURAL COMM (DSS)

Course Learning Objectives

Course Learning Outcomes

1. Explore theories on diasporic communities and their use of communication.
2. Understand diasporic experiences within their larger context.
3. Examine the different approaches to navigating issues of identity within spaces of migration.
4. Explore possibilities and challenges navigating relationships with their host and home cultures and their political implications.

CMST3250 - Organizational Communication (CI) - 3 - Credits

Course Overview

Course Prefix
CMST

Course Number
3250

Department
Communication & Media

Course Title
Organizational Communication (CI)

General Education Attribute
CI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course explores organizations as complex human systems of everyday interaction and cooperation. Students learn how people can better organize and work together to achieve collective goals that more mutually benefit owners, leaders, workers, communities, and stakeholders.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- CMST2110 - Interpersonal Communication (BHU)

CMST3260 - The Cultural Bridge Project - 3 - Credits

Course Overview

Course Prefix
CMST

Course Number
3260

Department
Communication & Media

Course Title
The Cultural Bridge Project

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
The Cultural Bridge Project focuses on helping students develop and sharpen their intercultural leadership skills. In this class, students learn how to be effective cultural bridges in their everyday personal and professional lives.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Course Learning Objectives

Course Learning Outcomes

1. Students will obtain a robust understanding and appreciation of different cultural perspectives, approaches, and worldviews.

2. Students will learn how to be cultural bridges in their personal life, work, and in creative endeavors.

3. Students will learn about how to be effective leaders in intercultural setting.

4. Students will further strengthen their ability to think critically about and evaluate different points of view and arguments.

CMST3270 - Culture and Public Discourse (DHA) - 3 - Credits

Course Overview

Course Prefix
CMST

Course Number
3270

Department
Communication & Media

Course Title
Culture and Public Discourse (DHA)

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course explores the relationship between culture and public discourse examining the impact the media we use has on our public discourse, highlighting the role of power and its implications for ourselves and others.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

CMST3280 - Organizations and Social Change - 3 - Credits

Course Overview

Course Prefix
CMST

Course Number
3280

Department
Communication & Media

Course Title
Organizations and Social Change

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course explores various ways organizations effect social change, including the tools and tactics they utilize, with a focus on nonprofits organizations. Students analyze how different organizations address a variety of social issues in local, national, and international contexts.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

CMST3290 - Communication & Mass Violence - 3 - Credits

Course Overview

Course Prefix
CMST

Course Number
3290

Department
Communication & Media

Course Title
Communication & Mass Violence

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This class instructs students on common communication features of group-targeted mass violence. Focusing on case studies from the 19th, 20th, and 21st centuries, students engage interdisciplinary experts on the use of communication in perpetrating, justifying, and resisting group-based mass violence.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Other Enrollment Recommendations

CMST1330 INTRO TO GLOBAL COMM (BSS), CMST3330 INTERCULTURAL COMM (DSS), CMST3270 CULTURE & PUB DISCOURSE (DHA)

Course Learning Objectives

Course Learning Outcomes

1. Identify common communicative antecedents of group-based mass violence.

2. Critically analyze public communication defending group-based mass violence.

3. Analyze and formulate anti-mass violence public communication.

CMST3330 - Intercultural Communication (DSS) - 3 - Credits

Course Overview

Course Prefix
CMST

Course Number
3330

Department
Communication & Media

Course Title
Intercultural Communication (DSS)

General Education Attribute
DSS

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course teaches how communication shapes culture and how culture, in turn, affects communication. Students develop active intercultural communication skills in professional and personal contexts. Certain sections may be reserved for Communication Studies and Global Communication majors.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

CMST3400 - Persuasion - 3 - Credits

Course Overview

Course Prefix
CMST

Course Number
3400

Department
Communication & Media

Course Title
Persuasion

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Survey of theory and research investigating the process of social influence. Topics include: compliance-gaining strategies, enactment and detection of deception, verbal and nonverbal influence, attitude change, conformity, communicator characteristics, credibility, emotional appeals, and ethics.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

CMST3510 - Development and Philanthropy - 3 - Credits

Course Overview

Course Prefix
CMST

Course Number
3510

Department
Communication & Media

Course Title
Development and Philanthropy

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course focuses on the field of philanthropy and the development of relationships that foster giving in the nonprofit sector. The course covers broad perspectives on the principles and practices of fundraising and donor relationships in building successful philanthropic campaigns.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

CMST3600 - Communication and Conflict - 3 - Credits

Course Overview

Course Prefix
CMST

Course Number
3600

Department
Communication & Media

Course Title
Communication and Conflict

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course explores contemporary theories on conflict and communication. Students analyze the roles of culture, gender, and personal and/or organizational ethics in conflict and disputes. The course includes discussion and application of negotiation, mediation, and facilitation skills.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

CMST3610 - Communication Studies Teaching Practicum - Conflict - 1 - Credits

Course Overview

Course Prefix
CMST

Course Number
3610

Department
Communication & Media

Course Title
Communication Studies Teaching Practicum - Conflict

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course comprises an intensive teaching workshop and includes a supervised on-campus teaching experience.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Special Approval

Instructor Permission

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Increase your confidence and abilities as a Teaching Assistant.

CMST3730 - Culture and Global Intervention (DHA) - 3 - Credits

Course Overview

Course Prefix
CMST

Course Number
3730

Department
Communication & Media

Course Title
Culture and Global Intervention (DHA)

General Education Attribute
DHA

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course studies the influence of public messages about global poverty and inequality that impact global development interventions. It also instructs students on the culture-centered approach as a method of working with and for communities.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

CMST3750 - Globalization and Discourse - 3 - Credits

Course Overview

Course Prefix
CMST

Course Number
3750

Department
Communication & Media

Course Title
Globalization and Discourse

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
In this course, students explore discourse/rhetoric through/within different global, national, international, and transnational contexts. The course pays special attention to three groups of reactions to globalization: market globalism, justice globalism, and national populism/jihadist globalism.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Other Enrollment Recommendations
CMST1330 INTRO TO GLOBAL COMM (BSS) or CMST3330 INTERCULTURAL COMM (DSS) or CMST3730 CULTURE & GLOBAL INTERV (DHA)

Course Learning Objectives

Course Learning Outcomes
1. Identify and analyze the three rhetorical reactions to globalization.

2. Gain broader understanding of globalization history, processes, and rhetorical functioning.

3. Rhetorically critique non-English texts.

4. Critically analyze communicative and rhetorical processes at work in our understanding of [global]politics.

5. Apply concepts to new contexts with well supported and informed commentary on current issues in [intra][trans][inter]national politics to public and in-the know audiences.

CMST4200 - Language, Thought, and Action (CI/DSS) - 3 - Credits

Course Overview

Course Prefix
CMST

Course Number
4200

Department
Communication & Media

Course Title
Language, Thought, and Action (CI/DSS)

General Education Attribute
CI, DSS

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course explores the influence of language on our perceptions, our choices, and our actions in a wide variety of communication contexts, from interpersonal relationships to mass media and from communication in social settings to the talk inside our own heads.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

CMST4250 - Advanced Internship/Co-op - 1 - 6 Credits

Course Overview

Course Prefix
CMST

Course Number
4250

Department
Communication & Media

Course Title
Advanced Internship/Co-op

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
Internship or cooperative education at a more professional level, with increased complexity, approved by the department and advisor. Internship project and number of credits must be approved by advisor.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
6

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
6

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
6

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
6

Lecture Hours Operator:
TO

No Requirements

CMST4260 - Environmental Communication - 3 - Credits

Course Overview

Course Prefix
CMST

Course Number
4260

Department
Communication & Media

Course Title
Environmental Communication

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course examines the intersections of communication and the environment with a focus on persuasive tactics and strategies used by advocates and organizations. This course focuses on critical analysis of environmental messages and develops writing and critical thinking skills.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

CMST4270 - Communication, Culture, and Power - 3 - Credits

Course Overview

Course Prefix
CMST

Course Number
4270

Department
Communication & Media

Course Title
Communication, Culture, and Power

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course examines the intersections of power, communication, knowledge, and identity. The course highlights the indispensable role that communication plays in the production of powerful hegemonic structures as well as resisting them.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

CMST4330 - Advanced Perspectives in Global Communication (CI) - 3 - Credits

Course Overview

Course Prefix
CMST

Course Number
4330

Department
Communication & Media

Course Title
Advanced Perspectives in Global Communication (CI)

General Education Attribute
CI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course explores communication in global settings, including the role of culture, power and technology. A variety of perspectives are explored. The course focuses on empowering students to develop the intercultural and cognitive skills to be effective global communicators.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

CMST4380 - Advanced Intercultural Communication - 3 - Credits

Course Overview

Course Prefix
CMST

Course Number
4380

Department
Communication & Media

Course Title
Advanced Intercultural Communication

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
The course equips students with skills necessary to navigate intercultural spaces and effectively address intercultural challenges within their local community. Examining issues of disparities, it provides an understanding of these challenges and offers skills to contribute to addressing their implications.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Course Learning Objectives

Course Learning Outcomes

1. Familiarize students with the literature on disparities and their relation to individuals' social location.

2. Equip students with the theoretical frameworks necessary for understanding disparities within their communities and addressing them.

3. Empower students with the skills necessary to work effectively on addressing intercultural challenges and their implications within the local/national community.

CMST4700 - Health Communication (CI) - 3 - Credits

Course Overview

Course Prefix
CMST

Course Number
4700

Department
Communication & Media

Course Title
Health Communication (CI)

General Education Attribute
CI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces students to how communication shapes health and health practices, with a primary focus on the role of communication in contributing to and mitigating health disparities. Students explore a variety of communication contexts and channels.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- CMST2110 - Interpersonal Communication (BHU)

CMST4750 - Strategic Health Messaging - 3 - Credits

Course Overview

Course Prefix
CMST

Course Number
4750

Department
Communication & Media

Course Title
Strategic Health Messaging

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course addresses the theories guiding health communication campaigns, focusing on message design principles. The course covers issues in social, emotional, and interpersonal influences on health-related perceptions and behavioral outcomes, with particular emphasis on health messaging for marginalized and vulnerable populations.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

CMST4760 - Current Issues in Communication and Mental Health - 3 - Credits

Course Overview

Course Prefix
CMST

Course Number
4760

Department
Communication & Media

Course Title
Current Issues in Communication and Mental Health

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides an overview of topics, theories, and research on communication and mental health in the context of social inequality. The course discusses theories, and types of communication (e.g., media & interpersonal relationships) that inform understanding mental health.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Course Learning Objectives

Course Learning Outcomes

1. Students will learn about major theories in communication and mental health research.
2. Students will examine media and interpersonal relationships and their link to mental health.
3. Students will examine how communication influences individual mental health outcomes.
4. Students will complete a research presentation that applies course material.
5. Students will enhance their professional writing and speaking skills.

CMST4800 - Qualitative Research in Communications Studies - 3 - Credits

Course Overview

Course Prefix
CMST

Course Number
4800

Department
Communication & Media

Course Title
Qualitative Research in Communications Studies

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces students to the foundations of rigorous qualitative research methods used in the communication studies discipline. Students develop skills tied to participant observation, interviewing, and analysis of qualitative data.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

CMST4810 - Quantitative Communication Studies Research Methods (QI) - 3 - Credits

Course Overview

Course Prefix
CMST

Course Number
4810

Department
Communication & Media

Course Title
Quantitative Communication Studies Research Methods (QI)

General Education Attribute
QI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces students to quantitative research methods used to investigate human communication. Students learn how to use statistics to conduct and interpret research designed to answer important questions in the field.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- CMST2110 - Interpersonal Communication (BHU)
- STAT1040 - Introduction to Statistics (QL)
  OR STAT1045 - Introduction to Statistics with Elements with Algebra (QL)

CMST4820 - Communication Criticism (CI) - 3 - Credits

Course Overview

Course Prefix
CMST

Course Number
4820

Department
Communication & Media

Course Title
Communication Criticism (CI)

General Education Attribute
CI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides an introduction to the analysis of public communication from a variety of critical perspectives. Students practice applying these perspectives to various rhetorical artifacts such as speeches, advertisements, and social media.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- CMST1020 - Public Speaking (BHU)

CMST5000 - Studies in Communication Studies - 1 - 5 Credits

Course Overview

Course Prefix
CMST

Course Number
5000

Department
Communication & Media

Course Title
Studies in Communication Studies

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Study of special topics in interpersonal, small group, organizational, or intercultural communication theory and research.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
5

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
5

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
5

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
5

Lecture Hours Operator:
TO

Special Approval

Instructor permission

CMST5100 - Theories of Communication (CI) - 3 - Credits

Course Overview

Course Prefix
CMST

Course Number
5100

Department
Communication & Media

Course Title
Theories of Communication (CI)

General Education Attribute
CI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces students to a wide range of theoretical perspectives across a variety of communication related contexts, including interpersonal, persuasive, organizational, interpersonal, group, and intercultural communication.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

CMST5110 - Advanced Interpersonal Communication - 3 - Credits

Course Overview

Course Prefix
CMST

Course Number
5110

Department
Communication & Media

Course Title
Advanced Interpersonal Communication

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course focuses on studies and advanced theories in contemporary interpersonal communication. We will explore multiple research perspectives and articles that apply both qualitative and quantitative methods. There is a particular emphasis on critically consuming social scientific research on interpersonal communication theory.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- CMST2110 - Interpersonal Communication (BHU)

CMST5300 - Visual Rhetoric - 3 - Credits

Course Overview

Course Prefix
CMST

Course Number
5300

Department
Communication & Media

Course Title
Visual Rhetoric

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course explores how visual texts (photographs, memes, typography, videos, etc.) communicate messages and create meaning for audiences. Students develop their ability to critically think, analyze, and create impactful visual messages through writing, research, discussion, and speaking skills.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

CMST5330 - Global Communication Senior Capstone - 1 - Credits

Course Overview

Course Prefix
CMST

Course Number
5330

Department
Communication & Media

Course Title
Global Communication Senior Capstone

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This senior capstone course is designed for majors in their last year of study. Students reflect on and synthesize the knowledge they have been gaining in the Global Communication major.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Registration Restrictions
Admission to Global Communication - BA.

Other Enrollment Recommendations
Students should be in their senior year when taking this course

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- CMST1330 - Introduction to Global Communication (BSS)
- CMST3330 - Intercultural Communication (DSS)

Course Learning Objectives

Course Learning Outcomes

1. Make practical connections between concepts you have learned in a variety of different Global Communication courses.

2. Articulate to external audiences (1) the purpose of Global Communication as an academic discipline, and (2) key concepts and principles you have learned in the Global Communication program.

3. Understand how to apply communication concepts to productively deal with everyday challenges and problems.

4. Demonstrate an ability to reflect thoughtfully and insightfully on from their practicum and/or other intercultural experiences.

CMST5400 - Advanced Persuasion - 3 - Credits

Course Overview

Course Prefix
CMST

Course Number
5400

Department
Communication & Media

Course Title
Advanced Persuasion

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Provides more complex understanding of the process of persuasion, including an examination of traditional and contemporary theories of social influence. Investigates multiple variables, including context, which affect the sending and receiving of persuasive messages.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- CMST3400 - Persuasion

CMST5500 - Communication and Leadership - 3 - Credits

Course Overview

Course Prefix
CMST

Course Number
5500

Department
Communication & Media

Course Title
Communication and Leadership

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course explores the role of communication in effective leadership at individual and organizational levels. This course examines concepts, theories, and practices that can help students become the kind of leaders and communicators that others would want to follow.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

CMST5600 - Advanced Communication and Conflict - 3 - Credits

Course Overview

Course Prefix
CMST

Course Number
5600

Department
Communication & Media

Course Title
Advanced Communication and Conflict

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
In this course students develop an understanding of the principles, and acquire the necessary skills, to create conversational spaces that facilitate transformative conflict.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- CMST3600 - Communication and Conflict

CMST5800 - Communication Studies Senior Capstone (CI) - 2 - Credits

Course Overview

Course Prefix
CMST

Course Number
5800

Department
Communication & Media

Course Title
Communication Studies Senior Capstone (CI)

General Education Attribute
CI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This is a senior capstone course designed for majors in their last year of study. Students will reflect on and synthesize the knowledge they have been gaining in the communication studies major.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Registration Restrictions
Communication Studies major

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete at least twenty-one upper-division credits of CMST coursework

CMST5950 - Global Communication Practicum - 3 - Credits

Course Overview

Course Prefix
CMST

Course Number
5950

Department
Communication & Media

Course Title
Global Communication Practicum

Grade Mode
Pass/Fail

Repeat Status
NR

Course Description
This global communication practicum is designed to tie together the various elements of the global communication major through practical experience in service learning or internship work in a cultural community distinct from the student's own culture.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- CMST1330 - Introduction to Global Communication (BSS)
- CMST3330 - Intercultural Communication (DSS)

CMST6050 - Seminar on Teaching Communication - 3 - Credits

Course Overview

Course Prefix
CMST

Course Number
6050

Department
Communication & Media

Course Title
Seminar on Teaching Communication

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students learn how to effectively teach communication specific concepts and build learning environments that facilitate improved communication outcomes.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

CMST6100 - Communication Studies Research: Social Science Methods - 3 - Credits

Course Overview

Course Prefix
CMST

Course Number
6100

Department
Communication & Media

Course Title
Communication Studies Research: Social Science Methods

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course takes a social science approach to communication research. It is designed to offer students with the resources to conduct, analyze, and critique post-positive research.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

CMST6150 - Communication Studies Research: Rhetorical Criticism - 3 - Credits

Course Overview

Course Prefix
CMST

Course Number
6150

Department
Communication & Media

Course Title
Communication Studies Research: Rhetorical Criticism

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course takes a humanist approach to communication research. It is designed to offer students the resources to interpret and critically analyze public communication that structures lived realities.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

CMST6200 - Seminar on Personal Relationships - 3 - Credits

Course Overview

Course Prefix
CMST

Course Number
6200

Department
Communication & Media

Course Title
Seminar on Personal Relationships

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course reviews advanced theoretical constructs and recent research related to interpersonal communication. Comprehension, critical evaluation, and applications are stressed.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

CMST6250 - Graduate Independent Study - 1 - 6 Credits

Course Overview

Course Prefix
CMST

Course Number
6250

Department
Communication & Media

Course Title
Graduate Independent Study

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
This course can be used to facilitate an in-depth investigation into an area of study of the student's choice.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
6

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
6

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
6

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
6

Lecture Hours Operator:
TO

Special Approval
Instructor permission

CMST6300 - Seminar on Culture and Difference - 3 - Credits

Course Overview

Course Prefix
CMST

Course Number
6300

Department
Communication & Media

Course Title
Seminar on Culture and Difference

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course explores the interconnected relationship between culture, difference, and communication. It examines how communicative practices create and sustain cultural realities. Students explore ways to effectively communicate across human difference.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

CMST6400 - Seminar in Social Influence - 3 - Credits

Course Overview

Course Prefix
CMST

Course Number
6400

Department
Communication & Media

Course Title
Seminar in Social Influence

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides students with a solid grounding in theories, principles, and strategies of social influence, persuasion, and argumentation as they relate to everyday life. Students also become conversant with instructional practices for teaching a course on persuasion.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

CMST6500 - Seminar in Organizational Communication - 3 - Credits

Course Overview

Course Prefix
CMST

Course Number
6500

Department
Communication & Media

Course Title
Seminar in Organizational Communication

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This survey course is designed to expose graduate students to organizational communication theory, perspectives, methods, and current issues.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Special Approval

Instructor permission

CMST6650 - Health Communication - 3 - Credits

Course Overview

Course Prefix
CMST

Course Number
6650

Department
Communication & Media

Course Title
Health Communication

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course enhances knowledge and critical analyzation of communication in health contexts. It covers a variety of topics, theories, and types of communication that inform the understanding of health. The material covered is based on theory and empirical data.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

CMST6700 - Rhetorical Strategies in Social Movements - 3 - Credits

Course Overview

Course Prefix
CMST

Course Number
6700

Department
Communication & Media

Course Title
Rhetorical Strategies in Social Movements

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course focuses on the relationship between rhetoric and social movements. Students critically examine various communication strategies used by activists, including (but not limited to) personal narratives, silence, civil disobedience, and online advocacy.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

CMST6800 - Transnational and International Political Discourse - 3 - Credits

Course Overview

Course Prefix
CMST

Course Number
6800

Department
Communication & Media

Course Title
Transnational and International Political Discourse

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This class focuses on political discourses that crosses nation-state boundaries. It investigates various topics and theories, including postcolonialism, neocolonialism, translingualism, transnational protest movements, global feminisms, migration, and rhetoric of development. Students also explore U.S.-bias in rhetorical theory.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

CMST6900 - Seminar in Communication Theory - 3 - Credits

Course Overview

Course Prefix
CMST

Course Number
6900

Department
Communication & Media

Course Title
Seminar in Communication Theory

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course examines and evaluates social, psychological, and rhetorical theory applied to human communication behavior.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

CMST6920 - Directed Study - 3 - Credits

Course Overview

Course Prefix
CMST

Course Number
6920

Department
Communication & Media

Course Title
Directed Study

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
This course consists of directed study projects in communication studies.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Special Approval

Instructor permission

No Requirements

CMST6970 - Thesis Research - 1 - 6 Credits

Course Overview

Course Prefix
CMST

Course Number
6970

Department
Communication & Media

Course Title
Thesis Research

Grade Mode
Temporary Pass/Fail

Repeat Status
RP

Course Description
This course consists of research for the student's thesis.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
6

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
6

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
6

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
6

Lecture Hours Operator:
TO

No Requirements

CMST6999 - Special Topics - 3 - Credits

Course Overview

Course Prefix
CMST

Course Number
6999

Department
Communication & Media

Course Title
Special Topics

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course explores contemporary issues in communication theory, research, and practice. Topics vary. The course may be repeated when the subject matter is different from the class previously taken by the student.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

COMD5750 - Strategies for Teaching Deaf and Hard of Hearing Students with Exceptionalities - 3 - Credits

Course Overview

Course Prefix
COMD

Course Number
5750

Department
Speech and Hearing Sciences

Course Title
Strategies for Teaching Deaf and Hard of Hearing Students with Exceptionalities

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Students learn strategies for teaching deaf and hard of hearing students and working with families. The course explores the special education process, accommodations, models of inclusive education, cultural and linguistic differences, and characteristics and transitional needs of exceptional learners.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

COST1000 - Nail Technician Foundations - 1 - Credits

Course Overview

Course Prefix
COST

Course Number
1000

Department
Technology, Design & Technical Ed

Course Title
Nail Technician Foundations

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers the history and profession of nail technology. Students learn about basic skin and nail structure and growth.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

No Requirements

COST1100 - Cosmetology Theory I - 5 - Credits

Course Overview

Course Prefix
COST

Course Number
1100

Department
Technology, Design & Technical Ed

Course Title
Cosmetology Theory I

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Covers bacteriology, decontamination and infection control, permanent waving, chemical hair relaxing, hair cutting and hair lightening. Emphasis on new technology and product knowledge from industry.

Credit Hours

Credit Hours
Min:
5

Contact Hours

Contact Hours
Min:
5

Billing Hours

Billing Hours
Min:
5

Lecture Hours

Lecture Hours
Min:
5

No Requirements

COST1110 - Cosmetology Lab I - 6 - 10 Credits

Course Overview

Course Prefix
COST

Course Number
1110

Department
Technology, Design & Technical Ed

Course Title
Cosmetology Lab I

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Lab instruction and practical application. Teaches shampooing, scalp treatments, manicuring, hair cutting, hair dressing, tinting and bleaching, and facials.

Credit Hours

Credit Hours Min:
6

Credit Hours Max:
10

Credit Hours Operator:
OR

Contact Hours

Contact Hours Min:
6

Contact Hours Max:
10

Contact Hours Operator:
OR

Billing Hours

Billing Hours Min:
6

Billing Hours Max:
10

Billing Hours Operator:
OR

Lecture Hours

Lecture Hours Min:
6

Lecture Hours Max:
10

Lecture Hours Operator:
OR

No Requirements

COST1200 - Cosmetology Theory II - 5 - Credits

Course Overview

Course Prefix
COST

Course Number
1200

Department
Technology, Design & Technical Ed

Course Title
Cosmetology Theory II

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Covers hair coloring, skin and disorders, chemistry, properties of scalp and hair, wet and thermal hair styling.

Credit Hours

Credit Hours Min:
5

Contact Hours

Contact Hours Min:
5

Billing Hours

Billing Hours Min:
5

Lecture Hours

Lecture Hours Min:
5

No Requirements

COST1210 - Cosmetology Lab II - 6 - 10 Credits

Course Overview

Course Prefix
COST

Course Number
1210

Department
Technology, Design & Technical Ed

Course Title
Cosmetology Lab II

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Lab instruction and practical application teaches shampooing, scalp treatments, manicuring, hair cutting, hair dressing, tinting and bleaching, and facials.

Credit Hours

Credit Hours Min:
6

Credit Hours Max:
10

Credit Hours Operator:
OR

Contact Hours

Contact Hours Min:
6

Contact Hours Max:
10

Contact Hours Operator:
OR

Billing Hours

Billing Hours Min:
6

Billing Hours Max:
10

Billing Hours Operator:
OR

Lecture Hours

Lecture Hours Min:
6

Lecture Hours Max:
10

Lecture Hours Operator:
OR

No Requirements

COST1300 - Introduction to Barbering - 5 - Credits

Course Overview

Course Prefix
COST

Course Number
1300

Department
Technology, Design & Technical Ed

Course Title
Introduction to Barbering

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Barbering combines the art and science of hair cutting, styling, and beard design. Students gain salon experience and theory instruction, practicing men's and women's services, shaving, chemistry, and anatomy, with strong emphasis on safety, sanitation, and professional standards.

Credit Hours

Credit Hours Min:
5

Contact Hours

Contact Hours Min:
5

Billing Hours

Billing Hours Min:
5

Lecture Hours

Lecture Hours Min:
5

No Requirements

COST1310 - Introduction to Barbering Lab - 10 - Credits

Course Overview

Course Prefix
COST

Course Number
1310

Department
Technology, Design & Technical Ed

Course Title
Introduction to Barbering Lab

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Barbering is the art and science of cutting and styling hair, as well as the designing of beards and mustaches. Students receive this preparation while practicing in a salon experience. Students are also prepared in theory classes. Students will practice men's and women's cutting and styling, shaving, chemistry and anatomy, with an emphasis on safety, sanitation and professionalism.

Credit Hours

Credit Hours
Min:
10

Contact Hours

Contact Hours
Min:
10

Billing Hours

Billing Hours
Min:
10

Lecture Hours

Lecture Hours
Min:
10

No Requirements

COST1400 - Intermediate Barbering - 5 - Credits

Course Overview

Course Prefix
COST

Course Number
1400

Department
Technology, Design & Technical Ed

Course Title
Intermediate Barbering

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Barbering combines the art and science of cutting and styling hair, including beard and mustache design. Students gain salon experience and theory instruction, practicing men's and women's services, shaving, chemistry, and anatomy, emphasizing safety, sanitation, and professionalism in professional settings.

Credit Hours

Credit Hours
Min:
5

Contact Hours

Contact Hours
Min:
5

Billing Hours

Billing Hours
Min:
5

Lecture Hours

Lecture Hours
Min:
5

No Requirements

COST1407 - Nail Technician I - 3 - Credits

Course Overview

Course Prefix
COST

Course Number
1407

Department
Technology, Design & Technical Ed

Course Title
Nail Technician I

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course explores the history of nail technology, basic anatomy, infection recognition and prevention, and skin and nail structure and growth. Students study the fundamentals of manicures, pedicures, nail tip application, acrylic nail enhancements, and gel polish applications.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

COST1410 - Intermediate Barbering Lab - 10 - Credits

Course Overview

Course Prefix
COST

Course Number
1410

Department
Technology, Design & Technical Ed

Course Title
Intermediate Barbering Lab

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Barbering combines the art and science of cutting and styling hair, including beard and mustache design. Students receive salon experience and theory instruction, practicing men's and women's cutting, styling, shaving, chemistry, and anatomy, with emphasis on safety, sanitation, and professionalism.

Credit Hours

Credit Hours Min:
10

Contact Hours

Contact Hours Min:
10

Billing Hours

Billing Hours Min:
10

Lecture Hours

Lecture Hours Min:
10

No Requirements

COST1500 - Professional Vocational Leadership (VICA) - 1 - Credits

Course Overview

Course Prefix
COST

Course Number
1500

Department
Technology, Design & Technical Ed

Course Title
Professional Vocational Leadership (VICA)

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Supports and facilitates the goals and objectives of Vocational Industrial Clubs of America (VICA). Students will gain skills in the following areas: personal development, service, team building and leadership, workplace skills, and interview skills. Students may participate in regional, state and national competitions.

Credit Hours

Credit Hours Min:
1

Contact Hours

Contact Hours Min:
1

Billing Hours

Billing Hours Min:
1

Lecture Hours

Lecture Hours Min:
1

No Requirements

COST1507 - Nail Technician II - 3 - Credits

Course Overview

Course Prefix
COST

Course Number
1507

Department
Technology, Design & Technical Ed

Course Title
Nail Technician II

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides additional instruction in nail art techniques. Students fulfill all the requirements of an industry employee in performing a number of nail services. In addition, students study business ethics, time management, and other industry essentials.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

COST1602 - Nail Technician Clinicals I - 2 - Credits

Course Overview

Course Prefix
COST

Course Number
1602

Department
Technology, Design & Technical Ed

Course Title
Nail Technician Clinicals I

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students apply the principles and practices learned in the nail technician theory and skill development courses as they perform a variety of services for clients in the Cosmetology salon.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

No Requirements

COST2300 - Intermediate Cosmetology Theory I - 5 - Credits

Course Overview

Course Prefix
COST

Course Number
2300

Department
Technology, Design & Technical Ed

Course Title
Intermediate Cosmetology Theory I

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Covers salon business, electricity and light therapy, nails and disorders, manicuring, pedicuring.

Credit Hours

Credit Hours
Min:
5

Contact Hours

Contact Hours
Min:
5

Billing Hours

Billing Hours
Min:
5

Lecture Hours

Lecture Hours
Min:
5

No Requirements

COST2310 - Intermediate Cosmetology Lab I - 6 - 10 Credits

Course Overview

Course Prefix
COST

Course Number
2310

Department
Technology, Design & Technical Ed

Course Title
Intermediate Cosmetology Lab I

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Lab instruction and practical application teaches shampooing, scalp treatments, manicuring, hair cutting, hair-dressing, tinting and bleaching, and facials.

Credit Hours

Credit Hours Min:
6

Credit Hours Max:
10

Credit Hours Operator:
OR

Contact Hours

Contact Hours Min:
6

Contact Hours Max:
10

Contact Hours Operator:
OR

Billing Hours

Billing Hours Min:
6

Billing Hours Max:
10

Billing Hours Operator:
OR

Lecture Hours

Lecture Hours Min:
6

Lecture Hours Max:
10

Lecture Hours Operator:
OR

No Requirements

COST2400 - Intermediate Cosmetology Theory - 5 - Credits

Course Overview

Course Prefix
COST

Course Number
2400

Department
Technology, Design & Technical Ed

Course Title
Intermediate Cosmetology Theory

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Covers theory of massage, facials, facial make-up and barbering. Lecture classes for State Board. (Review of previous theory classes).

Credit Hours

Credit Hours Min:
5

Contact Hours

Contact Hours Min:
5

Billing Hours

Billing Hours Min:
5

Lecture Hours

Lecture Hours Min:
5

No Requirements

COST2410 - Intermediate Cosmetology Lab - 6 - 10 Credits

Course Overview

Course Prefix
COST

Course Number
2410

Department
Technology, Design & Technical Ed

Course Title
Intermediate Cosmetology Lab

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Lab instruction and practical application teaches shampooing, scalp treatments, manicuring, hair cutting, hair-dressing, tinting and bleaching, facials.

Credit Hours

Credit Hours Min:
6

Credit Hours Max:
10

Credit Hours Operator:
OR

Contact Hours

Contact Hours Min:
6

Contact Hours Max:
10

Contact Hours Operator:
OR

Billing Hours

Billing Hours Min:
6

Billing Hours Max:
10

Billing Hours Operator:
OR

Lecture Hours

Lecture Hours Min:
6

Lecture Hours Max:
10

Lecture Hours Operator:
OR

No Requirements

COST2500 - Advanced Cosmetology Theory - 5 - Credits

Course Overview

Course Prefix
COST

Course Number
2500

Department
Technology, Design & Technical Ed

Course Title
Advanced Cosmetology Theory

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Covers lecture for State Board (review for State License). Advanced techniques. Designed for students who have not completed required hours for State Licensing.

Credit Hours

Credit Hours Min:
5

Contact Hours

Contact Hours Min:
5

Billing Hours

Billing Hours Min:
5

Lecture Hours

Lecture Hours Min:
5

No Requirements

COST2510 - Advanced Cosmetology Lab - 5 - 10 Credits

Course Overview

Course Prefix
COST

Course Number
2510

Department
Technology, Design & Technical Ed

Course Title
Advanced Cosmetology Lab

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Lab instruction and practical application prepares shampooing, scalp treatments, manicuring, hair cutting, hair-dressing, tinting and bleaching, and facials.

Credit Hours

Credit Hours Min:
5

Credit Hours Max:
10

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
5

Contact Hours Max:
10

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
5

Billing Hours Max:
10

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
5

Lecture Hours Max:
10

Lecture Hours Operator:
TO

No Requirements

COST2600 - Eyelash Technology - 3 - Credits

Course Overview

Course Prefix
COST

Course Number
2600

Department
Technology, Design & Technical Ed

Course Title
Eyelash Technology

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course is presented through lectures, demonstrations, and practical application practice. Hands-on experience enable students to learn basic concepts in the Eyelash Technology field. Critical thinking skills are evaluated through assignments, testing, and practical applications.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Demonstrate competency in the process of applying eyelash extensions.
2. Demonstrate eyelash and eyebrow chemical services.
3. Distinguish the difference between classic, hybrid, and volume eyelash extensions.
4. Evaluate and explain other theories, practical applications, and procedures associated with Eyelash Technology.
5. Perform practical applications while working on course-related content.

COST2610 - Spray Tanning - 1 - Credits

Course Overview

Course Prefix
COST

Course Number
2610

Department
Technology, Design & Technical Ed

Course Title
Spray Tanning

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course demonstrates essential tanning care and contraindications, enabling effective client consultations for spray tanning. Students learn to operate tanning equipment correctly and develop practical skills to safely and efficiently administer spray tans for optimal results.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Course Learning Objectives

Course Learning Outcomes

1. Understand proper tanning care and contraindications in order to properly provide client consultation for spray tanning.
2. Demonstrate proper service for tanning equipment and care.
3. Gain knowledge and practical skills to safely and effectively administer spray tans.

COST2620 - Body Waxing - 1 - Credits

Course Overview

Course Prefix
COST

Course Number
2620

Department
Technology, Design & Technical Ed

Course Title
Body Waxing

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course focuses on essential hygiene and safety procedures for body waxing, including infection prevention. Students learn to use hard and soft wax safely, understand service contraindications, and apply proper techniques to ensure effective and safe waxing practices.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Course Learning Objectives

Course Learning Outcomes

1. Learn proper hygiene and safety procedures, including infection prevention and control, as it applies to waxing.
2. Properly and safely provide body waxing procedures while understanding different types of wax, including hard wax and soft wax.
3. Gain an understanding of service contraindications and wax safety as it applies to tools and techniques.

COST2700 - Student Instructor - 1 - 15 Credits

Course Overview

Course Prefix
COST

Course Number
2700

Department
Technology, Design & Technical Ed

Course Title
Student Instructor

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Prepares student for State Board Examinations and includes experience in teaching theory and lab. State Law requires 1000 clock hours for licensing.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
15

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
15

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
15

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
15

Lecture Hours Operator:
TO

Special Approval
Instructor permission

No Requirements

COST2800 - Nail Technician - 9 - Credits

Course Overview

Course Prefix
COST

Course Number
2800

Department
Technology, Design & Technical Ed

Course Title
Nail Technician

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Designed to educate students with the knowledge, skills and abilities to practice manicuring, pedicuring and nail enhancements. The 300 hours of instruction prepares the student to meet requirements for taking the state licensing examination.

Credit Hours

Credit Hours Min:
9

Contact Hours

Contact Hours Min:
9

Billing Hours

Billing Hours Min:
9

Lecture Hours

Lecture Hours Min:
9

No Requirements

COST2977 - Internship Experience - 3 - Credits

Course Overview

Course Prefix
COST

Course Number
2977

Department
Technology, Design & Technical Ed

Course Title
Internship Experience

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course provides supervised on-the-job training in cosmetology business functions. Learning objectives, hours worked and credit agreements are approved by the instructor.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Complete hours at an approved internship worksite.
2. Create measurable learning objectives for personal improvement projects.
3. Communicate effectively between relevant internship stakeholders.
4. Evaluate personal performance and workplace experience.
5. Reflect on the internship experience for personal lessons learned.

COST2988 - Special Problems - 1 - 3 Credits

Course Overview

Course Prefix
COST

Course Number
2988

Department
Technology, Design & Technical Ed

Course Title
Special Problems

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Designed as adjustable credit hours contingent on needed clock hours (to meet State Law requirement of 2000 clock hours).

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

No Requirements

CS1030 - Foundations of Computer Science (BPS) - 3 - Credits

Course Overview

Course Prefix
CS

Course Number
1030

Department
School of Computing

Course Title
Foundations of Computer Science (BPS)

General Education Attribute
BPS

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Investigation of computers and computing in today's society, including the basic scientific and mathematical concepts that underlie computer science, computing, and computer systems.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

CS1070 - Program Seminar - 1 - Credits

Course Overview

Course Prefix
CS

Course Number
1070

Department
School of Computing

Course Title
Program Seminar

Grade Mode
Pass/Fail

Repeat Status
NR

Course Description
This course introduces students to Computer Science and Software Engineering. Industry professionals share experiences and advice to help students navigate their degree programs and prepare for careers in technology. Students gain insights into industry practices and professional development strategies.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Course Learning Objectives

Course Learning Outcomes

1. **Identify** career paths and opportunities in computer science and software engineering through exposure to industry professionals
2. **Understand** the connection between academic coursework and real-world software development practices
3. **Develop** a plan for academic and professional growth aligned with industry expectations and career goals

CS1400 - Introduction to Computer Science--CS 1 - 4 - Credits

Course Overview

Course Prefix
CS

Course Number
1400

Department
School of Computing

Course Title
Introduction to Computer Science--CS 1

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Introduction to science of problem solving, programming, program development, algorithm analysis, and data structures. Students learn to develop correct software in a current programming language environment.

Credit Hours

Credit Hours
Min:
4

Contact Hours

Contact Hours
Min:
4

Billing Hours

Billing Hours
Min:
4

Lecture Hours

Lecture Hours
Min:
4

Simple Requisites

Prerequisite

Type
Prerequisite

Required

May be fulfilled by coursework or exam.

Fulfill ANY of the following requirements:

Coursework

Earn a minimum grade of C- in the following:

- MATH1050 - College Algebra (QL)
  OR STAT1080 - Foundations of Data Science (QL)

OR

Exam

ACT/SAT or AP Exam

- Math ACT score of 25 or higher or equivalent SAT score
- AP Calculus AB score of 3 or higher

CS1410 - Introduction to Computer Science--CS 2 (QI) - 3 - Credits

Course Overview

Course Prefix
CS

Course Number
1410

Department
School of Computing

Course Title
Introduction to Computer Science--CS 2 (QI)

General Education Attribute
QI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Introduction to science of problem solving, programming, program development, algorithm analysis, and data structures. Students will learn to develop correct software in a current programming language environment.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Earn a minimum grade of C- in the following:

- CS1400 - Introduction to Computer Science--CS 1

CS1420 - Accelerated Introduction to Computer Science--CS1 and CS2 (QI) - 7 - Credits

Course Overview

Course Prefix
CS

Course Number
1420

Department
School of Computing

Course Title
Accelerated Introduction to Computer Science--CS1 and CS2 (QI)

General Education Attribute
QI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description

This course is an introduction to the science of problem solving, program development, algorithm analysis, and data structures. It is designed for students with prior programming experience and provides a comprehensive foundation in fundamental computing concepts within a single semester.

Credit Hours

Credit Hours
Min:
7

Contact Hours

Contact Hours
Min:
7

Billing Hours

Billing Hours
Min:
7

Lecture Hours

Lecture Hours
Min:
7

Simple Requisites

Required

Type
Prerequisite

May be fulfilled by coursework or exam.

Fulfill ANY of the following requirements:

Coursework option

Earn a minimum grade of Ci in the following:

- MATH1050 - College Algebra (QL)
  OR STAT1080 - Foundations of Data Science (QL)

OR

Exam Option

ACT/SAT or AP Exam

- Math ACT score of 25 or higher or equivalent SAT score
- AP Calculus AB score of 3 or higher

Course Learning Objectives

Course Learning Outcomes

1. **Write** programs using fundamental programming constructs including variables, data types, control structures, and functions
2. **Apply** problem-solving strategies to break down problems into algorithmic solutions
3. **Debug** and test programs to identify and correct errors
4. **Explain** how programs execute and how data flows through a program
5. **Implement** common data structures (arrays, lists, stacks, queues, trees)
6. **Design** and develop object-oriented programs using classes, inheritance, and polymorphism
7. **Apply** recursive thinking and recursive algorithms to solve programming problems

CS1440 - Software Engineering Fundamentals - 3 - Credits

Course Overview

Course Prefix
CS

Course Number
1440

Department
School of Computing

Course Title
Software Engineering Fundamentals

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
CS1440 helps students become good software developers using the basic programming concepts acquired in CS 1400. This class is not focused on learning features or constructs of a programming language; rather, it teaches principles and practices that help manage complexity, improve software quality, and leverage existing or new technologies.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- CS1400 - Introduction to Computer Science--CS 1

CS2250 - Cooperative Work Experience - 1 - 9 Credits

Course Overview

Course Prefix
CS

Course Number
2250

Department
School of Computing

Course Title
Cooperative Work Experience

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Provides credit for students working at a participating firm under faculty supervision.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
9

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
9

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
9

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
9

Lecture Hours Operator:
TO

Special Approval

Instructor permission

Simple Requisites

Prerequisite

Type
Prerequisite

Required

2.5 GPA

CS2410 - Introduction to Event Driven Programming and GUI's - 3 - Credits

Course Overview

Course Prefix
CS

Course Number
2410

Department
School of Computing

Course Title
Introduction to Event Driven Programming and GUI's

Grade Mode
Standard Letter

Repeat Status
NR

Course Description

Students will learn the fundamentals of event-driven software, common graphical user interface (GUI) components, GUI development environments and a new programming language. They will also strengthen their understanding of essential object-oriented concepts, including classes, inheritance and polymorphism.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- CS1410 - Introduction to Computer Science--CS 2 (QI)

CS2420 - Algorithms and Data Structures--CS 3 (QI) - 3 - Credits

Course Overview

Course Prefix
CS

Course Number
2420

Department
School of Computing

Course Title
Algorithms and Data Structures--CS 3 (QI)

General Education Attribute
QI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description

Students learn various data structures and algorithms, and refine their programming skills. Course topics include strategies for the design and evaluation of algorithms, algorithm analysis, sorting, trees, graphs, hash tables, priority queues, disjoint sets, dynamic programming, and greedy algorithms.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Required

Type
Prerequisite

Required

Earn a minimum grade of C- in the following:

- CS1410 - Introduction to Computer Science--CS 2 (QI) **OR** ECE1410 - Computer Programming for Electrical and Computer Engineers II

(and proof of Java competency approved by the Computer Science Department)

Required

GPA of 2.0 or better

CS2610 - Developing Dynamic, Database-Driven Web Applications - 3 - Credits

Course Overview

Course Prefix
CS

Course Number
2610

Department
School of Computing

Course Title
Developing Dynamic, Database-Driven Web Applications

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students develop secure, dynamic, database-driven web applications and learn the fundamentals of building web pages. They add interactive capabilities with client-side and server-side technologies. Students learn about information representation, storage, retrieval and transmission in Internet-based environments.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Earn a minimum grade of C- in the following:

- CS2410 - Introduction to Event Driven Programming and GUI's

CS2810 - Computer Systems Organization and Architecture I - 3 - Credits

Course Overview

Course Prefix
CS

Course Number
2810

Department
School of Computing

Course Title
Computer Systems Organization and Architecture I

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Examines organization and architecture of computer systems. Covers terminology, data representation, Boolean Algebra, and combinational and sequential logic circuits as they apply to computer hardware and software.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Earn a minimum grade of C- in the following:

- CS1410 - Introduction to Computer Science--CS 2 (QI)

Required

2.0 GPA

CS3010 - Information Acquisition, Analysis and Presentation - 3 - Credits

Course Overview

Course Prefix
CS

Course Number
3010

Department
School of Computing

Course Title
Information Acquisition, Analysis and Presentation

General Education Attribute
CI, DSC, QI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Introduces students to use of scientific method and computer technology in analysis of multi-faceted problem, and presentation of that analysis. Each semester, built around single topic such as global warming.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete at least 1 course in the following course sets:

- Quantitative Literacy (QL) Course

CS3100 - Operating Systems and Concurrency - 3 - Credits

Course Overview

Course Prefix
CS

Course Number
3100

Department
School of Computing

Course Title
Operating Systems and Concurrency

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Design and implementation of operating systems. UNIX will be used as one example, but all categories of operating systems will be discussed. Presentation of the concept of concurrency as it applies to operating system design and application.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Not available to pre-Computer Science majors

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Earn a minimum grade of C- in the following:

- CS2420 - Algorithms and Data Structures--CS 3 (QI)

Required

2.0 GPA

CS3110 - Databases in Practice - 3 - Credits

Course Overview

Course Prefix
CS

Course Number
3110

Department
School of Computing

Course Title
Databases in Practice

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers the fundamentals of databases, including ER modeling, normalization, and SQL, emphasizing practical skills in designing and querying databases. Students gain experience with relational databases and graph databases.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Registration Restrictions
Not available to CS or AI SE majors in the pre-professional program

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Earn a minimum grade of C- in the following:

- CS2420 - Algorithms and Data Structures--CS 3 (QI)

Course Learning Objectives

Course Learning Outcomes

1. **Explain** the fundamental differences, strengths, and limitations of relational and graph databases.
2. **Design and implement** relational schemas and graph data models for real-world applications.
3. **Write and optimize** SQL and graph queries to store, retrieve, and traverse data efficiently.
4. **Analyze and select** appropriate database technologies based on application requirements and data access patterns.
5. **Build and integrate** applications that use relational and/or graph databases to solve a practical problem.

CS3200 - Mobile Application Development - 3 - Credits

Course Overview

Course Prefix
CS

Course Number
3200

Department
School of Computing

Course Title
Mobile Application Development

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers programming and application development for mobile computing devices such as mobile phones, music players, and tablet computers through the model-view-controller model of computing. It makes use of current technology and software development environments. A project is required.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- CS2410 - Introduction to Event Driven Programming and GUI's

CS3430 - Scientific Computing (DSC/QI) - 3 - Credits

Course Overview

Course Prefix
CS

Course Number
3430

Department
School of Computing

Course Title
Scientific Computing (DSC/QI)

General Education Attribute
DSC, QI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course examines algorithms and theories to solve numerical problems. Topics include linear systems, lu-decomposition, linear programming, differentiation, newton-raphson algorithm, richardson extrapolation, romberg integration, gradients, histograms, entropy, decision trees, random number generation, time series comparison, and visualization.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- CS1410 - Introduction to Computer Science--CS 2 (QI)
- MATH1210 - Calculus I (QL)
  OR MATH2270 - Linear Algebra (QI)

CS3450 - Introduction to Software Engineering (CI) - 4 - Credits

Course Overview

Course Prefix
CS

Course Number
3450

Department
School of Computing

Course Title
Introduction to Software Engineering (CI)

General Education Attribute
CI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Study of the fundamentals of software engineering principles and practices, including project management, configuration management, requirements definition, system analysis, design, testing, and deployment. Provides students with hands-on experience in a group software development project.

Credit Hours

Credit Hours
Min:
4

Contact Hours

Contact Hours
Min:
4

Billing Hours

Billing Hours
Min:
4

Lecture Hours

Lecture Hours
Min:
4

Registration Restrictions
Not available to CS majors in the pre-professional program

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:
- CS2420 - Algorithms and Data Structures--CS 3 (QI)
- CS2610 - Developing Dynamic, Database-Driven Web Applications

CS3460 - Modern C++ - 3 - Credits

Course Overview

Course Prefix
CS

Course Number
3460

Department
School of Computing

Course Title
Modern C++

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course is intended to develop the students understanding and use of the C++ programming language, with focus on its use as a systems language and emphasizing application/computational performance.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Earn a minimum greade of C- in the following:
- CS1440 - Software Engineering Fundamentals
- CS2420 - Algorithms and Data Structures--CS 3 (QI)

CS3680 - AI-First Web Development - 9 - Credits

Course Overview

Course Prefix
CS

Course Number
3680

Department
School of Computing

Course Title
AI-First Web Development

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course takes an AI-first approach to web development, teaching students how to effectively leverage AI tools throughout the entire development lifecycle. The course integrates topics that are traditionally taught across multiple computer science courses into a unified learning experience.

Credit Hours

Credit Hours
Min:
9

Contact Hours

Contact Hours
Min:
9

Billing Hours

Billing Hours
Min:
9

Lecture Hours

Lecture Hours
Min:
9

Registration Restrictions

Not available to CS or AI SE majors in the pre-professional program

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Earn a minimum grade of C- in the following:

- CS2420 - Algorithms and Data Structures--CS 3 (QI)

Course Learning Objectives

Course Learning Outcomes

1. **Explain** how AI-assisted development tools can be used responsibly and effectively in modern software development.
2. **Apply** AI-assisted workflows to build front-end and back-end web applications using modern frameworks and tools.
3. **Design and implement** databases, including schemas, SQL queries, and ORM-based data access.
4. **Analyze and select** appropriate architectures, frameworks, and database technologies for given application requirements.
5. **Design, build, and test** a complete full-stack application that demonstrates effective AI-assisted development practices.

CS4250 - Cooperative Work Experience - 1 - 9 Credits

Course Overview

Course Prefix
CS

Course Number
4250

Department
School of Computing

Course Title
Cooperative Work Experience

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Provides credit for students working at a participating firm under faculty supervision.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
9

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
9

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
9

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
9

Lecture Hours Operator:
TO

Registration Restrictions
Not available to pre-Computer Science majors

Special Approval
instructor permission

Simple Requisites

Prerequisite

Type
Prerequisite

Required

2.0 GPA

CS4320 - Applied Machine Learning - 3 - Credits

Course Overview

Course Prefix
CS

Course Number
4320

Department
School of Computing

Course Title
Applied Machine Learning

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides a foundational understanding of machine learning models as well as a demonstration of how these models can solve complex problems from image recognition to text prediction. Students gain hands-on experience implementing machine learning models using Python.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Earn a minimum grade of C- in the following:

- CS2420 - Algorithms and Data Structures--CS 3 (QI)

Required

2.0 GPA

CS4350 - Computer Science Teaching Methods - 3 - Credits

Course Overview

Course Prefix
CS

Course Number
4350

Department
School of Computing

Course Title
Computer Science Teaching Methods

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students learn effective methods and tools for teaching computer science at the secondary level by encouraging inquiry, creativity, and collaboration. Students also learn that pedagogical methods in computer science require intellectual rigor to develop relevant lessons.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Earn a minimum grade of C- in the following:

- CS1030 - Foundations of Computer Science (BPS)

CS4460 - Introduction to Cybersecurity - 3 - Credits

Course Overview

Course Prefix
CS

Course Number
4460

Department
School of Computing

Course Title
Introduction to Cybersecurity

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces the concepts of cybersecurity, vulnerabilities, and the mechanisms to secure a system. The course covers the basics of a variety of topics, including cryptography, authentication, web security, network security, system security, and software security.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Earn a minimum grade of C- in the following:

- CS2420 - Algorithms and Data Structures--CS 3 (QI)
- CS3100 - Operating Systems and Concurrency

Required

2.0 GPA

CS4610 - Modern Web Development - 3 - Credits

Course Overview

Course Prefix
CS

Course Number
4610

Department
School of Computing

Course Title
Modern Web Development

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students learn to deliver scalable, high-quality, and responsive web applications using the latest technology. Topics include single-page applications, asset management, real-time communication, analytics, responsive user-experience design and techniques, accessibility, high-coverage unit testing, and publishing/ hosting with cloud providers.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerquisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- CS2610 - Developing Dynamic, Database-Driven Web Applications

CS4680 - AI-First Software Engineering - 9 - Credits

Course Overview

Course Prefix
CS

Course Number
4680

Department
School of Computing

Course Title
AI-First Software Engineering

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course takes an AI-First approach to modern software engineering, integrating essential concepts from operating systems, software engineering, object-oriented development, and cloud computing for a cohesive learning experience.

Credit Hours

Credit Hours
Min:
9

Contact Hours

Contact Hours
Min:
9

Billing Hours

Billing Hours
Min:
9

Lecture Hours

Lecture Hours
Min:
9

Registration Restrictions

Not available to CS or AI SE majors in the pre-professional program

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Earn a minimum grade of C- in the following:

- CS2420 - Algorithms and Data Structures--CS 3 (QI)

Course Learning Objectives

Course Learning Outcomes

1. Apply AI-first software engineering principles to design and develop modern software applications
2. Develop, containerize, and deploy scalable applications using cloud services and container orchestration platforms
3. Implement DevOps practices and tools to automate software delivery pipelines and manage application lifecycles
4. Evaluate and select appropriate cloud architectures and services to meet specific application requirements and scalability needs
5. Synthesize operating system fundamentals with cloud-native development practices to build production-ready, AI-enhanced applications

CS4700 - Programming Languages - 3 - Credits

Course Overview

Course Prefix
CS

Course Number
4700

Department
School of Computing

Course Title
Programming Languages

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Theories of programming design and implementation. Introduction to variety of programming languages, showing how they represent trade-offs with respect to these theories.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Not available to pre-Computer Science majors

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Earn a minimum grade of C- in the following:

- CS2420 - Algorithms and Data Structures--CS 3 (QI)

Required

2.0 GPA

CS4890 - Topics in Computer Science (Topic) - 3 - Credits

Course Overview

Course Prefix
CS

Course Number
4890

Department
School of Computing

Course Title
Topics in Computer Science (Topic)

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Current topics in computer science as determined by advances in the field.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Registration Restrictions

Not available to pre-Computer Science majors

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Earn a minimum grade of C- in the following:

- CS2420 - Algorithms and Data Structures--CS 3 (QI)

Required

2.0 GPA

CS4950 - Undergraduate Research - 1 - 4 Credits

Course Overview

Course Prefix
CS

Course Number
4950

Department
School of Computing

Course Title
Undergraduate Research

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Participation in research projects, under supervision of a computer science faculty member.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
4

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
4

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
4

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
4

Lecture Hours Operator:
TO

Registration Restrictions

Not available to pre-Computer Science majors

Special Approval

Instructor permission

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Earn a minimum grade of C- in the following:

- CS2420 - Algorithms and Data Structures--CS 3 (QI)

Required

2.0 GPA

CS5000 - Theory of Computability - 3 - Credits

Course Overview

Course Prefix
CS

Course Number
5000

Department
School of Computing

Course Title
Theory of Computability

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course explores the theory of computation, including presentation of computability, decidability, and complexity. This course includes formal grammars, finite and pushdown automata, and turing machines.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

- Not available to pre-Computer Science majors
- Admission to Computer Science - BS

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Earn a minimum grade of C- in the following:

- CS2420 - Algorithms and Data Structures--CS 3 (QI)

CS5030 - High Performance Computing - 4 - Credits

Course Overview

Course Prefix
CS

Course Number
5030

Department
School of Computing

Dual-Listed Courses
CS6030 - High Performance Computing

Course Title
High Performance Computing

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces high-performance computing, leveraging parallel computing power to solve complex computational problems faster using clusters and supercomputers. Students learn the main programming models, optimized coding for modern multi-core processors, clusters, and modern computing architecture. This is a TEAMWORK course. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
4

Contact Hours

Contact Hours
Min:
4

Billing Hours

Billing Hours
Min:
4

Lecture Hours

Lecture Hours
Min:
4

Registration Restrictions
Not available to pre-Computer Science majors or graduate students in the Computer Science department

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Earn a minimum grade of C- in the following:

- CS2420 - Algorithms and Data Structures--CS 3 (QI)

CS5040 - Scientific Visualization for Data Science - 3 - Credits

Course Overview

Course Prefix
CS

Course Number
5040

Department
School of Computing

Dual-Listed Courses
CS6040 - Scientific Visualization for Data Science

Course Title
Scientific Visualization for Data Science

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces principles, methods and techniques for visual analysis of scientific data. Students create visualization of scalar, vector and tensor field data using state-of-the-art techniques. They acquire hands-on experience using visualization software on real science and engineering use cases. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Not available to pre-Computer Science majors or graduate students in the Computer Science department

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Earn a minimum grade of C- in the following:

- CS2420 - Algorithms and Data Structures--CS 3 (QI)

CS5050 - Advanced Algorithms - 3 - Credits

Course Overview

Course Prefix
CS

Course Number
5050

Department
School of Computing

Dual-Listed Courses
CS6050 - Advanced Algorithms

Course Title
Advanced Algorithms

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students study algorithms and their analysis, including: design by induction, algorithms involving sequences and sets, graph algorithms, geometric algorithms, algebraic algorithms, reductions, NP-completeness, and parallel algorithms. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
- Admission to Computer Science - BS
- not available to pre-Computer Science majors

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Earn a minimum grade of C- in the following:
- CS2420 - Algorithms and Data Structures--CS 3 (QI)

Required

CS5060 - Decision Making: Algorithms Under Uncertainty - 3 - Credits

Course Overview

Course Prefix
CS

Course Number
5060

Department
School of Computing

Dual-Listed Courses
CS6060 - Decision Making: Algorithms Under Uncertainty (Inactive)

Course Title
Decision Making: Algorithms Under Uncertainty

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students develop end-to-end tools for decision making under uncertainty. Key concepts include detecting uncertainty, working with little to no data, rapid adaption, and decision-making algorithms in multiple fields (robotics, fintech, economics, sociology). Course material is applied in real-world projects. This is a TEAMWORK course. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Not available to pre-Computer Science majors

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Earn a minimum grade of C- in the following:
- CS2420 - Algorithms and Data Structures--CS 3 (QI)

CS5080 - Data Mining - 3 - Credits

Course Overview

Course Prefix
CS

Course Number
5080

Department
School of Computing

Course Title
Data Mining

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course examines state-of-the-art research on time series (TS) data mining. It includes the applications of TS data in finance, medicine and numerous fields in science and engineering. Topics covered include data representation, anomaly detection, similarity search, classification, visualization of TS, etc. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Not available to pre-Computer Science majors

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Earn a minimum grade of C- in the following:

- CS2420 - Algorithms and Data Structures--CS 3 (QI)

CS5110 - MultiAgent Systems - 4 - Credits

Course Overview

Course Prefix
CS

Course Number
5110

Department
School of Computing

Dual-Listed Courses
CS6110 - MultiAgent Systems

Course Title
MultiAgent Systems

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces software systems that are both autonomous and social, engaging in cooperation, coordination, and negotiation. Students study coalitions, auctions, game theory, voting systems, and types of agents. This is a TEAMWORK course. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
4

Contact Hours

Contact Hours
Min:
4

Billing Hours

Billing Hours
Min:
4

Lecture Hours

Lecture Hours
Min:
4

Registration Restrictions
Not available to pre-Computer Science majors or graduate students in the Computer Science department

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Earn a minimum grade of C- in the following:

- CS2420 - Algorithms and Data Structures--CS 3 (QI)

CS5140 - Human Factors in Computing - 3 - Credits

Course Overview

Course Prefix
CS

Course Number
5140

Department
School of Computing

Dual-Listed Courses
CS6140 - Human Factors in Computing

Course Title
Human Factors in Computing

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students learn the significance and process of including end users in the technology design loop. Students learn principles of human-computer interaction along with methods of conducting human-subject studies to identify user needs and experiences with technology use. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Not available to graduate students in the Computer Science department

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Earn a minimum grade of C- in the following:

- CS2420 - Algorithms and Data Structures--CS 3 (QI)

CS5215 - Computer Networks and Security - 3 - Credits

Course Overview

Course Prefix
CS

Course Number
5215

Department
School of Computing

Dual-Listed Courses
CS6215 - Computer Networks and Security

Course Title
Computer Networks and Security

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course gives students hands-on experience in socket programming and various network attacks. The concepts of computer and mobile networks, and network security are introduced. Topics covered include various network layers, LAN, cellular networks, and network security. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Not available to pre-Computer Science majors or graduate students in the Computer Science department

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Earn a minimum grade of C- in the following:

- CS2420 - Algorithms and Data Structures--CS 3 (QI)

CS5270 - Introduction to Cloud Development - 3 - Credits

Course Overview

Course Prefix
CS

Course Number
5270

Department
School of Computing

Dual-Listed Courses
CS6270 - Introduction to Cloud Development

Course Title
Introduction to Cloud Development

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course addresses developing and deploying secure, available, scalable, reliable, and durable software applications in a cloud environment. Students gain hands-on skills with at least one specific cloud environment. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Not available to pre-Computer Science majors or graduate students in the Computer Science department

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Earn a minimum grade of C- in the following:

- CS2420 - Algorithms and Data Structures--CS 3 (QI)

CS5300 - Compiler Construction - 4 - Credits

Course Overview

Course Prefix
CS

Course Number
5300

Department
School of Computing

Course Title
Compiler Construction

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Review of programming language structures, translation, loading, execution, and storage allocation. Compilation of declarations, expressions, statements, and procedures/functions. Organization and design of a compiler.

Credit Hours

Credit Hours
Min:
4

Contact Hours

Contact Hours
Min:
4

Billing Hours

Billing Hours
Min:
4

Lecture Hours

Lecture Hours
Min:
4

Registration Restrictions

- Not available to pre-Computer Science majors
- Admission to Computer Science - BS.

Simple Requisites

Prerequisite

Type
Prerequisite

Rquired

Complete ALL of the following Courses:

- CS2810 - Computer Systems Organization and Architecture I
- CS2420 - Algorithms and Data Structures--CS 3 (QI)

CS5311 - Technology Startup Business Principles - 1 - Credits

Course Overview

Course Prefix
CS

Course Number
5311

Department
School of Computing

Dual-Listed Courses
CS6311 - Technology Startup Business Principles

Course Title
Technology Startup Business Principles

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students learn the processes and principles of establishing a software-based startup company. Topics include product ideation, business structure, revenue models, team formation, and communication. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Registration Restrictions
Not available to pre-Computer Science majors or graduate students in the Computer Science department

Special Approval
Advisor Permission

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Earn a minimum grade of C- in the following:

- CS2420 - Algorithms and Data Structures--CS 3 (QI)

CS5312 - Modern Technology Stacks - 4 - Credits

Course Overview

Course Prefix
CS

Course Number
5312

Department
School of Computing

Dual-Listed Courses
CS6312 - Modern Technology Stacks

Course Title
Modern Technology Stacks

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Review and analysis of current tools and technologies for full-stack software development, followed by implementation of appropriate tools for a large-scale software project. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
4

Contact Hours

Contact Hours
Min:
4

Billing Hours

Billing Hours
Min:
4

Lecture Hours

Lecture Hours
Min:
4

Registration Restrictions
Not available to pre-Computer Science majors or graduate students in the Computer Science department

Special Approval
Advisor Permission

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Earn a minimum grade of C- in the following:

- CS2420 - Algorithms and Data Structures--CS 3 (QI)

CS5313 - Technology Startup Software Engineering - 4 - Credits

Course Overview

Course Prefix
CS

Course Number
5313

Department
School of Computing

Dual-Listed Courses
CS6313 - Technology Startup Software Engineering

Course Title
Technology Startup Software Engineering

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course includes working in a team environment utilizing industry best practices to build a large-scale software product for a startup technology company. This is a TEAMWORK course. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
4

Contact Hours

Contact Hours
Min:
4

Billing Hours

Billing Hours
Min:
4

Lecture Hours

Lecture Hours
Min:
4

Registration Restrictions
Not available to pre-Computer Science majors or graduate students in the Computer Science department

Special Approval
Advisor Permission

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Earn a minimum grade of C- in the following:

- CS2420 - Algorithms and Data Structures--CS 3 (QI)

CS5314 - Technology Startup Business Launch - 1 - Credits

Course Overview

Course Prefix
CS

Course Number
5314

Department
School of Computing

Dual-Listed Courses
CS6314 - Technology Startup Business Launch

Course Title
Technology Startup Business Launch

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students learn and experience the process of launching a software-based company to customers in a real market. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Registration Restrictions
Not available to pre-Computer Science majors or graduate students in the Computer Science department

Special Approval
Advisor permission

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Earn a minimum grade of C- in the following:

- CS2420 - Algorithms and Data Structures--CS 3 (QI)

CS5315 - Computer Science Innovations - 4 - Credits

Course Overview

Course Prefix
CS

Course Number
5315

Department
School of Computing

Dual-Listed Courses
CS6315 - Computer Science Innovations

Course Title
Computer Science Innovations

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students bridge the gap between existing technology and the end goals of a custom software product by innovating new technologies needed to complete a custom software product. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
4

Contact Hours

Contact Hours
Min:
4

Billing Hours

Billing Hours
Min:
4

Lecture Hours

Lecture Hours
Min:
4

Registration Restrictions
Not available to pre-Computer Science majors or graduate students in the Computer Science department

Special Approval
Advisor Permission

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Earn a minimum grade of C- in the following:

- CS2420 - Algorithms and Data Structures--CS 3 (QI)

CS5316 - Commercial Software Engineering - 4 - Credits

Course Overview

Course Prefix
CS

Course Number
5316

Department
School of Computing

Dual-Listed Courses
CS6316 - Commercial Software Engineering

Course Title
Commercial Software Engineering

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students learn the processes and principles of deploying and maintaining a software and then experience it as they launch an actual software product. This is a TEAMWORK course. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
4

Contact Hours

Contact Hours
Min:
4

Billing Hours

Billing Hours
Min:
4

Lecture Hours

Lecture Hours
Min:
4

Registration Restrictions
Not available to pre-Computer Science majors or graduate students in the Computer Science department

Special Approval
Advisor permission

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Earn a minimum grade of C- in the following:

- CS2420 - Algorithms and Data Structures--CS 3 (QI)

CS5330 - Data-Driven Programming Language Processing - 3 - Credits

Course Overview

Course Prefix
CS

Course Number
5330

Department
School of Computing

Dual-Listed Courses
CS6330 - Data-Driven Programming Language Processing

Course Title
Data-Driven Programming Language Processing

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students gain a theoretical understanding of data-driven methods for programming language processing, alongside an introduction to programming languages, and explore how data analysis techniques can be applied to programming language analysis. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Not available to pre-Computer Science majors or graduate students in the Computer Science department

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Earn a minimum grade of C- in the following:

- CS2420 - Algorithms and Data Structures--CS 3 (QI)

CS5400 - Computer Graphics I - 4 - Credits

Course Overview

Course Prefix
CS

Course Number
5400

Department
School of Computing

Course Title
Computer Graphics I

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Introduction to concepts of graphical techniques. Digital and pictorial representation of information.

Credit Hours

Credit Hours
Min:
4

Contact Hours

Contact Hours
Min:
4

Billing Hours

Billing Hours
Min:
4

Lecture Hours

Lecture Hours
Min:
4

Registration Restrictions
Not available to pre-Computer Science majors

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Earn a minimum grade of C- in the following:

- CS2420 - Algorithms and Data Structures--CS 3 (QI)
- MATH2250 - Linear Algebra and Differential Equations (QI)
  OR MATH2270 - Linear Algebra (QI)

CS5410 - Game Development - 4 - Credits

Course Overview

Course Prefix
CS

Course Number
5410

Department
School of Computing

Course Title
Game Development

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
In this course, students explore technical game development. The course emphasizes integration of multiple computer science topics within a single application, including: graphics, AI, multi-threading, multi-core, networking, synchronization, optimization, and scripting languages. This is a TEAMWORK course.

Credit Hours

Credit Hours
Min:
4

Contact Hours

Contact Hours
Min:
4

Billing Hours

Billing Hours
Min:
4

Lecture Hours

Lecture Hours
Min:
4

Registration Restrictions
Not available to pre-Computer Science majors

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Earn a minimum grade of C- in the following:

- CS2420 - Algorithms and Data Structures--CS 3 (QI)
- CS3100 - Operating Systems and Concurrency

CS5470 - Introduction to Interactive Virtual Reality - 3 - Credits

Course Overview

Course Prefix
CS

Course Number
5470

Department
School of Computing

Dual-Listed Courses
CS6470 - Introduction to Interactive Virtual Reality

Course Title
Introduction to Interactive Virtual Reality

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students learn the core and state-of-art technologies of Virtual Reality (VR). Topics include head-tracked and head-mounted displays, 3D tracking, 3D user interfaces and interactions, VR applications, human perception, evaluation of VR, and other VR-related topics. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Not available to pre-Computer Science majors or graduate students in the Computer Science department

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Earn a minimum grade of C- in the following:

- CS2420 - Algorithms and Data Structures--CS 3 (QI)
- MATH2250 - Linear Algebra and Differential Equations (QI)

CS5510 - Robot Intelligence - 4 - Credits

Course Overview

Course Prefix
CS

Course Number
5510

Department
School of Computing

Dual-Listed Courses
CS6510 - Robot Intelligence

Course Title
Robot Intelligence

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students explore the field of robotics through the lens of decision-making algorithms. They examine critical aspects of autonomous systems from a machine learning and data science perspective, with emphasis on sensing, high-level objective planning, motion planning, and human interaction. This is a TEAMWORK course. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
4

Contact Hours

Contact Hours
Min:
4

Billing Hours

Billing Hours
Min:
4

Lecture Hours

Lecture Hours
Min:
4

Registration Restrictions

Not available to pre-Computer Science majors or graduate students in the Computer Science department

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Earn a minimum grade of C- in the following:

- CS2420 - Algorithms and Data Structures--CS 3 (QI)

CS5600 - Intelligent Systems - 4 - Credits

Course Overview

Course Prefix
CS

Course Number
5600

Department
School of Computing

Dual-Listed Courses
CS6600 - Intelligent Systems

Course Title
Intelligent Systems

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course examines the three main areas of AI: data-driven intelligence, natural language processing (NLP), and planning. Students learn models from big data, investigate systems that understand/generate natural language, and study problem-solving models in domains such as robot navigation and symbolic mathematics. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
4

Contact Hours

Contact Hours
Min:
4

Billing Hours

Billing Hours
Min:
4

Lecture Hours

Lecture Hours
Min:
4

Registration Restrictions

- Not available to pre-Computer Science majors
- Admission to Computer Science - BS.

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Earn a minimum grade of C- in the following:

- CS2420 - Algorithms and Data Structures--CS 3 (QI)
- CS3430 - Scientific Computing (DSC/QI)

CS5615 - Natural Language Processing - 3 - Credits

Course Overview

Course Prefix
CS

Course Number
5615

Department
School of Computing

Dual-Listed Courses
CS6615 - Natural Language Processing

Course Title
Natural Language Processing

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course offers students an introduction to the field of NLP, providing a comprehensive overview of state-of-the-art methods within this domain. Integrating hands-on sessions, the course aims to equip students with fundamental knowledge of AI and natural language. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Not available to pre-Computer Science majors or graduate students in the Computer Science department

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Earn a minimum grade of C- in the following:
- CS2420 - Algorithms and Data Structures--CS 3 (QI)

CS5620 - AI Applications In Education - 3 - Credits

Course Overview

Course Prefix
CS

Course Number
5620

Department
School of Computing

Course Title
AI Applications In Education

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces students to cognitive modeling, learner modeling, intelligent tutoring systems, adaptive educational systems, and natural language processing for automated feedback. Coursework involves using AI tools for prototype development and a course project of the student's own design. Additional coursework is required for those enrolled in the graduate-level course..

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Not available to pre-Computer Science majors or graduate students in the Computer Science department

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Earn a minimum grade of C- in the following:
- CS2420 - Algorithms and Data Structures--CS 3 (QI)

CS5640 - Artificial Neural Networks - 3 - Credits

Course Overview

Course Prefix
CS

Course Number
5640

Department
School of Computing

Dual-Listed Courses
CS6640 - Artificial Neural Networks

Course Title
Artificial Neural Networks

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course is designed for students to acquire foundational knowledge about deep neural networks and their applications across various AI tasks, including language understanding, speech and image recognition, machine translation, planning, as well as other topics. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Not available to pre-Computer Science majors or graduate students in the Computer Science department

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Earn a minimum grade of C- in the following:

- CS2420 - Algorithms and Data Structures--CS 3 (QI)

CS5661 - AI-First Capstone I - 12 - Credits

Course Overview

Course Prefix
CS

Course Number
5661

Department
School of Computing

Course Title
AI-First Capstone I

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This capstone course is the first part of a year-long capstone experience, providing students with the opportunity to design and begin building a substantial software system.

Credit Hours

Credit Hours
Min:
12

Contact Hours

Contact Hours
Min:
12

Billing Hours

Billing Hours
Min:
12

Lecture Hours

Lecture Hours
Min:
12

Registration Restrictions

Not available to CS or AI SE majors in the pre-professional program or to graduate students

Simple Requisites

Required

Type
Prerequisite

Required

Complete ALL of the following Courses:

- CS3680 - AI-First Web Development
- CS4680 - AI-First Software Engineering

Course Learning Objectives

Course Learning Outcomes

1. Design and architect a substantial software system using AI-First principles and advanced AI tools throughout the development lifecycle
2. Develop complex, scalable, and cloud-native applications that integrate security best practices and network security considerations
3. Apply functional programming, object-oriented design, and cloud development concepts to build production-ready software systems
4. Implement comprehensive testing, deployment, and delivery strategies for enterprise-level applications
5. Demonstrate mastery of end-to-end software development practices by successfully delivering a complete, substantial software project

CS5662 - AI-First Capstone II - 12 - Credits

Course Overview

Course Prefix
CS

Course Number
5662

Department
School of Computing

Course Title
AI-First Capstone II

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This capstone course is the second part of a year-long capstone experience, focusing on building, completing, and delivering a substantial software system.

Credit Hours

Credit Hours
Min:
12

Contact Hours

Contact Hours
Min:
12

Billing Hours

Billing Hours
Min:
12

Lecture Hours

Lecture Hours
Min:
12

Registration Restrictions
Not available to CS or AI SE majors in the pre-professional program or to graduate students.

Other Enrollment Recommendations
This course takes an AI-First approach to modern software engineering, integrating essential concepts from operating systems, software engineering, object-oriented development, and cloud computing for a cohesive learning experience.

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- CS5661 - AI-First Capstone I

Course Learning Objectives

Course Learning Outcomes

1. Design and architect a substantial software system using AI-First principles and advanced AI tools throughout the development lifecycle
1. Develop complex, scalable, and cloud-native applications that integrate security best practices and network security considerations
1. Apply functional programming, object-oriented design, and cloud development concepts to build production-ready software systems
1. Implement comprehensive testing, deployment, and delivery strategies for enterprise-level applications
1. Demonstrate mastery of end-to-end software development practices by successfully delivering a complete, substantial software project

CS5665 - Machine Learning for Data Science - 3 - Credits

Course Overview

Course Prefix
CS

Course Number
5665

Department
School of Computing

Dual-Listed Courses
CS6665 - Machine Learning for Data Science

Course Title
Machine Learning for Data Science

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces the theoretical foundations, algorithms, and methods of deriving valuable insights from data at scale (e.g., big data). Specifically, students study big data management and processing techniques, data analytics, statistical methods & models, and data visualization. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Not available to pre-Computer Science majors or graduate students in the Computer Science department

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Earn a minimum grade of C- in the following:

- CS2420 - Algorithms and Data Structures--CS 3 (QI)

CS5680 - Computer Vision: Foundations and Applications - 3 - Credits

Course Overview

Course Prefix
CS

Course Number
5680

Department
School of Computing

Dual-Listed Courses
CS6680 - Computer Vision: Foundations and Applications

Course Title
Computer Vision: Foundations and Applications

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides an introduction to theories and techniques of machine intelligence, with emphasis on image processing, pattern recognition, and computer vision. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Not available to pre-Computer Science majors or graduate students in the Computer Science department

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Earn a minimum grade of C- in the following:
- CS2420 - Algorithms and Data Structures--CS 3 (QI)

CS5700 - Object-Oriented Software Development - 4 - Credits

Course Overview

Course Prefix
CS

Course Number
5700

Department
School of Computing

Course Title
Object-Oriented Software Development

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students learn concepts of object-oriented software development (OOSD) and how to use those concepts during design, implementation, and testing to improve software quality. The course focuses on core OO principles, design solutions to reoccurring problems, best practices, and pitfalls.

Credit Hours

Credit Hours
Min:
4

Contact Hours

Contact Hours
Min:
4

Billing Hours

Billing Hours
Min:
4

Lecture Hours

Lecture Hours
Min:
4

Registration Restrictions
Not available to pre-Computer Science majors

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Earn a minimum grade of C- in the following:
- CS3450 - Introduction to Software Engineering (CI)

CS5710 - Software Security - 3 - Credits

Course Overview

Course Prefix
CS

Course Number
5710

Department
School of Computing

Dual-Listed Courses
CS6710 - Software Security

Course Title
Software Security

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students learn security concepts, methodologies, and techniques for operating systems and application software, including techniques like source code analysis, binary analysis, fuzzing, and reverse engineering, with applications in vulnerability discovery, malware analysis, risk mitigation, and digital forensics. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Not available to pre-Computer Science majors or graduate students in the Computer Science department

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Earn a minimum grade of C- in the following:

- CS2420 - Algorithms and Data Structures--CS 3 (QI)

CS5715 - Program Analysis and Its Application - 3 - Credits

Course Overview

Course Prefix
CS

Course Number
5715

Department
School of Computing

Dual-Listed Courses
CS6715 - Program Analysis and Its Application

Course Title
Program Analysis and Its Application

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students learn techniques and tools essential for understanding, improving, and securing software systems, covering static and dynamic analysis methods like data flow analysis, control flow analysis, symbolic execution, and model checking, with practical applications in bug detection, security analysis, and code maintainability. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Not available to pre-Computer Science majors or graduate students in the Computer Science department

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Earn a minimum grade of C- in the following:

- CS2420 - Algorithms and Data Structures--CS 3 (QI)

CS5750 - Computing Education Research - 3 - Credits

Course Overview

Course Prefix
CS

Course Number
5750

Department
School of Computing

Dual-Listed Courses
CS6750 - Computing Education Research

Course Title
Computing Education Research

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces topics in computing education research, including learning science, cognitive science, motivation and affect, statistical methods, qualitative methods, pedagogy, assessment, equity and diversity, programming paradigms, and computing for other disciplines. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Not available to pre-Computer Science majors or graduate students in the Computer Science department

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Earn a minimum grade of C- in the following:

- STAT2300 - Business Statistics (QL)
  OR STAT3000 - Statistics for Scientists (QI)

CS5800 - Introduction to Database Systems - 3 - Credits

Course Overview

Course Prefix
CS

Course Number
5800

Department
School of Computing

Course Title
Introduction to Database Systems

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course compares of various database systems, normal forms, protection, concurrency, security and integrity, and distributed and object-oriented systems.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Not available to pre-Computer Science majors

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Earn a minimum grade of C- in the following:

- CS2420 - Algorithms and Data Structures--CS 3 (QI)

CS5820 - Interactive Information Visualization for Data Science - 3 - Credits

Course Overview

Course Prefix
CS

Course Number
5820

Department
School of Computing

Dual-Listed Courses
CS6820 - Interactive Information Visualization for Data Science

Course Title
Interactive Information Visualization for Data Science

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces design principles and techniques for visualizing data. Students learn how visual representations support analysis and understanding of complex data and how to design effective and interactive visualizations. This is a TEAMWORK course. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Not available to pre-Computer Science majors or graduate students in the Computer Science department

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Earn a minimum grade of C- in the following:

- CS2420 - Algorithms and Data Structures--CS 3 (QI)

CS5830 - Data Science in Practice - 3 - Credits

Course Overview

Course Prefix
CS

Course Number
5830

Department
School of Computing

Dual-Listed Courses
CS6830 - Data Science in Practice

Course Title
Data Science in Practice

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
In this project-based course, students from multiple disciplines work in teams to analyze data from real-world projects. Project teams group technical students from CS with domain experts from outside of CS to analyze data using state-of-the-art data science tools and techniques. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Not available to pre-Computer Science majors or graduate students in the Computer Science department

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Earn a minimum grade of C- in the following:

- CS2420 - Algorithms and Data Structures--CS 3 (QI)

CS5840 - Graph Mining - 3 - Credits

Course Overview

Course Prefix
CS

Course Number
5840

Department
School of Computing

Dual-Listed Courses
CS6840 - Graph Mining

Course Title
Graph Mining

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces data mining techniques (e.g., graph neural networks) to extract meaningful patterns from graph data. The course also explores social network analysis as the study of social ties through the lens of graph theory. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Not available to pre-Computer Science majors or graduate students in the Computer Science department

Other Enrollment Recommendations
MATH2270 LINEAR ALGEBRA (QI); CS5665 MACHINE LEARNING FOR DATA SCI

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Earn a minimum grade of C- in the following:

- CS2420 - Algorithms and Data Structures--CS 3 (QI)

CS5850 - Introduction to Data Analysis - 3 - Credits

Course Overview

Course Prefix
CS

Course Number
5850

Department
School of Computing

Dual-Listed Courses
CS6850 - Introduction to Data Analysis

Course Title
Introduction to Data Analysis

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course is intended for students interested in gaining hands-on experience applying computational techniques to solve big data analysis problems. The introduced topics help students learn practical tools to perform the necessary steps of a data analysis project pipeline. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Not available to pre-Computer Science majors or graduate students in the Computer Science department

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Earn a minimum grade of C- in the following:

- CS2420 - Algorithms and Data Structures--CS 3 (QI)

CS5890 - Topics in Computer Science (Topic) - 1 - 4 Credits

Course Overview

Course Prefix
CS

Course Number
5890

Department
School of Computing

Course Title
Topics in Computer Science (Topic)

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Current topics in computer science as determined by advances in the field.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
4

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
4

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
4

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
4

Lecture Hours Operator:
TO

Registration Restrictions

Not available to pre-Computer Science majors or graduate students in the Computer Science department

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Earn a minimum grade of C- in the following:

- CS2420 - Algorithms and Data Structures--CS 3 (QI)

CS5950 - Independent Study - 3 - Credits

Course Overview

Course Prefix
CS

Course Number
5950

Department
School of Computing

Course Title
Independent Study

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course provides the independent study of selected topics.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Registration Restrictions

Not available to pre-Computer Science majors

Special Approval
Instructor permission

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Earn a minimum grade of C- in the following:

- CS2420 - Algorithms and Data Structures--CS 3 (QI)

CS6030 - High Performance Computing - 4 - Credits

Course Overview

Course Prefix
CS

Course Number
6030

Department
School of Computing

Dual-Listed Courses
CS5030 - High Performance Computing

Course Title
High Performance Computing

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces high-performance computing, leveraging parallel computing power to solve complex computational problems faster using clusters and supercomputers. Students learn the main programming models, optimized coding for modern multi-core processors, clusters, and modern computing architecture. This is a TEAMWORK course. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
4

Contact Hours

Contact Hours
Min:
4

Billing Hours

Billing Hours
Min:
4

Lecture Hours

Lecture Hours
Min:
4

Registration Restrictions
Enrollment in one of the following programs:

- MCS (Master of Computer Science)
- MS in Computer Science
- MS in Data Science
- PhD in Computer Science

No Requirements

CS6040 - Scientific Visualization for Data Science - 3 - Credits

Course Overview

Course Prefix
CS

Course Number
6040

Department
School of Computing

Dual-Listed Courses
CS5040 - Scientific Visualization for Data Science

Course Title
Scientific Visualization for Data Science

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces principles, methods and techniques for visual analysis of scientific data. Students create visualization of scalar, vector and tensor field data using state-of-the-art techniques. They acquire hands-on experience using visualization software on real science and engineering use cases. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Enrollment in one of the following programs:

- Master of Computer Science - MCS
- Computer Science - MS
- Data Science - MS
- Computer Science - PhD

No Requirements

CS6050 - Advanced Algorithms - 3 - Credits

Course Overview

Course Prefix
CS

Course Number
6050

Department
School of Computing

Dual-Listed Courses
CS5050 - Advanced Algorithms

Course Title
Advanced Algorithms

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students study algorithms and their analysis, including: design by induction, algorithms involving sequences and sets, graph algorithms, geometric algorithms, algebraic algorithms, reductions, NP-completeness, and parallel algorithms. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Enrollment in one of the following programs:

MCS (Master of Computer Science)
MS in Computer Science
MS in Data Science
PhD in Computer Science

No Requirements

CS6110 - MultiAgent Systems - 4 - Credits

Course Overview

Course Prefix
CS

Course Number
6110

Department
School of Computing

Dual-Listed Courses
CS5110 - MultiAgent Systems

Course Title
MultiAgent Systems

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces software systems that are both autonomous and social, engaging in cooperation, coordination, and negotiation. Students study coalitions, auctions, game theory, voting systems, and types of agents. This is a TEAMWORK course. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
4

Contact Hours

Contact Hours
Min:
4

Billing Hours

Billing Hours
Min:
4

Lecture Hours

Lecture Hours
Min:
4

Registration Restrictions
Admission to one of the following programs:

- Master of Computer Science - MCS
- Computer Science - MS
- Data Science - MS
- Computer Science - PhD

No Requirements

CS6140 - Human Factors in Computing - 3 - Credits

Course Overview

Course Prefix
CS

Course Number
6140

Department
School of Computing

Dual-Listed Courses
CS5140 - Human Factors in Computing

Course Title
Human Factors in Computing

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students learn the significance and process of including end users in the technology design loop. Students learn principles of human-computer interaction along with methods of conducting human-subject studies to identify user needs and experiences with technology use. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Admission to one of the following programs:

- Master of Computer Science - MCS
- Computer Science - MS
- Data Science - MS
- Computer Science - PhD

No Requirements

CS6215 - Computer Networks and Security - 3 - Credits

Course Overview

Course Prefix
CS

Course Number
6215

Department
School of Computing

Dual-Listed Courses
CS5215 - Computer Networks and Security

Course Title
Computer Networks and Security

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course gives students hands-on experience in socket programming and various network attacks. The concepts of computer and mobile networks, and network security are introduced. Topics covered include various network layers, LAN, cellular networks, and network security. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Admission to one of the following programs:

- Master of Computer Science - MCS
- Computer Science - MS
- Data Science - MS
- Computer Science - PhD

No Requirements

CS6250 - Cooperative Work Experience, Graduate - 1 - 9 Credits

Course Overview

Course Prefix
CS

Course Number
6250

Department
School of Computing

Course Title
Cooperative Work Experience, Graduate

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
Provides credit for students working at a participating firm under faculty supervision.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
9

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
9

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
9

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
9

Lecture Hours Operator:
TO

Registration Restrictions
Admission to Computer Science master's or PhD program

Special Approval
Instructor permission

Simple Requisites

Prerequisite

Type
Prerequisite

Required

3.0 GPA

CS6270 - Introduction to Cloud Development - 3 - Credits

Course Overview

Course Prefix
CS

Course Number
6270

Department
School of Computing

Dual-Listed Courses
CS5270 - Introduction to Cloud Development

Course Title
Introduction to Cloud Development

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course addresses developing and deploying secure, available, scalable, reliable, and durable software applications in a cloud environment. Students gain hands-on skills with at least one specific cloud environment. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Registration Restrictions

Enrollment in one of the following programs

- MCS (Master of Computer Science)
- MS in Computer Science
- MS in Data Science
- PhD in Computer Science

CS6311 - Technology Startup Business Principles - 1 - Credits

Course Overview

Course Prefix
CS

Course Number
6311

Department
School of Computing

Dual-Listed Courses
CS5311 - Technology Startup Business Principles

Course Title
Technology Startup Business Principles

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students learn the processes and principles of establishing a software-based startup company. Topics include product ideation, business structure, revenue models, team formation, and communication. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Registration Restrictions
Admission to one of the following programs:

- Master of Computer Science - MCS
- Computer Science - MS

Special Approval
Advisor Permission

CS6312 - Modern Technology Stacks - 4 - Credits

Course Overview

Course Prefix
CS

Course Number
6312

Department
School of Computing

Dual-Listed Courses
CS5312 - Modern Technology Stacks

Course Title
Modern Technology Stacks

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Review and analysis of current tools and technologies for full-stack software development, followed by implementation of appropriate tools for a large-scale software project. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
4

Contact Hours

Contact Hours
Min:
4

Billing Hours

Billing Hours
Min:
4

Lecture Hours

Lecture Hours
Min:
4

Registration Restrictions
Admission to one of the following programs:

- Master of Computer Science - MCS
- Computer Science - MS

Special Approval
Advisor Permission

CS6313 - Technology Startup Software Engineering - 4 - Credits

Course Overview

Course Prefix
CS

Course Number
6313

Department
School of Computing

Dual-Listed Courses
CS5313 - Technology Startup Software Engineering

Course Title
Technology Startup Software Engineering

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course includes working in a team environment utilizing industry best practices to build a large-scale software product for a startup technology company. This is a TEAMWORK course. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
4

Contact Hours

Contact Hours
Min:
4

Billing Hours

Billing Hours
Min:
4

Lecture Hours

Lecture Hours
Min:
4

Registration Restrictions
Admission to one of the following programs:

- Master of Computer Science - MCS
- Computer Science - MS

Special Approval
Advisor Permission

CS6314 - Technology Startup Business Launch - 1 - Credits

Course Overview

Course Prefix
CS

Course Number
6314

Department
School of Computing

Dual-Listed Courses
CS5314 - Technology Startup Business Launch

Course Title
Technology Startup Business Launch

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students learn and experience the process of launching a software-based company to customers in a real market. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Registration Restrictions
Admission to one of the following programs:

- Master of Computer Science - MCS
- Computer Science - MS

Special Approval
Advisor Permission

CS6315 - Computer Science Innovations - 4 - Credits

Course Overview

Course Prefix
CS

Course Number
6315

Department
School of Computing

Dual-Listed Courses
CS5315 - Computer Science Innovations

Course Title
Computer Science Innovations

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students bridge the gap between existing technology and the end goals of a custom software product by innovating new technologies needed to complete a custom software product. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
4

Contact Hours

Contact Hours
Min:
4

Billing Hours

Billing Hours
Min:
4

Lecture Hours

Lecture Hours
Min:
4

Registration Restrictions
Admission to one of the following programs:

- Master of Computer Science - MCS
- Computer Science - MS

Special Approval
Advisor Permission

CS6316 - Commercial Software Engineering - 4 - Credits

Course Overview

Course Prefix
CS

Course Number
6316

Department
School of Computing

Dual-Listed Courses
CS5316 - Commercial Software Engineering

Course Title
Commercial Software Engineering

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students learn the processes and principles of deploying and maintaining a software and then experience it as they launch an actual software product. This is a TEAMWORK course. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
4

Contact Hours

Contact Hours
Min:
4

Billing Hours

Billing Hours
Min:
4

Lecture Hours

Lecture Hours
Min:
4

Registration Restrictions
Admission to one of the following programs:

- Master of Computer Science - MCS
- Computer Science - MS

Special Approval
Advisor Permission

CS6330 - Data-Driven Programming Language Processing - 3 - Credits

Course Overview

Course Prefix
CS

Course Number
6330

Department
School of Computing

Dual-Listed Courses
CS5330 - Data-Driven Programming Language Processing

Course Title
Data-Driven Programming Language Processing

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students gain a theoretical understanding of data-driven methods for programming language processing, alongside an introduction to programming languages, and explore how data analysis techniques can be applied to programming language analysis. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Admission to one of the following programs:

- Master of Computer Science - MCS
- Computer Science - MS
- Data Science - MS
- Computer Science - PhD

CS6400 - Computer Graphics II - 3 - Credits

Course Overview

Course Prefix
CS

Course Number
6400

Department
School of Computing

Course Title
Computer Graphics II

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Study of computer rendering of three-dimensional objects. Object representation, hidden surface removal, and shading. Ray tracing of synthetic scenes using mathematically defined surfaces.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Admission to Computer Science master's or PhD program

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Earn a minimum grade of B- in the following:

- CS5400 - Computer Graphics I

Required

3.0 GPA

CS6460 - Usable Privacy and Security - 3 - Credits

Course Overview

Course Prefix
CS

Course Number
6460

Department
School of Computing

Course Title
Usable Privacy and Security

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course addresses human factors of privacy and security, with emphasis on user's privacy perceptions, security behavior, and designing and building secure systems with a human-centric focus. Students apply basic principles of human-computer interaction in designing secure and privacy-protective systems.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Enrollment in one of the following programs:

- MCS (Master of Computer Science)
- MS in Computer Science
- MS in Data Science
- PhD in Computer Science

CS6470 - Introduction to Interactive Virtual Reality - 3 - Credits

Course Overview

Course Prefix
CS

Course Number
6470

Department
School of Computing

Dual-Listed Courses
CS5470 - Introduction to Interactive Virtual Reality

Course Title
Introduction to Interactive Virtual Reality

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students learn the core and state-of-art technologies of Virtual Reality (VR). Topics include head-tracked and head-mounted displays, 3D tracking, 3D user interfaces and interactions, VR applications, human perception, evaluation of VR, and other VR-related topics. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Admission to one of the following programs:

- Master of Computer Science - MCS
- Computer Science - MS
- Data Science - MS
- Computer Science - PhD

Special Approval
Instructor permission

No Requirements

CS6510 - Robot Intelligence - 4 - Credits

Course Overview

Course Prefix
CS

Course Number
6510

Department
School of Computing

Dual-Listed Courses
CS5510 - Robot Intelligence

Course Title
Robot Intelligence

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students explore the field of robotics through the lens of decision-making algorithms. They examine critical aspects of autonomous systems from a machine learning and data science perspective, with emphasis on sensing, high-level objective planning, motion planning, and human interaction. This is a TEAMWORK course. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
4

Contact Hours

Contact Hours
Min:
4

Billing Hours

Billing Hours
Min:
4

Lecture Hours

Lecture Hours
Min:
4

Registration Restrictions

Enrollment in one of the following programs:

- Master of Computer Science - MCS
- Computer Science - MS
- Data Science - MS
- Computer Science - PhD

Special Approval
Instructor permission

No Requirements

CS6600 - Intelligent Systems - 4 - Credits

Course Overview

Course Prefix
CS

Course Number
6600

Department
School of Computing

Dual-Listed Courses
CS5600 - Intelligent Systems

Course Title
Intelligent Systems

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course examines the three main areas of AI: data-driven intelligence, natural language processing (NLP), and planning. Students learn models from big data, investigate systems that understand/generate natural language, and study problem-solving models in domains such as robot navigation and symbolic mathematics. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
4

Contact Hours

Contact Hours
Min:
4

Billing Hours

Billing Hours
Min:
4

Lecture Hours

Lecture Hours
Min:
4

Registration Restrictions

Enrollment in one of the following programs:

- MCS (Master of Computer Science)
- MS in Computer Science
- MS in Data Science
- PhD in Computer Science

CS6615 - Natural Language Processing - 3 - Credits

Course Overview

Course Prefix
CS

Course Number
6615

Department
School of Computing

Dual-Listed Courses
CS5615 - Natural Language Processing

Course Title
Natural Language Processing

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course offers students an introduction to the field of NLP, providing a comprehensive overview of state-of-the-art methods within this domain. Integrating hands-on sessions, the course aims to equip students with fundamental knowledge of AI and natural language. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Admission to one of the following programs:

- Master of Computer Science - MCS
- Computer Science - MS
- Data Science - MS
- Computer Science - PhD

CS6620 - AI Applications In Education - 3 - Credits

Course Overview

Course Prefix
CS

Course Number
6620

Department
School of Computing

Dual-Listed Courses
CS5620 - AI Applications In Education

Course Title
AI Applications In Education

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces students to cognitive modeling, learner modeling, intelligent tutoring systems, adaptive educational systems, and natural language processing for automated feedback. Coursework involves using AI tools for prototype development and a course project of the student's own design. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Admission to one of the following programs:

- Master of Computer Science - MCS
- Computer Science - MS
- Data Science - MS
- Computer Science - PhD

CS6630 - Fuzzy Logic and its Application - 3 - Credits

Course Overview

Course Prefix
CS

Course Number
6630

Department
School of Computing

Course Title
Fuzzy Logic and its Application

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces students to machine learning and problem solving techniques based on fuzzy logic.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Enrollment in one of the following programs:

- MCS (Master of Computer Science)
- MS in Computer Science
- MS in Data Science
- PhD in Computer Science

No Requirements

CS6640 - Artificial Neural Networks - 3 - Credits

Course Overview

Course Prefix
CS

Course Number
6640

Department
School of Computing

Dual-Listed Courses
CS5640 - Artificial Neural Networks

Course Title
Artificial Neural Networks

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course is designed for students to acquire foundational knowledge about deep neural networks and their applications across various AI tasks, including language understanding, speech and image recognition, machine translation, planning, as well as other topics. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Admission to one of the following programs:

- Master of Computer Science - MCS
- Computer Science - MS
- Data Science: Computer Science Specialization - MS
- Computer Science - PhD

CS6650 - Neural Networks - 3 - Credits

Course Overview

Course Prefix
CS

Course Number
6650

Department
School of Computing

Course Title
Neural Networks

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This advanced course covers theories and techniques of machine intelligence using neural networks. It emphasizes various neural network paradigms and the types of problems they are best suited to solve.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Enrollment in one of the following programs:

- MCS (Master of Computer Science)
- MS in Computer Science
- MS in Data Science
- PhD in Computer Science

Special Approval
Instructor permission

CS6665 - Machine Learning for Data Science - 3 - Credits

Course Overview

Course Prefix
CS

Course Number
6665

Department
School of Computing

Dual-Listed Courses
CS5665 - Machine Learning for Data Science

Course Title
Machine Learning for Data Science

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces the theoretical foundations, algorithms, and methods of deriving valuable insights from data at scale (e.g., big data). Specifically, students study big data management and processing techniques, data analytics, statistical methods and models, data visualization. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Admission to one of the following programs:

- Master of Computer Science - MCS
- Computer Science - MS
- Data Science - MS
- Computer Science - PhD

CS6675 - Advanced Data Mining - 3 - Credits

Course Overview

Course Prefix
CS

Course Number
6675

Department
School of Computing

Course Title
Advanced Data Mining

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides a deep dive into advanced topics in data mining, data analysis, and pattern recognition. The course explores high-dimensional data, graph and temporal data, frequent patterns, and current trends and ethical issues of data mining.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Enrollment in one of the following programs:

- Master of Computer Science - MCS
- Computer Science - MS
- Data Science - MS
- Computer Science - PhD

CS6680 - Computer Vision: Foundations and Applications - 3 - Credits

Course Overview

Course Prefix
CS

Course Number
6680

Department
School of Computing

Dual-Listed Courses
CS5680 - Computer Vision: Foundations and Applications

Course Title
Computer Vision: Foundations and Applications

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides an introduction to theories and techniques of machine intelligence, with emphasis on image processing, pattern recognition, and computer vision. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Enrollment in one of the following programs:

- Master of Computer Science - MCS
- Computer Science - MS
- Data Science - MS
- Computer Science - PhD

No Requirements

CS6710 - Software Security - 3 - Credits

Course Overview

Course Prefix
CS

Course Number
6710

Department
School of Computing

Dual-Listed Courses
CS5710 - Software Security

Course Title
Software Security

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students learn security concepts, methodologies, and techniques for operating systems and application software, including techniques like source code analysis, binary analysis, fuzzing, and reverse engineering, with applications in vulnerability discovery, malware analysis, risk mitigation, and digital forensics. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Admission to one of the following programs:

- Master of Computer Science - MCS
- Computer Science - MS
- Data Science - MS C
- Computer Science - PhD

No Requirements

CS6715 - Program Analysis and Its Application - 3 - Credits

Course Overview

Course Prefix
CS

Course Number
6715

Department
School of Computing

Dual-Listed Courses
CS5715 - Program Analysis and Its Application

Course Title
Program Analysis and Its Application

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students learn techniques and tools essential for understanding, improving, and securing software systems, covering static and dynamic analysis methods like data flow analysis, control flow analysis, symbolic execution, and model checking, with practical applications in bug detection, security analysis, and code maintainability. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Admission to one of the following programs:

- Master of Computer Science - MCS
- Computer Science - MS
- Data Science - MS
- Computer Science - PhD

No Requirements

CS6750 - Computing Education Research - 3 - Credits

Course Overview

Course Prefix
CS

Course Number
6750

Department
School of Computing

Dual-Listed Courses
CS5750 - Computing Education Research

Course Title
Computing Education Research

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces topics in computing education research, including learning science, cognitive science, motivation and affect, statistical methods, qualitative methods, pedagogy, assessment, equity and diversity, programming paradigms, and computing for other disciplines. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Admission to one of the following programs:

- Master of Computer Science - MCS
- Computer Science - MS
- Data Science - MS
- Computer Science - PhD

CS6800 - Advanced Database Systems - 3 - Credits

Course Overview

Course Prefix
CS

Course Number
6800

Department
School of Computing

Course Title
Advanced Database Systems

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Covers advanced topics in database systems, including XML, OODBMS, query optimization, query processing, deductive databases, concurrency, theory of relational databases, normalization, and recovery.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Admission to Computer Science master's or PhD program

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Earn a minimum grade of B- in the following:

- CS5800 - Introduction to Database Systems

Rquired

3.0 GPA

CS6810 - Wavelets and Wavelet Algorithms - 3 - Credits

Course Overview

Course Prefix
CS

Course Number
6810

Department
School of Computing

Dual-Listed Courses
CS7810 - Wavelets and Wavelet Algorithms

Course Title
Wavelets and Wavelet Algorithms

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course offers a hands-on, programmatic introduction to the nature and computation of wavelets for the analysis and synthesis of digital image and audio data. The course emphasizes the practical significance of wavelet algorithms in computer vision and audio analysis and encourages provocative questions, discussions, and creative thinking. CS 6810 and CS 7810 are cross listed, but CS 7810 requires additional work.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Enrollment in one of the following programs:

- Master of Computer Science - MCS
- Computer Science - MS
- Data Science - MS
- Computer Science - PhD

Special Approval
Instructor permission

No Requirements

CS6820 - Interactive Information Visualization for Data Science - 3 - Credits

Course Overview

Course Prefix
CS

Course Number
6820

Department
School of Computing

Dual-Listed Courses
CS5820 - Interactive Information Visualization for Data Science

Course Title
Interactive Information Visualization for Data Science

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces design principles and techniques for visualizing data. Students learn how visual representations support analysis and understanding of complex data and how to design effective and interactive visualizations. This is a TEAMWORK course. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Enrollment one of the following programs:

- Master of Computer Science - MCS
- Computer Science - MS
- Data Science - MS
- Computer Science - PhD

Special Approval
Instructor permission

No Requirements

CS6830 - Data Science in Practice - 3 - Credits

Course Overview

Course Prefix
CS

Course Number
6830

Department
School of Computing

Dual-Listed Courses
CS5830 - Data Science in Practice

Course Title
Data Science in Practice

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
In this project-based course, students from multiple disciplines work in teams to analyze data from real-world projects. Project teams group technical students from CS with domain experts from outside of CS to analyze data using state-of-the-art data science tools and techniques. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Admission to one of the following programs:

- Master of Computer Science - MCS
- Computer Science - MS
- Data Science - MS
- Computer Science - PhD

CS6840 - Graph Mining - 3 - Credits

Course Overview

Course Prefix
CS

Course Number
6840

Department
School of Computing

Dual-Listed Courses
CS5840 - Graph Mining

Course Title
Graph Mining

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces data mining techniques (e.g., graph neural networks) to extract meaningful patterns from graph data. The course also explores social network analysis as the study of social ties through the lens of graph theory. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Admission to one of the following programs:

- Master of Computer Science - MCS
- Computer Science - MS
- Data Science - MS
- Computer Science - PhD

CS6850 - Introduction to Data Analysis - 3 - Credits

Course Overview

Course Prefix
CS

Course Number
6850

Department
School of Computing

Dual-Listed Courses
CS5850 - Introduction to Data Analysis

Course Title
Introduction to Data Analysis

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course is intended for students interested in gaining hands-on experience applying computational techniques to solve big data analysis problems. The introduced topics help students learn practical tools to perform the necessary steps of a data analysis project pipeline. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Registration Restrictions
Admission to one of the following programs:

- Master of Computer Science - MCS
- Computer Science - MS
- Data Science - MS
- Computer Science - PhD

No Requirements

CS6890 - Topics in Computer Science (Topic) - 1 - 4 Credits

Course Overview

Course Prefix
CS

Course Number
6890

Department
School of Computing

Course Title
Topics in Computer Science (Topic)

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course explores current topics in computer science as determined by advances in the field.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
4

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
4

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
4

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
4

Lecture Hours Operator:
TO

Registration Restrictions
Enrollment in one of the following programs:

- Master of Computer Science - MCS
- Computer Science - MS
- Data Science - MS
- Computer Science - PhD

No Requirements

CS6900 - Seminar - 1 - Credits

Course Overview

Course Prefix
CS

Course Number
6900

Department
School of Computing

Course Title
Seminar

Grade Mode
Pass/Fail

Repeat Status
NR

Course Description
This course covers a series of one-hour seminars on current research topics presented by computer science faculty.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Registration Restrictions

Admission to one of the following programs:

- Computer Science - MS
- Data Science - MS
- Computer Science - PhD

No Requirements

CS6950 - Directed Readings in Computer Science - 3 - Credits

Course Overview

Course Prefix
CS

Course Number
6950

Department
School of Computing

Course Title
Directed Readings in Computer Science

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Directed reading on advanced topics in computer science.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Admission to Computer Science master's or PhD program

Special Approval
Instructor Permission

Simple Requisites

Prerequisite

Type
Prerequisite

Required

3.0 GPA

CS6970 - Thesis and Research - 1 - 9 Credits

Course Overview

Course Prefix
CS

Course Number
6970

Department
School of Computing

Course Title
Thesis and Research

Grade Mode
Temporary Pass/Fail

Repeat Status
RP

Course Description
Graduate research in computer science.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
9

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
9

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
9

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
9

Lecture Hours Operator:
TO

Registration Restrictions
Admission to Computer Science master's or PhD program

Special Approval
Instructor Permission

Simple Requisites

Prerequisite

Type
Prerequisite

Required

3.0 GPA

CS6990 - Continuing Graduate Advisement - 1 - 6 Credits

Course Overview

Course Prefix
CS

Course Number
6990

Department
School of Computing

Course Title
Continuing Graduate Advisement

Grade Mode
Temporary Pass/Fail

Repeat Status
RP

Course Description
This course provides graduate students with continued advisement. It is usually taken following completion of all coursework required for the degree.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
6

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
6

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
6

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
6

Lecture Hours Operator:
TO

Registration Restrictions
Admission to Computer Science master's or PhD program

Special Approval
Instructor Permission

Simple Requisites

Prerequisite

Type
Prerequisite

Required

3.0 GPA

CS7050 - Computational Geometry: Algorithms and Applications - 3 - Credits

Course Overview

Course Prefix
CS

Course Number
7050

Department
School of Computing

Dual-Listed Courses
CS6050 - Advanced Algorithms

Course Title
Computational Geometry: Algorithms and Applications

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course presents algorithms and data structures of computational geometry. Students learn algorithm design techniques for solving geometric problems as well as their applications in data processing, computer graphics, robotics, computer-aided design, and many others. CS 6050 and CS 7050 are cross listed, but CS 7050 requires additional work.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Admission to a PhD Computer Science program

No Requirements

CS7150 - Computational Complexity - 3 - Credits

Course Overview

Course Prefix
CS

Course Number
7150

Department
School of Computing

Course Title
Computational Complexity

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Focuses on central concepts in theoretical computer science, including NP-hardness, reductions, approximation algorithms, and fixed parameter algorithms. Samples modern algorithmic topics such as streaming, online, randomized, probabilistic, distributed, and quantum computations. Studies hard computational problems in both combinatorial and geometric settings.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Computer Science MPhD program

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Earn a minimum grade of A- in the following:

- CS2420 - Algorithms and Data Structures--CS 3 (QI)

Required

Earn a minimum grade of B+ in the following:

- CS5050 - Advanced Algorithms

CS7460 - Contextualized Privacy by Critical Design - 3 - Credits

Course Overview

Course Prefix
CS

Course Number
7460

Department
School of Computing

Course Title
Contextualized Privacy by Critical Design

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Covers recent research directions in computer security. Reviews current state of the field, and explores possible research directions for further work.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- CS6460 - Usable Privacy and Security

CS7650 - Advanced CVP RIP: Computer Vision, Pattern Recognition and Image Processing - 3 - Credits

Course Overview

Course Prefix
CS

Course Number
7650

Department
School of Computing

Course Title
Advanced CVP RIP: Computer Vision, Pattern Recognition and Image Processing

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Investigates new developments in representation and processing of gray-level and color images, including thresholding, segmentation, curve detection, etc. Also examines visual perception, as well as statistical and syntactical pattern classification.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Admission to Computer Science master's or PhD program

Special Approval
Instructor Permission

Simple Requisites

Prerquisite

Type
Prerequisite

Required

3.0 GPA

CS7680 - Advanced Computer Vision - 3 - Credits

Course Overview

Course Prefix
CS

Course Number
7680

Department
School of Computing

Course Title
Advanced Computer Vision

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Emphasizes current topics and research in the general area of computer vision. Focuses on detection, recognition, tracking, and analysis of human activity by using computer vision.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Admission to Computer Science master's or PhD program

Simple Requisites

Prerequisite

Type
Prerequisite

Required

3.0 GPA

CS7810 - Wavelets and Wavelet Algorithms - 3 - Credits

Course Overview

Course Prefix
CS

Course Number
7810

Department
School of Computing

Dual-Listed Courses
CS6810 - Wavelets and Wavelet Algorithms

Course Title
Wavelets and Wavelet Algorithms

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course offers a hands-on, programmatic introduction to the nature and computation of wavelets for the analysis and synthesis of digital image and audio data. The course emphasizes the practical significance of wavelet algorithms in computer vision and audio analysis and encourages provocative questions, discussions, and creative thinking. CS 6810 and CS 7810 are cross listed, but CS 7810 requires additional work.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Admission to a PhD Computer Science program

No Requirements

CS7890 - Advanced Topics in Computer Science - 3 - Credits

Course Overview

Course Prefix
CS

Course Number
7890

Department
School of Computing

Course Title
Advanced Topics in Computer Science

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course consists of current topics in computer science as determined by advances in the field.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Registration Restrictions
Enrollment in the Computer Science Master's or PhD programs

Special Approval
Instructor permission

Simple Requisites

Prerequisite

Type
Prerequisite

Required

3.0 GPA

CS7950 - Reading and Reports - 3 - Credits

Course Overview

Course Prefix
CS

Course Number
7950

Department
School of Computing

Course Title
Reading and Reports

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Directed reading on cutting-edge topics in computer science.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Registration Restrictions
Admission to Computer Science master's or PhD program

Special Approval
Instructor Permission

Simple Requisites

Prerequisite

Type
Prerequisite

Required

3.0 GPA

CS7970 - Dissertation Research - 1 - 15 Credits

Course Overview

Course Prefix
CS

Course Number
7970

Department
School of Computing

Course Title
Dissertation Research

Grade Mode
Temporary Pass/Fail

Repeat Status
RP

Course Description
PhD dissertation research.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
15

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
15

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
15

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
15

Lecture Hours Operator:
TO

Registration Restrictions
Admission to Computer Science master's or PhD program

Special Approval
Instructor Permission

Simple Requisites

Prerequisite

Type
Prerequisite

Required

3.0 GPA

CS7990 - Continuing Graduate Advisement - 1 - 6 Credits

Course Overview

Course Prefix
CS

Course Number
7990

Department
School of Computing

Course Title
Continuing Graduate Advisement

Grade Mode
Temporary Pass/Fail

Repeat Status
RP

Course Description
Continuing PhD-level advisement.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
6

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
6

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
6

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
6

Lecture Hours Operator:
TO

Registration Restrictions
Admission to Computer Science master's or PhD program

Special Approval
Instructor Permission

Simple Requisites

Prerequisite

Type
Prerequisite

Required

3.0 GPA

DANC1010 - Dance in Culture (BCA) - 3 - Credits

Course Overview

Course Prefix
DANC

Course Number
1010

Department
Theatre Arts

Course Title
Dance in Culture (BCA)

General Education Attribute
BCA

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Study of dance as one of the first art forms, from the primitive to its present state. Dance will also be studied sociologically as well as historically. Students will be exposed to the development of dance through history as it has been influenced by various economic and political forces. Students will be provided with information concerning outstanding contributions to dance and its authorities in the 20th century. Hopefully, the student will develop an appreciation of dance in contemporary society.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

DANC1100 - Ballet I - 1 - Credits

Course Overview

Course Prefix
DANC

Course Number
1100

Department
Theatre Arts

Course Title
Ballet I

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Basic ballet course for men and women to condition the body, develop an appreciation for ballet through its specific exercise forms and acquire the basic skill of ballet technique. Class is open to anyone. A text is used and grading is done by two written tests, attendance, and a performance final. The Frenc-Bouronville as well as the Russian techniques are taught. Video is used to expose students to the professional performance as well as dance history. Students also begin learning the importance of understanding anatomy, exercise physiology, kinesiology, music theory, theater practices and techniques, and physics as it relates to ballet and dance in general.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

No Requirements

DANC1200 - Modern Dance I - 1 - Credits

Course Overview

Course Prefix
DANC

Course Number
1200

Department
Theatre Arts

Course Title
Modern Dance I

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Designed for the dancer who has not been exposed to basic modern dance techniques. Class is open to anyone. Goal is to communicate through movement. Many different modern dance styles will be explored including Graham, Denis/ Shawn and Cunningham. Video will be used as well as a text. Movement experiences will range from the classroom situation to large open space activities including out of doors. Students will learn to analyze others' movement patterns and how people communicate through movement. This is an important aspect in dance therapy. Music, as well as music theory, will be explored. Grading will be on movement projects, tests, and a final movement project.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

No Requirements

DANC1210 - Ballet II - 1 - Credits

Course Overview

Course Prefix
DANC

Course Number
1210

Department
Theatre Arts

Course Title
Ballet II

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Continuation of basic ballet technique for men and women who wish to become more proficient in the art and form of classical ballet. A text is used and grading is done based on attendance, two written examinations and a performance final. There is a continuation of the French/Bourenville as well as Russian techniques. Video is used for exposure to dance performance as well as technique. Dance history and ballet tradition is continued. Students continue the study of anatomy exercise physiology, kinesiology, music, theater and performance techniques as well as physics. Based on proficiency, some of these student may become eligible to audition for Ballet Repertory Ensemble, DE 2310.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Special Approval

Instructor permission

No Requirements

DANC1220 - Beginning Pointe - 1 - Credits

Course Overview

Course Prefix
DANC

Course Number
1220

Department
Theatre Arts

Course Title
Beginning Pointe

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Designed for female ballet students with at least 2 years of Ballet training and who are observed to be ready for pointe work. Students must be physiologically mature and have the proper alignment and strength to dance on Pointe. A text is used and at least two written examinations are given plus a performance final. Each student progresses at her own rate and is graded accordingly as all are different. The rule of thumb is a child should be at least 11-12 before Pointe is allowed.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Special Approval

Instructor permission

No Requirements

DANC1240 - Musical Theatre Movement - 1 - Credits

Course Overview

Course Prefix
DANC

Course Number
1240

Department
Theatre Arts

Course Title
Musical Theatre Movement

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Involves a study of the fundamental types of movement used in the theater including mime, improvisation and basic musical theater dance forms. Class is open to any student that has had some experience or training in ballet, modern, or jazz dance and is interested in musical theater. Class is performance based. Students learn aspects of movement on stage in the areas of dance for musical theater and are also exposed to mime and other non-verbal forms of communication. Final project involves each student choreographing a 1 to 1.5 minute piece that would fit a period and style of a broadway show. Students are also required to research, use video and critique a broadway show.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

No Requirements

DANC1500 - Jazz Dance I - 1 - Credits

Course Overview

Course Prefix
DANC

Course Number
1500

Department
Theatre Arts

Course Title
Jazz Dance I

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Designed for the dancer who has already been exposed to Modern Dance or Classical Ballet technique. It is not a beginning class. Students should already have basic placement and traditional dance techniques in mind so as to be able to adequately explore the pure jazz technique. Class will explore the Giordano, Maddox, and Luigi methods as well as other methods. Video, handouts and a text are used. Grading is based on attendance, two tests, and a final performance project.

Credit Hours

Credit Hours Min:
1

Contact Hours

Contact Hours Min:
1

Billing Hours

Billing Hours Min:
1

Lecture Hours

Lecture Hours Min:
1

No Requirements

DANC1520 - Folk/Cultural Dance - 1 - Credits

Course Overview

Course Prefix
DANC

Course Number
1520

Department
Theatre Arts

Course Title
Folk/Cultural Dance

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Beginning class for men and women interested in ethnic, character, and folk dance for the stage. Open to anyone with some dance background. A text is used as well as video. Grading is based on attendance, tests and a performance final. History and background surrounding the origins of many of the national dances will be explored as well as the differences between the three types.

Credit Hours

Credit Hours Min:
1

Contact Hours

Contact Hours Min:
1

Billing Hours

Billing Hours Min:
1

Lecture Hours

Lecture Hours Min:
1

No Requirements

DANC1580 - Tap I - 1 - Credits

Course Overview

Course Prefix
DANC

Course Number
1580

Department
Theatre Arts

Course Title
Tap I

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Designed for the beginning and intermediate tap dancer. The class is open to anyone. Basic tap technique will be covered as well as terminology and history of the dance form. Includes the exploration of the current phase of tap and also the relationship of the basic differences between clogging and tap. Students will be required to reach a certain level of proficiency. Handouts and video will be used. Grading is based on attendance and performance.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

No Requirements

DANC2200 - Pointe and Variations - 1 - Credits

Course Overview

Course Prefix
DANC

Course Number
2200

Department
Theatre Arts

Course Title
Pointe and Variations

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Designed for the female dancer who has met all the technical and physical requirements for solo variations and pas de deux. For women who have reached the maturity level to learn the art of partnering and pas de deux. Point class for women requiring intermediate-advanced technique. Students will explore the history and choreographic style of at least 5 choreographers including George Balanchine, William and Lew Christianson, Frederick Ashton, Richard Arpel, and Twyla Tharp. Students will learn at least that many variations. Grading is based on attendance and increased proficiency on Pointe.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Special Approval

Instructor permission

No Requirements

DANC2210 - Basic Partnering - 1 - Credits

Course Overview

Course Prefix
DANC

Course Number
2210

Department
Theatre Arts

Course Title
Basic Partnering

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Designed to acquaint both the men and women in the art of supporting and dancing with a partner. Men will work on the proper lifting techniques and women will learn the skills and adjustments required to be partnered and lifted. Pas de Deux from at least five Ballets will be learned. Video will be used for more exposure. Designed for the intermediate or advanced, mature dancer. Grading is based on attendance and proficiency. Male and female dancers must be registered for a technique class and women must be registered for DANC 2200.

Credit Hours

Credit Hours Min:
1

Contact Hours

Contact Hours Min:
1

Billing Hours

Billing Hours Min:
1

Lecture Hours

Lecture Hours Min:
1

Special Approval

Instructor permission

No Requirements

DANC2220 - Modern Dance II - 1 - Credits

Course Overview

Course Prefix
DANC

Course Number
2220

Department
Theatre Arts

Course Title
Modern Dance II

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Designed for those who have had at least one year of experience in modern dance techniques. Course is a continuation of DANC 1200. Music and music theory will be continued. Students will be encouraged to explore their own movement patterns as well as the modern choreographers of the present such as Alvin Ailey and Paul Taylor.

Credit Hours

Credit Hours Min:
1

Contact Hours

Contact Hours Min:
1

Billing Hours

Billing Hours Min:
1

Lecture Hours

Lecture Hours Min:
1

No Requirements

DANC2240 - Ballet III - 1 - Credits

Course Overview

Course Prefix
DANC

Course Number
2240

Department
Theatre Arts

Course Title
Ballet III

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Designed for the more proficient dancer, one who wishes to use classical ballet as an important part of their career. Both barre and center practice will consist of longer, more intricate combinations. Physical demands will be greater as to help the students reach an advanced performance as well as technical level. The same styles of technique will be taught as in the lower ballet classes as well as the continued exploration of dance related topics. Grading is based on tests from the required texts as well as attendance and effort. Some library research will be required.

Credit Hours

Credit Hours Min:
1

Contact Hours

Contact Hours Min:
1

Billing Hours

Billing Hours Min:
1

Lecture Hours

Lecture Hours Min:
1

Special Approval
Instructor permission

No Requirements

DANC2260 - Dance Composition - 1 - 2 Credits

Course Overview

Course Prefix
DANC

Course Number
2260

Department
Theatre Arts

Course Title
Dance Composition

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Designed for the intermediate dancer to allow them an opportunity to explore their own creative techniques in modern, jazz and classical ballet. Grading is based on attendance, effort, creativity, interim projects, and a final choreographic project. Final project may be a collaboration between two students. Some of the student choreography may be performed in Ballet Repertory's Spring Concert.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
2

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
2

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
2

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
2

Lecture Hours Operator:
TO

Special Approval
Instructor permission

No Requirements

DANC2310 - Dance Ensemble - 1 - 2 Credits

Course Overview

Course Prefix
DANC

Course Number
2310

Department
Theatre Arts

Course Title
Dance Ensemble

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Performance based class. The members are students who wish to perform. Company performs two major concerts per year as well as Lecture Demos and other performing opportunities. Time and credit hours are arranged by the instructor.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
2

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
2

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
2

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
2

Lecture Hours Operator:
TO

Special Approval

Membership is by audition conducted by the Artistic Director

No Requirements

DANC2800 - Dance Production - 1 - 3 Credits

Course Overview

Course Prefix
DANC

Course Number
2800

Department
Theatre Arts

Course Title
Dance Production

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Designed for the dancers who wish to perform throughout Utah with the CEU Dance Department. Performances are used for education as well as recruiting. Students will also learn the correct performance protocol from the aspect of a performer as well as a member of the audience.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- DANC2310 - Dance Ensemble

(students must be a member of DANC2310 DANCE ENSEMBLE - Dance Ensemble)

DANC2977 - Cooperative Education - 1 - 3 Credits

Course Overview

Course Prefix
DANC

Course Number
2977

Department
Theatre Arts

Course Title
Cooperative Education

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Provides supervised on-the-job training in dance education. Students meet with the instructor/coordinator periodically during the course to determine and evaluate learning objectives, hours to be worked and credit agreements. Students must meet certain proficiency requirements and have permission from the instructor or coordinator.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

Special Approval

Instructor permission

No Requirements

DANC2988 - Special Problems - 1 - 3 Credits

Course Overview

Course Prefix
DANC

Course Number
2988

Department
Theatre Arts

Course Title
Special Problems

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Individual work approved by the instructor. Time, credit and content to be arranged.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

No Requirements

DANC2999 - Workshop - 1 - 3 Credits

Course Overview

Course Prefix
DANC

Course Number
2999

Department
Theatre Arts

Course Title
Workshop

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Designed to meet the changing needs and educational background and opportunities of the dance students. Permission of the instructor is required. Content, and credit hours arranged by the instructor only. No previous dance experience required.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

Special Approval

Instructor permission

No Requirements

DATA1100 - Excel for Business Analysis - 1 - Credits

Course Overview

Course Prefix
DATA

Course Number
1100

Department
Data Analytics & Information Systems

Course Title
Excel for Business Analysis

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course addresses the importance of Microsoft Excel for business students and guides students toward Excel proficiency for business analytics and certification.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Other Enrollment Recommendations

It is recommended that students intending to take this course take DATA1100 EXCEL BUSINESS ANALYSIS and DATA2100 DATA OF INFORMATION BUSINESS concurrently.

No Requirements

DATA2100 - Data and Information in Business - 3 - Credits

Course Overview

Course Prefix
DATA

Course Number
2100

Department
Data Analytics & Information Systems

Course Title
Data and Information in Business

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
In this course students tackle real-world problems by using a hands-on approach to develop and apply foundational skills in critical data-centric technologies, including Excel, SQL, and Python programming.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- DATA1100 - Excel for Business Analysis

may be taken concurrently

DATA3100 - Making Decisions with Data - 3 - Credits

Course Overview

Course Prefix
DATA

Course Number
3100

Department
Data Analytics & Information Systems

Course Title
Making Decisions with Data

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course builds on DATA 2100 to help students understand how to draw conclusions or inferences from data. Topics include probability, sampling distributions, and basic inference for averages and proportions, including t-tests, ANOVA, chi-square tests, and simple regression models.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Fulfill ALL of the following requirements:

Required

Earn a minimum grade of C in the following:

- DATA2100 - Data and Information in Business

AND

Required

Complete ANY of the following Courses:

- MATH1050 - College Algebra (QL)
  OR MATH1100 - Calculus Techniques (QL)

OR

- ***ACT Math score of at least 25 or equivalent SAT MATH score***
- ***ALEKS PPL Math Placement Exam score of at least 55***

DATA3300 - Introduction to Modern Data Analytics (QI) - 3 - Credits

Course Overview

Course Prefix
DATA

Course Number
3300

Department
Data Analytics & Information Systems

Course Title
Introduction to Modern Data Analytics (QI)

General Education Attribute
QI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides an introduction to advanced business intelligence and analytics, using modern analytics tools and strategies to build exploratory and predictive models, and applying evidence-based methods to inform business decisions and actions.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ANY of the following Courses:

- DATA3100 - Making Decisions with Data
  OR STAT1040 - Introduction to Statistics (QL)
  OR STAT1045 - Introduction to Statistics with Elements with Algebra (QL)
  OR STAT1080 - Foundations of Data Science (QL)
  OR STAT2000 - Statistical Methods (QI)
  OR STAT2300 - Business Statistics (QL)
  OR STAT3000 - Statistics for Scientists (QI)

a grade of C or better is required for DATA3100 MAKING DECISIONS WITH DATA

DATA5300 - Database Management - 3 - Credits

Course Overview

Course Prefix
DATA

Course Number
5300

Department
Data Analytics & Information Systems

Dual-Listed Courses
DATA6300 - Database Management

Course Title
Database Management

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course teaches the theory and application of designing, developing, and maintaining database systems. Students learn principles of management of data resources to support effective information systems in organizations.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

DATA5310 - Advanced Database and Database Analytics - 3 - Credits

Course Overview

Course Prefix
DATA

Course Number
5310

Department
Data Analytics & Information Systems

Dual-Listed Courses
DATA6310 - Advanced Database and Database Analytics

Course Title
Advanced Database and Database Analytics

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers advanced database topics such as concurrency control, XML databases, and web-based databases. A heavy advanced SQL and analytics focus is also a part of the course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- DATA3330 - Database Management (Inactive)

DATA5330 - Data Pipeline Engineering - 3 - Credits

Course Overview

Course Prefix
DATA

Course Number
5330

Department
Data Analytics & Information Systems

Dual-Listed Courses
DATA6330 - Data Pipeline Engineering

Course Title
Data Pipeline Engineering

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course explores the design and engineering of effectively structured data ecosystems. Using programming tools, students develop efficient and effective dataflows to ensure quality data are available to meet critical data analysis requirements. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- DATA3330 - Database Management (Inactive)
- DATA3500 - Introduction to Python Programming (Inactive)

DATA5360 - Data Warehousing - 3 - Credits

Course Overview

Course Prefix
DATA

Course Number
5360

Department
Data Analytics & Information Systems

Dual-Listed Courses
DATA6360 - Data Warehousing

Course Title
Data Warehousing

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces the process of creating and populating data warehouses for enterprise-level decision making. Topics include data consolidation from operational SQL databases via ETL process, database schema design and implementation, and various report generation. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- DATA3330 - Database Management (Inactive)

DATA5400 - Data Visualization with Tableau (CI) - 3 - Credits

Course Overview

Course Prefix
DATA

Course Number
5400

Department
Data Analytics & Information Systems

Dual-Listed Courses
DATA6400 - Data Visualization with Tableau

Course Title
Data Visualization with Tableau (CI)

General Education Attribute
CI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course familiarizes students with the fundamental principles of data visualization, emphasizing the identification of appropriate data visualization techniques and the development of visualizations using the Tableau software package. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

DATA5410 - Visual Data Analytics - 3 - Credits

Course Overview

Course Prefix
DATA

Course Number
5410

Department
Data Analytics & Information Systems

Dual-Listed Courses
DATA6410 - Visual Data Analytics

Course Title
Visual Data Analytics

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course helps students to make connections between visualization techniques and analytics algorithms, developing a balanced skill set to more clearly communicate insights from complex data sets. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Course Learning Objectives

Course Learning Outcomes
Students successfully completing this course will:

1. Understand concepts of measures, dimensions, hierarchies, level of details and aggregations.
2. Understand concepts of calculated fields, parameters, sets, grouping and LOD/table calculations.
3. Understand concepts of dashboards, story, and Dynamic Zone Visibility
4. Create charts with maps and actions
5. Create charts with LOD and Table calculations
6. Create intermediate and advanced dashboards with Dynamic Zone Visibility

DATA5420 - Introduction to Text Mining - 3 - Credits

Course Overview

Course Prefix
DATA

Course Number
5420

Department
Data Analytics & Information Systems

Dual-Listed Courses
DATA6420 - Introduction to Text Mining

Course Title
Introduction to Text Mining

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students learn how to clean and transform unstructured text data, quantify it using several feature engineering methods, and produce data-driven insights using supervised and unsupervised text mining algorithms. This course covers concepts in both natural language processing and statistical/machine learning. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- DATA3300 - Introduction to Modern Data Analytics (QI)
  OR DATA3500 - Introduction to Python Programming (Inactive)
  OR CS1400 - Introduction to Computer Science--CS 1
- DATA3100 - Making Decisions with Data
  OR STAT1040 - Introduction to Statistics (QL)
  OR STAT1045 - Introduction to Statistics with Elements with Algebra (QL)
  OR STAT1080 - Foundations of Data Science (QL)
  OR STAT2000 - Statistical Methods (QI)
  OR STAT2300 - Business Statistics (QL)
  OR STAT3000 - Statistics for Scientists (QI)

DATA5480 - Data Mining - 3 - Credits

Course Overview

Course Prefix
DATA

Course Number
5480

Department
Data Analytics & Information Systems

Dual-Listed Courses
DATA6480 - Data Mining

Course Title
Data Mining

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces data mining and business intelligence technologies. Students utilize a clustering algorithm for customer segmentation, an association rule algorithm for cross-selling/website optimization, single and ensemble classifiers for churn prediction/fraud detection/targeted ads, and visualization tools for data and output representation. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

DATA5490 - Prescriptive Analytics and Management Science - 3 - Credits

Course Overview

Course Prefix
DATA

Course Number
5490

Department
Data Analytics & Information Systems

Dual-Listed Courses
DATA6490 - Prescriptive Analytics and Management Science

Course Title
Prescriptive Analytics and Management Science

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces the concepts, basic theories, and skills to make quantitatively supported decisions using management science, mathematical programming and optimization tools. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- DATA3500 - Introduction to Python Programming (Inactive)
  OR CS1400 - Introduction to Computer Science--CS 1

DATA5500 - Python Programming for Analytics - 3 - Credits

Course Overview

Course Prefix
DATA

Course Number
5500

Department
Data Analytics & Information Systems

Dual-Listed Courses
DATA6500 - Python Programming for Analytics

Course Title
Python Programming for Analytics

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides an introduction to programming basics using Python with an emphasis on tools for data analytics, including input/output of large datasets, data extraction from the web, and basic prediction and decision making. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

DATA5510 - Advanced Python Programming for Analytics - 3 - Credits

Course Overview

Course Prefix
DATA

Course Number
5510

Department
Data Analytics & Information Systems

Dual-Listed Courses

DATA6510 - Advanced Python Programming for Analytics

Course Title

Advanced Python Programming for Analytics

Grade Mode
Standard Letter

Repeat Status
NR

Course Description

This course covers advanced Python programming principles and analytics applications, including object-oriented programming, sorting, data structures, cloud computing, data mining, and introductory machine learning. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- DATA5500 - Python Programming for Analytics

Course Learning Objectives

Course Learning Outcomes

Students successfully completing this course will be able to:

1. Apply object-oriented programming principles—including inheritance, encapsulation, and polymorphism—when developing Python applications.
2. Implement advanced programming techniques such as algorithmic problem solving, program design, program development, and recursion.
3. Analyze and evaluate the efficiency and performance of common algorithms using Big-O notation and other algorithmic analysis techniques.
4. Construct and utilize advanced data structures such as queues, stacks, trees, priority heaps, and graphs to solve computational problems.
5. Develop and evaluate introductory machine learning models in Python, including supervised learning techniques such as random forests, neural networks, and support vector machines.
6. Deploy Python applications or machine learning models using AWS services.

DATA5570 - Building Software With Artificial Intelligence - 3 - Credits

Course Overview

Course Prefix
DATA

Course Number
5570

Department
Data Analytics & Information Systems

Dual-Listed Courses
DATA6570 - Building Software With Artificial Intelligence

Course Title
Building Software With Artificial Intelligence

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
AI-generated code, and associated tools, are rapidly advancing. This course covers software engineering principles, architecture principles, software development with AI-generated code, AI code testing, and AI code deployment of a larger software applications. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- DATA3500 - Introduction to Python Programming (Inactive)
  OR CS1400 - Introduction to Computer Science--CS 1

DATA5580 - Machine Learning Operations - 3 - Credits

Course Overview

Course Prefix
DATA

Course Number
5580

Department
Data Analytics & Information Systems

Dual-Listed Courses
DATA6580 - Machine Learning Operations

Course Title
Machine Learning Operations

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This hands-on course develops proficiency in deploying, versioning, and monitoring machine learning models in a production environment. Students directly build and implement models and their key components, ensuring they are fully functional and prepared for use in making predictions. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- DATA3300 - Introduction to Modern Data Analytics (QI)
- DATA3500 - Introduction to Python Programming (Inactive)
- DATA5500 - Python Programming for Analytics

DATA5500 PYTHON PROGRAM ANALYTICS may be taken concurrently

DATA5600 - Introduction to Regression and Machine Learning for Analytics - 3 - Credits

Course Overview

Course Prefix
DATA

Course Number
5600

Department
Data Analytics & Information Systems

Course Title
Introduction to Regression and Machine Learning for Analytics

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students learn about applied simple and multiple regression, regression models for supervised learning, correlation and collinearity, cost functions, model building, feature importance, logistic regression, and advanced methods for classification. The focus is on applications in business analytics.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- DATA3100 - Making Decisions with Data
  OR STAT2000 - Statistical Methods (QI)
  OR STAT3000 - Statistics for Scientists (QI)
- DATA3300 - Introduction to Modern Data Analytics (QI)

DATA5610 - Advanced Machine Learning for Analytics - 3 - Credits

Course Overview

Course Prefix
DATA

Course Number
5610

Department
Data Analytics & Information Systems

Dual-Listed Courses
DATA6610 - Advanced Machine Learning for Analytics

Course Title
Advanced Machine Learning for Analytics

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers applications of modern machine learning for business decision-making. Students learn about the modeling process to enable rational data-driven business decisions, using machine learning algorithms and their computational implementation in real-world settings. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- DATA5600 - Introduction to Regression and Machine Learning for Analytics

DATA5620 - Advanced Regression for Causal Inference - 3 - Credits

Course Overview

Course Prefix
DATA

Course Number
5620

Department
Data Analytics & Information Systems

Dual-Listed Courses
DATA6620 - Advanced Regression for Causal Inference

Course Title
Advanced Regression for Causal Inference

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course focuses on the application of regression to inform decision-making, particularly using interpretable models to understand the effect of interventions on business outcomes. Students learn to model experimental and observational data and infer causality instead of correlation only. Additional coursework is required for those enrolled in the graduate-level course

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- DATA5600 - Introduction to Regression and Machine Learning for Analytics

DATA5630 - Deep Forecasting - 3 - Credits

Course Overview

Course Prefix
DATA

Course Number
5630

Department
Data Analytics & Information Systems

Dual-Listed Courses
DATA6630 - Deep Forecasting

Course Title
Deep Forecasting

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course explores time series prediction using Python to build classical, machine learning, and deep learning models. Through coding projects, students develop cutting-edge skills in analyzing complex data, programming predictive models, and applying techniques to real-world problems. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- DATA3500 - Introduction to Python Programming (Inactive)
  OR CS1400 - Introduction to Computer Science--CS 1
- DATA5600 - Introduction to Regression and Machine Learning for Analytics
  OR ECN4330 - Econometrics (QI)
  OR STAT5100 - Modern Regression Methods (CI/QI)

DATA5690 - Computational Methods for FinTech - 3 - Credits

Course Overview

Course Prefix
DATA

Course Number
5690

Department
Data Analytics & Information Systems

Dual-Listed Courses
DATA6690 - Computational Methods for FinTech

Course Title
Computational Methods for FinTech

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Computational finance is an interdisciplinary pillar of modern FinTech, at the intersection of data science, computer science, and economics. In this course students apply tools from computational science and statistics to identify and exploit arbitrage opportunities for entrepreneurial financial innovation. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- DATA3100 - Making Decisions with Data
  OR STAT2000 - Statistical Methods (QI)
  OR STAT3000 - Statistics for Scientists (QI)
- DATA3500 - Introduction to Python Programming (Inactive)
  OR CS1400 - Introduction to Computer Science--CS 1
- FIN3200 - Corporate Finance (QI)
  OR CEE4200 - Engineering Economics
- DATA5500 - Python Programming for Analytics
  OR CS2420 - Algorithms and Data Structures--CS 3 (QI)

CS2420 COMPUTER SCIENCE 3 (QI) may be taken concurrently

DATA5695 - Predictive Methods for FinTech - 3 - Credits

Course Overview

Course Prefix
DATA

Course Number
5695

Department
Data Analytics & Information Systems

Dual-Listed Courses
DATA6695 - Predictive Methods for FinTech

Course Title
Predictive Methods for FinTech

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Prediction is a core activity of modern FinTech. This course uses probability, computational statistics, machine learning, and financial econometrics to develop and implement predictive strategies for trading and risk management by identifying and exploiting arbitrage opportunities. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- DATA5690 - Computational Methods for FinTech

DATA5910 - Data Competitions and Problem Solving - 3 - Credits

Course Overview

Course Prefix
DATA

Course Number
5910

Department
Data Analytics & Information Systems

Dual-Listed Courses
DATA6910 - Data Competitions and Problem Solving

Course Title
Data Competitions and Problem Solving

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Prepare professionally for job interviews and future opportunities through hands-on experience with real-world, open-ended problems. Students in this class will collaborate to solve industry-grade data challenges from start to finish through data cleaning, exploratory analysis, machine learning, and data presentation. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- DATA3500 - Introduction to Python Programming (Inactive)
- DATA5600 - Introduction to Regression and Machine Learning for Analytics

DATA5600 INTRO REGRESSION MACHINE LEARN may be taken concurrently

DATA6060 - Analytics in the Enterprise - 3 - Credits

Course Overview

Course Prefix
DATA

Course Number
6060

Department
Data Analytics & Information Systems

Course Title
Analytics in the Enterprise

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides foundational knowledge and important skills for business professionals regarding the role and use of analytics in today's enterprises.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

DATA6300 - Database Management - 3 - Credits

Course Overview

Course Prefix
DATA

Course Number
6300

Department
Data Analytics & Information Systems

Dual-Listed Courses
DATA5300 - Database Management

Course Title
Database Management

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course teaches the theory and application of designing, developing, and maintaining database systems. Students learn principles of management of data resources to support effective information systems in organizations.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Course Learning Objectives

Course Learning Outcomes

Students successfully completing this course will be able to:

1. Define and identify the main characteristics of relational databases
2. Determine appropriate relationships among entities and attributes
3. Create logical database designs using entity relationship diagrams
4. Evaluate entities against Normal Forms 1 – BCNF
5. Implement a physical design of the database using SQL Server
6. Write SQL queries including select, subqueries, joins aggregate functions, group by, order by, insert, update, delete, truncate, views, random numbers, case expressions, UNION, UNION ALL, statistics, date functions, and injection attacks

7. Write SQL queries using Google Sheets (Google QL)
8. Learn about data cleaning, temp tables, and data wrangling

DATA6310 - Advanced Database and Database Analytics - 3 - Credits

Course Overview

Course Prefix
DATA

Course Number
6310

Department
Data Analytics & Information Systems

Dual-Listed Courses
DATA5310 - Advanced Database and Database Analytics

Course Title
Advanced Database and Database Analytics

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers advanced database topics such as concurrency control, XML databases, and web-based databases. A heavy advanced SQL and analytics focus is also a part of the course. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Course Learning Objectives

Course Learning Outcomes
Students successfully completing this course will able to:

1. Design and execute advanced SQL queries to transform and analyze data, including correlated subqueries, derived tables, common table expressions (CTEs), set operators (UNION, INTERSECT, EXCEPT), window functions, and data wrangling (cleaning, reshaping, aggregating).

2. Develop and manage backend database logic and automation, including user-defined functions, stored procedures, triggers, and data modification (INSERT, UPDATE, DELETE, MERGE).

DATA6330 - Data Pipeline Engineering - 3 - Credits

Course Overview

Course Prefix
DATA

Course Number
6330

Department
Data Analytics & Information Systems

Dual-Listed Courses
DATA5330 - Data Pipeline Engineering

Course Title
Data Pipeline Engineering

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course explores the design and engineering of effectively structured data ecosystems. Using programming tools, students develop efficient and effective dataflows to ensure quality data are available to meet critical data analysis requirements. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Other Enrollment Recommendations
Python programming and database coursework or experience

DATA6360 - Data Warehousing - 3 - Credits

Course Overview

Course Prefix
DATA

Course Number
6360

Department
Data Analytics & Information Systems

Dual-Listed Courses
DATA5360 - Data Warehousing

Course Title
Data Warehousing

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces the process of creating and populating data warehouses for enterprise-level decision making. Topics include data consolidation from operational SQL databases via ETL process, database schema design and implementation, and various report generation. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- DATA3330 - Database Management (Inactive)

DATA6400 - Data Visualization with Tableau - 3 - Credits

Course Overview

Course Prefix
DATA

Course Number
6400

Department
Data Analytics & Information Systems

Dual-Listed Courses
DATA5400 - Data Visualization with Tableau (CI)

Course Title
Data Visualization with Tableau

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course familiarizes students with the fundamental principles of data visualization, emphasizing the identification of appropriate data visualization techniques and the development of visualizations using the Tableau software package. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

DATA6410 - Visual Data Analytics - 3 - Credits

Course Overview

Course Prefix
DATA

Course Number
6410

Department
Data Analytics & Information Systems

Dual-Listed Courses
DATA5410 - Visual Data Analytics

Course Title
Visual Data Analytics

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course helps students to make connections between visualization techniques and analytics algorithms, developing a balanced skill set to more clearly communicate insights from complex data sets. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Course Learning Objectives

Course Learning Outcomes

1. Students successfully completing this course will:
2. Understand concepts of measures, dimensions, hierarchies, level of details and aggregations.
3. Understand concepts of calculated fields, parameters, sets, grouping and LOD/table calculations.
4. Understand concepts of dashboards, story, and Dynamic Zone Visibility
5. Create charts with maps and actions
6. Create charts with LOD and Table calculations

7. Create intermediate and advanced dashboards with Dynamic Zone Visibility

DATA6420 - Introduction to Text Mining - 3 - Credits

Course Overview

Course Prefix
DATA

Course Number
6420

Department
Data Analytics & Information Systems

Dual-Listed Courses
DATA5420 - Introduction to Text Mining

Course Title
Introduction to Text Mining

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students learn how to clean and transform unstructured text data, quantify it using several feature engineering methods, and produce data-driven insights using supervised and unsupervised text mining algorithms. This course covers concepts in both natural language processing and statistical/machine learning. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Other Enrollment Recommendations

Students registering for this course should have prior coursework or some experience with basic statistics and programming.

No Requirements

DATA6480 - Data Mining - 3 - Credits

Course Overview

Course Prefix
DATA

Course Number
6480

Department
Data Analytics & Information Systems

Dual-Listed Courses
DATA5480 - Data Mining

Course Title
Data Mining

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces data mining and business intelligence technologies. Students utilize a clustering algorithm for customer segmentation, an association rule algorithm for cross-selling/website optimization, single and ensemble classifiers for churn prediction/fraud detection/targeted ads, and visualization tools for data and output representation. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

DATA6490 - Prescriptive Analytics and Management Science - 3 - Credits

Course Overview

Course Prefix
DATA

Course Number
6490

Department
Data Analytics & Information Systems

Dual-Listed Courses
DATA5490 - Prescriptive Analytics and Management Science

Course Title
Prescriptive Analytics and Management Science

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces the concepts, basic theories, and skills to make quantitatively supported decisions using management science, mathematical programming and optimization tools. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

DATA6500 - Python Programming for Analytics - 3 - Credits

Course Overview

Course Prefix
DATA

Course Number
6500

Department
Data Analytics & Information Systems

Dual-Listed Courses
DATA5500 - Python Programming for Analytics

Course Title
Python Programming for Analytics

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides an introduction to programming basics using Python with an emphasis on tools for data analytics, including input/output of large datasets, data extraction from the web, and basic prediction and decision making. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

DATA6510 - Advanced Python Programming for Analytics - 3 - Credits

Course Overview

Course Prefix
DATA

Course Number
6510

Department
Data Analytics & Information Systems

Dual-Listed Courses
DATA5510 - Advanced Python Programming for Analytics

Course Title
Advanced Python Programming for Analytics

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers advanced Python programming principles and analytics applications, including object-oriented programming, sorting, data structures, cloud computing, data mining, and introductory machine learning. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Other Enrollment Recommendations
Prior coursework or experience in introductory Python programming.

Course Learning Objectives

Course Learning Outcomes
Students successfully completing this course will be able to:

1. Apply object-oriented programming principles—including inheritance, encapsulation, and polymorphism—when developing Python applications.
2. Implement advanced programming techniques such as algorithmic problem solving, program design, program development, and recursion.
3. Analyze and evaluate the efficiency and performance of common algorithms using Big-O notation and other algorithmic analysis techniques.
4. Construct and utilize advanced data structures such as queues, stacks, trees, priority heaps, and graphs to solve computational problems.
5. Develop and evaluate introductory machine learning models in Python, including supervised learning techniques such as random forests, neural networks, and support vector machines.
6. Deploy Python applications or machine learning models using AWS services.

DATA6570 - Building Software With Artificial Intelligence - 3 - Credits

Course Overview

Course Prefix
DATA

Course Number
6570

Department
Data Analytics & Information Systems

Dual-Listed Courses
DATA5570 - Building Software With Artificial Intelligence

Course Title
Building Software With Artificial Intelligence

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
AI-generated code, and associated tools, are rapidly advancing. This course covers software engineering principles, architecture principles, software development with AI-generated code, AI code testing, and AI code deployment of a larger software applications. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Other Enrollment Recommendations
Prior programming experience -- Python recommended

No Requirements

DATA6580 - Machine Learning Operations - 3 - Credits

Course Overview

Course Prefix
DATA

Course Number
6580

Department
Data Analytics & Information Systems

Dual-Listed Courses
DATA5580 - Machine Learning Operations

Course Title
Machine Learning Operations

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This hands-on course develops proficiency in deploying, versioning, and monitoring machine learning models in a production environment. Students directly build and implement models and their key components, ensuring they are fully functional and prepared for use in making predictions. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

DATA6610 - Advanced Machine Learning for Analytics - 3 - Credits

Course Overview

Course Prefix
DATA

Course Number
6610

Department
Data Analytics & Information Systems

Dual-Listed Courses
DATA5610 - Advanced Machine Learning for Analytics

Course Title
Advanced Machine Learning for Analytics

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers applications of modern machine learning for business decision-making. Students learn about the modeling process to enable rational data-driven business decisions, using machine learning algorithms and their computational implementation in real-world settings. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- DATA5600 - Introduction to Regression and Machine Learning for Analytics

DATA6620 - Advanced Regression for Causal Inference - 3 - Credits

Course Overview

Course Prefix
DATA

Course Number
6620

Department
Data Analytics & Information Systems

Dual-Listed Courses
DATA5620 - Advanced Regression for Causal Inference

Course Title
Advanced Regression for Causal Inference

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course focuses on the application of regression to inform decision-making, particularly using interpretable models to understand the effect of interventions on business outcomes. Students learn to model experimental and observational data and infer causality instead of correlation only. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Other Enrollment Recommendations
Prior coursework or experience with multivariable regression

DATA6630 - Deep Forecasting - 3 - Credits

Course Overview

Course Prefix
DATA

Course Number
6630

Department
Data Analytics & Information Systems

Dual-Listed Courses
DATA5630 - Deep Forecasting

Course Title
Deep Forecasting

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course explores time series prediction using Python to build classical, machine learning, and deep learning models. Through coding projects, students develop cutting-edge skills in analyzing complex data, programming predictive models, and applying techniques to real-world problems. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Other Enrollment Recommendations
Prior experience with Python programming is strongly recommended

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- DATA5600 - Introduction to Regression and Machine Learning for Analytics
  OR STAT5100 - Modern Regression Methods (CI/QI)
  OR ECON5000 - Econometrics (QI)

DATA6690 - Computational Methods for FinTech - 3 - Credits

Course Overview

Course Prefix
DATA

Course Number
6690

Department
Data Analytics & Information Systems

Dual-Listed Courses
DATA5690 - Computational Methods for FinTech

Course Title
Computational Methods for FinTech

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Computational finance is an interdisciplinary pillar of modern FinTech, at the intersection of data science, computer science, and economics. In this course students apply tools from computational science and statistics to identify and exploit arbitrage opportunities for entrepreneurial financial innovation. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Other Enrollment Recommendations
Students should have advanced Python programming experience, along with prior coursework in probability, statistics, and introductory finance

No Requirements

DATA6695 - Predictive Methods for FinTech - 3 - Credits

Course Overview

Course Prefix
DATA

Course Number
6695

Department
Data Analytics & Information Systems

Dual-Listed Courses
DATA5695 - Predictive Methods for FinTech

Course Title
Predictive Methods for FinTech

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Prediction is a core activity of modern FinTech. This course uses probability, computational statistics, machine learning, and financial econometrics to develop and implement predictive strategies for trading and risk management by identifying and exploiting arbitrage opportunities. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- DATA5690 - Computational Methods for FinTech
  OR DATA6690 - Computational Methods for FinTech

DATA6900 - MDATA Capstone - 3 - Credits

Course Overview

Course Prefix
DATA

Course Number
6900

Department
Data Analytics & Information Systems

Course Title
MDATA Capstone

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This capstone course for the Master of Data Analytics program requires students to work on an applied real-world project, supervised by MDATA faculty.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Registration Restrictions
Admission to the Master of Data Analytics program

No Requirements

DATA6910 - Data Competitions and Problem Solving - 3 - Credits

Course Overview

Course Prefix
DATA

Course Number
6910

Department
Data Analytics & Information Systems

Dual-Listed Courses
DATA5910 - Data Competitions and Problem Solving

Course Title
Data Competitions and Problem Solving

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Prepare professionally for job interviews and future opportunities through hands-on experience with real-world, open-ended problems. Students in this class will collaborate to solve industry-grade data challenges from start to finish through data cleaning, exploratory analysis, machine learning, and data presentation. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Other Enrollment Recommendations
Prior experience with Python programming and regression models is highly recommended.

DMV1050 - Application and Ethics of Visualization - 2 - Credits

Course Overview

Course Prefix
DMV

Course Number
1050

Department
Landscape Architecture & Environmental Planning

Course Title
Application and Ethics of Visualization

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces the theories, practices, and application of visualizations and the relevant ethical considerations of their use. This knowledge will be the foundation for future visualization efforts and increase technical capacity in the use of visualization.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

No Requirements

Course Learning Objectives

Course Learning Outcomes
1. In this course, students will acquire knowledge and skills that can be applied during their academic and professional careers.
2. This course will help students understand the history of visualization and what constitutes the modern practice of visualization. Students will learn about the use of visualization in a variety of different industries and how visualization is being used to shape our world, both physically and digitally. We will examine important technological advancements in the field and discuss the future outlook of digital visualization.
3. In this course students will learn about the ethical considerations involved in the visualization process. Visualization is meant to be a representation tool used to depict a built environment before it is built, however there can often be pressure to misrepresent a project through a visualization in order to secure funding or suggest outcomes inconsistent with the project. Understanding the ethical

implications of the use of visualization is critical to maintaining transparency and integrity in the process.
4. As part of this course students will analyze different approaches to visualization and the techniques used. As part of this, students will learn to weigh the implications of different methods and consider the suitability of each depending on multiple factors.

DMV3100 - Unreal Engine 1 - 4 - Credits

Course Overview

Course Prefix
DMV

Course Number
3100

Department
Landscape Architecture & Environmental Planning

Course Title
Unreal Engine 1

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This studio course is focused on the use of Unreal Engine to create visualizations. Developed to support the video game industry, Unreal Engine is increasingly being used in design and visualization to create realistic representations of proposed architecture and landscapes.

Credit Hours

Credit Hours Min:
4

Contact Hours

Contact Hours Min:
4

Billing Hours

Billing Hours Min:
4

Lecture Hours

Lecture Hours Min:
4

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Students will acquire knowledge and skills that can be applied during an academic and professional career.
2. This course will introduce students to the use of Unreal engine as a design and modeling tool. Video game engines are an increasingly important visualization tool and understanding how to appropriately use it in the design process will be critical for digital modelers.
3. The goal of this course is to help students prepare for a future career. The use of video engine is becoming increasingly prevalent amongst design firms that work in the built environment and so it is critical that students master this tool. Developing both a video game engine skill set and portfolio of projects built using a video game engine will make you more attractive to future employers.
4. As a result of taking this course students will have a better ability to design and express your ideas through the use of a video engine.

DSAI2275 - Linear Algebra for Data Science - 4 - Credits

Course Overview

Course Prefix
DSAI

Course Number
2275

Department
Mathematics & Statistics

Course Title
Linear Algebra for Data Science

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces linear algebra topics including matrix operations, vector spaces, norms, inner products, projections, eigendecomposition, and the singular value decomposition with a focus on applications in data science and machine learning.

Credit Hours

Credit Hours
Min:
4

Contact Hours

Contact Hours
Min:
4

Billing Hours

Billing Hours
Min:
4

Lecture Hours

Lecture Hours
Min:
4

Other Enrollment Recommendations
Some experience in programming, preferably Python, is required for success in this course

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Earn a minimum grade of C- in the following:
- MATH1210 - Calculus I (QL)

Prerequisite fulfilled by Exam

AP Exam Options
- AP Calculus BC exam score of 3 or higher
- AP Calculus AB exam score of 4 or higher

Course Learning Objectives

Course Learning Outcomes
1. Gain familiarity with important concepts in linear algebra including matrices and analytic geometry, as well as their applications in fields such as machine learning and data science.

2. Understand how to use modern computing software to solve linear systems and construct models that rely on those systems.

DSAI5060 - Python for Data Science - 3 - Credits

Course Overview

Course Prefix
DSAI

Course Number
5060

Department
Mathematics & Statistics

Cross-Listed Courses
STAT5060 - Python for Data Science

Dual-Listed Courses
DSAI6060 - Python for Data Science

Course Title
Python for Data Science

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students are introduced to Python with a focus on data science. Topics include Python basics and data structures, object oriented programming, NumPy, pandas, data cleaning and wrangling, plotting and visualization, data aggregation, time series analysis, and modeling libraries. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Other Enrollment Recommendations
Basic programming experience with any language is recommended. Exposure to linear algebra is also helpful as much of data analysis involves matrices.

Course Learning Objectives

Course Learning Outcomes
1. Gain knowledge of and familiarity with the Python programming language and related tools.

2. Learn to use Python to solve data science problems at a basic level.

3. Learn selected general principles in the data science process.

DSAI5655 - Machine Learning - 3 - Credits

Course Overview

Course Prefix
DSAI

Course Number
5655

Department
Mathematics & Statistics

Cross-Listed Courses
STAT5655 - Machine Learning

Dual-Listed Courses
DSAI6655 - Machine Learning

Course Title
Machine Learning

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides a practical and mathematical introduction to machine learning techniques and principles in supervised and unsupervised settings. Students learn to understand machine learning research papers and gain the practical experience to implement machine learning approaches on real data. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Other Enrollment Recommendations
Experience programming in Python, R, or Matlab is essential for success in the course.

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:
- MATH1220 - Calculus II (QL)
- MATH5710 - Introduction to Probability
  OR STAT3000 - Statistics for Scientists (QI)

(MATH 5710 preferred)

Required

Complete one of the following option. Option 3 is preferred.

Fulfill ANY of the following requirements:

Option 1

Complete ALL of the following Courses:

- MATH2210 - Multivariable Calculus (QI)
  AND MATH2270 - Linear Algebra (QI)

OR

Option 2

Complete ALL of the following Courses:

- MATH2210 - Multivariable Calculus (QI)
  AND DSAI2275 - Linear Algebra for Data Science

OR

Option 3

Complete ANY of the following Courses:

- MATH5645 - Mathematical Methods for Data Science
  OR STAT5645 - Mathematical Methods for Data Science

(Preferred option)

Course Learning Objectives

Course Learning Outcomes

1. Gain knowledge of and familiarity with selected classical and advanced machine learning techniques and principles that will be useful in both the university and industry settings.
2. Learn to apply the selected techniques to solve problems with real data.
3. Learn selected general principles (e.g. optimization, the kernel trick) for understanding machine learning methods not covered in the course.

DSAI5810 - Topics in Data Science and Artificial Intelligence - 1 - 3 Credits

Course Overview

Course Prefix
DSAI

Course Number
5810

Department
Mathematics & Statistics

Dual-Listed Courses

DSAI6810 - Topics in Data Science and Artificial Intelligence

Course Title

Topics in Data Science and Artificial Intelligence

Grade Mode
Standard Letter

Repeat Status
RP

Course Description

Topics and application areas vary by instructor each time the course is offered. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

No Requirements

DSAI6060 - Python for Data Science - 3 - Credits

Course Overview

Course Prefix
DSAI

Course Number
6060

Department
Mathematics & Statistics

Cross-Listed Courses
STAT6060 - Python for Data Science

Dual-Listed Courses
DSAI5060 - Python for Data Science

Course Title
Python for Data Science

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students are introduced to Python with a focus on data science. Topics include Python basics and data structures, object oriented programming, NumPy, pandas, data cleaning and wrangling, plotting and visualization, data aggregation, time series analysis, and modeling libraries. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Other Enrollment Recommendations
Basic programming experience with any language is recommended. Exposure to linear algebra is also helpful as much of data analysis involves matrices.

Course Learning Objectives

Course Learning Outcomes
1. Gain knowledge of and familiarity with the Python programming language and related tools.

2. Learn to use Python to solve data science problems at a basic level.

3. Learn selected general principles in the data science process.

DSAI6655 - Machine Learning - 3 - Credits

Course Overview

Course Prefix
DSAI

Course Number
6655

Department
Mathematics & Statistics

Cross-Listed Courses
STAT6655 - Machine Learning

Dual-Listed Courses
DSAI5655 - Machine Learning

Course Title
Machine Learning

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides a practical and mathematical introduction to machine learning techniques and principles in supervised and unsupervised settings. Students learn to understand machine learning research papers and gain the practical experience to implement machine learning approaches on real data. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Other Enrollment Recommendations
Experience programming in Python, R, or Matlab is essential for success in the course. Some previous, formal exposure to the concepts of linear algebra, probability, and calculus.

Course Learning Objectives

Course Learning Outcomes
1. Gain knowledge of and familiarity with selected classical and advanced machine learning techniques and principles that will be useful in both the university and industry settings.

2. Learn to apply the selected techniques to solve problems with real data.

3. Learn selected general principles (e.g. optimization, the kernel trick) for understanding machine learning methods not covered in the course.

DSAI6810 - Topics in Data Science and Artificial Intelligence - 1 - 3 Credits

Course Overview

Course Prefix
DSAI

Course Number
6810

Department
Mathematics & Statistics

Dual-Listed Courses
DSAI5810 - Topics in Data Science and Artificial Intelligence

Course Title
Topics in Data Science and Artificial Intelligence

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Topics and application areas vary by instructor each time the course is offered. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

No Requirements

DSME1000 - Introduction to Transportation Technology I - 2 - Credits

Course Overview

Course Prefix
DSME

Course Number
1000

Department
Technology, Design & Technical Ed

Cross-Listed Courses
AUTO1000 - Introduction to Transportation Technology I

Course Title
Introduction to Transportation Technology I

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Introductory course in automotive or diesel technology develops shop safety and skills. Topics include manuals and systems, precision measurement, tires and wheels, bearings, headlamp adjustment, oils and fluids, cleaning methods, gaskets, cooling systems, belts, hoses.

Credit Hours

Credit Hours Min:
2

Contact Hours

Contact Hours Min:
2

Billing Hours

Billing Hours Min:
2

Lecture Hours

Lecture Hours Min:
2

No Requirements

DSME1110 - Diesel Engine Overhaul Theory - 4 - Credits

Course Overview

Course Prefix
DSME

Course Number
1110

Department
Technology, Design & Technical Ed

Course Title
Diesel Engine Overhaul Theory

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Designed to instruct the student on correct diesel engine overhaul procedures from disassembly to assembly. Identification, operation, inspection, repair, maintenance and failure analysis of each diesel engine component will be discussed. Attention is also given to parts cleaning methods as well as fasteners and measuring tools.

Credit Hours

Credit Hours
Min:
4

Contact Hours

Contact Hours
Min:
4

Billing Hours

Billing Hours
Min:
4

Lecture Hours

Lecture Hours
Min:
4

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- MATH0950 - Pre-algebra

or a higher-level MATH course

DSME1130 - Diesel Engine Overhaul Lab - 4 - Credits

Course Overview

Course Prefix
DSME

Course Number
1130

Department
Technology, Design & Technical Ed

Course Title
Diesel Engine Overhaul Lab

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Hands-on course simulating a diesel repair shop, where students disassemble, inspect, and rebuild diesel engines. Emphasis includes component identification, measurement, wear analysis, failure detection, parts cleaning technologies, fasteners, tool use, productivity, quality workmanship, and professional attendance standards and safety practices.

Credit Hours

Credit Hours
Min:
4

Contact Hours

Contact Hours
Min:
4

Billing Hours

Billing Hours
Min:
4

Lecture Hours

Lecture Hours
Min:
4

No Requirements

DSME1310 - Fluid Power Theory - 4 - Credits

Course Overview

Course Prefix
DSME

Course Number
1310

Department
Technology, Design & Technical Ed

Course Title
Fluid Power Theory

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces fluid power fundamentals, covering hydraulic principles, calculations, components, schematics, and system operation. Students study industrial and mobile circuits, troubleshooting methods, safety practices, fittings, and hoses, gaining skills in analysis, diagnostics, and maintenance of hydraulic systems.

Credit Hours

Credit Hours
Min:
4

Contact Hours

Contact Hours
Min:
4

Billing Hours

Billing Hours
Min:
4

Lecture Hours

Lecture Hours
Min:
4

Simple Requisites

Corequisite

Type
Corequisite

Required

Enroll in the following Courses:

- DSME1330 - Fluid Power Lab

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- MATH0950 - Pre-algebra

Or higher-level MATH course. May be taken concurrently.

DSME1330 - Fluid Power Lab - 4 - Credits

Course Overview

Course Prefix
DSME

Course Number
1330

Department
Technology, Design & Technical Ed

Course Title
Fluid Power Lab

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Hands-on course where students identify, test, troubleshoot, and rebuild hydraulic components. Using flow meters, pressure gauges, and test benches, students analyze failures, identify fittings, and evaluate component performance, gaining practical diagnostic and repair skills across multiple hydraulic equipment brands.

Credit Hours

Credit Hours
Min:
4

Contact Hours

Contact Hours
Min:
4

Billing Hours

Billing Hours
Min:
4

Lecture Hours

Lecture Hours
Min:
4

Simple Requisites

Corequisite

Type
Corequisite

Required

Enroll in the following Courses:

- DSME1310 - Fluid Power Theory

DSME1340 - Mobile Electrical and Electronics Theory - 5 - Credits

Course Overview

Course Prefix
DSME

Course Number
1340

Department
Technology, Design & Technical Ed

Course Title
Mobile Electrical and Electronics Theory

Grade Mode
Standard Letter

Repeat Status
NR

Course Description

Students study electrical principles for mobile equipment, including circuits, Ohm's law, magnetism, and semiconductors. Course covers vehicle electrical systems, components, schematics, wiring, sensors, and accessories. Students learn testing techniques using digital multimeters and diagnostic instruments.

Credit Hours

Credit Hours
Min:
5

Contact Hours

Contact Hours
Min:
5

Billing Hours

Billing Hours
Min:
5

Lecture Hours

Lecture Hours
Min:
5

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- MATH0950 - Pre-algebra

or higher-level MATH course

DSME1360 - Mobile Electrical and Electronics Lab - 3 - Credits

Course Overview

Course Prefix
DSME

Course Number
1360

Department
Technology, Design & Technical Ed

Course Title
Mobile Electrical and Electronics Lab

Grade Mode
Standard Letter

Repeat Status
NR

Course Description

Hands-on laboratory course building on DSME 1360, where students use testing equipment to troubleshoot vehicle electrical systems. Learners test batteries, starters, charging systems, sensors, lighting, wiring, and accessories, emphasizing component identification, failure isolation, and strict electrical safety practices.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

DSME1500 - Professional Vocational Leadership (VICA) - 1 - Credits

Course Overview

Course Prefix
DSME

Course Number
1500

Department
Technology, Design & Technical Ed

Course Title
Professional Vocational Leadership (VICA)

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course supports Vocational Industrial Clubs of America (VICA) goals, helping students develop personal growth, service, teamwork, leadership, workplace, and interview skills. Participants may also engage in regional, state, and national competitions to apply and showcase their abilities.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

No Requirements

DSME2210 - Advanced Diesel Engine Theory - 5 - Credits

Course Overview

Course Prefix
DSME

Course Number
2210

Department
Technology, Design & Technical Ed

Course Title
Advanced Diesel Engine Theory

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Continuation of DSME 1110, this course examines diesel engine systems, including lubrication, cooling, intake, exhaust, and fuel. Emphasis is on combustion theory, engine speed and torque control, and electronics, focusing on Cat, Cummins, and Detroit engines and related software.

Credit Hours

Credit Hours
Min:
5

Contact Hours

Contact Hours
Min:
5

Billing Hours

Billing Hours
Min:
5

Lecture Hours

Lecture Hours
Min:
5

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- DSME1110 - Diesel Engine Overhaul Theory
- MATH0950 - Pre-algebra

or higher-level MATH course

DSME2230 - Advanced Diesel Engine Lab - 5 - Credits

Course Overview

Course Prefix
DSME

Course Number
2230

Department
Technology, Design & Technical Ed

Course Title
Advanced Diesel Engine Lab

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Continuation of DSME 1130, this course provides hands-on dyno testing of rebuilt engines, troubleshooting live engines, performing timing and tune-ups, and programming Cat, Cummins, and Detroit electronic engines. Emphasis is on safety, productivity, work quality, and following service manual procedures.

Credit Hours

Credit Hours Min:
5

Contact Hours

Contact Hours Min:
5

Billing Hours

Billing Hours Min:
5

Lecture Hours

Lecture Hours Min:
5

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- DSME1130 - Diesel Engine Overhaul Lab

DSME2410 - Heavy Duty Chassis and Power Train Theory - 5 - Credits

Course Overview

Course Prefix
DSME

Course Number
2410

Department
Technology, Design & Technical Ed

Course Title
Heavy Duty Chassis and Power Train Theory

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers highway truck air systems, brakes, axles, suspension, transmissions, clutches, differentials, and drive lines. Students calculate drive line angles, gear ratios, tire sizes, and troubleshoot tire wear, gear, axle, clutch, and brake failures, developing diagnostic and repair skills.

Credit Hours

Credit Hours Min:
5

Contact Hours

Contact Hours Min:
5

Billing Hours

Billing Hours Min:
5

Lecture Hours

Lecture Hours Min:
5

No Requirements

DSME2430 - Heavy Duty Chassis and Power Train Lab - 5 - Credits

Course Overview

Course Prefix
DSME

Course Number
2430

Department
Technology, Design & Technical Ed

Course Title
Heavy Duty Chassis and Power Train Lab

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Provides hands-on experience performing maintenance, inspection, adjustment, and repair on air brakes, suspension, clutches, transmissions, differentials, and drive lines in heavy-duty diesel equipment. Includes computerized alignments, emphasizing attendance, work quality, productivity, adherence to service manuals, and shop safety.

Credit Hours

Credit Hours Min:
5

Contact Hours

Contact Hours Min:
5

Billing Hours

Billing Hours Min:
5

Lecture Hours

Lecture Hours Min:
5

No Requirements

DSME2440 - Mobile Air Conditioning Theory - 2 - Credits

Course Overview

Course Prefix
DSME

Course Number
2440

Department
Technology, Design & Technical Ed

Course Title
Mobile Air Conditioning Theory

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Covers heat transfer principles using refrigerants, focusing on component identification, system operation, and OEM design variations. Students learn refrigerant types, recovery, recycling, handling, disposal, R12 to R134A conversion, and EPA regulations, with opportunity to test for an IMACA certification.

Credit Hours

Credit Hours Min:
2

Contact Hours

Contact Hours Min:
2

Billing Hours

Billing Hours Min:
2

Lecture Hours

Lecture Hours Min:
2

No Requirements

DSME2460 - Mobile Air Conditioning Lab - 1 - Credits

Course Overview

Course Prefix
DSME

Course Number
2460

Department
Technology, Design & Technical Ed

Course Title
Mobile Air Conditioning Lab

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students gain hands-on experience locating, identifying, testing, servicing, and troubleshooting mobile AC systems using EPA-approved procedures. They demonstrate proficiency with recovery, recycling, evacuation, and charging equipment for R-12 and R-134A refrigerants, including system conversion from R-12 to R-134A.

Credit Hours

Credit Hours Min:
1

Contact Hours

Contact Hours Min:
1

Billing Hours

Billing Hours Min:
1

Lecture Hours

Lecture Hours Min:
1

No Requirements

DSME2977 - Internship Education Experiences - 1 - 3 Credits

Course Overview

Course Prefix
DSME

Course Number
2977

Department
Technology, Design & Technical Ed

Course Title
Internship Education Experiences

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Provides paid, on-the-job work experience directly related to a specific lab course of study in the student's major. All activities including attendance, on-site work visits, employer and coordinator evaluations, and written assignments are monitored by the internship coordinator.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

Special Approval

Approval from the Director of Internship Education

No Requirements

DSME2988 - Special Problems - 1 - 3 Credits

Course Overview

Course Prefix
DSME

Course Number
2988

Department
Technology, Design & Technical Ed

Course Title
Special Problems

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Lab time approved by the instructor for extra repair projects and "live work" which cannot be completed during normal lab hours. Time and credit to be approved by the instructor.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

Special Approval

Instructor permission

No Requirements

ECE1400 - Computer Programming for Electrical and Computer Engineers I - 4 - Credits

Course Overview

Course Prefix
ECE

Course Number
1400

Department
Electrical & Computer Engineering

Course Title
Computer Programming for Electrical and Computer Engineers I

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This is an introduction to computer programming from an engineering perspective. Topics covered include basics of program design, coding, execution, debugging, and correctness. Students learn to develop concise, well-documented, well-designed, maintainable code in the C programming language.

Credit Hours

Credit Hours Min:
4

Contact Hours

Contact Hours Min:
4

Billing Hours

Billing Hours Min:
4

Lecture Hours

Lecture Hours Min:
4

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Earn a minimum grade of C- in the following:

- MATH1050 - College Algebra (QL)

or MATH ACT score of 25 or higher, or equivalent SAT score

or AP Calculus AB score of 3 or higher

ECE1410 - Computer Programming for Electrical and Computer Engineers II - 3 - Credits

Course Overview

Course Prefix
ECE

Course Number
1410

Department
Electrical & Computer Engineering

Course Title
Computer Programming for Electrical and Computer Engineers II

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course is a continued introduction to computer programming from an engineering perspective. Concepts of Object Oriented programming and basic data structures are covered. Students learn to develop concise, well-documented, well-designed, maintainable code in the C and C++ programming languages.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ANY of the following Courses:

- ECE1400 - Computer Programming for Electrical and Computer Engineers I
  OR ENGR1400 - Computer Programming for Engineers

ECE2250 - Electrical Circuits I - 3 - Credits

Course Overview

Course Prefix
ECE

Course Number
2250

Department
Electrical & Computer Engineering

Course Title
Electrical Circuits I

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Introduction to electrical circuits and basic circuit elements. Circuit theory, analysis techniques, and introduction to design. DC analysis. First-order inductive and capacitive circuits. Operational amplifiers. Mutual inductance. Introduction to computer-aided design and analysis. Lab work required.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Lab Hours

Lab Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- MATH1220 - Calculus II (QL)
- MATH2270 - Linear Algebra (QI)

may be taken concurrently

ECE2290 - Electrical Circuits II - 4 - Credits

Course Overview

Course Prefix
ECE

Course Number
2290

Department
Electrical & Computer Engineering

Course Title
Electrical Circuits II

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course is a continuation of electrical circuits and basic circuit elements concepts. Students learn about RLC circuits, Laplace transform circuit analysis, AC steady-state analysis, steady-state power and three-phase circuits, filters, and Bode diagrams. Lab work is required.

Credit Hours

Credit Hours
Min:
4

Contact Hours

Contact Hours
Min:
4

Billing Hours

Billing Hours
Min:
4

Lecture Hours

Lecture Hours
Min:
4

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ECE2250 - Electrical Circuits I
  OR ENGR2210 - Fundamental Electronics for Engineers
- MATH2250 - Linear Algebra and Differential Equations (QI)
  OR MATH2280 - Ordinary Differential Equations (QI)

Math course may be taken concurrently

ECE2420 - Algorithms and Data Structures - 3 - Credits

Course Overview

Course Prefix
ECE

Course Number
2420

Department
Electrical & Computer Engineering

Course Title
Algorithms and Data Structures

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course focuses on strategies for the design and evaluation of algorithms and their associated data structures. Students will learn recursion, sorting algorithms, graphs, binary trees, hash tables, priority queues, splay trees, disjoint set classes, dynamic programming, and greedy algorithms.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Earn a minimum grade of C- in the following:

- ECE1410 - Computer Programming for Electrical and Computer Engineers II

Course Learning Objectives

Course Learning Outcomes

1. Analyze a complex computing problem using data structures and to apply principles of computing and other relevant disciplines to identify solutions.

2. Evaluate strategies for the design and evaluation of algorithms, including recursion, sorting algorithms, graphs, trees, binary search trees, hash tables, priority queues, splay trees, merging priority queues, and disjoint set classes.
3. Describe dynamic programming and greedy algorithms.
4. Design, implement, and evaluate a computing-based solution to meet a given set of computing requirements.
5. Apply theory and software development fundamentals to produce computing-based solutions

ECE2700 - Digital Circuits - 4 - Credits

Course Overview

Course Prefix
ECE

Course Number
2700

Department
Electrical & Computer Engineering

Course Title
Digital Circuits

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces boolean logic, finite state machines, basic datapath components, register-transfer level (RTL) design, simulations, and timing analysis. It covers design of combinational and sequential logic circuits and digital systems using programmable logic devices. It includes lectures and labs.

Credit Hours

Credit Hours Min:
4

Contact Hours

Contact Hours Min:
4

Billing Hours

Billing Hours Min:
4

Lecture Hours

Lecture Hours Min:
4

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Earn a minimum grade of C- in the following:

- ECE1400 - Computer Programming for Electrical and Computer Engineers I

ECE3410 - Microelectronics I - 4 - Credits

Course Overview

Course Prefix
ECE

Course Number
3410

Department
Electrical & Computer Engineering

Course Title
Microelectronics I

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers the fundamentals of transistors, operational amplifiers, and other integrated circuits, along with their utilization in amplifiers, switches, and other applications. Laboratory work is required.

Credit Hours

Credit Hours
Min:
4

Contact Hours

Contact Hours
Min:
4

Billing Hours

Billing Hours
Min:
4

Lecture Hours

Lecture Hours
Min:
4

Registration Restrictions
Admission to a USU major

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:
- ECE2290 - Electrical Circuits II
- ECE3620 - Continuous - Time Systems and Signals

may be taken concurrently

ECE3510 - AI Foundations: Representation, Search, and Decision Making - 3 - Credits

Course Overview

Course Prefix
ECE

Course Number
3510

Department
Electrical & Computer Engineering

Course Title
AI Foundations: Representation, Search, and Decision Making

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students learn foundational artificial intelligence concepts, including state representation, search, planning, and decision making, forming the conceptual basis for modern intelligent systems.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Other Enrollment Recommendations
MATH3310 DISCRETE MATHEMATICS

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:
- ECE2420 - Algorithms and Data Structures
  OR CS2420 - Algorithms and Data Structures--CS 3 (QI)

Course Learning Objectives

Course Learning Outcomes

Students will be able to:

1. Formulate problems using states, actions, transitions, and objectives.
2. Apply uninformed and informed search algorithms to planning problems.
3. Analyze decision problems using utility, cost, and reward formulations.
4. Evaluate algorithmic tradeoffs in optimality, completeness, and complexity.
5. Implement foundational AI algorithms in software.

ECE3520 - Machine Learning Foundations - 3 - Credits

Course Overview

Course Prefix
ECE

Course Number
3520

Department
Electrical & Computer Engineering

Course Title

Machine Learning Foundations

Grade Mode
Standard Letter

Repeat Status
NR

Course Description

Students learn core machine learning principles, including supervised and unsupervised learning, optimization, generalization, and evaluation methods for data-driven models.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ANY of the following Courses:

- MATH2250 - Linear Algebra and Differential Equations (QI)
  OR MATH2270 - Linear Algebra (QI)

Required

Complete ANY of the following Courses:

- STAT3000 - Statistics for Scientists (QI)
  OR MATH5710 - Introduction to Probability

Required

Complete ANY of the following Courses:

- ECE1410 - Computer Programming for Electrical and Computer Engineers II
  OR CS1410 - Introduction to Computer Science--CS 2 (QI)

Course Learning Objectives

Course Learning Outcomes

Students will be able to:

1. Explain key machine learning paradigms and problem formulations.
2. Implement supervised and unsupervised learning algorithms.
3. Analyze bias, variance, and generalization tradeoffs.
4. Apply optimization methods for model training.
5. Evaluate model performance using appropriate metrics.

ECE3610 - Continuous and Discrete-Time Systems and Signals - 4 - Credits

Course Overview

Course Prefix
ECE

Course Number
3610

Department
Electrical & Computer Engineering

Course Title

Continuous and Discrete-Time Systems and Signals

Grade Mode
Standard Letter

Repeat Status
NR

Course Description

Students learn analysis of continuous and discrete systems, including impulse response, convolution, and sampling. They study z-transform analysis of discrete systems and signals. They also study frequency domain analysis and response using Fourier transform methods, and filter design.

Credit Hours

Credit Hours Min:
4

Contact Hours

Contact Hours Min:
4

Billing Hours

Billing Hours Min:
4

Lecture Hours

Lecture Hours Min:
4

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ECE1410 - Computer Programming for Electrical and Computer Engineers II

Required

Complete ANY of the following Courses:

- ECE2290 - Electrical Circuits II
  OR ENGR2210 - Fundamental Electronics for Engineers

Required

Complete ANY of the following Courses:

- MATH2250 - Linear Algebra and Differential Equations (QI)
  OR MATH2280 - Ordinary Differential Equations (QI)

Course Learning Objectives

Course Learning Outcomes

1. Demonstrate understanding of system concepts such as linearity, time-invariance, stability, etc.

2. Demonstrate understanding of basic signals used for analysis such as unit impulse, unit step, complex exponential, etc.

3. Be able to determine system response using convolution in both continuous and discrete time.

4. Be able to explain the relationship between continuous-time signals and sampled discrete-time signals in the time and frequency domains.

5. Understand the concept of a frequency domain representation of a signal and basic concepts of bandwidth.

6. Demonstrate understanding of properties of Laplace and Z-transforms and their use in solving systems problems and analyzing signals.

7. Demonstrate ability to synthesize systems from transfer functions using basic op amp building blocks or difference equations.

8. Demonstrate understanding of transfer functions, including frequency response and effect of pole/zero placement.

9. Design and apply filters to continuous and discrete-time signals.

ECE3620 - Continuous - Time Systems and Signals - 3 - Credits

Course Overview

Course Prefix
ECE

Course Number
3620

Department
Electrical & Computer Engineering

Course Title
Continuous - Time Systems and Signals

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students learn time domain analysis of higher-order systems, including impulse response and convolution, and Laplace transform analysis of circuits and systems. They study frequency domain analysis, discrete Fourier series, Fourier transforms, and analog filter design. Some computer programming is required.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Registration Restrictions
Admission to a USU major

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Earn a minimum grade of C- in the following:

- ECE1400 - Computer Programming for Electrical and Computer Engineers I
- ECE2290 - Electrical Circuits II
  OR ENGR2210 - Fundamental Electronics for Engineers
- MATH2250 - Linear Algebra and Differential Equations (QI)
  OR MATH2280 - Ordinary Differential Equations (QI)

ECE3640 - Discrete - Time Systems and Signals - 3 - Credits

Course Overview

Course Prefix
ECE

Course Number
3640

Department
Electrical & Computer Engineering

Course Title
Discrete - Time Systems and Signals

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers sampling of continuous-time signals, time and z-transform domain analysis of discrete-time systems, frequency domain analysis using the discrete-time Fourier transform, the DFT and FFT, frequency response, and digital filter design. Some lab and computational work is required.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Registration Restrictions

Admission to a USU major

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ECE3620 - Continuous - Time Systems and Signals

ECE3700 - Digital System Design - 3 - Credits

Course Overview

Course Prefix
ECE

Course Number
3700

Department
Electrical & Computer Engineering

Course Title
Digital System Design

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course consists of advanced projects in digital system design using field-programmable gate arrays and embedded microprocessor systems. Projects include signal processing and data communication applications.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ECE2700 - Digital Circuits

ECE3710 - Microcontroller Hardware and Software - 4 - Credits

Course Overview

Course Prefix
ECE

Course Number
3710

Department
Electrical & Computer Engineering

Course Title
Microcontroller Hardware and Software

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers synthesis of microcontroller systems, including hardware, programming, and interfacing. Topics include architecture basics, instruction set, assembly language programming, I/O, timing, and interrupts. The course includes hands-on implementation. Laboratory work is required.

Credit Hours

Credit Hours
Min:
4

Contact Hours

Contact Hours
Min:
4

Billing Hours

Billing Hours
Min:
4

Lecture Hours

Lecture Hours
Min:
4

Registration Restrictions

Admission to a USU major

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ECE1400 - Computer Programming for Electrical and Computer Engineers I

Prerequisite

Type
Prerequisite

Required

Fulfill ANY of the following requirements:

Option 1

Complete ALL of the following Courses:

- ENGR2210 - Fundamental Electronics for Engineers

OR

Option 2

Complete ALL of the following Courses:

- ECE2250 - Electrical Circuits I
  AND ECE2700 - Digital Circuits

ECE3810 - Engineering Professionalism - 1 - Credits

Course Overview

Course Prefix
ECE

Course Number
3810

Department
Electrical & Computer Engineering

Course Title
Engineering Professionalism

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Introduces students to life as an engineer, including: the design process, working in teams, understanding professional and ethical responsibility, the impact of engineering on society, and the need for continued professional development. Also includes discussion of how engineering meets the contemporary needs of society.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Registration Restrictions

Admission to the Professional Engineering Program

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ENGR3080 - Creativity and Communication in Design (CI)

may be taken concurrently

ECE3870 - Electromagnetics I - 4 - Credits

Course Overview

Course Prefix
ECE

Course Number
3870

Department
Electrical & Computer Engineering

Course Title
Electromagnetics I

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course includes a discussion of Maxwell's equations, electromagnetic waves, power and energy, reflection and refraction processes, transmission lines, waveguides, and antennas. Students study electrostatic and magnetostatic fields, as well as electromagnetic forces and materials.

Credit Hours

Credit Hours
Min:
4

Contact Hours

Contact Hours
Min:
4

Billing Hours

Billing Hours
Min:
4

Lecture Hours

Lecture Hours
Min:
4

Registration Restrictions

Admission to a USU major

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ECE2290 - Electrical Circuits II
- MATH2210 - Multivariable Calculus (QI)
- PHYS2220 - Physics for Scientists and Engineers II (BPS/QI)

Prerequisite

Type
Completion Requirement

Required

Fulfill ANY of the following requirements:

Option 1

Complete ALL of the following Courses:

- MATH2250 - Linear Algebra and Differential Equations (QI)

OR

Option 2

Complete ALL of the following Courses:

- MATH2270 - Linear Algebra (QI)
- MATH2280 - Ordinary Differential Equations (QI)

ECE4250 - Internship/Co-op - 1 - 3 Credits

Course Overview

Course Prefix
ECE

Course Number
4250

Department
Electrical & Computer Engineering

Course Title
Internship/Co-op

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
Planned, career-related work experience in industry. Students must register with USU Co-op Office and have program approved by the ECE co-op advisor. Written report required.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

Registration Restrictions

Admission to the Professional Engineering Program

No Requirements

ECE4510 - Bayesian Inference and Markov Chain Monte Carlo - 3 - Credits

Course Overview

Course Prefix
ECE

Course Number
4510

Department
Electrical & Computer Engineering

Course Title
Bayesian Inference and Markov Chain Monte Carlo

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students learn Bayesian inference and Markov Chain Monte Carlo methods for probabilistic modeling, uncertainty quantification, and inference in complex, high-dimensional systems.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ANY of the following Courses:

- MATH2250 - Linear Algebra and Differential Equations (QI)
  OR MATH2270 - Linear Algebra (QI)

Required

Complete ANY of the following Courses:

- MATH5710 - Introduction to Probability
  OR STAT3000 - Statistics for Scientists (QI)

Required

Complete ANY of the following Courses:

- CS1410 - Introduction to Computer Science--CS 2 (QI)
  OR ECE1410 - Computer Programming for Electrical and Computer Engineers II

Course Learning Objectives

Course Learning Outcomes

Students will be able to:

1. Apply Bayesian reasoning to model uncertainty and belief updating.
2. Construct probabilistic models using prior, likelihood, and posterior distributions.
3. Implement MCMC algorithms such as Metropolis–Hastings and Gibbs sampling.
4. Diagnose convergence and sampling quality in probabilistic inference.
5. Interpret probabilistic results for decision making and modeling.

ECE4520 - AI Practicum I: Applied AI Systems - 3 - Credits

Course Overview

Course Prefix
ECE

Course Number
4520

Department
Electrical & Computer Engineering

Course Title
AI Practicum I: Applied AI Systems

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students learn to design and implement applied artificial intelligence systems by integrating models, data, and software into functional prototypes addressing real-world problems.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ECE3510 - AI Foundations: Representation, Search, and Decision Making
- ECE3520 - Machine Learning Foundations

Course Learning Objectives

Course Learning Outcomes

Students will be able to:

1. Translate real-world problems into AI system requirements.
2. Select appropriate AI methods for a given application context.
3. Implement end-to-end AI pipelines including data, models, and evaluation.
4. Analyze system performance, limitations, and ethical considerations.
5. Communicate technical designs and results to diverse audiences.

ECE4530 - AI Practicum II: Deployment, Evaluation, and Capstone - 3 - Credits

Course Overview

Course Prefix
ECE

Course Number
4530

Department
Electrical & Computer Engineering

Course Title
AI Practicum II: Deployment, Evaluation, and Capstone

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students learn to deploy, evaluate, and refine AI systems, emphasizing robustness, scalability, and integration into real-world environments and capstone-style projects.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ECE4520 - AI Practicum I: Applied AI Systems

Course Learning Objectives

Course Learning Outcomes
Students will be able to:

1. Deploy AI systems in realistic computing environments.
2. Evaluate system reliability, performance, and generalization.
3. Diagnose failures and iteratively improve deployed AI solutions.
4. Address ethical, societal, and operational constraints in deployment.
5. Produce professional documentation and presentations suitable for portfolios.

ECE4810 - Engineering Design and Communications 1 - 1 - Credits

Course Overview

Course Prefix
ECE

Course Number
4810

Department
Electrical & Computer Engineering

Course Title
Engineering Design and Communications 1

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students work on individual or team engineering project proposal development and writing methods, including budget development and project scheduling (Gantt) charts. Interdisciplinary projects are strongly encouraged. A written project proposal and progress reports are required.

Credit Hours

Credit Hours Min:
1

Contact Hours

Contact Hours Min:
1

Billing Hours

Billing Hours Min:
1

Lecture Hours

Lecture Hours Min:
1

Simple Requisites

Prerequisites

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ECE3710 - Microcontroller Hardware and Software
- ECE3810 - Engineering Professionalism

Course Learning Objectives

Course Learning Outcomes

1. Students will identify and choose project ideas
2. Students will recognize learning methods for effective time management
3. Students will be able to locate resources needed to create their project and write associated documentation
4. Students will be able to create multi-audience verbal and written technical communication based on audiences found in industry
5. Students will prepare a formal system specification
6. Students will be able to apply systematic methods of engineering design
7. Students will be able to prepare and present design reviews

ECE4820 - Engineering Design I - 1 - Credits

Course Overview

Course Prefix
ECE

Course Number
4820

Department
Electrical & Computer Engineering

Course Title
Engineering Design I

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students work on individual or team engineering project proposal development. Interdisciplinary projects are strongly encouraged. A written project proposal is required.

Credit Hours

Credit Hours Min:
1

Contact Hours

Contact Hours Min:
1

Billing Hours

Billing Hours Min:
1

Lecture Hours

Lecture Hours Min:
1

Registration Restrictions

Admission to the Professional Engineering Program

Simple Requisites

Corequisite

Type
Corequisite

Required

Enroll in the following Courses:

- ECE4830 - Engineering Communications I

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ECE3410 - Microelectronics I
- ECE3710 - Microcontroller Hardware and Software
- ECE3810 - Engineering Professionalism

ECE4830 - Engineering Communications I - 1 - Credits

Course Overview

Course Prefix
ECE

Course Number
4830

Department
Electrical & Computer Engineering

Course Title
Engineering Communications I

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students learn professional engineering project proposal writing methods, including budget development and project scheduling (Gantt) charts. Students also learn how to write project progress reports.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Registration Restrictions

Admission to the Professional Engineering Program

Simple Requisites

Corequisite

Type
Corequisite

Enrolled in Course ECE4820

Enroll in the following Courses:

- ECE4820 - Engineering Design I

or senior-level capstone course

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ECE3410 - Microelectronics I
- ECE3710 - Microcontroller Hardware and Software
- ECE3810 - Engineering Professionalism

ECE4840 - Engineering Design II (CI) - 2 - Credits

Course Overview

Course Prefix
ECE

Course Number
4840

Department
Electrical & Computer Engineering

Course Title
Engineering Design II (CI)

General Education Attribute
CI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Design, development, and testing of the engineering project proposed in ECE 4820. Interdisciplinary projects strongly encouraged. Design and test plans required.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Registration Restrictions
Admission to the Professional Engineering Program

Simple Requisites

Corequisite

Type
Corequisite

Required

Enroll in the following Courses:
- ECE4850 - Engineering Communications II (CI)

or capstone course

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:
- ECE4820 - Engineering Design I

or capstone course

ECE4850 - Engineering Communications II (CI) - 1 - Credits

Course Overview

Course Prefix
ECE

Course Number
4850

Department
Electrical & Computer Engineering

Course Title
Engineering Communications II (CI)

General Education Attribute
CI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Includes professional engineering project reports, oral design reviews, presentation graphics, and project presentation.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Registration Restrictions
Admission to the Professional Engineering Program

Simple Requisites

Corequisite

Type
Corequisite

Required

Enroll in the following Courses:

- ECE4840 - Engineering Design II (CI)

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ECE4830 - Engineering Communications I

ECE5050 - Cryptography - 3 - Credits

Course Overview

Course Prefix
ECE

Course Number
5050

Department
Electrical & Computer Engineering

Dual-Listed Courses
ECE6050 - Cryptography

Course Title
Cryptography

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students learn classical and modern secret codes. Classical cryptography includes Viginere and substitution ciphers and cryptanalysis. Students learn number theory for RSA and AES, hashing and cryptographic protocols, block chain and digital cash, and quantum-based approaches. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Admission to a USU major

Other Enrollment Recommendations
An introductory course in probability will be helpful.

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- MATH2250 - Linear Algebra and Differential Equations (QI)

ECE5110 - Fundamentals of Electric Power Systems - 3 - Credits

Course Overview

Course Prefix
ECE

Course Number
5110

Department
Electrical & Computer Engineering

Course Title
Fundamentals of Electric Power Systems

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students learn the structure of electric power systems, including power system components, three-phase circuits and power flow analysis, analysis of magnetic circuits, single- and three- phase transformers, transmission line modeling, principles of energy and power conversion, and modeling and analysis of dc and ac synchronous motors and generators.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ECE2250 - Electrical Circuits I

ECE5120 - Introduction to Power Electronics - 3 - Credits

Course Overview

Course Prefix
ECE

Course Number
5120

Department
Electrical & Computer Engineering

Dual-Listed Courses
ECE6120 - Introduction to Power Electronics

Course Title
Introduction to Power Electronics

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students study power electronics including steady-state modeling, conduction and switching losses, semiconductor power switches, converter transfer functions, topologies and dynamics, negative feedback, closed-loop transfer functions, controller stability and phase margin, regulator design, and basic magnetics theory and inductor design procedures.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:
- ECE3410 - Microelectronics I
- ECE3620 - Continuous - Time Systems and Signals

ECE5150 - Power Electronics for Electric Drive Vehicles - 3 - Credits

Course Overview

Course Prefix
ECE

Course Number
5150

Department
Electrical & Computer Engineering

Dual-Listed Courses
ECE6150 - Power Electronics for Electric Drive Vehicles

Course Title
Power Electronics for Electric Drive Vehicles

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces the design and control of power converters in electric drive vehicles. It covers detailed analysis, modeling, and design of major system components. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:
- ECE3410 - Microelectronics I
- ECE3620 - Continuous - Time Systems and Signals
- ECE3870 - Electromagnetics I

ECE5160 - Electric Vehicle Design Laboratory - 4 - Credits

Course Overview

Course Prefix
ECE

Course Number
5160

Department
Electrical & Computer Engineering

Dual-Listed Courses
ECE6160 - Electric Vehicle Design Laboratory

Course Title
Electric Vehicle Design Laboratory

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students receive practical, hands-on experience working with a 500W electric bike powertrain. Labs cover modeling, characterization, design, and fabrication, and culminate in e-bike system integration and demonstration. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
4

Contact Hours

Contact Hours
Min:
4

Billing Hours

Billing Hours
Min:
4

Lecture Hours

Lecture Hours
Min:
4

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ECE3710 - Microcontroller Hardware and Software
- ECE5120 - Introduction to Power Electronics
  OR ECE6120 - Introduction to Power Electronics
- ECE5150 - Power Electronics for Electric Drive Vehicles
  OR ECE6150 - Power Electronics for Electric Drive Vehicles

ECE5210 - Introduction to Photonics and Devices - 3 - Credits

Course Overview

Course Prefix
ECE

Course Number
5210

Department
Electrical & Computer Engineering

Cross-Listed Courses
PHYS5210 - Introduction to Photonics and Devices

Course Title
Introduction to Photonics and Devices

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course explores generation and manipulation of light by devices. Topics include electromagnetic waves and interfaces, waveguides, basic quantum mechanics, quantum theory of light, photon angular momentum, electronic band structures, optoelectronics, photonic crystals, metamaterials, entanglement, and photonic integrated circuits.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- PHYS3600 - Electromagnetism I
  OR ECE3870 - Electromagnetics I

ECE5230 - Spacecraft Systems Engineering - 3 - Credits

Course Overview

Course Prefix
ECE

Course Number
5230

Department
Electrical & Computer Engineering

Dual-Listed Courses
ECE6230 - Spacecraft Systems Engineering

Course Title
Spacecraft Systems Engineering

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers spacecraft communications, telemetry systems, and command and data handling. It includes an introduction to astrodynamics and orbit design, electrical power generation and storage, and spacecraft subsystems (e.g., guidance, navigation, and control).

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Registration Restrictions
Admission to a USU major

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ANY of the following Courses:
- ECE2290 - Electrical Circuits II
  OR ENGR2210 - Fundamental Electronics for Engineers

Prerequisite

Type
Prerequisite

Required

Fulfill ANY of the following requirements:

Option 1

Complete ALL of the following Courses:
- MATH2250 - Linear Algebra and Differential Equations (QI)

OR

Option 2

Complete ALL of the following Courses:
- MATH2270 - Linear Algebra (QI)
  AND MATH2280 - Ordinary Differential Equations (QI)

ECE5235 - Space System Design - 3 - Credits

Course Overview

Course Prefix
ECE

Course Number
5235

Department
Electrical & Computer Engineering

Cross-Listed Courses
MAE5530 - Space System Design

Dual-Listed Courses
ECE6235 - Space System Design

Course Title
Space System Design

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students in teams perform a space system design involving all aspects, including technical, cost, and schedule. The class is linked to national design competitions and/or current USU spacecraft design projects.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Admission to a USU major

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ANY of the following Courses:
- ECE5230 - Spacecraft Systems Engineering
  OR MAE5520 - Elements of Space Flight
  OR ECE6230 - Spacecraft Systems Engineering

ECE5250 - Photonics Laboratory - 3 - Credits

Course Overview

Course Prefix
ECE

Course Number
5250

Department
Electrical & Computer Engineering

Cross-Listed Courses
PHYS5250 - Photonics Laboratory

Course Title
Photonics Laboratory

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students obtain hands-on experience in manipulating light both as classical beams and as individual quantum particles (photons), in the settings of microwave, classical optical, and quantum photonics.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ANY of the following Courses:
- PHYS3600 - Electromagnetism I
- ECE3870 - Electromagnetics I

Course Learning Objectives

Course Learning Outcomes

1. Gain the ability to operate many optical instruments and perform optical alignment.
2. Be able to characterize the transmission and reflection of waveguides that range from metallic microwave waveguides on a chip to dielectric optical waveguides on a chip.
3. Gain an understanding basic wave optics, including polarization, interference, resonance, and coupling.
4. Be able to characterize photon sources, photon detectors, and the quantum states of entangled photons.

ECE5310 - Control Systems - 4 - Credits

Course Overview

Course Prefix
ECE

Course Number
5310

Department
Electrical & Computer Engineering

Course Title
Control Systems

Grade Mode
Standard Letter

Repeat Status
NR

Course Description

Students learn mathematical modeling of systems, including transfer function and state space representations. They study transient and steady-state responses, feedback and stability theory, and analysis and design methods of feedback controllers for single-input single output linear systems. Laboratory work required.

Credit Hours

Credit Hours
Min:
4

Contact Hours

Contact Hours
Min:
4

Billing Hours

Billing Hours
Min:
4

Lecture Hours

Lecture Hours
Min:
4

Registration Restrictions

Admission to a USU major

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Fulfill ANY of the following requirements:

Option 1

Complete ALL of the following Courses:

- ECE3620 - Continuous - Time Systems and Signals

OR

Option 2

Complete ALL of the following Courses:

- MAE3340 - Instrumentation and Measurements
- MATH2250 - Linear Algebra and Differential Equations (QI)

***MAE3340 INSTRUMENTATION/MEASUREMENTS** may be taken concurrently*

OR

Option 3

Complete ALL of the following Courses:

- MAE3340 - Instrumentation and Measurements
- MATH2270 - Linear Algebra (QI)
- MATH2280 - Ordinary Differential Equations (QI)

***MAE3340 INSTRUMENTATION/MEASUREMENTS** may be taken concurrently*

ECE5320 - Mechatronics - 4 - Credits

Course Overview

Course Prefix
ECE

Course Number
5320

Department
Electrical & Computer Engineering

Cross-Listed Courses
MAE5320 - Mechatronics

Course Title
Mechatronics

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers principles of motion sensors and actuators. It also includes modeling, analysis, and identification of discrete-time dynamic systems. Digital controller design methods are taught. The course includes nonlinear effects and their compensation. Laboratory work is required.

Credit Hours

Credit Hours
Min:
4

Contact Hours

Contact Hours
Min:
4

Billing Hours

Billing Hours
Min:
4

Lecture Hours

Lecture Hours
Min:
4

Simple Requisites

Prerequisites

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ECE5310 - Control Systems
  OR MAE5310 - Control Systems

ECE5330 - Small Unmanned Aircraft Systems - 3 - Credits

Course Overview

Course Prefix
ECE

Course Number
5330

Department
Electrical & Computer Engineering

Cross-Listed Courses
MAE5330 - Small Unmanned Aircraft Systems

Course Title
Small Unmanned Aircraft Systems

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students develop an understanding of flight control systems, including dynamic models for aircraft, low level autopilot design, state estimation, trajectory following, and path planning.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ECE5310 - Control Systems
  OR MAE5310 - Control Systems
- ECE1410 - Computer Programming for Electrical and Computer Engineers II
  OR CS1410 - Introduction to Computer Science--CS 2 (QI)

ECE5340 - Introduction to Planning and Control for Mobile Robots - 3 - Credits

Course Overview

Course Prefix
ECE

Course Number
5340

Department
Electrical & Computer Engineering

Cross-Listed Courses
MAE5340 - Introduction to Planning and Control for Mobile Robots

Course Title
Introduction to Planning and Control for Mobile Robots

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course presents a controls perspective to the fundamentals of mobile robotic motion control. Topics include basic kinematic motion models and primitives, graph-based obstacle-modeling and optimal graph-based planning, optimal sample-based planning, and vector field approaches.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ECE1410 - Computer Programming for Electrical and Computer Engineers II
  OR CECS1410 - Introduction to Computer Science - CS2
- MATH2250 - Linear Algebra and Differential Equations (QI)
  OR MATH2280 - Ordinary Differential Equations (QI)

ECE5345 - Introduction to the Robot Operating System (ROS) - 1 - Credits

Course Overview

Course Prefix
ECE

Course Number
5345

Department
Electrical & Computer Engineering

Course Title
Introduction to the Robot Operating System (ROS)

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces students to programming in the ROS environment (an ecosystem of established and developing libraries for robotic systems) through a series of basic modules and exercises.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Registration Restrictions
Admission to a USU major

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ECE1410 - Computer Programming for Electrical and Computer Engineers II
  OR CS1410 - Introduction to Computer Science--CS 2 (QI)

ECE5420 - Microelectronics II - 3 - Credits

Course Overview

Course Prefix
ECE

Course Number
5420

Department
Electrical & Computer Engineering

Dual-Listed Courses
ECE6420 - Microelectronics II

Course Title
Microelectronics II

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers the fundamentals of integrated microelectronics (i.e. microchips). Topics include semiconductor junction physics, optoelectronics, analog and digital CMOS circuits, and memory circuits. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Admission to the Professional Engineering Program

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ECE3410 - Microelectronics I

ECE5460 - VLSI Design Automation - 3 - Credits

Course Overview

Course Prefix
ECE

Course Number
5460

Department
Electrical & Computer Engineering

Dual-Listed Courses
ECE6460 - VLSI Design Automation

Course Title
VLSI Design Automation

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course includes an introduction to basic algorithms and methodologies for automating the design of modern VLSI circuits. The course emphasizes physical design problems and CAD design problems using simulated annealing, dynamic programming, and mathematical programming.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Admission to a USU major

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ECE1400 - Computer Programming for Electrical and Computer Engineers I
- ECE2700 - Digital Circuits

ECE5470 - VLSI Design - 3 - Credits

Course Overview

Course Prefix
ECE

Course Number
5470

Department
Electrical & Computer Engineering

Dual-Listed Courses
ECE6470 - VLSI Design

Course Title
VLSI Design

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Introduces the standard cell library-based design flow in VLSI, including design methodology and IP design, CMOS circuit design styles, and design technology for low power and thermal aware designs.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Admission to the Professional Engineering program

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ECE5460 - VLSI Design Automation
  OR ECE6460 - VLSI Design Automation

ECE5480 - VLSI Testing and Security - 3 - Credits

Course Overview

Course Prefix
ECE

Course Number
5480

Department
Electrical & Computer Engineering

Dual-Listed Courses
ECE6480 - VLSI Testing and Security

Course Title
VLSI Testing and Security

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students learn the theory and practice of testing VLSI systems. The topics cover fault modeling, fault simulation, test generation, secure hardware testing, scan design, and design for testability (DFT). Students get experience with commercial testing and DFT tools. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Admission to the professional program

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ECE2700 - Digital Circuits

ECE5510 - Reinforcement Learning - 3 - Credits

Course Overview

Course Prefix
ECE

Course Number
5510

Department
Electrical & Computer Engineering

Course Title
Reinforcement Learning

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students learn how agents make sequential decisions under uncertainty using reinforcement learning methods, including value-based, policy-based, and model-based algorithms applied to real-world systems.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Other Enrollment Recommendations
Strong programming proficiency.

Course Learning Objectives

Course Learning Outcomes
Students will be able to:

1. Formulate decision-making problems as reinforcement learning tasks.
2. Implement and compare major reinforcement learning algorithms.
3. Analyze tradeoffs in exploration, exploitation, and robustness.
4. Apply reinforcement learning to real-world domains.

ECE5520 - Robot Reasoning - 3 - Credits

Course Overview

Course Prefix
ECE

Course Number
5520

Department
Electrical & Computer Engineering

Dual-Listed Courses
ECE6520 - Robot Reasoning

Course Title
Robot Reasoning

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students learn how autonomous systems reason, plan, and act under uncertainty by integrating symbolic, probabilistic, and learning-based approaches within robust robotic architectures. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Other Enrollment Recommendations
Strong programming proficiency and knowledge of robotics.

Course Learning Objectives

Course Learning Outcomes
Students will be able to:

1. Design state, belief, and map representations for robots.
2. Integrate multiple reasoning paradigms into unified architectures.
3. Analyze failure modes and uncertainty sources.
4. Develop robust robot decision-making systems.

ECE5540 - AI Architecture: Deployment, Systems, and Real-World Const - 3 - Credits

Course Overview

Course Prefix
ECE

Course Number
5540

Department
Electrical & Computer Engineering

Dual-Listed Courses
ECE6540 - AI Architecture: Deployment, Systems, and Real-World Const

Course Title
AI Architecture: Deployment, Systems, and Real-World Const

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students learn to design and deploy AI systems by integrating models, memory, and services while balancing latency, reliability, cost, and scalability constraints in real-world environments. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Other Enrollment Recommendations
Strong programming background.

Course Learning Objectives

Course Learning Outcomes
Students will be able to:

1. Design AI system architectures under real-world constraints.
2. Apply optimization techniques such as quantization and distillation.
3. Implement retrieval-augmented AI systems.
4. Evaluate architectural tradeoffs and failures.

ECE5600 - Introduction to Computer Networks - 3 - Credits

Course Overview

Course Prefix
ECE

Course Number
5600

Department
Electrical & Computer Engineering

Course Title
Introduction to Computer Networks

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course includes an introduction to computer network terminology, network applications, network technologies, and internetworking. Students are introduced to protocol stacks and each layer is studied. Particular attention is paid to the TCP/IP protocol stack.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Admission to a USU major

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ECE3620 - Continuous - Time Systems and Signals
- MATH5710 - Introduction to Probability
  OR STAT3000 - Statistics for Scientists (QI)

ECE5610 - Wireless Communication Networks - 3 - Credits

Course Overview

Course Prefix
ECE

Course Number
5610

Department
Electrical & Computer Engineering

Dual-Listed Courses
ECE6610 - Wireless Communication Networks

Course Title
Wireless Communication Networks

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students learn the theory of wireless communication, networks, and protocols. Students will learn different channel models, multiple access techniques, channel estimation, equalization, and protocols for LTE, 5G, Wireless LAN, and PANs. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ECE5600 - Introduction to Computer Networks

ECE5630 - Digital Signal and Image Processing - 3 - Credits

Course Overview

Course Prefix
ECE

Course Number
5630

Department
Electrical & Computer Engineering

Dual-Listed Courses
ECE6630 - Digital Signal and Image Processing

Course Title
Digital Signal and Image Processing

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students learn the theory and applications of digital signal and image processing, including filter design, multi-rate processing, the FFT, and 2D systems, signals, and transforms. Some lab and computational work is required. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Admission to a USU major

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:
- ECE3640 - Discrete - Time Systems and Signals

ECE5640 - Real-Time Processors - 4 - Credits

Course Overview

Course Prefix
ECE

Course Number
5640

Department
Electrical & Computer Engineering

Course Title
Real-Time Processors

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students learn real-time processor architectures and methods used for digital signal processing, including C and assembly language programming, modern DSP and GPU architectures, and finite word-length effects. The laboratory includes implementation of hardware-based real-time systems.

Credit Hours

Credit Hours
Min:
4

Contact Hours

Contact Hours
Min:
4

Billing Hours

Billing Hours
Min:
4

Lecture Hours

Lecture Hours
Min:
4

Registration Restrictions
Admission to a USU major

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:
- ECE3640 - Discrete - Time Systems and Signals
- ECE3710 - Microcontroller Hardware and Software

ECE5650 - Optics I - 3 - Credits

Course Overview

Course Prefix
ECE

Course Number
5650

Department
Electrical & Computer Engineering

Cross-Listed Courses
PHYS5650 - Optics I

Dual-Listed Courses
ECE6650 - Optics I

Course Title
Optics I

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students learn the mathematics of wave motion, electromagnetic theory of light, light propagation, geometrical optics, and superposition of waves. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ANY of the following Courses:

- PHYS3600 - Electromagnetism I
- ECE3870 - Electromagnetics I

Course Learning Objectives

Course Learning Outcomes
1. Students will gain the basic knowledge of optical system (paraxial optics), including the optical technologies involved in the performance of some optical instruments, such as telescope and FPI.
2. The students are also expected to understand the E&M theory on light propagation in the medium, including reflection and refraction etc.

ECE5660 - Communication Systems 1 - 3 - Credits

Course Overview

Course Prefix
ECE

Course Number
5660

Department
Electrical & Computer Engineering

Dual-Listed Courses
ECE6660 - Communication Systems 1

Course Title
Communication Systems 1

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students explore fundamentals of analog and digital communication systems. The course focuses on modulation, demodulation, detection, and synchronization. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Registration Restrictions
Admission to a USU major

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:
- ECE3640 - Discrete - Time Systems and Signals
- MATH5710 - Introduction to Probability

ECE5700 - Introduction to Microfabrication - 3 - Credits

Course Overview

Course Prefix
ECE

Course Number
5700

Department
Electrical & Computer Engineering

Cross-Listed Courses
BENG5700 - Introduction to Microfabrication, MAE5700 - Introduction to Microfabrication, PHYS5700 - Introduction to Microfabrication

Course Title
Introduction to Microfabrication

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers materials, wet chemical cleaning and etch, photolithography, metal deposition, doping, carrier density and conductivity, microfluidics, and micro-electronic-mechanical-systems.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Registration Restrictions
Admission to Professional Engineering Program

Special Approval
Instructor permission

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:
- PHYS2210 - Physics for Scientists and Engineers I (QI/BPS) **OR** PHYS2310 - Physics for Scientists I (BPS)

- PHYS2215 - Physics for Scientists and Engineers Lab I
- PHYS2220 - Physics for Scientists and Engineers II (BPS/QI) **OR** PHYS2320 - Physics for Scientists II (BPS)
- PHYS2225 - Physics for Scientists and Engineers Lab II

ECE5710 - Advanced Microfabrication - 3 - Credits

Course Overview

Course Prefix
ECE

Course Number
5710

Department
Electrical & Computer Engineering

Cross-Listed Courses
BENG5710 - Advanced Microfabrication, PHYS5710 - Advanced Microfabrication

Course Title
Advanced Microfabrication

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Students are trained to use all necessary tools at the Nanoscale Device Laboratory to perform fabrication of micro/nanostructures for their research needs, including undergraduate and graduate research projects.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ANY of the following Courses:

- BENG5700 - Introduction to Microfabrication
  OR ECE5700 - Introduction to Microfabrication
  OR MAE5700 - Introduction to Microfabrication
  OR PHYS5700 - Introduction to Microfabrication

ECE5720 - Computer Systems Programming and Architecture - 3 - Credits

Course Overview

Course Prefix
ECE

Course Number
5720

Department
Electrical & Computer Engineering

Course Title
Computer Systems Programming and Architecture

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students learn advanced assembly language and systems programming concerned with performance. The course covers the study of modern computer architecture issues, such as caching, pipelining, concurrent instruction execution, and virtual memory.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Admission to a USU major

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:
- ECE2700 - Digital Circuits
- ECE3710 - Microcontroller Hardware and Software

ECE3710 MICROCONTROLLER HW AND SW may be taken concurrently

ECE5730 - Reconfigurable Computing - 3 - Credits

Course Overview

Course Prefix
ECE

Course Number
5730

Department
Electrical & Computer Engineering

Dual-Listed Courses
ECE6730 - Reconfigurable Computing

Course Title
Reconfigurable Computing

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This is a course in digital design using Field-Programmable Gate Arrays (FPGAs) and it provides an introduction to VHDL. Students explore FPGAs, design tools, advanced state machines, data management, I/O interfaces, and FPGA design practices. A practical design project is included. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:
- ECE2700 - Digital Circuits
- ECE3710 - Microcontroller Hardware and Software

ECE5750 - Computer Architecture - 3 - Credits

Course Overview

Course Prefix
ECE

Course Number
5750

Department
Electrical & Computer Engineering

Dual-Listed Courses
ECE6750 - Computer Architecture

Course Title
Computer Architecture

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Modern architecture fundamentals, instruction set analysis and design, pipelined and superscalar architectures, software-hardware interaction, memory hierarchy, virtual memory stresses, and evaluation of multi-level systems.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Admission to the Professional Engineering Program

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ECE5720 - Computer Systems Programming and Architecture

ECE5760 - Hardware Security - 3 - Credits

Course Overview

Course Prefix
ECE

Course Number
5760

Department
Electrical & Computer Engineering

Dual-Listed Courses
ECE6760 - Hardware Security

Course Title
Hardware Security

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students explore vulnerabilities in computer hardware, focusing on architecture's role in attacks and defenses. Topics include cache side-channel attacks, speculative execution vulnerabilities, memory-level issues like row-hammer, and fault injection attacks in artificial intelligence hardware acceleration. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Admission to the Professional Program

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ECE3710 - Microcontroller Hardware and Software
  OR ECE5720 - Computer Systems Programming and Architecture

ECE5780 - Embedded Real-Time Systems - 4 - Credits

Course Overview

Course Prefix
ECE

Course Number
5780

Department
Electrical & Computer Engineering

Dual-Listed Courses
ECE6780 - Embedded Real-Time Systems

Course Title
Embedded Real-Time Systems

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students learn real-time system design and implementation of basic concepts, including modeling, scheduling, resource access control, synchronization, and communication. Emphasis is placed on both theory and practice. Course includes exploration of open topics and current challenges in designing real-time systems and hands-on implementation.

Credit Hours

Credit Hours Min:
4

Contact Hours

Contact Hours Min:
4

Billing Hours

Billing Hours Min:
4

Lecture Hours

Lecture Hours Min:
4

Registration Restrictions
Admission to the Professional Engineering Program

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ECE3710 - Microcontroller Hardware and Software

ECE5790 - Principles of Cyber-Physical Systems - 3 - Credits

Course Overview

Course Prefix
ECE

Course Number
5790

Department
Electrical & Computer Engineering

Dual-Listed Courses
ECE6790 - Principles of Cyber-Physical Systems

Course Title
Principles of Cyber-Physical Systems

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces the principled approach in cyber-physical system (CPS) design and includes its integration of computation and physical processes to network-embedded computing components. Topics include model-based design, distributed algorithms, formal specification and verification, and timed and hybrid systems.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Registration Restrictions
Admission to a USU major

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- MATH3310 - Discrete Mathematics
- CS2420 - Algorithms and Data Structures--CS 3 (QI)

ECE5795 - Reasoning About Computing Systems: Foundations - 3 - Credits

Course Overview

Course Prefix
ECE

Course Number
5795

Department
Electrical & Computer Engineering

Dual-Listed Courses
ECE6795 - Reasoning About Computing Systems: Foundations

Course Title
Reasoning About Computing Systems: Foundations

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students learn to formally reason about computing systems, including first-order logic, deductive verification, and inductive proofs. Using the verification-aware language, Dafny, students formally reason about sequential programs, concurrency, and hardware design. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- MATH3310 - Discrete Mathematics
- ECE2420 - Algorithms and Data Structures
  OR CS2420 - Algorithms and Data Structures--CS 3 (QI)

Course Learning Objectives

Course Learning Outcomes
Students will be able to:

1. Apply formal logic to specify program/computer hardware behavior: Students will use first-order logic to write precise specifications for programs, including preconditions, postconditions, and invariants.
2. Construct formal correctness proofs: Students will develop deductive proofs to verify that sequential programs, concurrent systems, and hardware designs meet their specifications.
3. Design and verify loop invariants: Students will identify appropriate loop invariants and prove program correctness using inductive reasoning techniques.
4. Reason about concurrent systems: Students will formally analyze programs with shared state and concurrency, identifying and preventing race conditions and ensuring thread safety.
5. Use verification tools effectively: Students will employ Dafny to mechanically verify program correctness and interpret verification feedback to debug both code and specifications.

ECE5800 - Electromagnetics II - 3 - Credits

Course Overview

Course Prefix
ECE

Course Number
5800

Department
Electrical & Computer Engineering

Course Title
Electromagnetics II

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
General plane wave solution of Maxwell's equations, potential functions, radiation, 2-D solution to Laplace's equation, and fundamental electromagnetic theory.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Admission to the Professional Engineering Program\

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ECE3870 - Electromagnetics I

ECE5810 - Microwave Circuits I - 3 - Credits

Course Overview

Course Prefix
ECE

Course Number
5810

Department
Electrical & Computer Engineering

Course Title
Microwave Circuits I

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students learn microwave circuit topics such as impedance matching, microwave network analysis, waveguides, analysis and design of power dividers, and filters. Laboratory work is required.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Admission to the Professional Engineering Program

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ECE3870 - Electromagnetics I

ECE5850 - Antennas I - 3 - Credits

Course Overview

Course Prefix
ECE

Course Number
5850

Department
Electrical & Computer Engineering

Course Title
Antennas I

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Theory and application of electromagnetic radiation and radiating structures. Emphasis on antenna designs for modern wireless communications and radar systems.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Registration Restrictions
Admission to the Professional Engineering Program

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ECE3870 - Electromagnetics I

ECE5930 - Special Topics in Electrical and Computer Engineering - 1 - 4 Credits

Course Overview

Course Prefix
ECE

Course Number
5930

Department
Electrical & Computer Engineering

Course Title
Special Topics in Electrical and Computer Engineering

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Independent or group study of engineering problems not covered in regular course offerings.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
4

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
4

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
4

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
4

Lecture Hours Operator:
TO

Registration Restrictions
Admission to the Professional Engineering Program

ECE6010 - Stochastic Processes in Electronic Systems - 3 - Credits

Course Overview

Course Prefix
ECE

Course Number
6010

Department
Electrical & Computer Engineering

Course Title
Stochastic Processes in Electronic Systems

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Introduction to stochastic processes in communications, signal processing, digital and computer systems, and control. Topics include continuous and discrete random processes, correlation and power spectral density, optimal filtering, Markov chains, and queuing theory.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

ECE6030 - Mathematical Methods for Signals and Systems - 3 - Credits

Course Overview

Course Prefix
ECE

Course Number
6030

Department
Electrical & Computer Engineering

Course Title
Mathematical Methods for Signals and Systems

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Signal representation using vector spaces. Linear algebraic techniques for signal modeling and estimation. Optimal detection and estimation algorithms, with applications.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

ECE6040 - Convex Optimization - 3 - Credits

Course Overview

Course Prefix
ECE

Course Number
6040

Department
Electrical & Computer Engineering

Course Title
Convex Optimization

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
The theory of convex optimization and applications, as applied to engineering. Numerical methods for solving convex optimization problems are presented. Computational work required.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

ECE6050 - Cryptography - 3 - Credits

Course Overview

Course Prefix
ECE

Course Number
6050

Department
Electrical & Computer Engineering

Dual-Listed Courses
ECE5050 - Cryptography

Course Title
Cryptography

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students learn classical and modern secret codes. Classical cryptography includes Viginere and substitution ciphers and cryptanalysis. Students learn number theory for RSA and AES, hashing and cryptographic protocols, block chain and digital cash, and quantum-based approaches. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Admission to a USU major

Other Enrollment Recommendations
An introductory course in probability will be helpful.

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- MATH2250 - Linear Algebra and Differential Equations (QI)

ECE6120 - Introduction to Power Electronics - 3 - Credits

Course Overview

Course Prefix
ECE

Course Number
6120

Department
Electrical & Computer Engineering

Dual-Listed Courses
ECE5120 - Introduction to Power Electronics

Course Title
Introduction to Power Electronics

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students study power electronics including steady-state modeling, conduction and switching losses, semiconductor power switches, converter transfer functions, topologies and dynamics, negative feedback, closed-loop transfer functions, controller stability and phase margin, regulator design, and basic magnetics theory and inductor design procedures.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:
- ECE3410 - Microelectronics I
- ECE3620 - Continuous - Time Systems and Signals

ECE6150 - Power Electronics for Electric Drive Vehicles - 3 - Credits

Course Overview

Course Prefix
ECE

Course Number
6150

Department
Electrical & Computer Engineering

Dual-Listed Courses
ECE5150 - Power Electronics for Electric Drive Vehicles

Course Title
Power Electronics for Electric Drive Vehicles

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces the design and control of power converters in electric drive vehicles. It covers detailed analysis, modeling, and design of major system components. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:
- ECE3410 - Microelectronics I
- ECE3620 - Continuous - Time Systems and Signals
- ECE3870 - Electromagnetics I

ECE6160 - Electric Vehicle Design Laboratory - 4 - Credits

Course Overview

Course Prefix
ECE

Course Number
6160

Department
Electrical & Computer Engineering

Dual-Listed Courses
ECE5160 - Electric Vehicle Design Laboratory

Course Title
Electric Vehicle Design Laboratory

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students receive practical, hands-on experience working with a 500W electric bike powertrain. Labs cover modeling, characterization, design, and fabrication, and culminate in e-bike system integration and demonstration. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
4

Contact Hours

Contact Hours
Min:
4

Billing Hours

Billing Hours
Min:
4

Lecture Hours

Lecture Hours
Min:
4

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:
- ECE3710 - Microcontroller Hardware and Software
- ECE5120 - Introduction to Power Electronics
  OR ECE6120 - Introduction to Power Electronics
- ECE5150 - Power Electronics for Electric Drive Vehicles
  OR ECE6150 - Power Electronics for Electric Drive Vehicles

ECE6230 - Spacecraft Systems Engineering - 3 - Credits

Course Overview

Course Prefix
ECE

Course Number
6230

Department
Electrical & Computer Engineering

Dual-Listed Courses
ECE5230 - Spacecraft Systems Engineering

Course Title
Spacecraft Systems Engineering

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students learn spacecraft communications, telemetry systems, and command and data handling. The course includes an introduction to astrodynamics and orbit design, electrical power generation and storage, and spacecraft subsystems (e.g., guidance, navigation, and control).

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ANY of the following Courses:
- ENGR2210 - Fundamental Electronics for Engineers
  OR ECE2290 - Electrical Circuits II

Prerequisite

Type
Prerequisite

Option 1

Complete ALL of the following Courses:
- MATH2270 - Linear Algebra (QI)
  AND MATH2280 - Ordinary Differential Equations (QI)

Option 2

Complete ALL of the following Courses:
- MATH2250 - Linear Algebra and Differential Equations (QI)

Course Learning Objectives

Course Learning Outcomes

1. Students will have a basic understanding of the space environment and its effects on space systems.

2. Students will understand the time and coordinate systems used in space systems engineering.

3. Students will gain a working knowledge of orbital mechanics through orbital simulation software and will be able to design orbits for various Earth orbiting satellite missions and extract information needed in the design of spacecraft systems.

4. Students will have a conceptual understanding of spacecraft propulsion, launch systems, attitude determination & control systems and thermal control systems.

5. Students will have a conceptual understanding and can formulate a conceptual design for a spacecraft solar battery power system.

6. Students will have an understanding and can formulate a conceptual design for a spacecraft communication, telemetry and command and data handling systems.

7. Students will be able to develop reasonable systems engineering trades based on a broad understanding of the various systems that compromise a spacecraft and how they relate to the spacecraft's mission.

8. Students will become proficient in the use of Excel spreadsheets as a tool for conceptual system design.

9. Students will have an advanced knowledge of orbital simulation software and system modeling software.

10. Students will become familiar with the historical application of space systems engineering for several major mission.

ECE6235 - Space System Design - 3 - Credits

Course Overview

Course Prefix
ECE

Course Number
6235

Department
Electrical & Computer Engineering

Dual-Listed Courses
ECE5235 - Space System Design

Course Title
Space System Design

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students in teams perform a space system design involving all aspects, including technical, cost, and schedule. The class is linked to national design competitions and/or current USU spacecraft design projects.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ANY of the following Courses:
- ECE5230 - Spacecraft Systems Engineering
- ECE6230 - Spacecraft Systems Engineering
- MAE5520 - Elements of Space Flight

Course Learning Objectives

Course Learning Outcomes

1. An understanding of the NASA systems engineering process for space mission formulation from concept to end of life including requirements definition, decomposition, and verification strategy.

2. Understand the need for developing mission and system architecture options and conducting trade studies to support engineering decisions.

3. Produce a conceptual spacecraft design demonstrating mass, power, data, orbit, and environmental feasibility.

4. Integrate subsystem analyses into a unified system-level mission design.

5. Understand the NASA project life cycle and the role of structured technical reviews (e.g., SRR/SDR-level design reviews).

6. Understand professional documentation practices typical of NASA or DoD engineering environments.

7. Recognize the ethical, safety, export-control, and scientific-impact considerations associated with space missions.

8. Students will have an advance understanding of the NASA and the DOD engineering process.

9. Students will understand the complexity of leading an multidiscipline team to conduct trade studies and reports of a space mission1. Students will have an advance understanding of the NASA and the DOD engineering process.

ECE6240 - Space Environment and Engineering - 3 - Credits

Course Overview

Course Prefix
ECE

Course Number
6240

Department
Electrical & Computer Engineering

Cross-Listed Courses
PHYS6240 - Space Environment and Engineering

Course Title
Space Environment and Engineering

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Study of space environment and models used for engineering analysis. Topics include considerations for engineering in the space environment such as plasma interactions, debris, chemical reactions, radiation effects, and thermal issues.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ANY of the following Courses:

- ECE5230 - Spacecraft Systems Engineering
  OR ECE6230 - Spacecraft Systems Engineering

may be taken concurrently

ECE6250 - Graduate Internship/Coop - 1 - 3 Credits

Course Overview

Course Prefix
ECE

Course Number
6250

Department
Electrical & Computer Engineering

Course Title
Graduate Internship/Coop

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
Students will submit a plan for work experience in the industry. The detailed program must have prior approval and a written report is required.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

Special Approval
Instructor permission

No Requirements

ECE6281 - Systems Approach to Electrified Transportation - 3 - Credits

Course Overview

Course Prefix
ECE

Course Number
6281

Department
Electrical & Computer Engineering

Cross-Listed Courses
CEE6281 - Systems Approach to Electrified Transportation

Course Title
Systems Approach to Electrified Transportation

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students learn to analyze electrified transportation using a systems-of-systems framework, examining interactions among vehicles, charging infrastructure, power grids, policy, economics, and societal impacts.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Course Learning Objectives

Course Learning Outcomes

1. Examine the relationships between the various systems involved in transportation electrification.
2. Examine how transportation electrification challenges typical ways of planning and operating electric power and transportation systems.
3. Evaluate the emerging adoption and policy landscape surrounding electric vehicles and charging infrastructure.
4. Assess the evolving effects of transportation electrification on the environment, human health, the economy, and society.
5. Analyze data related to specific problems in transportation electrification.

ECE6282 - AI-Enabled Electrified Transportation Networks - 3 - Credits

Course Overview

Course Prefix
ECE

Course Number
6282

Department
Electrical & Computer Engineering

Cross-Listed Courses
CEE6282 - AI-Enabled Electrified Transportation Networks

Course Title
AI-Enabled Electrified Transportation Networks

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students learn to model and optimize electrified transportation networks using data-driven and artificial intelligence methods, including demand estimation, infrastructure planning, and policy-aware system analysis.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Other Enrollment Recommendations
Students should have introductory programming experience or equivalent technical background.

Course Learning Objectives

Course Learning Outcomes
Upon successful completion of this course, students will be able to:

1. Identify key components and performance metrics of electrified transportation networks.
2. Develop computational models to estimate electric vehicle and electric transit charging demand.
3. Apply machine learning and AI techniques to transportation electrification planning and optimization problems.
4. Analyze the influence of policy and equity considerations on network design and deployment decisions.
5. Evaluate model results to support infrastructure planning and operational decision-making.

ECE6283 - Urban Sustainability and Energy Modeling - 3 - Credits

Course Overview

Course Prefix
ECE

Course Number
6283

Department
Electrical & Computer Engineering

Cross-Listed Courses
CEE6283 - Urban Sustainability and Energy Modeling

Course Title
Urban Sustainability and Energy Modeling

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students learn to model urban energy systems by integrating transportation electrification, building energy use, renewable generation, economics, and sustainability considerations to support data-informed planning decisions.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Other Enrollment Recommendations
It is recommended that students have background in quantitative reasoning.

Course Learning Objectives

Course Learning Outcomes
Upon successful completion of this course, students will be able to:

1. Explain the interactions among transportation, building energy use, power systems, and urban sustainability goals.
2. Construct urban-scale energy models incorporating electrified transportation, buildings, and renewable resources.
3. Analyze spatiotemporal energy demand patterns and their implications for planning and operations.
4. Interpret modeling results within economic, environmental, and equity contexts.
5. Develop integrated sustainability strategies informed by quantitative energy modeling.

ECE6284 - Advanced Energy Systems and Grid Modernization - 3 - Credits

Course Overview

Course Prefix
ECE

Course Number
6284

Department
Electrical & Computer Engineering

Cross-Listed Courses
CEE6284 - Advanced Energy Systems and Grid Modernization

Course Title
Advanced Energy Systems and Grid Modernization

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students learn to design and implement modern energy management systems using industry protocols and Artificial Intelligence (AI) techniques to support grid modernization, electrified transportation, and distributed energy resources.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Other Enrollment Recommendations
ECE6281 SYS APPROACH TO ELECT. TRANS. or CEE6281 SYS APPROACH TO ELECT. TRANS. or equivalent background.

Course Learning Objectives

Course Learning Outcomes
1. Develop practical skills in software development for hardware-in-the-loop projects related to grid modernization.
2. Implement OCPP 1.6.1 and 2.0.1, focusing on their purpose, usage, and cyber-physical security aspects.
3. Utilize OpenADR as an effective energy management system for grid-to-site control and resource management.
4. Build fundamental energy management systems using OCPP, OpenADR, and real-time price signals.
5. Apply AI techniques, including Q-learning, reinforcement learning, and Transformer models, to create intelligent EMS solutions for predicting and managing energy demands and resources.

ECE6320 - Linear Multivariable Control - 3 - Credits

Course Overview

Course Prefix
ECE

Course Number
6320

Department
Electrical & Computer Engineering

Cross-Listed Courses
MAE6320 - Linear Multivariable Control

Course Title
Linear Multivariable Control

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Modeling, analysis, and design of multi-input, multi-output control systems, including both state space and transfer matrix approaches, with an emphasis on stability.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:
- ECE5310 - Control Systems
  OR MAE5310 - Control Systems

ECE6340 - Spacecraft Attitude Control Theory - 3 - Credits

Course Overview

Course Prefix
ECE

Course Number
6340

Department
Electrical & Computer Engineering

Cross-Listed Courses
MAE6340 - Spacecraft Attitude Control Theory

Course Title
Spacecraft Attitude Control Theory

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers spacecraft attitude dynamics and controls, including spin stabilized, three axis, dual spin modes, and attitude determination techniques.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ECE5310 - Control Systems
  OR MAE5310 - Control Systems

ECE6420 - Microelectronics II - 3 - Credits

Course Overview

Course Prefix
ECE

Course Number
6420

Department
Electrical & Computer Engineering

Dual-Listed Courses
ECE5420 - Microelectronics II

Course Title
Microelectronics II

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers the fundamentals of integrated microelectronics (i.e. microchips). Topics include semiconductor junction physics, optoelectronics, analog and digital CMOS circuits, and memory circuits. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ECE3410 - Microelectronics I

Course Learning Objectives

Course Learning Outcomes
1. Understand fundamental physics underlying semiconductor devices.

2. Analyze and Design

1. Operational amplifier circuits in open-loop and in feedback configuration.
2. Transistor-level amplifier circuits using MOSFETs.
3. Transistor-level CMOS logic circuits using static CMOS, transmission gates, and cross-

   bar topologies.
4. Transistor-level memory circuits including SRAM and DRAM cells, address decoders, sense-amplifiers, and read/write operations.

   3. Find, interpret, and contextualize research literature and news media on a chosen topic within microelectronics.

ECE6460 - VLSI Design Automation - 3 - Credits

Course Overview

Course Prefix
ECE

Course Number
6460

Department
Electrical & Computer Engineering

Dual-Listed Courses
ECE5460 - VLSI Design Automation

Course Title
VLSI Design Automation

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course includes an introduction to basic algorithms and methodologies for automating the design of modern VLSI circuits. The course emphasizes physical design problems and CAD design problems using simulated annealing, dynamic programming, and mathematical programming. Additional coursework may be required for graduate students.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ECE1400 - Computer Programming for Electrical and Computer Engineers I
- ECE2700 - Digital Circuits

ECE6470 - VLSI Design - 3 - Credits

Course Overview

Course Prefix
ECE

Course Number
6470

Department
Electrical & Computer Engineering

Dual-Listed Courses
ECE5470 - VLSI Design

Course Title
VLSI Design

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Introduces the standard cell library-based design flow in VLSI, including design methodology and IP design, CMOS circuit design styles, and design technology for low power and thermal aware designs.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ECE5460 - VLSI Design Automation
  OR ECE6460 - VLSI Design Automation

ECE6480 - VLSI Testing and Security - 3 - Credits

Course Overview

Course Prefix
ECE

Course Number
6480

Department
Electrical & Computer Engineering

Dual-Listed Courses
ECE5480 - VLSI Testing and Security

Course Title
VLSI Testing and Security

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students learn the theory and practice of testing VLSI systems. The topics cover fault modeling, fault simulation, test generation, secure hardware testing, scan design, and design for testability (DFT). Students get experience with commercial testing and DFT tools. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Admission to the professional program

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ECE2700 - Digital Circuits

ECE6520 - Robot Reasoning - 3 - Credits

Course Overview

Course Prefix
ECE

Course Number
6520

Department
Electrical & Computer Engineering

Dual-Listed Courses
ECE5520 - Robot Reasoning

Course Title
Robot Reasoning

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students learn how autonomous systems reason, plan, and act under uncertainty by integrating symbolic, probabilistic, and learning-based approaches within robust robotic architectures. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Other Enrollment Recommendations
Strong programming proficiency and knowledge of robotics.

Course Learning Objectives

Course Learning Outcomes
Students will be able to:

1. Design state, belief, and map representations for robots.
2. Integrate multiple reasoning paradigms into unified architectures.
3. Analyze failure modes and uncertainty sources.
4. Develop robust robot decision-making systems.

ECE6540 - AI Architecture: Deployment, Systems, and Real-World Const - 3 - Credits

Course Overview

Course Prefix
ECE

Course Number
6540

Department
Electrical & Computer Engineering

Dual-Listed Courses
ECE5540 - AI Architecture: Deployment, Systems, and Real-World Const

Course Title
AI Architecture: Deployment, Systems, and Real-World Const

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students learn to design and deploy AI systems by integrating models, memory, and services while balancing latency, reliability, cost, and scalability constraints in real-world environments. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Other Enrollment Recommendations
Strong programming background.

Course Learning Objectives

Course Learning Outcomes
Students will be able to:

1. Design AI system architectures under real-world constraints.
2. Apply optimization techniques such as quantization and distillation.
3. Implement retrieval-augmented AI systems.
4. Evaluate architectural tradeoffs and failures.

ECE6560 - Spacecraft Navigation - 3 - Credits

Course Overview

Course Prefix
ECE

Course Number
6560

Department
Electrical & Computer Engineering

Cross-Listed Courses
MAE6560 - Spacecraft Navigation

Course Title
Spacecraft Navigation

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Fundamentals of aircraft and spacecraft navigation systems. Techniques in celestial and inertial navigation. Global Positioning System (GPS) principles. Least squares estimation and Kalman filtering for optimal estimation of stochastic systems.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- MAE5310 - Control Systems
  OR ECE5310 - Control Systems
  OR MAE5560 - Dynamics of Space Flight

ECE6570 - Optimal Spacecraft Guidance - 3 - Credits

Course Overview

Course Prefix
ECE

Course Number
6570

Department
Electrical & Computer Engineering

Cross-Listed Courses
MAE6570 - Optimal Spacecraft Guidance

Course Title
Optimal Spacecraft Guidance

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers theory and implementation of spacecraft guidance laws including Q-guidance, Apollo-era guidance, Shuttle-era guidance, linear quadratic framework, and modern guidance using convex optimization. Emphases are modeling, formulation of tractable optimization problems, and implementation of real-time algorithms.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- MATH2210 - Multivariable Calculus (QI)

Required

Fulfill ANY of the following requirements:

Option 1

Complete ALL of the following Courses:

- MATH2250 - Linear Algebra and Differential Equations (QI)

OR

Option 2

Complete ALL of the following Courses:

- MATH2270 - Linear Algebra (QI)
- MATH2280 - Ordinary Differential Equations (QI)

ECE6610 - Wireless Communication Networks - 3 - Credits

Course Overview

Course Prefix
ECE

Course Number
6610

Department
Electrical & Computer Engineering

Dual-Listed Courses

ECE5610 - Wireless Communication Networks

Course Title

Wireless Communication Networks

Grade Mode
Standard Letter

Repeat Status
NR

Course Description

Students learn the theory of wireless communication, networks, and protocols. Students will learn different channel models, multiple access techniques, channel estimation, equalization, and protocols for LTE, 5G, Wireless LAN, and PANs. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ECE5600 - Introduction to Computer Networks

ECE6630 - Digital Signal and Image Processing - 3 - Credits

Course Overview

Course Prefix
ECE

Course Number
6630

Department
Electrical & Computer Engineering

Dual-Listed Courses
ECE5630 - Digital Signal and Image Processing

Course Title
Digital Signal and Image Processing

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students learn the theory and applications of digital signal and image processing, including filter design, multi-rate processing, the FFT, and 2D systems, signals, and transforms. Some lab and computational work is required. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ECE3640 - Discrete - Time Systems and Signals

Course Learning Objectives

Course Learning Outcomes

1. Students will be able to explain the extension of 1D digital signal processing concepts such as systems and signals, transforms, sampling and reconstruction into two dimensions (images).

2. Students will be able to interpret the Discrete-time Fourier Transform (DTFT) and the Discrete Fourier Transform (DFT) and their uses in the analysis of discrete-time systems and signals.

3. Students will be able to design both FIR and IIR digital filters.

4. Students will be able to describe common Fast Fourier Transform (FFT) algorithms.

5. Students will be able to describe multi-rate processing concepts such as bandpass sampling, decimation and interpolation for sample rate conversion and oversampling converters.

6. Students will be able to describe image perception, including color perception.

7. Students will be able to implement image point-processing and spatial operation methods, including histogram modification/equalization and median filtering.

ECE6650 - Optics I - 3 - Credits

Course Overview

Course Prefix
ECE

Course Number
6650

Department
Electrical & Computer Engineering

Cross-Listed Courses
PHYS6650 - Optics I

Dual-Listed Courses
ECE5650 - Optics I

Course Title
Optics I

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students learn the mathematics of wave motion, electromagnetic theory of light, light propagation, geometrical optics, and superposition of waves. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ANY of the following Courses:

- PHYS3600 - Electromagnetism I
- ECE3870 - Electromagnetics I

Course Learning Objectives

Course Learning Outcomes

Course Learning Outcomes:
1. Students will gain knowledge of optical system (paraxial optics), including the optical technologies involved in the performance of some optical instruments, such as telescope and FPI.
2. The students are also expected to understand the E&M theory on light propagation in the medium, including reflection and refraction etc.

ECE6660 - Communication Systems 1 - 3 - Credits

Course Overview

Course Prefix
ECE

Course Number
6660

Department
Electrical & Computer Engineering

Dual-Listed Courses
ECE5660 - Communication Systems 1

Course Title
Communication Systems 1

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students explore fundamentals of analog and digital communication systems. The course focuses on modulation, demodulation, detection, and synchronization. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ECE3640 - Discrete - Time Systems and Signals
- MATH5710 - Introduction to Probability

Course Learning Objectives

Course Learning Outcomes

1. Describe signal space representations and commonly used signal constellations.
2. Describe valuation of system performance (probability of error and bandwidth).
3. Describe phase tracking and phase-locked loops.
4. Describe symbol timing estimation and tracking.
5. Describe principles of Viterbi algorithms and channel equalization techniques.
6. Create implementation of the Viterbi algorithm and its application to convolutional decoding.
7. Create implementation of methods of channel equalization.

ECE6730 - Reconfigurable Computing - 3 - Credits

Course Overview

Course Prefix
ECE

Course Number
6730

Department
Electrical & Computer Engineering

Dual-Listed Courses
ECE5730 - Reconfigurable Computing

Course Title
Reconfigurable Computing

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This is a course in digital design using Field-Programmable Gate Arrays (FPGAs) and it provides an introduction to VHDL. Students explore FPGAs, design tools, advanced state machines, data management, I/O interfaces, and FPGA design practices. A practical design project is included. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:
- ECE2700 - Digital Circuits
- ECE3710 - Microcontroller Hardware and Software

ECE6740 - Advanced Reconfigurable Computing - 3 - Credits

Course Overview

Course Prefix
ECE

Course Number
6740

Department
Electrical & Computer Engineering

Course Title
Advanced Reconfigurable Computing

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This is an advanced course in digital design and processing using Field-Programmable Gate Arrays (FPGAs). Students explore software/hardware co-design, reconfigurable processors, I/O interfaces, pipelining, parallelism, and modern FPGA design practices. The course is lab-intensive and includes a practical design project.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:
- ECE5730 - Reconfigurable Computing
  OR ECE6730 - Reconfigurable Computing

ECE6750 - Computer Architecture - 3 - Credits

Course Overview

Course Prefix
ECE

Course Number
6750

Department
Electrical & Computer Engineering

Dual-Listed Courses
ECE5750 - Computer Architecture

Course Title
Computer Architecture

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Modern architecture fundamentals, instruction set analysis and design, pipelined and superscalar architectures, software-hardware interaction, memory hierarchy, virtual memory stresses, and evaluation of multi-level systems.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Admission to the Professional Engineering Program

Simple Requisites

Prerquisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ECE5720 - Computer Systems Programming and Architecture

ECE6760 - Hardware Security - 3 - Credits

Course Overview

Course Prefix
ECE

Course Number
6760

Department
Electrical & Computer Engineering

Dual-Listed Courses
ECE5760 - Hardware Security

Course Title
Hardware Security

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students explore vulnerabilities in computer hardware, focusing on architecture's role in attacks and defenses. Topics include cache side-channel attacks, speculative execution vulnerabilities, memory-level issues like row-hammer, and fault injection attacks in artificial intelligence hardware acceleration. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Admission to the Professional Program

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ECE3710 - Microcontroller Hardware and Software
  OR ECE5720 - Computer Systems Programming and Architecture

ECE6780 - Embedded Real-Time Systems - 4 - Credits

Course Overview

Course Prefix
ECE

Course Number
6780

Department
Electrical & Computer Engineering

Dual-Listed Courses
ECE5780 - Embedded Real-Time Systems

Course Title
Embedded Real-Time Systems

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students learn real-time system design and implementation of basic concepts, including modeling, scheduling, resource access control, synchronization, and communication. Emphasis is placed on both theory and practice. The course includes exploration of open topics and current challenges in designing real-time systems and hands-on implementation.

Credit Hours

Credit Hours
Min:
4

Contact Hours

Contact Hours
Min:
4

Billing Hours

Billing Hours
Min:
4

Lecture Hours

Lecture Hours
Min:
4

Registration Restrictions
Admission to the Professional Engineering Program

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ECE3710 - Microcontroller Hardware and Software

ECE6790 - Principles of Cyber-Physical Systems - 3 - Credits

Course Overview

Course Prefix
ECE

Course Number
6790

Department
Electrical & Computer Engineering

Dual-Listed Courses
ECE5790 - Principles of Cyber-Physical Systems

Course Title
Principles of Cyber-Physical Systems

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces the principled approach in cyber-physical system (CPS) design and includes its integration of computation and physical processes to network-embedded computing components. Topics include model-based design, distributed algorithms, formal specification and verification, and timed and hybrid systems.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Admission to a USU major

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- MATH3310 - Discrete Mathematics
- CS2420 - Algorithms and Data Structures--CS 3 (QI)

ECE6795 - Reasoning About Computing Systems: Foundations - 3 - Credits

Course Overview

Course Prefix
ECE

Course Number
6795

Department
Electrical & Computer Engineering

Dual-Listed Courses
ECE5795 - Reasoning About Computing Systems: Foundations

Course Title
Reasoning About Computing Systems: Foundations

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students learn to formally reason about computing systems, including first-order logic, deductive verification, and inductive proofs. Using the verification-aware language, Dafny, students formally reason about sequential programs, concurrency, and hardware design. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- MATH3310 - Discrete Mathematics
- ECE2420 - Algorithms and Data Structures
  OR CS2420 - Algorithms and Data Structures--CS 3 (QI)

Course Learning Objectives

Course Learning Outcomes
Students will be able to:

1. Apply formal logic to specify program/computer hardware behavior: Students will use first-order logic to write precise specifications for programs, including preconditions, postconditions, and invariants.
2. Construct formal correctness proofs: Students will develop deductive proofs to verify that sequential programs, concurrent systems, and hardware designs meet their specifications.
3. Design and verify loop invariants: Students will identify appropriate loop invariants and prove program correctness using inductive reasoning techniques.
4. Reason about concurrent systems: Students will formally analyze programs with shared state and concurrency, identifying and preventing race conditions and ensuring thread safety.
5. Use verification tools effectively: Students will employ Dafny to mechanically verify program correctness and interpret verification feedback to debug both code and specifications.

ECE6800 - Electrical Engineering Colloquium - 0.5 - Credits

Course Overview

Course Prefix
ECE

Course Number
6800

Department
Electrical & Computer Engineering

Course Title
Electrical Engineering Colloquium

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
Weekly seminars or colloquia. Students are normally required to enroll for two semesters.

Credit Hours

Credit Hours
Min:
0.5

Contact Hours

Contact Hours
Min:
0.5

Billing Hours

Billing Hours
Min:
0.5

Lecture Hours

Lecture Hours
Min:
0.5

No Requirements

ECE6830 - Microwave Circuits II - 3 - Credits

Course Overview

Course Prefix
ECE

Course Number
6830

Department
Electrical & Computer Engineering

Course Title
Microwave Circuits II

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students learn about microwave amplifier design for noise, gain, and power match; microwave semiconductor and vacuum-tube devices; microwave oscillators; and microwave system performance characterization. Laboratory work is required.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ECE5810 - Microwave Circuits I

ECE6930 - Special Topics in Electrical Engineering - 1 - 6 Credits

Course Overview

Course Prefix
ECE

Course Number
6930

Department
Electrical & Computer Engineering

Course Title
Special Topics in Electrical Engineering

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Independent or group study in electrical engineering topics, such as automated systems, optics and laser engineering, electro-acoustics, solid-state materials, devices, and intelligent systems engineering.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
6

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
6

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
6

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
6

Lecture Hours Operator:
TO

No Requirements

ECE6950 - Design Project - 3 - Credits

Course Overview

Course Prefix
ECE

Course Number
6950

Department
Electrical & Computer Engineering

Course Title
Design Project

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
Design Project

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

ECE6970 - Thesis Research, MS - 1 - 6 Credits

Course Overview

Course Prefix
ECE

Course Number
6970

Department
Electrical & Computer Engineering

Course Title
Thesis Research, MS

Grade Mode
Temporary Pass/Fail

Repeat Status
RP

Course Description
This course is designed for students preparing a master's degree thesis.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
6

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
6

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
6

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
6

Lecture Hours Operator:
TO

No Requirements

ECE6990 - Continuing Graduate Advisement - 1 - 6 Credits

Course Overview

Course Prefix
ECE

Course Number
6990

Department
Electrical & Computer Engineering

Course Title
Continuing Graduate Advisement

Grade Mode
Temporary Pass/Fail

Repeat Status
RP

Course Description
This course provides graduate students with continued support and advisement. It is usually taken following completion of all coursework required for the degree.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
6

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
6

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
6

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
6

Lecture Hours Operator:
TO

Special Approval

Permission of Electrical and Computer Engineering Department

No Requirements

ECE7030 - Detection and Estimation Theory - 3 - Credits

Course Overview

Course Prefix
ECE

Course Number
7030

Department
Electrical & Computer Engineering

Course Title
Detection and Estimation Theory

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Foundations of detection theory, including Neyman-Pearson, Bayes, and Minimax Bayes detection. Maximum likelihood and Bayes estimation theory. Recursive estimation and Kalman filtering and smoothing. Expectation maximization and hidden Markov models.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ECE6010 - Stochastic Processes in Electronic Systems
- ECE6030 - Mathematical Methods for Signals and Systems

ECE7170 - Modeling and Control of Power Electronic Systems - 3 - Credits

Course Overview

Course Prefix
ECE

Course Number
7170

Department
Electrical & Computer Engineering

Course Title
Modeling and Control of Power Electronic Systems

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces advanced modeling and control topics in power electronics, including design-oriented analysis, averaged switch modeling, AC modeling of the discontinuous conduction mode, the current programmed mode, input filter design, digital control of switched-mode power converters, and low-harmonic rectifiers.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ECE6120 - Introduction to Power Electronics

ECE7180 - Resonant and Soft-Switching Techniques in Power Electronics - 3 - Credits

Course Overview

Course Prefix
ECE

Course Number
7180

Department
Electrical & Computer Engineering

Course Title
Resonant and Soft-Switching Techniques in Power Electronics

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course presents analysis methods and design challenges associated with soft-switching and resonant converters. It introduces mechanisms of switching loss and soft switching techniques, steady-state analysis in the time and frequency domains, and analysis of various resonant and soft-switching DC-DC and DC-AC converters.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ECE6120 - Introduction to Power Electronics

ECE7210 - Spacecraft Instrumentation - 3 - Credits

Course Overview

Course Prefix
ECE

Course Number
7210

Department
Electrical & Computer Engineering

Course Title
Spacecraft Instrumentation

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Theory, engineering, and data reduction techniques of spacecraft instrumentation for space science and spacecraft systems.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ECE6240 - Space Environment and Engineering
  OR PHYS6240 - Space Environment and Engineering

ECE7330 - Nonlinear and Adaptive Control - 3 - Credits

Course Overview

Course Prefix
ECE

Course Number
7330

Department
Electrical & Computer Engineering

Dual-Listed Courses
MAE7330 - Nonlinear and Adaptive Control

Course Title
Nonlinear and Adaptive Control

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Methods of nonlinear and adaptive control system design and analysis. Includes qualitative and quantitative theories, graphical methods, frequency domain methods, sliding surface design, linear parameter estimation methods, and direct and indirect adaptive control techniques.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ECE6320 - Linear Multivariable Control
  OR MAE6320 - Linear Multivariable Control

ECE7360 - Optimal Control - 3 - Credits

Course Overview

Course Prefix
ECE

Course Number
7360

Department
Electrical & Computer Engineering

Cross-Listed Courses
MAE7360 - Optimal Control

Course Title
Optimal Control

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students learn advanced methods of control system analysis and design. These include operator approaches to optimal control, such as LQR, LQG, and L1 optimization techniques.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ECE6320 - Linear Multivariable Control
  OR MAE6320 - Linear Multivariable Control

ECE7560 - Optimal Estimation for Aerospace Systems - 3 - Credits

Course Overview

Course Prefix
ECE

Course Number
7560

Department
Electrical & Computer Engineering

Cross-Listed Courses
MAE7560 - Optimal Estimation for Aerospace Systems

Course Title
Optimal Estimation for Aerospace Systems

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers probability theory, stochastic system models, optimal estimation for linear systems, optimal smoothing, and optimal estimation for nonlinear systems. Applications of these concepts include orbit determination, real-time position, velocity, and attitude determination for rockets, aircraft, and spacecraft.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete at least 1 of the following courses:

- MAE5310 - Control Systems
  OR MAE6320 - Linear Multivariable Control
  OR ECE5310 - Control Systems
  OR ECE6320 - Linear Multivariable Control
  OR MAE6560 - Spacecraft Navigation
  OR ECE6010 - Stochastic Processes in Electronic Systems

ECE7630 - Advanced Digital Signal and Image Processing - 3 - Credits

Course Overview

Course Prefix
ECE

Course Number
7630

Department
Electrical & Computer Engineering

Course Title
Advanced Digital Signal and Image Processing

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students learn advanced digital signal and image processing theory and methods. Topics are selected from optimal filter design, adaptive filtering, spectral estimation, beamforming, tomography, data compression, restoration/ superresolution, machine vision, etc.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ECE5630 - Digital Signal and Image Processing
- ECE6010 - Stochastic Processes in Electronic Systems

ECE7670 - Coding Theory and Practice in Communication - 3 - Credits

Course Overview

Course Prefix
ECE

Course Number
7670

Department
Electrical & Computer Engineering

Course Title
Coding Theory and Practice in Communication

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Course Description:Students examine codes employed in digital communications, including a discussion of error correction codes over finite fields. Students learn Reed-Solomon, convolutional, and trellis coding. Advanced coding techniques are also presented.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ECE5660 - Communication Systems 1

may be taken concurrently

ECE7720 - Parallel Computer Architecture - 3 - Credits

Course Overview

Course Prefix
ECE

Course Number
7720

Department
Electrical & Computer Engineering

Course Title
Parallel Computer Architecture

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Covers parallelism and the design of parallel computer architectures. Explores various hardware techniques designed to support parallel execution across a range of real-world applications. Examines various components of parallel computer systems and design trade-offs in the light of underlying circuit characteristics.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ECE5750 - Computer Architecture
  OR ECE6750 - Computer Architecture

ECE7750 - Distributed Control - 3 - Credits

Course Overview

Course Prefix
ECE

Course Number
7750

Department
Electrical & Computer Engineering

Cross-Listed Courses
MAE7750 - Distributed Control

Course Title
Distributed Control

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students learn analysis and synthesis of distributed controllers for multi-agent systems with different levels of complexity and objectives. Topics include graph theory, output regulation, and synchronization problems spanning consensus/ formation of single integrators to cooperative output regulation of uncertain dynamics.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ECE6320 - Linear Multivariable Control
  OR MAE6320 - Linear Multivariable Control

Course Learning Objectives

Course Learning Outcomes
1. Students shall understand the classification of multi-agent systems and control schemes, the fundamentals of graph theory, how to model information exchange between agents by undirected and directed graphs, and the relationship between the algebraic connectivity of graphs and consensus-like global objectives of single integrator agents and the convergence rate.
2. Students should be able to conduct mathematical analysis for consensus, forced consensus, and formation with single integrator agents and demonstrate the theory with simulations. They shall develop the ability to analyze the stabilizability and detectability of the networked systems and to apply graph theory, linear systems theory, linear algebra, LQR, and the Kronecker product to the analysis and synthesis of distributed controllers enabling the synchronization of networks of high-order LTI systems.
3. Students shall understand the (robust) linear output regulation theory, including the Sylvester and regulator equations, the solvability of the output regulation problems, and the feedforward and p-copy internal model approaches for state and output feedback controllers. They shall develop the skills to recognize, formulate, and solve output regulation problems by feedforward and internal model approach-based controllers. In the simulations, they should be able to tune the control parameters by utilizing modern control techniques, such as eigenvalue assignment and LQR, to meet the given performance requirements of the physical systems.
4. Students shall understand the cooperative output regulation of heterogeneous multi-agent systems. They shall develop the ability to apply graph theory and linear output regulation theory to the analysis and synthesis of distributed controllers
5. Students shall develop the skills to conduct rigorous mathematical analysis for given linear systems, distributed control laws, and the problem. They shall develop the background needed to study, understand, and evaluate recent research articles in distributed control.

ECE7860 - Computational Electromagnetics A - 3 - Credits

Course Overview

Course Prefix
ECE

Course Number
7860

Department
Electrical & Computer Engineering

Course Title
Computational Electromagnetics A

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
In this course, students learn the Finite Difference Time Domain (FDTD) and Finite Element Method (FEM) approaches for solving electromagnetics problems, including waveguides, scattering problems, and electromagnetic wave propagation in different media.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ECE5800 - Electromagnetics II
  OR ECE5850 - Antennas I

ECE7890 - Computational Electromagnetics B - 3 - Credits

Course Overview

Course Prefix
ECE

Course Number
7890

Department
Electrical & Computer Engineering

Course Title
Computational Electromagnetics B

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Modeling electromagnetic problems with integral equations and solve using Methods of Moments (MOM). Solving complex electromagnetic problems using Boundary Integral Finite Element Method (BI-FEM), which is a hybrid computational electromagnetic method by integration MOM and Finite Element Method (FEM).

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

ECE7930 - Special Topics in Electrical Engineering - 1 - 6 Credits

Course Overview

Course Prefix
ECE

Course Number
7930

Department
Electrical & Computer Engineering

Course Title
Special Topics in Electrical Engineering

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Independent or group study in electrical engineering topics, such as automated systems, laser engineering, electroacoustics, solid-state materials, devices, and intelligent systems engineering.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
6

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
6

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
6

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
6

Lecture Hours Operator:
TO

No Requirements

ECE7970 - Dissertation Research - 1 - 12 Credits

Course Overview

Course Prefix
ECE

Course Number
7970

Department
Electrical & Computer Engineering

Course Title
Dissertation Research

Grade Mode
Temporary Pass/Fail

Repeat Status
RP

Course Description
This course consists of individual work on research problems for students enrolled in doctoral programs.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
12

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
12

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
12

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
12

Lecture Hours Operator:
TO

No Requirements

ECE7990 - Continuing Graduate Advisement - 1 - 9 Credits

Course Overview

Course Prefix
ECE

Course Number
7990

Department
Electrical & Computer Engineering

Course Title
Continuing Graduate Advisement

Grade Mode
Temporary Pass/Fail

Repeat Status
RP

Course Description
This course provides graduate students with continued support and advisement. It is usually taken following completion of all coursework required for the degree.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
9

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
9

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
9

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
9

Lecture Hours Operator:
TO

Special Approval
Permission of Electrical and Computer Engineering Department.

No Requirements

ECON2000 - Careers in Economics - 1 - Credits

Course Overview

Course Prefix
ECON

Course Number
2000

Department
Economics and Finance

Course Title
Careers in Economics

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course helps students explore and prepare for careers in economics. Students explore potential career paths and develop an action plan to work toward their career goals in school.

Credit Hours

Credit Hours Min:
1

Contact Hours

Contact Hours Min:
1

Billing Hours

Billing Hours Min:
1

Lecture Hours

Lecture Hours Min:
1

Course Learning Objectives

Course Learning Outcomes

This course helps students explore and prepare for careers in finance. Students explore potential career paths and develop an action plan to work toward their career goals in school.

ECON2010 - Introduction to Microeconomics (BSS) - 3 - Credits

Course Overview

Course Prefix
ECON

Course Number
2010

Department
Economics and Finance

Course Title
Introduction to Microeconomics (BSS)

General Education Attribute
BSS

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students learn marketplace economics from both the consumer and producer/ business perspectives. They study the development and application of microeconomic principles to demonstrate the role and limitations of competitive markets in motivating socially-efficient consumer, business, and public sector choices.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

ECON2020 - Introduction to Macroeconomics (BAI) - 3 - Credits

Course Overview

Course Prefix
ECON

Course Number
2020

Department
Economics and Finance

Course Title
Introduction to Macroeconomics (BAI)

General Education Attribute
BAI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces students to macroeconomic topics such as unemployment, economic instability, inflation, fiscal policy, monetary policy, and economic growth.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

ECON2250 - Economics Professional Development - 1 - Credits

Course Overview

Course Prefix
ECON

Course Number
2250

Department
Economics and Finance

Course Title
Economics Professional Development

Grade Mode
Pass/Fail

Repeat Status
NR

Course Description
Students develop professional knowledge and skills through internships, international programs, work experience, and competitions.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Course Learning Objectives

Course Learning Outcomes
Students develop professional knowledge and skills through internships, international programs, work experience, and competitions.

ECON3000 - Quantitative Methods in Economics - 3 - Credits

Course Overview

Course Prefix
ECON

Course Number
3000

Department
Economics and Finance

Course Title
Quantitative Methods in Economics

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course focuses on quantitative methods used in economics, which include mathematical and statistical methods used in microeconomics and macroeconomics.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Earn a minimum grade of C- in the following:

- MATH1050 - College Algebra (QL)

OR

ACT Math of 25 (or equivalent SAT Math score) or AP Calc AB score of 3 or better

Course Learning Objectives

Course Learning Outcomes

Course Learning Outcomes:
1. Introduce students to mathematical and statistical methods used in microeconomics and macroeconomics.
2. Help students develop intuition with regard to quantitative aspects of economics.
3. Prepare students for upper-division courses with quantitative components.
4. Mathematical topics include: functions and graphs, limits, continuity, derivatives, techniques of differentiation, applied problems in business and economics, exponential and logarithmic functions, functions of two variables, partial derivatives, and applications.
5. Statistical topics include: hypothesis tests on economic issues such as stochastic variables, probability theory, discrete and continuous probability distributions, expected values, random samples, sampling distributions, point estimates, confidence intervals, and hypothesis testing.

ECON3010 - Intermediate Microeconomics (DSS) - 3 - Credits

Course Overview

Course Prefix
ECON

Course Number
3010

Department
Economics and Finance

Course Title
Intermediate Microeconomics (DSS)

General Education Attribute
DSS

Grade Mode
Standard Letter

Repeat Status
NR

Course Description

Students learn the analysis of the behavior of consumers and business firms, as well as the application of theory to the solution of real-world problems.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ECON2010 - Introduction to Microeconomics (BSS)
  OR APEC2010 - Introduction to Microeconomics (BSS)
- ECON2020 - Introduction to Macroeconomics (BAI)

ECON3020 - Intermediate Macroeconomics - 3 - Credits

Course Overview

Course Prefix
ECON

Course Number
3020

Department
Economics and Finance

Course Title
Intermediate Macroeconomics

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
In this course, students study macroeconomic topics such as unemployment, economic instability, inflation, fiscal policy, monetary policy, and economic growth.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Completion Requirement

Required

Complete ALL of the following Courses:

- ECON2020 - Introduction to Macroeconomics (BAI)

Course Learning Objectives

Course Learning Outcomes

Students will be introduced to macroeconomic topics such as unemployment, economic instability, inflation, fiscal policy, monetary policy, and economic growth.

ECON3050 - Foundations of Business: Capitalism, Markets, and Innovation - 3 - Credits

Course Overview

Course Prefix
ECON

Course Number
3050

Department
Economics and Finance

Course Title
Foundations of Business: Capitalism, Markets, and Innovation

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This academically rigorous course serves as a platform to introduce students to the broad cross-section of disciplines that constitute the study of markets, commerce, and leadership, while emphasizing ethical decision making throughout.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

ECON3060 - Mathematical Methods in Economics and Finance (QI) - 3 - Credits

Course Overview

Course Prefix
ECON

Course Number
3060

Department
Economics and Finance

Course Title
Mathematical Methods in Economics and Finance (QI)

General Education Attribute
QI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Covers single-variable and multi-variable calculus, exponents and logarithms, linear algebra, and implicit functions. These concepts find economics applications in the theory of the firm, the theory of the household, among others.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ECON2010 - Introduction to Microeconomics (BSS)
  OR APEC2010 - Introduction to Microeconomics (BSS)
- ECON2020 - Introduction to Macroeconomics (BAI)

Required

Earn a minimum grade of C- in the following:

- MATH1050 - College Algebra (QL)

OR

ECON3500 - Introduction to International Business and Economics (DSS) - 3 - Credits

Course Overview

Course Prefix
ECON

Course Number
3500

Department
Economics and Finance

Course Title
Introduction to International Business and Economics (DSS)

General Education Attribute
DSS

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
A survey of the global economic environment in which businesses operate. Topics could include global regulatory and political institutions, trade policy, and international capital and currency markets.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ECON2010 - Introduction to Microeconomics (BSS)
  OR APEC2010 - Introduction to Microeconomics (BSS)
- ECON2020 - Introduction to Macroeconomics (BAI)

ECON3510 - Contemporary Issues in International Trade - 3 - Credits

Course Overview

Course Prefix
ECON

Course Number
3510

Department
Economics and Finance

Course Title
Contemporary Issues in International Trade

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Examines interrelated economic, political, and social issues faced by institutions and individuals at various points in the international trade process.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ECON2010 - Introduction to Microeconomics (BSS)
  OR APEC2010 - Introduction to Microeconomics (BSS)
- ECON2020 - Introduction to Macroeconomics (BAI)

ECON3520 - History of Economic Thought - 3 - Credits

Course Overview

Course Prefix
ECON

Course Number
3520

Department
Economics and Finance

Course Title
History of Economic Thought

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Origin and development of economic theories of leading thinkers in western civilization.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ECON2010 - Introduction to Microeconomics (BSS)
  OR APEC2010 - Introduction to Microeconomics (BSS)
- ECON2020 - Introduction to Macroeconomics (BAI)

ECON3530 - Comparative Economic Systems (DSS)(CI) - 3 - Credits

Course Overview

Course Prefix
ECON

Course Number
3530

Department
Economics and Finance

Course Title
Comparative Economic Systems (DSS)(CI)

General Education Attribute
CI, DSS

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
History, economic theories, and comparative policies of communist, socialist, and capitalistic economies. Problems facing transition economies.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Fulfill ALL of the following requirements:

Required

Complete ALL of the following Courses:

- ECON2010 - Introduction to Microeconomics (BSS)
  OR APEC2010 - Introduction to Microeconomics (BSS)
- ECON2020 - Introduction to Macroeconomics (BAI)

AND

Required

Complete at least 1 course in the following course sets:

- Communications Literacy (CL2) Course

ECON3540 - Economic History of the United States (DSS) - 3 - Credits

Course Overview

Course Prefix
ECON

Course Number
3540

Department
Economics and Finance

Course Title
Economic History of the United States (DSS)

General Education Attribute
DSS

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Course surveys topics related to the economic development of the United States from a historical perspective.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ECON2010 - Introduction to Microeconomics (BSS)
  OR APEC2010 - Introduction to Microeconomics (BSS)
- ECON2020 - Introduction to Macroeconomics (BAI)

ECON3550 - Law and Economics - 3 - Credits

Course Overview

Course Prefix
ECON

Course Number
3550

Department
Economics and Finance

Cross-Listed Courses
POLS3170 - Law and Economics

Course Title
Law and Economics

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Explains legal and political rules, the organization of government, and other institutional processes. Uses standard microeconomic tools and concepts, such as scarcity, choice, preferences, incentives, and supply and demand.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

ECON3600 - Topics in Economic Development - 3 - Credits

Course Overview

Course Prefix
ECON

Course Number
3600

Department
Economics and Finance

Course Title
Topics in Economic Development

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course studies economics of the developing world. Students examine economic growth by studying the role of history in determining modern economic outcomes, and explores how economic development is affected by labor markets, international trade, financial inclusion, and other factors.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ECON2010 - Introduction to Microeconomics (BSS)
  OR APEC2010 - Introduction to Microeconomics (BSS)
- ECON2020 - Introduction to Macroeconomics (BAI)

ECON3610 - Sports Economics - 3 - Credits

Course Overview

Course Prefix
ECON

Course Number
3610

Department
Economics and Finance

Course Title
Sports Economics

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course applies economic theory and empirical analysis to examine professional and amateur sports. Topics include sports labor markets and institutions, league organization, and strategic interaction, among others.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ECON2010 - Introduction to Microeconomics (BSS)
  OR APEC2010 - Introduction to Microeconomics (BSS)
- ECON2020 - Introduction to Macroeconomics (BAI)

ECON4500 - Public Economics - 3 - Credits

Course Overview

Course Prefix
ECON

Course Number
4500

Department
Economics and Finance

Course Title
Public Economics

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Examination of government interventions into market activities, including taxation, spending, and regulation. Interventions are examined through the lens of how individual decision-making is affected by government policy.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ECON3010 - Intermediate Microeconomics (DSS)
- ECON3020 - Intermediate Macroeconomics

ECON4510 - Political Economy - 3 - Credits

Course Overview

Course Prefix
ECON

Course Number
4510

Department
Economics and Finance

Course Title
Political Economy

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Application of economic theories of decision making to the political processes of representative democracies and other systems of governance. Topics include voting, legislatures, autocrats and bureaucrats, judges, the provision of public goods, and the growth of government.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ECON3010 - Intermediate Microeconomics (DSS)
- ECON3020 - Intermediate Macroeconomics

ECON4520 - Game Theory - 3 - Credits

Course Overview

Course Prefix
ECON

Course Number
4520

Department
Economics and Finance

Course Title
Game Theory

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Course focuses on modeling conflicts and cooperation, developing strategic thinking, and applying tools to real-world scenarios like bargaining, market competition, voting, among others.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ECON3010 - Intermediate Microeconomics (DSS)

ECON4530 - Experimental Economics - 3 - Credits

Course Overview

Course Prefix
ECON

Course Number
4530

Department
Economics and Finance

Course Title
Experimental Economics

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students are introduced to the use of experimental methods to establish and measure causal relationships in economic interactions by participating in and studying a series of seminal experiments. Topics are drawn from applied game theory, behavioral economics, and decision theory.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ECON3010 - Intermediate Microeconomics (DSS)

ECON4540 - Money and Banking - 3 - Credits

Course Overview

Course Prefix
ECON

Course Number
4540

Department
Economics and Finance

Course Title
Money and Banking

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Course covers topics of financial markets, interest rate determination, the Federal Reserve System and central banking, monetary theory and monetary policy, and the effects of monetary policy on output, interest rates, inflation, unemployment, financial markets, and exchange rates.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ECON3020 - Intermediate Macroeconomics

ECON4900 - Independent Reading and Research - 1 - 3 Credits

Course Overview

Course Prefix
ECON

Course Number
4900

Department
Economics and Finance

Course Title
Independent Reading and Research

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course allows undergraduate students to pursue personal research interests by formalizing an independent project under the guidance of a professor or faculty mentor.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

Special Approval
Instructor approval

No Requirements

ECON4920 - Economics Internship - 1 - 9 Credits

Course Overview

Course Prefix
ECON

Course Number
4920

Department
Economics and Finance

Course Title
Economics Internship

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
This course provides credit for an economics internship experience in a career-related position approved by the Department of Economics and Finance.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
9

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
9

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
9

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
9

Lecture Hours Operator:
TO

Special Approval
Advisor approval

ECON4950 - Senior Honors Thesis/Project - 3 - Credits

Course Overview

Course Prefix
ECON

Course Number
4950

Department
Economics and Finance

Course Title
Senior Honors Thesis/Project

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Creative project that will then be written up, and presented, as a Senior Thesis as required for an Honors Plan.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

ECON5000 - Econometrics (QI) - 3 - Credits

Course Overview

Course Prefix
ECON

Course Number
5000

Department
Economics and Finance

Dual-Listed Courses
ECON6000 - Econometrics

Course Title
Econometrics (QI)

General Education Attribute
QI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers topics of probability, statistics, linear regression, and simultaneous equation models in economic analysis, among other topics. Additional coursework is required for those enrolled in the graduate-level course. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ECON2010 - Introduction to Microeconomics (BSS)
  OR APEC2010 - Introduction to Microeconomics (BSS)
- ECON2020 - Introduction to Macroeconomics (BAI)
- ECON3000 - Quantitative Methods in Economics
  OR DATA3100 - Making Decisions with Data
  OR STAT2000 - Statistical Methods (QI)
  OR STAT2300 - Business Statistics (QL)
  OR STAT3000 - Statistics for Scientists (QI)

ECON5010 - Microeconomic Theory - 3 - Credits

Course Overview

Course Prefix
ECON

Course Number
5010

Department
Economics and Finance

Dual-Listed Courses
ECON6010 - Microeconomic Theory

Course Title
Microeconomic Theory

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course focuses on the theoretical foundations of microeconomics. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ECON2010 - Introduction to Microeconomics (BSS)
  OR APEC2010 - Introduction to Microeconomics (BSS)
- ECON2020 - Introduction to Macroeconomics (BAI)
- ECON3060 - Mathematical Methods in Economics and Finance (QI)
  OR MATH1100 - Calculus Techniques (QL)
  OR MATH1210 - Calculus I (QL)

ECON5020 - Macroeconomic Theory - 3 - Credits

Course Overview

Course Prefix
ECON

Course Number
5020

Department
Economics and Finance

Dual-Listed Courses
ECON6020 - Macroeconomic Theory

Course Title
Macroeconomic Theory

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course lays a foundation of advanced macroeconomic analysis, integrating theory, data, and computational methods. Special attention is given to real-world issues, with an emphasis on how economists use macro models and data to improve business and public policy decisions. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ECON2010 - Introduction to Microeconomics (BSS)
  OR APEC2010 - Introduction to Microeconomics (BSS)
- ECON2020 - Introduction to Macroeconomics (BAI)
- ECON3060 - Mathematical Methods in Economics and Finance (QI)
  OR MATH1100 - Calculus Techniques (QL)

OR MATH1210 - Calculus I (QL)

ECON5030 - Applied Econometrics - 3 - Credits

Course Overview

Course Prefix
ECON

Course Number
5030

Department
Economics and Finance

Dual-Listed Courses
ECON6030 - Applied Econometrics

Course Title
Applied Econometrics

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces students to commonly used empirical methods such as fixed effects, time series, instrumental variables, difference in differences, and innovations using big data. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ECON5000 - Econometrics (QI)

ECON5070 - Dynamic Mathematical Methods in Economics and Finance (QI) - 3 - Credits

Course Overview

Course Prefix
ECON

Course Number
5070

Department
Economics and Finance

Dual-Listed Courses
ECON6070 - Dynamic Mathematical Methods in Economics and Finance

Course Title
Dynamic Mathematical Methods in Economics and Finance (QI)

General Education Attribute
QI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers optimization, integral calculus, differential equations, probability theory, and other related topics. These concepts find application in the theory of the firm, the theory of the consumer, game theory, portfolio theory, asset pricing, and choice under uncertainty. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ECON2010 - Introduction to Microeconomics (BSS)
  OR APEC2010 - Introduction to Microeconomics (BSS)
- ECON2020 - Introduction to Macroeconomics (BAI)
- ECON3060 - Mathematical Methods in Economics and Finance (QI)

OR MATH1100 - Calculus Techniques (QL)
OR MATH1210 - Calculus I (QL)

ECON5090 - Machine Learning in Economics and Finance - 3 - Credits

Course Overview

Course Prefix
ECON

Course Number
5090

Department
Economics and Finance

Dual-Listed Courses
ECON6090 - Machine Learning in Economics and Finance

Course Title
Machine Learning in Economics and Finance

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces several fundamental concepts and methods for machine learning, including basic learning algorithms and techniques, and their applications in economics and finance, as well as general questions related to analyzing and handling large data sets. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

ECON5500 - Behavioral Economics and Finance (QI) - 3 - Credits

Course Overview

Course Prefix
ECON

Course Number
5500

Department
Economics and Finance

Dual-Listed Courses
ECON6500 - Behavioral Economics and Finance

Course Title
Behavioral Economics and Finance (QI)

General Education Attribute
QI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course examines concepts in behavioral economics and finance. Methods utilized might include mathematical modeling, simulation, computation, and econometric estimation techniques. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ECON5010 - Microeconomic Theory
  OR ECON6010 - Microeconomic Theory

ECON5510 - International Trade Theory - 3 - Credits

Course Overview

Course Prefix
ECON

Course Number
5510

Department
Economics and Finance

Dual-Listed Courses
ECON6510 - International Trade Theory

Course Title
International Trade Theory

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Examines topics within international trade theory and commercial policy, including competitive and noncompetitive trade models, trade policy, balance of payments, exchange rates, international finance, and economic growth. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ECON5010 - Microeconomic Theory
  OR ECON6010 - Microeconomic Theory
- ECON5020 - Macroeconomic Theory
  OR ECON6020 - Macroeconomic Theory

ECON5530 - Economic Policy Analysis - 3 - Credits

Course Overview

Course Prefix
ECON

Course Number
5530

Department
Economics and Finance

Dual-Listed Courses
ECON6530 - Economic Policy Analysis

Course Title
Economic Policy Analysis

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Using a blend of economic theory, econometrics, and archival work, this course examines historical and modern economic policies. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ECON5010 - Microeconomic Theory
  OR ECON6010 - Microeconomic Theory
- ECON5000 - Econometrics (QI)
  OR ECON6000 - Econometrics

ECON5550 - Topics in Applied Microeconomics - 3 - Credits

Course Overview

Course Prefix
ECON

Course Number
5550

Department
Economics and Finance

Dual-Listed Courses
ECON6550 - Topics in Applied Microeconomics

Course Title
Topics in Applied Microeconomics

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Covers advanced topics in applied microeconomics using data and econometric methods to study recent developments in microeconomics to examine pressing social issues. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ECON5010 - Microeconomic Theory
  OR ECON6010 - Microeconomic Theory
- ECON5000 - Econometrics (QI)
  OR ECON6000 - Econometrics

ECON5560 - Topics in Advanced Macroeconomics - 3 - Credits

Course Overview

Course Prefix
ECON

Course Number
5560

Department
Economics and Finance

Course Title
Topics in Advanced Macroeconomics

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Covers advanced topics in macroeconomics. Exact topics depend on recent developments in the macroeconomic discipline, the research and teaching expertise of the faculty, and the current state of the macroeconomy, both inside and outside of the U.S. Focuses on studying the most recent developments in macroeconomic theory and applying the theory to the pressing problems in the contemporary macroeconomy.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ECON5020 - Macroeconomic Theory

ECON6000 - Econometrics - 3 - Credits

Course Overview

Course Prefix
ECON

Course Number
6000

Department
Economics and Finance

Dual-Listed Courses
ECON5000 - Econometrics (QI)

Course Title
Econometrics

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers topics of probability, statistics, linear regression, and simultaneous equation models in economic analysis, among other topics. Additional coursework is required for those enrolled in the graduate-level course.
Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

ECON6010 - Microeconomic Theory - 3 - Credits

Course Overview

Course Prefix
ECON

Course Number
6010

Department
Economics and Finance

Dual-Listed Courses
ECON5010 - Microeconomic Theory

Course Title
Microeconomic Theory

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course focuses on the theoretical foundations of microeconomics. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

ECON6020 - Macroeconomic Theory - 3 - Credits

Course Overview

Course Prefix
ECON

Course Number
6020

Department
Economics and Finance

Dual-Listed Courses
ECON5020 - Macroeconomic Theory

Course Title
Macroeconomic Theory

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course lays a foundation of advanced macroeconomic analysis, integrating theory, data, and computational methods. Special attention is given to real-world issues, with an emphasis on how economists use macro models and data to improve business and public policy decisions. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Admission to the Economics - MS graduate program

No Requirements

ECON6030 - Applied Econometrics - 3 - Credits

Course Overview

Course Prefix
ECON

Course Number
6030

Department
Economics and Finance

Dual-Listed Courses
ECON5030 - Applied Econometrics

Course Title
Applied Econometrics

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces students to commonly used empirical methods such as fixed effects, time series, instrumental variables, difference in differences, and innovations using big data. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Other Enrollment Recommendations
Background in statistics and calculus

ECON6070 - Dynamic Mathematical Methods in Economics and Finance - 3 - Credits

Course Overview

Course Prefix
ECON

Course Number
6070

Department
Economics and Finance

Dual-Listed Courses
ECON5070 - Dynamic Mathematical Methods in Economics and Finance (QI)

Course Title
Dynamic Mathematical Methods in Economics and Finance

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers optimization, integral calculus, differential equations, probability theory, and other related topics. These concepts find application in the theory of the firm, the theory of the consumer, game theory, portfolio theory, asset pricing, and choice under uncertainty. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ANY of the following Courses:

- ECON3060 - Mathematical Methods in Economics and Finance (QI)
  OR APEC7350 - Mathematical Economics I

ECON6090 - Machine Learning in Economics and Finance - 3 - Credits

Course Overview

Course Prefix
ECON

Course Number
6090

Department
Economics and Finance

Dual-Listed Courses
ECON5090 - Machine Learning in Economics and Finance

Course Title
Machine Learning in Economics and Finance

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces several fundamental concepts and methods for machine learning, including basic learning algorithms and techniques, and their applications in economics and finance, as well as general questions related to analyzing and handling large data sets. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

ECON6250 - Graduate Internship - 1 - 3 Credits

Course Overview

Course Prefix
ECON

Course Number
6250

Department
Economics and Finance

Course Title
Graduate Internship

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course provides economics internship experience in a career-related position approved by the Department of Economics and Finance.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

Other Enrollment Recommendations
This course will not count as elective credit toward a graduate degree.

No Requirements

ECON6310 - Economics for Decision Making - 2 - 3 Credits

Course Overview

Course Prefix
ECON

Course Number
6310

Department
Economics and Finance

Course Title
Economics for Decision Making

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Application of concepts and theories, based on managerial economics, to business problems. Addresses cost theory, pricing, market structures, and forecasting.

Credit Hours

Credit Hours Min:
2

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
2

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
2

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
2

Lecture Hours Max:
3

Lecture Hours Operator:
TO

No Requirements

ECON6320 - Dynamic Mathematical Methods in Economics and Finance - 3 - Credits

Course Overview

Course Prefix
ECON

Course Number
6320

Department
Economics and Finance

Course Title
Dynamic Mathematical Methods in Economics and Finance

Grade Mode
Standard Letter

Repeat Status
NR

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

ECON6500 - Behavioral Economics and Finance - 3 - Credits

Course Overview

Course Prefix
ECON

Course Number
6500

Department
Economics and Finance

Dual-Listed Courses
ECON5500 - Behavioral Economics and Finance (QI)

Course Title
Behavioral Economics and Finance

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course examines concepts in behavioral economics and finance. Methods utilized might include mathematical modeling, simulation, computation, and econometric estimation techniques. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Course Learning Objectives

Course Learning Outcomes
This course will help to introduce and to train graduate students in the field of behavioral economics and finance. Students will develop and utilize mathematical modeling, simulation, computation, and econometric estimation techniques to acquire a working understanding of the key ideas being advanced in this field of study.

ECON6510 - International Trade Theory - 3 - Credits

Course Overview

Course Prefix
ECON

Course Number
6510

Department
Economics and Finance

Dual-Listed Courses
ECON5510 - International Trade Theory

Course Title
International Trade Theory

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Examines topics within international trade theory and commercial policy, including competitive and noncompetitive trade models, trade policy, balance of payments, exchange rates, international finance, and economic growth. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Course Learning Objectives

Course Learning Outcomes
Course exposes graduate students to the cutting-edge ideas in international trade and commercial policy,. Students will acquire a working understanding of the key issues, concepts, theories, and debates in this area of study in economics.

ECON6530 - Economic Policy Analysis - 3 - Credits

Course Overview

Course Prefix
ECON

Course Number
6530

Department
Economics and Finance

Dual-Listed Courses
ECON5530 - Economic Policy Analysis

Course Title
Economic Policy Analysis

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Using a blend of economic theory, econometrics, and archival work, this course examines historical and modern economic policies. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Course Learning Objectives

Course Learning Outcomes
This course will help to introduce and to train graduate students in economic policy analysis. Students will utilize economic theory and modelling to test the implications of policy design and reform. Empirical testing will be implemented using econometric estimation techniques to acquire a working understanding of the key outcomes of implemented policies.

ECON6550 - Topics in Applied Microeconomics - 3 - Credits

Course Overview

Course Prefix
ECON

Course Number
6550

Department
Economics and Finance

Dual-Listed Courses
ECON5550 - Topics in Applied Microeconomics

Course Title
Topics in Applied Microeconomics

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Course covers advanced topics in applied microeconomics using data and econometric methods to study recent developments in microeconomics to examine pressing social issues. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Course Learning Objectives

Course Learning Outcomes
This course will help to introduce and to train graduate students to conduct applied microeconomics research. Students will develop and utilize the skills of applied micro econometric estimation techniques to acquire an understanding of the outcomes of natural policy experiments that have occurred.

ECON6910 - Independent Research - 1 - 3 Credits

Course Overview

Course Prefix
ECON

Course Number
6910

Department
Economics and Finance

Course Title
Independent Research

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Directed readings.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

Other Enrollment Recommendations
Credits from this course toward any economics graduate degree require approval of the student's advisory committee, the department graduate committee, and the department head.

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ECON5560 - Topics in Advanced Macroeconomics
- APEC4010 - Intermediate Microeconomics

ECON6970 - Thesis Research - 1 - 9 Credits

Course Overview

Course Prefix
ECON

Course Number
6970

Department
Economics and Finance

Course Title
Thesis Research

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
This course involves Master's-level research.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
9

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
9

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
9

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
9

Lecture Hours Operator:
TO

No Requirements

ECON6990 - Continuing Graduate Advisement - 1 - 9 Credits

Course Overview

Course Prefix
ECON

Course Number
6990

Department
Economics and Finance

Course Title
Continuing Graduate Advisement

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
This course involves Master's-level advisement.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
9

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
9

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
9

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
9

Lecture Hours Operator:
TO

No Requirements

ECON7130 - Microeconomic Theory I - 3 - Credits

Course Overview

Course Prefix
ECON

Course Number
7130

Department
Economics and Finance

Cross-Listed Courses
APEC7130 - Microeconomic Theory I

Course Title
Microeconomic Theory I

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Provides a rigorous introduction to graduate-level microeconomic theory. While the specific focus is on the theoretical construct of graduate-level microeconomic models, the broad objective of the class is to lay the foundation for empirical applications in microeconomics. To meet this broad objective, the course covers theory of the firm, consumer theory, market structure, theory of public goods and externalities, and welfare economics. A.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

ECON7230 - Macroeconomic Theory I - 3 - Credits

Course Overview

Course Prefix
ECON

Course Number
7230

Department
Economics and Finance

Course Title
Macroeconomic Theory I

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Lays a foundation of advanced macroeconomic analysis, integrating theory, data, and computational methods. Special attention given to real-world issues, with an emphasis on how economists use macro models and data to improve business and public policy decisions. Topics covered include neoclassical and endogenous growth theories, real business cycle and new Keynesian theories of economic fluctuations, monetary theory, macroeconomic policy, and open-economy macroeconomics.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

ECON7240 - Macroeconomic Theory II - 3 - Credits

Course Overview

Course Prefix
ECON

Course Number
7240

Department
Economics and Finance

Course Title
Macroeconomic Theory II

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Extends the foundations of ECN 7230 with a more in-depth look at the theory and computational aspects of various models of economic growth and business cycles.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ECON7230 - Macroeconomic Theory I
- ECON7360 - Mathematical Economics II
  OR APEC7360 - Mathematical Economics II

ECON7310 - Econometrics I - 3 - Credits

Course Overview

Course Prefix
ECON

Course Number
7310

Department
Economics and Finance

Cross-Listed Courses
APEC7310 - Econometrics I

Course Title
Econometrics I

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Begins with a review of probability and statistics. Remainder of course is spent discussing the Classical linear regression model, least squares and maximum likelihood estimation, finite and asymptotic sample properties, inference, prediction, and nonlinear optimization.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

ECON7320 - Econometrics II - 3 - Credits

Course Overview

Course Prefix
ECON

Course Number
7320

Department
Economics and Finance

Cross-Listed Courses
APEC7320 - Econometrics II

Course Title
Econometrics II

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Extension of ECN 7310, covering topics such as nonspherical disturbances, panel data, simultaneous equations, time series and distributed lag models, and limited and qualitative dependent variable models.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ECON7310 - Econometrics I
  OR APEC7310 - Econometrics I

ECON7350 - Mathematical Economics I - 3 - Credits

Course Overview

Course Prefix
ECON

Course Number
7350

Department
Economics and Finance

Cross-Listed Courses
APEC7350 - Mathematical Economics I

Course Title
Mathematical Economics I

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Includes linear equations, matrix algebra, multivariate calculus, static optimization, comparative static analysis, constrained optimization, and Kuhn-Tucker conditions.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

ECON7360 - Mathematical Economics II - 3 - Credits

Course Overview

Course Prefix
ECON

Course Number
7360

Department
Economics and Finance

Cross-Listed Courses
APEC7360 - Mathematical Economics II

Course Title
Mathematical Economics II

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Extends the presentation of ECN 7350 by covering applications of constrained optimization, the envelope theorem and applications, differential equations, dynamic economics, and optimal control.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

EDDT1010 - Technical Drafting - 4 - Credits

Course Overview

Course Prefix
EDDT

Course Number
1010

Department
Technology, Design & Technical Ed

Course Title
Technical Drafting

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Introductory mechanical drafting course emphasizing industry fundamentals. Students learn drafting instruments, lettering, geometric construction, orthographic, sectional, and auxiliary views, dimensioning standards, geometric dimensioning, developments, threads, and fasteners, applying skills to create accurate working and assembly drawings for industrial use.

Credit Hours

Credit Hours Min:
4

Contact Hours

Contact Hours Min:
4

Billing Hours

Billing Hours Min:
4

Lecture Hours

Lecture Hours Min:
4

No Requirements

EDDT1040 - CAD Level I: Intro to CAD - 3 - Credits

Course Overview

Course Prefix
EDDT

Course Number
1040

Department
Technology, Design & Technical Ed

Course Title
CAD Level I: Intro to CAD

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Covers the fundamentals of computer-aided-drafting (AutoCAD). Students will train using the basic operating features, menus, commands, file management, drawing set up, and plotting. Applications will include, orthographic projection, sections, dimensioning techniques, tracing, pictorial drawing and coordinate features will be included.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

EDDT1070 - CAD Level II: Intro to 3-D - 3 - Credits

Course Overview

Course Prefix
EDDT

Course Number
1070

Department
Technology, Design & Technical Ed

Course Title
CAD Level II: Intro to 3-D

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Continuation of EDDT 1040, emphasizing drawing productivity using advanced AutoCAD features. Students create industry-quality drawings, custom symbols, line types, hatch patterns, 3D models, integrate third-party software, import CAD into documents, scan, plot, and dedicate additional CAD lab time for assignments.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- EDDT1040 - CAD Level I: Intro to CAD

EDDT1100 - Residential Architectural Drafting - 3 - Credits

Course Overview

Course Prefix
EDDT

Course Number
1100

Department
Technology, Design & Technical Ed

Course Title
Residential Architectural Drafting

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Course teaches AutoCAD techniques for architectural drafting, applying industry standards to create complete house plans. Students learn architectural terminology, use advanced AutoCAD features and third-party software, and should have CAD skills, dedicating extra lab time to complete assignments.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- EDDT1040 - CAD Level I: Intro to CAD

EDDT1200 - 3D Modeling - 3 - Credits

Course Overview

Course Prefix
EDDT

Course Number
1200

Department
Technology, Design & Technical Ed

Course Title
3D Modeling

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course is designed to introduce students to SOLIDWORKS and the basics of 3D modeling.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

EDDT1500 - Introduction to Geographic Information Systems - 3 - Credits

Course Overview

Course Prefix
EDDT

Course Number
1500

Department
Technology, Design & Technical Ed

Course Title
Introduction to Geographic Information Systems

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Introduction to Geographic Information Systems (GIS) for students in engineering, drafting, geology, natural resources, or law enforcement. Covers GIS applications, software use for research and problem-solving, combining computer lab exercises, lectures, and discussions.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Other Enrollment Recommendations

MATH1050 COLLEGE ALGEBRA (QL) is recommended.

No Requirements

EDDT1700 - Additive Manufacturing Processes I - 3 - Credits

Course Overview

Course Prefix
EDDT

Course Number
1700

Department
Technology, Design & Technical Ed

Course Title
Additive Manufacturing Processes I

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students are introduced to additive manufacturing and how it is shaping the future of manufacturing. Students learn additive manufacturing capabilities and current technologies and materials seen in industry. Students work on projects in a real 3D printing production environment.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

EDDT2100 - Commercial Architectural Drafting - 3 - Credits

Course Overview

Course Prefix
EDDT

Course Number
2100

Department
Technology, Design & Technical Ed

Course Title
Commercial Architectural Drafting

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Course teaches CAD techniques for commercial architectural drafting. Students apply industry standards in layout, detailing, and dimensioning of small commercial building plans, learn architectural terminology, use advanced AutoCAD and third-party software, and gain entry-level skills for architectural design offices.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- EDDT1100 - Residential Architectural Drafting

EDDT2500 - Introduction to Global Positioning Systems - 3 - Credits

Course Overview

Course Prefix
EDDT

Course Number
2500

Department
Technology, Design & Technical Ed

Course Title
Introduction to Global Positioning Systems

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Provides an overview of Global Positioning Systems (GPS) with hands-on Trimble Resource and Mapping-grade experience. Covers GPS technology, applications, data collection, differential correction, and export to CAD and GIS. Combines lab, discussion, and lecture, preparing students for diverse career applications.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Other Enrollment Recommendations

GEOG 1010 or GEO1110 PHYSICAL GEOLOGY (BPS) or GEO1115 PHYSICAL GEOLOGY LAB are suggested prerequisites.

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- EDDT1500 - Introduction to Geographic Information Systems **OR** GEOG2800 - Introduction to Geographic Information Sciences

EDDT2620 - 3-D Modeling Advanced - 3 - Credits

Course Overview

Course Prefix
EDDT

Course Number
2620

Department
Technology, Design & Technical Ed

Course Title
3-D Modeling Advanced

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Descriptive geometry and orthographic projection are essential engineering graphic tools. Students learn to determine true size, shape, intersections, distances, and piercing points, applying these principles to solve practical engineering problems and develop spatial visualization and technical drawing skills.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- EDDT1010 - Technical Drafting

EDDT2650 - Mechanical Blueprint Reading - 2 - Credits

Course Overview

Course Prefix
EDDT

Course Number
2650

Department
Technology, Design & Technical Ed

Course Title
Mechanical Blueprint Reading

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Support course for industrial technology students, teaching blueprint interpretation and technical drawing theory. Students study diverse drawings to understand parts, assemblies, and systems, gaining knowledge of manufacturing standards, practices, precision, and quality control essential for industrial applications.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

No Requirements

EDDT2700 - Additive Manufacturing Processes II - 3 - Credits

Course Overview

Course Prefix
EDDT

Course Number
2700

Department
Technology, Design & Technical Ed

Course Title
Additive Manufacturing Processes II

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students utilize additive manufacturing design in manufacturing creations. They study the importance of additive manufacturing and its role in the future of manufacturing. Students learn the key advantages additive manufacturing design gives manufacturers as they adopt these technologies.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

EDDT2750 - Architectural Revit - 3 - Credits

Course Overview

Course Prefix
EDDT

Course Number
2750

Department
Technology, Design & Technical Ed

Course Title
Architectural Revit

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course teaches 3D architectural tools to explore Building Information Modeling (BIM). Students demonstrate their learning of architectural drafting skills, including architectural detailing, rendering, and methods of construction, to prepare architectural drawings and documents that align with industry standards.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Course Learning Objectives

Course Learning Outcomes

- Use 3D modeling to communicate design intent.
- Create architectural documents.
- Explain the importance and purpose of BIM.
- Quantify model information.

EDDT2977 - Internship Education Experiences - 1 - 3 Credits

Course Overview

Course Prefix
EDDT

Course Number
2977

Department
Technology, Design & Technical Ed

Course Title
Internship Education Experiences

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course provides supervised on-the-job training in engineering drafting and design technology areas. Students meet with the instructor and internship coordinator periodically to determine and evaluate learning objectives, hours to be worked, and credit.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

Special Approval

Instructor permission

No Requirements

EDDT2988 - Special Problems - 1 - 3 Credits

Course Overview

Course Prefix
EDDT

Course Number
2988

Department
Technology, Design & Technical Ed

Course Title
Special Problems

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Individual work approved by instructor. Time and credit to be arranged.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

No Requirements

EDUC0100 - Foundations of Reading and Writing - 3 - Credits

Course Overview

Course Prefix
EDUC

Course Number
0100

Department
Special Education & Rehab Counseling

Course Title
Foundations of Reading and Writing

Grade Mode
Remedial

Repeat Status
RP

Course Description
This remedial course covers strategies for reading comprehension, critical thinking, college-level writing, and the use of assistive technologies that are essential for academic success.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

EDUC1000 - Teacher Assistant Experience - 1 - 3 Credits

Course Overview

Course Prefix
EDUC

Course Number
1000

Department
College of Education and Human Services

Course Title
Teacher Assistant Experience

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
For education students. Designed to familiarize them with the teaching role and to assist cooperating teachers. Classroom experiences in early childhood, elementary, or secondary education available while assisting a certified teacher in a variety of settings.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ANY of the following Courses:

- HDFS2660 - Parenting and Child Guidance
- TEAL1010 - Introduction to Education

EDUC1005 - Teacher Assistant Experience - 1 - 3 Credits

Course Overview

Course Prefix
EDUC

Course Number
1005

Department
College of Education and Human Services

Course Title
Teacher Assistant Experience

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
For education students. Designed to familiarize them with the teaching role and to assist cooperating teachers. Classroom experiences in early childhood, elementary, or secondary education available while assisting a certified teacher in a variety of settings.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ANY of the following Courses:

- HDFS2660 - Parenting and Child Guidance
- TEAL1010 - Introduction to Education

EDUC1020 - Career Exploration I - 3 - Credits

Course Overview

Course Prefix
EDUC

Course Number
1020

Department
Special Education & Rehab Counseling

Course Title
Career Exploration I

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students explore career options through a variety of activities, including career-related skills assessments, informational interviews, and research using online career resources.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Special Approval

Instructor permission

No Requirements

EDUC1030 - Healthy Relationships - 2 - Credits

Course Overview

Course Prefix
EDUC

Course Number
1030

Department
Special Education & Rehab Counseling

Course Title
Healthy Relationships

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students learn skills needed to navigate and be safe in adult relationships including friendships, coworkers, bosses, and romantic partners. Topics include understanding social cues, types of relationships, consent, healthy boundaries, effective communication strategies, dating, and sexual education.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Special Approval

Instructor permission

No Requirements

EDUC1040 - Career Exploration II - 3 - Credits

Course Overview

Course Prefix
EDUC

Course Number
1040

Department
Special Education & Rehab Counseling

Course Title
Career Exploration II

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students gain skills needed to find and secure employment that matches their skills, abilities, and interests. Topics include resume and cover letter writing, effective job searches, applying for jobs, and interviewing skills. Students engage in job shadows and practice interviews to apply course material.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

EDUC1050 - Self-Determination - 3 - Credits

Course Overview

Course Prefix
EDUC

Course Number
1050

Department
Special Education & Rehab Counseling

Course Title
Self-Determination

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students learn about the disability rights movement, disability identity and community, making informed choices, setting goals, advocating, and disclosing disability. Students practice and apply self-determination and self-advocacy skills in various aspects of their lives.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

EDUC1800 - Native American Education - 3 - Credits

Course Overview

Course Prefix
EDUC

Course Number
1800

Department
College of Education and Human Services

Course Title
Native American Education

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Examines Native American education in both traditional and historical context. Forms will be given to strategies designed to help Native Americans succeed in education.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

EDUC2100 - Everyday Social Skills - 2 - Credits

Course Overview

Course Prefix
EDUC

Course Number
2100

Department
Special Education & Rehab Counseling

Course Title
Everyday Social Skills

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students learn concepts and skills to communicate effectively and engage in social interactions. Course content is applied to many life situations, including school, work, relationships, and involvement in the community.

Credit Hours

Credit Hours Min:
2

Contact Hours

Contact Hours Min:
2

Billing Hours

Billing Hours Min:
2

Lecture Hours

Lecture Hours Min:
2

No Requirements

EDUC2110 - Work Internship - 1 - 3 Credits

Course Overview

Course Prefix
EDUC

Course Number
2110

Department
Special Education & Rehab Counseling

Course Title
Work Internship

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
Students participate in on-the-job learning experiences in an area of personal interest. Learning objectives and total hours worked are determined in collaboration with the internship coordinator. Employer, student, and internship coordinator evaluate student progress over time.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

No Requirements

EDUC2120 - Navigating Adulthood - 3 - Credits

Course Overview

Course Prefix
EDUC

Course Number
2120

Department
Special Education & Rehab Counseling

Course Title
Navigating Adulthood

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides tools and strategies to prepare students to live independently after college. Topics include finances, housing, employment, health and disability-related information, and community resources.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

EDUC2977 - Cooperative Education - 1 - 3 Credits

Course Overview

Course Prefix
EDUC

Course Number
2977

Department
College of Education and Human Services

Course Title
Cooperative Education

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Provides supervised on-the-job training in education. Students meet with the instructor/coordinator periodically during the course to determine and evaluate learning objectives, hours to be worked, and credit.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

Special Approval
Instructor permission

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ANY of the following Courses:

- HDFS2660 - Parenting and Child Guidance
- TEAL1010 - Introduction to Education

EDUC2988 - Special Problems - 1 - 3 Credits

Course Overview

Course Prefix
EDUC

Course Number
2988

Department
College of Education and Human Services

Course Title
Special Problems

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Individual, departmental work experiences designed and approved by the instructor.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

No Requirements

EDUC5000 - Senior Honors Seminar - 2 - Credits

Course Overview

Course Prefix
EDUC

Course Number
5000

Department
College of Education and Human Services

Course Title
Senior Honors Seminar

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
For students in the College of Education and Human Services to explore an honors interdisciplinary theme selected by the Honors Committee as a culmination of an honors experience.

Credit Hours

Credit Hours Min:
2

Contact Hours

Contact Hours Min:
2

Billing Hours

Billing Hours Min:
2

Lecture Hours

Lecture Hours Min:
2

EDUC5560 - Special Topics - 0.5 - 4 Credits

Course Overview

Course Prefix
EDUC

Course Number
5560

Department
College of Education and Human Services

Cross-Listed Courses
TEAL5560 - Special Topics

Dual-Listed Courses
EDUC6560 - Special Topics

Course Title
Special Topics

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Field-based program focusing upon characteristics of effective teaching methodologies, teaching performance, curriculum decision making, value guidelines, and the characteristics of the learner.

Credit Hours

Credit Hours Min:
0.5

Credit Hours Max:
4

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
0.5

Contact Hours Max:
4

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
0.5

Billing Hours Max:
4

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
0.5

Lecture Hours Max:
4

Lecture Hours Operator:
TO

EDUC6010 - Introduction to Program Evaluation: Evaluation Models and Practical Guidelines - 3 - Credits

Course Overview

Course Prefix
EDUC

Course Number
6010

Department
College of Education and Human Services

Cross-Listed Courses
PSY6010 - Introduction to Program Evaluation: Evaluation Models and Practical Guidelines

Course Title
Introduction to Program Evaluation: Evaluation Models and Practical Guidelines

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Alternative approaches and practical guidelines for conducting evaluation studies. Through case studies and simulations, addresses impact of social, political, and ethical issues on evaluation.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

EDUC6040 - Applied Research Methods - 3 - Credits

Course Overview

Course Prefix
EDUC

Course Number
6040

Department
College of Education and Human Services

Course Title
Applied Research Methods

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Applied introduction to quantitative and qualitative research methodologies and designs used in educational, social and health sciences. Coverage of research ethics, literature searches and critiques, components of research studies, reliability and validity, APA format, and communication of research results.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

EDUC6050 - Applied Statistical Analysis - 3 - Credits

Course Overview

Course Prefix
EDUC

Course Number
6050

Department
College of Education and Human Services

Course Title
Applied Statistical Analysis

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Applied introduction to statistical methods commonly used in educational, social, and health sciences. Coverage of data types, data base creation, data exploration and visualization; use of statistical software to compute descriptive and inferential statistics, including correlation, regression, group comparisons (t-tests, ANOVA), and categorical methods.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

EDUC6560 - Special Topics - 0.5 - 4 Credits

Course Overview

Course Prefix
EDUC

Course Number
6560

Department
College of Education and Human Services

Cross-Listed Courses
TEAL6560 - Special Topics

Dual-Listed Courses
EDUC5560 - Special Topics

Course Title
Special Topics

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Field-based program focusing upon characteristics of effective teaching methodologies, teaching performance, curriculum decision making, value guidelines, and the characteristics of the learner.

Credit Hours

Credit Hours Min:
0.5

Credit Hours Max:
4

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
0.5

Contact Hours Max:
4

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
0.5

Billing Hours Max:
4

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
0.5

Lecture Hours Max:
4

Lecture Hours Operator:
TO

No Requirements

EDUC6570 - Introduction to Educational and Psychological Research - 3 - Credits

Course Overview

Course Prefix
EDUC

Course Number
6570

Department
College of Education and Human Services

Course Title
Introduction to Educational and Psychological Research

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides an introduction to research methods, including identification of a research problem, review and evaluation of research literature, and design and implementation of a research project.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

EDUC6600 - Statistical Foundations - 3 - Credits

Course Overview

Course Prefix
EDUC

Course Number
6600

Department
College of Education and Human Services

Cross-Listed Courses
PSY6600 - Statistical Foundations

Course Title
Statistical Foundations

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers research design and statistical concepts for research in education, human services, and psychology, with an emphasis on the selection and interpretation of statistical analyses.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Special Approval
Instructor permission

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Fulfill ALL of the following requirements:

Required

Complete the following pre-test:

A pretest score of 70% or higher is required. Please visit https://cehs.usu.edu/research/courses/educ-psy-6600 to complete the pretest for EDUC6600 STATISTICAL FOUNDATIONS.

AND

Required

Any of these courses can also be taken concurrently with EDUC6600 STATISTICAL FOUNDATIONS.

Complete at least 1 of the following courses:

- EDUC6040 - Applied Research Methods
- EDUC6570 - Introduction to Educational and Psychological Research
- HDFS6031 - Research Methodology
- HDFS6380 - Applying Scholarly Research and Systemic Family Treatment
- ITLS7015 - Introduction to Theories and Methods of Instructional Technology and Learning Sciences II
- KIN6810 - Research Methods in Kinesiology
- LING6010 - Research in Second Language Learning
- PSY6560 - Introduction to Educational and Psychological Research
- SPED6700 - Introduction to Behavioral Research in Education
- SHS6230 - Introduction to Research in Communicative Disorders

EDUC6770 - Qualitative Research Methods - 3 - Credits

Course Overview

Course Prefix
EDUC

Course Number
6770

Department
College of Education and Human Services

Course Title
Qualitative Research Methods

Grade Mode
Standard Letter

Repeat Status
NR

Course Description

This is an introduction to qualitative research including foundations, research designs and strategies of inquiry (case studies, ethnography, phenomenology, grounded theory, biographical, historical, participative inquiry), sampling, fieldwork and data collection, and analysis.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete at least 1 of the following courses:

- EDUC6570 - Introduction to Educational and Psychological Research
- HDFS6031 - Research Methodology
- HDFS6380 - Applying Scholarly Research and Systemic Family Treatment
- ITLS7015 - Introduction to Theories and Methods of Instructional Technology and Learning Sciences II
- PSY6560 - Introduction to Educational and Psychological Research
- SPED6700 - Introduction to Behavioral Research in Education

- SHS6230 - Introduction to Research in Communicative Disorders

EDUC6800 - Mixed Methods Research - 3 - Credits

Course Overview

Course Prefix
EDUC

Course Number
6800

Department
College of Education and Human Services

Course Title
Mixed Methods Research

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students learn design and analysis of mixed methods research studies in education and human services. Emphasis is on examining epistemological and philosophical issues, sampling, data collection, alternative designs, multiple mixed methods research models, analytic techniques, and relationships among research design, theory, and epistemology.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:
- EDUC6600 - Statistical Foundations
- EDUC6770 - Qualitative Research Methods

EDUC7610 - Regression Analysis - 3 - Credits

Course Overview

Course Prefix
EDUC

Course Number
7610

Department
College of Education and Human Services

Cross-Listed Courses
PSY7610 - Regression Analysis

Course Title
Regression Analysis

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course is an advanced treatment of research design and statistical concepts and issues in educational, human services, and psychological research.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ANY of the following Courses:
- EDUC6600 - Statistical Foundations
  OR PSY6600 - Statistical Foundations

EDUC7650 - Longitudinal Research Design and Analysis - 3 - Credits

Course Overview

Course Prefix
EDUC

Course Number
7650

Department
College of Education and Human Services

Course Title
Longitudinal Research Design and Analysis

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Applied longitudinal study design and analysis for research in behavioral and educational sciences. Explores case-control, cohort, cross-over, complex sample, and randomized controlled trial designs. Examines analytical methods for observed outcomes of various distributions (e.g., Gaussian, Binomial, Poisson).

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Requried

Complete ANY of the following Courses:

- EDUC7610 - Regression Analysis
  OR PSY7610 - Regression Analysis

EDUC7670 - Literature Reviews in Education and Psychology - 2 - Credits

Course Overview

Course Prefix
EDUC

Course Number
7670

Department
College of Education and Human Services

Cross-Listed Courses
PSY7670 - Literature Reviews in Education and Psychology

Course Title
Literature Reviews in Education and Psychology

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Advanced concepts in designing, writing, and critiquing literature reviews.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

EDUC7700 - Grant Writing - 3 - Credits

Course Overview

Course Prefix
EDUC

Course Number
7700

Department
College of Education and Human Services

Cross-Listed Courses
SPED7700 - Single-Subject Research Methods and Designs

Course Title
Grant Writing

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students learn to identify funding sources, select strategies for seeking resources, and write proposals for research, development, training, and service activities in education, psychology, and related fields.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- EDUC6570 - Introduction to Educational and Psychological Research
  OR PSY6560 - Introduction to Educational and Psychological Research

EED6090 - Developing an Engineering Education Curriculum - 3 - Credits

Course Overview

Course Prefix
EED

Course Number
6090

Department
Engineering Education

Course Title
Developing an Engineering Education Curriculum

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course reviews the basic principles and practices of curriculum development required for an online course in any educational program. The emphasis of this course is placed on the integration of research findings and best practices into online course design.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

EED6150 - Teaching, Learning & Assessment in Engineering Education - 3 - Credits

Course Overview

Course Prefix
EED

Course Number
6150

Department
Engineering Education

Course Title
Teaching, Learning & Assessment in Engineering Education

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
An overview of the various methods used to measure and evaluate student achievement, within the cognitive, affective, and psychomotor domains are covered. The principles of learning and assessment as it is applied to Engineering Education are also reviewed.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

EED6250 - Academic Writing - 2 - Credits

Course Overview

Course Prefix
EED

Course Number
6250

Department
Engineering Education

Course Title
Academic Writing

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students learn and apply foundational elements of academic writing, peer review and editing practices, synthesis and summary of sources, and developing a scholarly voice.

Credit Hours

Credit Hours Min:
2

Contact Hours

Contact Hours Min:
2

Billing Hours

Billing Hours Min:
2

Lecture Hours

Lecture Hours Min:
2

Registration Restrictions
Admission to the MS or PhD Program in Engineering Education.

Special Approval
Advisor approval

Course Learning Objectives

Course Learning Outcomes

1. Understanding disciplinary expectations in academic writing.
2. Understanding the importance of developing a scholarly voice.
3. Applying fundamental elements of grammar and style.
4. Managing the writing process including planning, drafting, revising, and editing.
5. Understanding the peer editing process by applying instructor and peer feedback.
6. Reading and understanding scholarly literature.
7. Demonstrating skills in synthesizing, summarizing, paraphrasing, and critiquing scholarly sources.
8. Framing an argument/discussion.
9. Examining ethical considerations in academic writing.

EED6900 - Independent Study - 1 - 6 Credits

Course Overview

Course Prefix
EED

Course Number
6900

Department
Engineering Education

Course Title
Independent Study

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
This course offers individually directed reading and conference.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
6

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
6

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
6

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
6

Lecture Hours Operator:
TO

Special Approval

Department approval

No Requirements

EED6910 - Special Topics in Engineering Education - 1 - 3 Credits

Course Overview

Course Prefix
EED

Course Number
6910

Department
Engineering Education

Course Title
Special Topics in Engineering Education

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Graduate level independent or group study of engineering education related topics not covered in regular course offerings.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

No Requirements

EED6960 - Master's Research Project - 1 - 6 Credits

Course Overview

Course Prefix
EED

Course Number
6960

Department
Engineering Education

Course Title
Master's Research Project

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
This course consists of individual work on research problems for students enrolled in the Master's Plan B program, including project report and final presentation.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
6

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
6

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
6

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
6

Lecture Hours Operator:
TO

No Requirements

EED6970 - Master's Thesis Research - 1 - 9 Credits

Course Overview

Course Prefix
EED

Course Number
6970

Department
Engineering Education

Course Title
Master's Thesis Research

Grade Mode
Temporary Pass/Fail

Repeat Status
RP

Course Description
This course consists of individual work on research problems for students enrolled in the Master's Plan A program.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
9

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
9

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
9

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
9

Lecture Hours Operator:
TO

No Requirements

EED7010 - The Role of Cognition in Engineering Education - 3 - Credits

Course Overview

Course Prefix
EED

Course Number
7010

Department
Engineering Education

Course Title
The Role of Cognition in Engineering Education

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Study of cognitive science and research relating to engineering education.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

EED7040 - Qualitative Methods in Engineering Education - 3 - Credits

Course Overview

Course Prefix
EED

Course Number
7040

Department
Engineering Education

Course Title
Qualitative Methods in Engineering Education

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Essential principles and practices of qualitative research methods typically used in engineering education research will be introduced. Emphasis of the course will be placed on the development and proposal design for a qualitative research project with an engineering education context.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

EED7230 - Foundations of Engineering Education - 3 - Credits

Course Overview

Course Prefix
EED

Course Number
7230

Department
Engineering Education

Course Title
Foundations of Engineering Education

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Investigation of the history, philosophy, and foundations of engineering education within social, political, and economic contexts. Analysis of important works of historical and modern philosophers, educators, and leaders, to help students gain an understanding of the status of engineering education.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

EED7460 - Finance and Grant Writing - 3 - Credits

Course Overview

Course Prefix
EED

Course Number
7460

Department
Engineering Education

Course Title
Finance and Grant Writing

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Procedures in financial administration of industrial education monies. Budget preparation, budget operation and control, and school accounting. In-depth review of steps and techniques needed for grant writing.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

EED7810 - Research Seminar - 1 - Credits

Course Overview

Course Prefix
EED

Course Number
7810

Department
Engineering Education

Course Title
Research Seminar

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
Identification of research problems, consideration of research strategies and methods, application of research and statistical concepts in departmental focus, and interaction with faculty.

Credit Hours

Credit Hours Min:
1

Contact Hours

Contact Hours Min:
1

Billing Hours

Billing Hours Min:
1

Lecture Hours

Lecture Hours Min:
1

No Requirements

EED7900 - Independent Study - 1 - 3 Credits

Course Overview

Course Prefix
EED

Course Number
7900

Department
Engineering Education

Course Title
Independent Study

Grade Mode
Pass/Fail

Repeat Status
NR

Course Description
Individually directed reading and conference.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

Special Approval

Department approval

No Requirements

EED7970 - Dissertation Research - 1 - 15 Credits

Course Overview

Course Prefix
EED

Course Number
7970

Department
Engineering Education

Course Title
Dissertation Research

Grade Mode
Temporary Pass/Fail

Repeat Status
RP

Course Description
This course consists of individual work on research problems for students enrolled in doctoral programs.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
15

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
15

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
15

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
15

Lecture Hours Operator:
TO

No Requirements

EED7990 - Continuing Graduate Advisement - 1 - 3 Credits

Course Overview

Course Prefix
EED

Course Number
7990

Department
Engineering Education

Course Title
Continuing Graduate Advisement

Grade Mode
Temporary Pass/Fail

Repeat Status
RP

Course Description
This course provides graduate students with continued support and advisement. It is usually taken following completion of all coursework required for the degree.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

No Requirements

EEDC6090 - Engineering Course Design - 3 - Credits

Course Overview

Course Prefix
EEDC

Course Number
6090

Department
Engineering Education

Course Title
Engineering Course Design

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course teaches students the necessary skills to create an effective educational or training engineering curricula. Focus is on different types of engineering courses, creating goals and objectives, choosing effective teaching methods, choosing course reference materials, accreditation concerns, lesson planning, and course design.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

EEDC6150 - Assessing Learning and Teaching in Engineering - 3 - Credits

Course Overview

Course Prefix
EEDC

Course Number
6150

Department
Engineering Education

Course Title
Assessing Learning and Teaching in Engineering

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
The focus of this course will be a nature of assessment, planning for assessment, validity and reliability, preparing and using achievement test, writing traditional test questions, more authentic assessment methods, grading and reporting, and using assessment in action research.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

EEDC6450 - Principles of Engineering Teaching and Learning - 3 - Credits

Course Overview

Course Prefix
EEDC

Course Number
6450

Department
Engineering Education

Course Title
Principles of Engineering Teaching and Learning

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Topics covered in this course include ways to improve efficiency as an engineering educator, problem-solving and creativity, active learning strategies, different content delivery methods, different types of learners, Piaget's and Perry's theories of cognitive development, Constructivism, and different learning and teaching styles.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

EEDC7310 - E-learning Course and Training Development in Engineering - 3 - Credits

Course Overview

Course Prefix
EEDC

Course Number
7310

Department
Engineering Education

Course Title
E-learning Course and Training Development in Engineering

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
The focus of this course is on the integration of research findings and best practices of online teaching and learning as well as tips and strategies for online course development and implementation.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

EEDC7900 - Teaching Internship in Engineering Education - 1 - Credits

Course Overview

Course Prefix
EEDC

Course Number
7900

Department
Engineering Education

Course Title
Teaching Internship in Engineering Education

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This is a capstone activity for students pursuing a Graduate Engineering Education Certificate to gain experience, improve understanding of teaching, reflect on their own teaching, and obtain feedback from faculty members and possibly from students.

Credit Hours

Credit Hours Min:
1

Contact Hours

Contact Hours Min:
1

Billing Hours

Billing Hours Min:
1

Lecture Hours

Lecture Hours Min:
1

No Requirements

ELECEVAL - This is just used as a place holder as courses are being evaluated by the Colleges. - 0.5 - 25 Credits

Course Overview

Course Prefix
ELEC

Course Number
EVAL

Department
General University

Course Title
This is just used as a place holder as courses are being evaluated by the Colleges.

Grade Mode
Standard Letter

Repeat Status
RP

Credit Hours

Credit Hours Min:
0.5

Credit Hours Max:
25

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
0.5

Contact Hours Max:
25

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
0.5

Billing Hours Max:
25

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
0.5

Lecture Hours Max:
25

Lecture Hours Operator:
TO

No Requirements

ELED1010 - Orientation to Elementary Education - 3 - Credits

Course Overview

Course Prefix
ELED

Course Number
1010

Department
School of Teacher Education & Leadership

Course Title
Orientation to Elementary Education

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students assess themselves as prospective teachers by examining the attributes of effective teachers, practicing classroom relationship skills, and learning about the conditions and stresses of teaching. Students complete observations in an approved elementary classroom and an FBI/BCI fingerprinting background check.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

ELED2620 - Early Childhood Education Kindergarten Through Grade 3 - 3 - Credits

Course Overview

Course Prefix
ELED

Course Number
2620

Department
School of Teacher Education & Leadership

Course Title
Early Childhood Education Kindergarten Through Grade 3

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course comprises a study of early childhood (K-3) curriculum, methodology, and learning environments.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Required

Type
Prerequisite

Required

Earn a minimum grade of B- in the following:

- ELED1010 - Orientation to Elementary Education
  OR TEAL1010 - Introduction to Education

Required

Earn a minimum grade of C in the following:

- HDFS1500 - Human Development Across the Lifespan (BSS)
  OR PSY1100 - Lifespan Development

ELED3000 - Historical, Social, and Cultural Foundations of Education (CI) - 3 - Credits

Course Overview

Course Prefix
ELED

Course Number
3000

Department
School of Teacher Education & Leadership

Course Title
Historical, Social, and Cultural Foundations of Education (CI)

General Education Attribute
CI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description

This is an introduction to the historical, social, and cultural foundations of education. Students examine the interdependence of school and society, along with the influence of that interdependence on curricular and instructional practices in PreK-12 classrooms.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Admission to Teacher Education

Simple Requisites

Corequisite

Type
Corequisite

Required

Enroll in the following Courses:

- ELED3002 - Foundations Practicum
- ELED3100 - Classroom Reading Instruction

ELED3002 - Foundations Practicum - 1 - Credits

Course Overview

Course Prefix
ELED

Course Number
3002

Department
School of Teacher Education & Leadership

Course Title
Foundations Practicum

Grade Mode
Pass/Fail

Repeat Status
NR

Course Description

This course introduces students to the many constituents and actors in public schools, helping students to understand the perspectives of these actors, preparing students for their work in schools.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Registration Restrictions

Admission to Teacher Education

Simple Requisites

Corequisite

Type
Corequisite

Requiired

Enroll in the following Courses:

- ELED3000 - Historical, Social, and Cultural Foundations of Education (CI)
- ELED3100 - Classroom Reading Instruction

ELED3050 - PE and Health in the Elementary Classroom - 2 - Credits

Course Overview

Course Prefix
ELED

Course Number
3050

Department
School of Teacher Education & Leadership

Course Title
PE and Health in the Elementary Classroom

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course develops the knowledge, skills, and dispositions necessary to teach healthy lifestyles and physical education to elementary-aged children. This course enables prospective teachers to plan, implement, and evaluate lessons for elementary students.

Credit Hours

Credit Hours Min:
2

Contact Hours

Contact Hours Min:
2

Billing Hours

Billing Hours Min:
2

Lecture Hours

Lecture Hours Min:
2

Registration Restrictions

Admission to Elementary Education or Early Childhood Education program.

Course Learning Objectives

Course Learning Outcomes

Course Learning Outcomes:

1. Students demonstrate an understanding of common and specialized content, and scientific and theoretical foundations for the delivery of an effective elementary physical education program and an effective health education program.

2. Students understand physical literacy and provide demonstrations of skillful performance in physical education content areas and health-enhancing levels of fitness, including nutrition and hydration.

3. Students apply content and foundational knowledge to plan and implement developmentally appropriate learning experiences aligned with local, state, and/or national standards (e.g., SHAPE America's National Standards) through the effective use of resources, accommodations and/or modifications, technology, and metacognitive strategies to address the diverse needs of all students.

4. Students demonstrate ways to engage elementary students in meaningful learning experiences through effective use of pedagogical skills, such as communication, feedback, technology, and instructional and managerial skills to enhance student learning. Students select and implement appropriate assessments to monitor students' progress and guide decision making related to instruction and learning.

5. Students demonstrate behaviors essential to becoming effective professionals. They exhibit professional ethics and culturally competent practices, seek opportunities for continued professional development, and demonstrate knowledge of promotion/advocacy strategies for physical education and expanded physical activity opportunities that support the development of health literate and physically literate individuals.

ELED3100 - Classroom Reading Instruction - 3 - Credits

Course Overview

Course Prefix
ELED

Course Number
3100

Department
School of Teacher Education & Leadership

Course Title
Classroom Reading Instruction

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces students to teaching and learning processes of reading instruction in elementary schools, emphasizing competencies for teaching phonological awareness, phonics, fluency, vocabulary, and comprehension while focusing on instructional techniques, methods, and materials for whole-class reading instruction.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Admission to:
Teacher Education, Elementary Education, Special Education, or an Early Childhood Education program

Simple Requisites

Corequisite

Type
Corequisite

Required

Enroll in the following Courses:

- ELED3000 - Historical, Social, and Cultural Foundations of Education (CI)
- ELED3002 - Foundations Practicum

ELED3200 - Literacy Clinic Practicum - 3 - Credits

Course Overview

Course Prefix
ELED

Course Number
3200

Department
School of Teacher Education & Leadership

Course Title
Literacy Clinic Practicum

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Teacher candidates work as tutors in Literacy Clinic. Course emphasizes use of student assessment, implementation of effective literacy instruction, classroom management, and data-based decision making to teach children attending the Literacy Clinic.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ELED3100 - Classroom Reading Instruction

(may be taken concurrently)

ELED3800 - ArtsBridge - 2 - Credits

Course Overview

Course Prefix
ELED

Course Number
3800

Department
School of Teacher Education & Leadership

Course Title
ArtsBridge

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students learn to create unique lessons in the arts linked to language arts, math, science, and social studies.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Special Approval

Instructor permission

No Requirements

ELED4040 - Reading Assessment and Intervention (CI) - 2 - Credits

Course Overview

Course Prefix
ELED

Course Number
4040

Department
School of Teacher Education & Leadership

Course Title
Reading Assessment and Intervention (CI)

General Education Attribute
CI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course prepares undergraduate students to use data from reading assessments to identify students' reading strengths and needs and plan interventions.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Admission to Teacher Education

Required

Earn a minimum grade of B- in the following:

- ELED3100 - Classroom Reading Instruction

Corequisite

Type
Corequisite

Required

Enroll in the following Courses:

- ELED4042 - Reading Assessment and Intervention Practicum
- ELED4049 - Foundations of Reading Review

ELED4042 - Reading Assessment and Intervention Practicum - 1 - Credits

Course Overview

Course Prefix
ELED

Course Number
4042

Department
School of Teacher Education & Leadership

Course Title
Reading Assessment and Intervention Practicum

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students use reading assessments to identify elementary students' reading strengths and weaknesses and plan instruction. Special attention is given to providing explicit differentiated reading instruction to students who struggle with learning to read.

Credit Hours

Credit Hours Min:
1

Contact Hours

Contact Hours Min:
1

Billing Hours

Billing Hours Min:
1

Lecture Hours

Lecture Hours Min:
1

Registration Restrictions

Admission to Teacher Education.

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ELED3100 - Classroom Reading Instruction

Corequisite

Type
Corequisite

Required

Enroll in the following Courses:

- ELED4040 - Reading Assessment and Intervention (CI)
- ELED4049 - Foundations of Reading Review

ELED4049 - Foundations of Reading Review - 1 - Credits

Course Overview

Course Prefix
ELED

Course Number
4049

Department
School of Teacher Education & Leadership

Course Title
Foundations of Reading Review

Grade Mode
Pass/Fail

Repeat Status
NR

Course Description
This course reviews evidence-based instructional strategies in language and literacy development. Topics include phonemic awareness, decoding instruction, reading fluency, comprehension strategies, vocabulary, assessment techniques, and effective teaching methods for literary and informational texts.

Credit Hours

Credit Hours Min:
1

Contact Hours

Contact Hours Min:
1

Billing Hours

Billing Hours Min:
1

Lecture Hours

Lecture Hours Min:
1

Other Enrollment Recommendations

ELED3100 CLASSROOM READING INSTRUCTION before ELED4049 FOUNDATIONS OF READING REVIEW

Simple Requisites

Corequisite

Type
Corequisite

Required

Enroll in the following Courses:

- ELED4040 - Reading Assessment and Intervention (CI)
- ELED4042 - Reading Assessment and Intervention Practicum

Course Learning Objectives

Course Learning Outcomes

1. Demonstrate knowledge of principles and evidence-based instructional practices for developing language and emergent literacy skills, including phonological and phonemic awareness, concepts of print, and the alphabetic principle.
2. Demonstrate knowledge of principles and evidence-based instructional practices for developing beginning reading skills, including phonics, high-frequency words, and spelling.
3. Demonstrate knowledge of principles and evidence-based instructional practices for developing word analysis skills and strategies, including syllabication, structural or morphemic analysis, and orthographic skills.
4. Demonstrate knowledge of principles and evidence-based instructional practices for developing reading fluency at all stages of reading development.
5. Demonstrate knowledge of principles and evidence-based instructional practices for promoting academic language development, including vocabulary development.
6. Demonstrate knowledge of principles and evidence-based instructional practices for promoting comprehension and analysis of literary texts.
7. Demonstrate knowledge of principles and evidence-based instructional practices for promoting comprehension and analysis of informational texts.
8. Apply knowledge of principles and evidence-based best practices for assessing reading development.
9. Apply knowledge of principles and evidence-based best practices of reading instruction.

ELED4061 - Teaching Elementary School Mathematics I: Rational Numbers, Operations, and Proportional Reasoning - 3 - Credits

Course Overview

Course Prefix
ELED

Course Number
4061

Department
School of Teacher Education & Leadership

Course Title

Teaching Elementary School Mathematics I: Rational Numbers, Operations, and Proportional Reasoning

Grade Mode
Standard Letter

Repeat Status
NR

Course Description

Students develop pedagogical content knowledge in rational number, operations, and proportional reasoning for teaching grades preschool through grade 6. Understanding characteristics of instruction, assessments, and intervention are considered critically.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete at least 1 of the following courses:

- MATH2010 - Algebraic Thinking & Number Sense for Elementary Education School Teachers (QI)
- MATH2020 - Euclidean Geometry & Statistics for Elementary Education School Teachers (QI)

ELED4150 - Assessment and Differentiation Across the Curriculum - 3 - Credits

Course Overview

Course Prefix
ELED

Course Number
4150

Department
School of Teacher Education & Leadership

Course Title
Assessment and Differentiation Across the Curriculum

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course explores the cyclical nature of assessment and instruction and provides students with knowledge, skills, tools, and dispositions necessary to effectively use assessment information to make differentiated instructional decisions.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Earn a minimum grade of B- in the following:

- ELED3000 - Historical, Social, and Cultural Foundations of Education (CI)

ELED4250 - Advanced Cooperative Work Experience - 1 - 8 Credits

Course Overview

Course Prefix
ELED

Course Number
4250

Department
School of Teacher Education & Leadership

Course Title
Advanced Cooperative Work Experience

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
Designed to integrate classroom study with career-related work experience. Students must work a minimum of 50 hours per credit hours and have a cleared background check.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
8

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
8

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
8

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
8

Lecture Hours Operator:
TO

Registration Restrictions

Admission to Pre-ELED or ELED majors

No Requirements

ELED4900 - Senior Project - 1 - 5 Credits

Course Overview

Course Prefix
ELED

Course Number
4900

Department
School of Teacher Education & Leadership

Course Title
Senior Project

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
All honors students are required to submit a senior project for graduation from the Honors Program. Students work with a departmental advisor on a topic of their choice.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
5

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
5

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
5

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
5

Lecture Hours Operator:
TO

No Requirements

ELED4970 - Senior Thesis - 1 - 5 Credits

Course Overview

Course Prefix
ELED

Course Number
4970

Department
School of Teacher Education & Leadership

Course Title
Senior Thesis

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
An in-depth paper or project culminating in a formal presentation. Required of all students for graduation from the Honors Program in Elementary Education.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
5

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
5

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
5

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
5

Lecture Hours Operator:
TO

No Requirements

ELED5010 - Teaching Social Studies in Elementary School - 2 - Credits

Course Overview

Course Prefix
ELED

Course Number
5010

Department
School of Teacher Education & Leadership

Course Title
Teaching Social Studies in Elementary School

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students develop necessary knowledge and skills to plan and implement an appropriate social studies program consistent with the nature of the child and our democratic society.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Registration Restrictions

Admission to Teacher Education.

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Course Sets:

- Breadth American Institutions (BAI) Course
- Depth Humanities and Creative Arts (DHA) Course
- Breadth Social Sciences (BSS) Course

Required

Complete ALL of the following Courses:

- ELED4040 - Reading Assessment and Intervention (CI)
- ELED4042 - Reading Assessment and Intervention Practicum
- ELED4049 - Foundations of Reading Review

Corequisite

Type
Corequisite

Required

Enroll in the following Courses:

- ELED5020 - Teaching Science in Elementary School
- ELED5030 - Teaching Language Arts (CI)
- ELED5040 - Teaching Elementary School Mathematics II: Number, Operations, and Algebraic Reasoning
- ELED5060 - Elementary Content Practicum
- ELED5105 - Motivation and Classroom Management

ELED5020 - Teaching Science in Elementary School - 2 - Credits

Course Overview

Course Prefix
ELED

Course Number
5020

Department
School of Teacher Education & Leadership

Course Title
Teaching Science in Elementary School

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course includes the investigation and practical application of science programs, materials, and techniques of instruction for the teaching of science.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Registration Restrictions

Admission to Teacher Education.

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Course Sets:

- Breadth Life Sciences (BLS) Course
- Breadth Physical Sciences (BPS) Course

Corequisite

Type
Corequisite

Required

Enroll in the following Courses:

- ELED5010 - Teaching Social Studies in Elementary School
- ELED5040 - Teaching Elementary School Mathematics II: Number, Operations, and Algebraic Reasoning
- ELED5060 - Elementary Content Practicum
- ELED5030 - Teaching Language Arts (CI)
- ELED5105 - Motivation and Classroom Management

ELED5030 - Teaching Language Arts (CI) - 2 - Credits

Course Overview

Course Prefix
ELED

Course Number
5030

Department
School of Teacher Education & Leadership

Course Title
Teaching Language Arts (CI)

General Education Attribute
CI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students study language development in children, curriculum development, instructional methods, and assessment in the areas of writing and spelling.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Registration Restrictions
Admission to Teacher Education.

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Earn a minimum grade of B- in the following:

- ELED3100 - Classroom Reading Instruction
- ELED4040 - Reading Assessment and Intervention (CI)
- ELED4042 - Reading Assessment and Intervention Practicum

Corequisite

Type
Corequisite

Required

Complete ALL of the following Courses:

- ELED5010 - Teaching Social Studies in Elementary School
- ELED5020 - Teaching Science in Elementary School
- ELED5040 - Teaching Elementary School Mathematics II: Number, Operations, and Algebraic Reasoning
- ELED5060 - Elementary Content Practicum
- ELED5105 - Motivation and Classroom Management

ELED5040 - Teaching Elementary School Mathematics II: Number, Operations, and Algebraic Reasoning - 2 - Credits

Course Overview

Course Prefix
ELED

Course Number
5040

Department
School of Teacher Education & Leadership

Course Title
Teaching Elementary School Mathematics II: Number, Operations, and Algebraic Reasoning

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students develop pedagogical content knowledge in number, operations, and algebraic reasoning for teaching grades preschool to grade six, including methods for designing and implementing mathematics instruction, assessment, remediation, and intervention.

Credit Hours

Credit Hours Min:
2

Contact Hours

Contact Hours Min:
2

Billing Hours

Billing Hours Min:
2

Lecture Hours

Lecture Hours Min:
2

Registration Restrictions

Admission to Teacher Education.

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Earn a minimum grade of B- in the following:

- ELED4061 - Teaching Elementary School Mathematics I: Rational Numbers, Operations, and Proportional Reasoning **OR** SPED5340 - Teaching Math to Students with Mild/Moderate Disabilities

Corequisite

Type
Corequisite

Required

Enroll in the following Courses:

- ELED5010 - Teaching Social Studies in Elementary School
- ELED5020 - Teaching Science in Elementary School
- ELED5030 - Teaching Language Arts (CI)
- ELED5060 - Elementary Content Practicum
- ELED5105 - Motivation and Classroom Management

ELED5050 - Student Teaching - Kindergarten - 3 - 9 Credits

Course Overview

Course Prefix
ELED

Course Number
5050

Department
School of Teacher Education & Leadership

Course Title
Student Teaching - Kindergarten

Grade Mode
Pass/Fail

Repeat Status
NR

Course Description
This course consists of three to nine semester credit hours of student teaching in an early childhood classroom. Student teachers demonstrate competency and professionalism in teaching. An understanding of developmentally appropriate curriculum is necessary.

Credit Hours

Credit Hours Min:
3

Credit Hours Max:
9

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
3

Contact Hours Max:
9

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
3

Billing Hours Max:
9

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
3

Lecture Hours Max:
9

Lecture Hours Operator:
TO

Registration Restrictions
Admission to Teacher Education

Simple Requisites

Corequisite

Type
Corequisite

Required

Enroll in the following Courses:

- ELED5250 - Elementary Education Student Teaching Seminar

ELED5060 - Elementary Content Practicum - 4 - Credits

Course Overview

Course Prefix
ELED

Course Number
5060

Department
School of Teacher Education & Leadership

Course Title
Elementary Content Practicum

Grade Mode
Pass/Fail

Repeat Status
NR

Course Description

Students apply instructional strategies in the curriculum areas of mathematics, science, and social studies under the guidance of cooperating classroom teachers and university faculty.

Credit Hours

Credit Hours
Min:
4

Contact Hours

Contact Hours
Min:
4

Billing Hours

Billing Hours
Min:
4

Lecture Hours

Lecture Hours
Min:
4

Registration Restrictions

Admission to Teacher Education

Simple Requisites

Prerequisite

Type
Prerequisite

Required courses

Complete ALL of the following Courses:

- ELED4040 - Reading Assessment and Intervention (CI)
- ELED4042 - Reading Assessment and Intervention Practicum
- ELED4049 - Foundations of Reading Review

Corequisite

Type
Corequisite

Required

Enroll in the following Courses:

- ELED5010 - Teaching Social Studies in Elementary School
- ELED5020 - Teaching Science in Elementary School
- ELED5030 - Teaching Language Arts (CI)
- ELED5040 - Teaching Elementary School Mathematics II: Number, Operations, and Algebraic Reasoning
- ELED5105 - Motivation and Classroom Management

ELED5105 - Motivation and Classroom Management - 3 - Credits

Course Overview

Course Prefix
ELED

Course Number
5105

Department
School of Teacher Education & Leadership

Course Title
Motivation and Classroom Management

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
The purpose of this course is to provide students with the knowledge and skills needed to effectively manage classroom behavior, as well as engage and motivate students.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Registration Restrictions
Admission to Teacher Education.

Simple Requisites

Corequisite

Type
Corequisite

Required

Enroll in the following Courses:

- ELED5010 - Teaching Social Studies in Elementary School
- ELED5020 - Teaching Science in Elementary School
- ELED5030 - Teaching Language Arts (CI)
- ELED5040 - Teaching Elementary School Mathematics II: Number, Operations, and Algebraic Reasoning
- ELED5060 - Elementary Content Practicum

ELED5150 - Student Teaching: Elementary - 3 - 9 Credits

Course Overview

Course Prefix
ELED

Course Number
5150

Department
School of Teacher Education & Leadership

Course Title
Student Teaching: Elementary

Grade Mode
Pass/Fail

Repeat Status
NR

Course Description
This course constitutes six semester credit hours of student teaching at the upper elementary grade level. Student teachers need to demonstrate competency and professionalism in teaching. Students begin their transition from university student to professional teacher.

Credit Hours

Credit Hours Min:
3

Credit Hours Max:
9

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
3

Contact Hours Max:
9

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
3

Billing Hours Max:
9

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
3

Lecture Hours Max:
9

Lecture Hours Operator:
TO

Registration Restrictions
Admission to Teacher Education.

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ELED5060 - Elementary Content Practicum

ELED5250 - Elementary Education Student Teaching Seminar - 3 - Credits

Course Overview

Course Prefix
ELED

Course Number
5250

Department
School of Teacher Education & Leadership

Course Title
Elementary Education Student Teaching Seminar

Grade Mode
Pass/Fail

Repeat Status
NR

Course Description
This course provides opportunities for student teachers/interns to learn about and practice skills in classroom management, curriculum development, instructional strategies, and lesson design and implementation in classroom contexts. Mentor teachers and University supervisors support context-appropriate, effective teaching.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Registration Restrictions

Admission to Teacher Education

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete at least 1 of the following courses:

- ELED5050 - Student Teaching - Kindergarten
- ELED5060 - Elementary Content Practicum

(may be taken concurrently)

Corequisite

Type
Corequisite

Required

Complete ALL of the following Courses:

- ELED5150 - Student Teaching: Elementary

ELED5900 - Independent Study - 0.5 - 2 Credits

Course Overview

Course Prefix
ELED

Course Number
5900

Department
School of Teacher Education & Leadership

Course Title
Independent Study

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course allows undergraduate students to pursue personal research interests by formalizing an independent project under the guidance of a professor or faculty mentor.

Credit Hours

Credit Hours Min:
0.5

Credit Hours Max:
2

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
0.5

Contact Hours Max:
2

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
0.5

Billing Hours Max:
2

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
0.5

Lecture Hours Max:
2

Lecture Hours Operator:
TO

ELET1010 - Introduction to Manufacturing - 3 - Credits

Course Overview

Course Prefix
ELET

Course Number
1010

Department
Technology, Design & Technical Ed

Course Title
Introduction to Manufacturing

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course explores manufacturing processes and how they work together, including automation, machining, and welding. During this course, students become familiar with shop safety, measuring tools, hand tools, power tools, and blueprints through hands-on labs.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Demonstrate basic safety practices used in any manufacturing facility.
2. Use shop math to solve manufacturing-related problems.
3. Read and use common measuring tools used in manufacturing.
4. Practice safe and proper use of basic hand and power tools.
5. Describe the basic operation of Lathes and Milling machines.
6. Become familiar with each industry and how they work together.

ELET1110 - Technical Mathematics - 3 - Credits

Course Overview

Course Prefix
ELET

Course Number
1110

Department
Technology, Design & Technical Ed

Course Title
Technical Mathematics

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers various specialized mathematical topics necessary within the trades and industries careers. These topics include, but are not limited to, systems of units, units of measure, scientific vs. metric prefix notation, functions, complex numbers and vectors.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

ELET1120 - Computer Tools for Technology - 3 - Credits

Course Overview

Course Prefix
ELET

Course Number
1120

Department
Technology, Design & Technical Ed

Course Title
Computer Tools for Technology

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Covers software and systems used by electronic and electrical technicians for system analysis and design. Topics include PSpice, MathCad, C++ programming, internet data retrieval, word processing, spreadsheets, graphing, HP48G programming, and programmable logic device software applications.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

ELET1130 - Circuit Analysis - 3 - Credits

Course Overview

Course Prefix
ELET

Course Number
1130

Department
Technology, Design & Technical Ed

Course Title
Circuit Analysis

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers basic and advanced DC and AC circuit concepts, including Ohm's Law, Kirchhoff's Laws, resistance, capacitance, inductance, impedance, and time constants. Students analyze series, parallel, series-parallel, and bridge networks using theorems, resonance, mesh, nodal, and source-Y conversions.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

ELET1140 - Circuit Analysis Lab - 2 - Credits

Course Overview

Course Prefix
ELET

Course Number
1140

Department
Technology, Design & Technical Ed

Course Title
Circuit Analysis Lab

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides practical electronics experience. Emphasis is placed on validation of concepts, laws, theorems and methods of analysis. Students design circuits and develop familiarity with electronic components, bread-boarding and test equipment. Laboratory reporting techniques are developed.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

ELET1150 - Digital Systems Theory - 4 - Credits

Course Overview

Course Prefix
ELET

Course Number
1150

Department
Technology, Design & Technical Ed

Course Title
Digital Systems Theory

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces the fundamentals of digital logic circuits. Topics include numbering systems and codes, logic gates operation, Boolean algebra, combinational logic and design, flip-flops, counters, timers, registers, programmable logic devices, memories, logic families, interfacing circuits, and sequential logic design.

Credit Hours

Credit Hours Min:
4

Contact Hours

Contact Hours Min:
4

Billing Hours

Billing Hours Min:
4

Lecture Hours

Lecture Hours Min:
4

Simple Requisites

Corequisite

Type
Corequisite

Required

Enroll in the following Courses:

- ELET1160 - Digital Systems Lab

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ELET1110 - Technical Mathematics

may be taken concurrently

ELET1160 - Digital Systems Lab - 1 - Credits

Course Overview

Course Prefix
ELET

Course Number
1160

Department
Technology, Design & Technical Ed

Course Title
Digital Systems Lab

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides practical experience related to topics in ELET 1150. Students are required to design combinational and sequential circuits, develop familiarity with programmable logic devices and digital electronic components, and learn the proper use of digital test equipment.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Simple Requisites

Corequisite

Type
Corequisite

Required

Enroll in the following Courses:

- ELET1150 - Digital Systems Theory

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ELET1110 - Technical Mathematics

may be taken concurrently

ELET1170 - Electronic Devices and Circuits - 3 - Credits

Course Overview

Course Prefix
ELET

Course Number
1170

Department
Technology, Design & Technical Ed

Course Title
Electronic Devices and Circuits

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces the basic physics of solid state devices and the analysis and applications of diodes, bipolar junction transistors, field-effect transistors, thyristors and linear integrated circuits.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Corequisite

Type
Corequisite

Required

Enroll in the following Courses:

- ELET1180 - Electronic Devices and Circuits Lab

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ELET1130 - Circuit Analysis

ELET1180 - Electronic Devices and Circuits Lab - 1 - Credits

Course Overview

Course Prefix
ELET

Course Number
1180

Department
Technology, Design & Technical Ed

Course Title
Electronic Devices and Circuits Lab

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides practical experience related to topics in ELET 1170. Covered topics include laws, theorems, and methods of analysis. Students design circuits and develop familiarity with electronic components, breadboarding and the proper use of test equipment.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ELET1170 - Electronic Devices and Circuits

may be taken concurrently

ELET1200 - Motor Controls - 4 - Credits

Course Overview

Course Prefix
ELET

Course Number
1200

Department
Technology, Design & Technical Ed

Course Title
Motor Controls

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course prepares students with a working knowledge and understanding of real-world motor control operations. Students set and design motor control circuits utilizing schematics. Students in this course identify components and use instrumentation to troubleshoot and maintain systems.

Credit Hours

Credit Hours
Min:
4

Contact Hours

Contact Hours
Min:
4

Billing Hours

Billing Hours
Min:
4

Lecture Hours

Lecture Hours
Min:
4

Simple Requisites

Corequisite

Type
Corequisite

Required

Enroll in the following Courses:

- ELET1210 - Motor Controls Lab

ELET1210 - Motor Controls Lab - 2 - Credits

Course Overview

Course Prefix
ELET

Course Number
1210

Department
Technology, Design & Technical Ed

Course Title
Motor Controls Lab

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides practical experience related to topics in ELET 1200. Topics include motor wiring and reading of electrical schematics. Laboratory reporting techniques are developed through report writing.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Simple Requisites

Corequisite

Type
Corequisite

Required

Enroll in the following Courses:

- ELET1200 - Motor Controls

ELET2110 - Micro Systems - 3 - Credits

Course Overview

Course Prefix
ELET

Course Number
2110

Department
Technology, Design & Technical Ed

Course Title
Micro Systems

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course examines microprocessors and microcontrollers and how they are used in a variety of industrial applications. This course also covers assembly language and C programming, as well as hardware interfacing as it applies to microprocessors and microcontrollers.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

ELET2120 - Micro Systems Lab - 2 - Credits

Course Overview

Course Prefix
ELET

Course Number
2120

Department
Technology, Design & Technical Ed

Course Title
Micro Systems Lab

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course reinforces the concepts, techniques and systems studied in ELET 2110. Particular emphasis is placed on safety, operation of test equipment, programming of devices, interfacing systems and laboratory reporting.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

No Requirements

ELET2130 - Communication Systems - 3 - Credits

Course Overview

Course Prefix
ELET

Course Number
2130

Department
Technology, Design & Technical Ed

Course Title
Communication Systems

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Studies the operational characteristics of Amplitude, Frequency and Phase Modulation techniques; and their applications in today's communication systems. In addition, digital communication techniques and technologies are explored.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ELET1110 - Technical Mathematics
- ELET2140 - Communication Systems lab

***ELET2140 COMMUNICATION SYSTEMS LAB** may be taken concurrently*

ELET2140 - Communication Systems lab - 1 - Credits

Course Overview

Course Prefix
ELET

Course Number
2140

Department
Technology, Design & Technical Ed

Course Title
Communication Systems lab

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Reinforces the concepts, techniques, and systems studied in the classroom. Particular emphasis is placed on safety, operation of test equipment, verification of operational characteristics, building and testing systems, and laboratory reporting.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Simple Requisites

Corequisite

Type
Corequisite

Required

Enroll in the following Courses:

- ELET2130 - Communication Systems

ELET2150 - Industrial Instrumentation Systems - 3 - Credits

Course Overview

Course Prefix
ELET

Course Number
2150

Department
Technology, Design & Technical Ed

Course Title
Industrial Instrumentation Systems

Grade Mode
Standard Letter

Repeat Status
NR

Course Description

Course topics include temperature and pressure measurements, flow, and level measurements used in process control. Students calculate, graph, interpolate, discuss, define, and articulate concepts relative to these parameters and the devices used to measure them.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Corequisite

Type
Corequisite

Required

Enroll in the following Courses:

- ELET2160 - Industrial Instrumentation Systems Lab

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ELET1200 - Motor Controls

ELET2160 - Industrial Instrumentation Systems Lab - 1 - Credits

Course Overview

Course Prefix
ELET

Course Number
2160

Department
Technology, Design & Technical Ed

Course Title
Industrial Instrumentation Systems Lab

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students set up, calibrate, test, and troubleshoot devices used to measure process parameters. Students will interpret manufacturer's specifications to perform safe and accurate calibration of various transmitters, sensors, and systems.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Simple Requisites

Corequisite

Type
Corequisite

Required

Complete ALL of the following Courses:

- ELET2150 - Industrial Instrumentation Systems

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ELET1200 - Motor Controls
- ELET1210 - Motor Controls Lab

ELET2200 - Industrial Mechanics II - 3 - Credits

Course Overview

Course Prefix
ELET

Course Number
2200

Department
Technology, Design & Technical Ed

Course Title
Industrial Mechanics II

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course instructs students in predictive maintenance in an industrial setting. Learners practice hands-on industrial skills using vibration analysis meters to take measurements on a variety of real-world power transmission systems to predict and prevent maintenance issues

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Other Enrollment Recommendations
TEAM1040 INDUSTRIAL MECHANICS

No Requirements

Course Learning Objectives

Course Learning Outcomes
1. Demonstrate a working knowledge of safety practices and procedures.
2. Maintain, calibrate, and repair power transmission systems.
3. Maintain, calibrate, analyze, and repair mechanical drives (v-belt, chain, gear drive).
4. Use and apply vibration and alignment measurement instrumentation and techniques.
5. Use preventative maintenance tools and meters.
6. Troubleshoot mechanical drive components and systems.

ELET2210 - Advanced PLC's - 3 - Credits

Course Overview

Course Prefix
ELET

Course Number
2210

Department
Technology, Design & Technical Ed

Course Title
Advanced PLC's

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course examines the advanced instruction set of the programmable logic controller and its uses in industrial applications. The course also covers the PC software programming package used to program PLCs, and the interfacing requirements for use in practical systems.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Corequisite

Type
Corequisite

Required

Complete ALL of the following Courses:
- ELET2220 - Advanced PLC's Lab

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:
- ELET1200 - Motor Controls

- ELET1210 - Motor Controls Lab

ELET2220 - Advanced PLC's Lab - 1 - Credits

Course Overview

Course Prefix
ELET

Course Number
2220

Department
Technology, Design & Technical Ed

Course Title
Advanced PLC's Lab

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Reinforces the concepts, techniques, and systems studied in the classroom. Particular emphasis is placed on safety, operation of equipment, programming of PLC's, interfacing to control systems and laboratory reporting.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Simple Requisites

Corequisite

Type
Corequisite

Required

Enroll in the following Courses:

- ELET2210 - Advanced PLC's

ELET2230 - Communication Systems II - 3 - Credits

Course Overview

Course Prefix
ELET

Course Number
2230

Department
Technology, Design & Technical Ed

Course Title
Communication Systems II

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Reinforces the concepts, techniques, and systems studied in the classroom. Particular emphasis is placed on safety, operation of equipment, programming of PLC's, interfacing to control systems and laboratory reporting.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Corequisite

Type
Corequisite

Enrolled in Course ELET2240

Enroll in the following Courses:

- ELET2240 - Communication Systems II Lab

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ELET2130 - Communication Systems
  AND ELET2340 - Telecom Mediums Lab

ELET2240 - Communication Systems II Lab - 1 - Credits

Course Overview

Course Prefix
ELET

Course Number
2240

Department
Technology, Design & Technical Ed

Course Title
Communication Systems II Lab

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Reinforces the concepts, techniques, and systems studied in the classroom. Particular emphasis is placed on safety, operation of test equipment, verification of operational characteristics, building and testing systems, and laboratory reporting.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Simple Requisites

Corequisite

Type
Corequisite

Required

Enroll in the following Courses:

- ELET2230 - Communication Systems II

ELET2250 - Industrial Control Systems - 6 - Credits

Course Overview

Course Prefix
ELET

Course Number
2250

Department
Technology, Design & Technical Ed

Course Title
Industrial Control Systems

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Studies industrial control systems, transducers, signal conditioning systems and techniques, sensors, servos, and their applications in the commercial and industrial environments.

Credit Hours

Credit Hours
Min:
6

Contact Hours

Contact Hours
Min:
6

Billing Hours

Billing Hours
Min:
6

Lecture Hours

Lecture Hours
Min:
6

Simple Requisites

Corequisite

Type
Corequisite

Required

Enroll in the following Courses:

- ELET2260 - Industrial Control Systems Lab

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ELET1170 - Electronic Devices and Circuits
- ELET1180 - Electronic Devices and Circuits Lab

ELET2260 - Industrial Control Systems Lab - 1 - Credits

Course Overview

Course Prefix
ELET

Course Number
2260

Department
Technology, Design & Technical Ed

Course Title
Industrial Control Systems Lab

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Reinforces the concepts, techniques, and systems studied in the classroom. Particular emphasis is placed on safety, operation of test equipment, building and testing systems, and laboratory reporting.

Credit Hours

Credit Hours Min:
1

Contact Hours

Contact Hours Min:
1

Billing Hours

Billing Hours Min:
1

Lecture Hours

Lecture Hours Min:
1

Simple Requisites

Corequisite

Type
Corequisite

Required

Enroll in the following Courses:

- ELET2250 - Industrial Control Systems

ELET2270 - Principles of Robotics - 3 - Credits

Course Overview

Course Prefix
ELET

Course Number
2270

Department
Technology, Design & Technical Ed

Course Title
Principles of Robotics

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students are introduced to the concepts associated with robots. Topics include robot types, kinematics, industrial uses, actuators, and programming. Emphasis is placed on the use of robots for industrial automation.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

ELET2280 - Principles of Robotics Lab - 2 - Credits

Course Overview

Course Prefix
ELET

Course Number
2280

Department
Technology, Design & Technical Ed

Course Title
Principles of Robotics Lab

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This lab consists of exercises associated with the concepts learned in the ELET 2270 lecture. Emphasis will be placed on safety, programming, and proper lab reporting techniques.

Credit Hours

Credit Hours Min:
2

Contact Hours

Contact Hours Min:
2

Billing Hours

Billing Hours Min:
2

Lecture Hours

Lecture Hours Min:
2

ELET2330 - Telecom Mediums - 3 - Credits

Course Overview

Course Prefix
ELET

Course Number
2330

Department
Technology, Design & Technical Ed

Course Title
Telecom Mediums

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Studies the characteristics, applications, planning, implementation, and management of telecommunication mediums.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Corequisite

Type
Corequisite

Required

Enroll in the following Courses:

- ELET2340 - Telecom Mediums Lab

ELET2340 - Telecom Mediums Lab - 1 - Credits

Course Overview

Course Prefix
ELET

Course Number
2340

Department
Technology, Design & Technical Ed

Course Title
Telecom Mediums Lab

Grade Mode
Pass/Fail

Repeat Status
NR

Course Description
Gives practical application to the topics studied in ELET 2330, as well as familiarizes the student with the use of basic tools, equipment, and techniques used by Telecom professionals installing, managing, and troubleshooting these mediums.

Credit Hours

Credit Hours Min:
1

Contact Hours

Contact Hours Min:
1

Billing Hours

Billing Hours Min:
1

Lecture Hours

Lecture Hours Min:
1

Simple Requisites

Prerequisite

Type
Prerequisite

Corequisite

Enroll in the following Courses:

- ELET2330 - Telecom Mediums

ELET2510 - Telecom Systems - 3 - Credits

Course Overview

Course Prefix
ELET

Course Number
2510

Department
Technology, Design & Technical Ed

Course Title
Telecom Systems

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Provides an overview and history of the telecommunications industry, covering voice and data systems. Students learn to construct, troubleshoot, test, and verify voice telecom systems while safely using tools and equipment to diagnose, repair, and ensure proper operation.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Corequisite

Type
Corequisite

Required

Enroll in the following Courses:

- ELET2520 - Telecom Systems Lab

ELET2520 - Telecom Systems Lab - 1 - Credits

Course Overview

Course Prefix
ELET

Course Number
2520

Department
Technology, Design & Technical Ed

Course Title
Telecom Systems Lab

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Gives practical application to the topics studied in ELET 2510, as well as familiarizes the student with the use of basic tools, equipment, and troubleshooting techniques.

Credit Hours

Credit Hours Min:
1

Contact Hours

Contact Hours Min:
1

Billing Hours

Billing Hours Min:
1

Lecture Hours

Lecture Hours Min:
1

Simple Requisites

Corequisite

Type
Corequisite

Required

Enroll in the following Courses:

- ELET2510 - Telecom Systems

ELET2977 - Cooperative Education - 1 - 3 Credits

Course Overview

Course Prefix
ELET

Course Number
2977

Department
Technology, Design & Technical Ed

Course Title
Cooperative Education

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Provides on-the-job experience for students majoring in electronics. The student meets with the instructor/coordinator at the beginning and periodically to determine and evaluate objectives, hours to be worked and credit agreement.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

Special Approval

Instructor permission

No Requirements

ELET2988 - Special Problems - 1 - 3 Credits

Course Overview

Course Prefix
ELET

Course Number
2988

Department
Technology, Design & Technical Ed

Course Title
Special Problems

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Individual work approved by the instructor. Time and credit to be arranged.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

No Requirements

ENGL0990 - Developmental Composition - 3 - Credits

Course Overview

Course Prefix
ENGL

Course Number
0990

Department
English

Course Title
Developmental Composition

Grade Mode
Remedial

Repeat Status
NR

Course Description
Emphasizes basic composition skills: generating ideas, developing unified, coherent paragraphs, writing and revising short essays, and editing for clarity and grammatical correctness. Includes reading and analysis of short essays. Instructors use a variety of instructional methods including group work, lecture, and tests. Students demonstrate their competence primarily by writing and revising short papers.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Completion of one of the following test scores:

- English ACT score of 14-16
- Reading ACCUPLACER score of 60 or higher
- Sentence Skills ACCUPLACER score of 0-69

ENGL1010 - Writing as Inquiry (CL1) - 3 - Credits

Course Overview

Course Prefix
ENGL

Course Number
1010

Department
English

Course Title
Writing as Inquiry (CL1)

General Education Attribute
CL1

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course emphasizes writing as a social act and method of learning. Students develop rhetorical awareness, critical thinking, information literacy, and composing processes; investigate and analyze multiple perspectives; and create written and oral communication for various purposes, audiences, and contexts.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

ENGL1020 - Individualized Writing Instruction - 1 - 3 Credits

Course Overview

Course Prefix
ENGL

Course Number
1020

Department
English

Course Title
Individualized Writing Instruction

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
For students in Distance Education international programs who need further practice in specific areas of writing.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

No Requirements

ENGL1050 - Community-Engaged Reading and Writing - 3 - Credits

Course Overview

Course Prefix
ENGL

Course Number
1050

Department
English

Course Title
Community-Engaged Reading and Writing

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces critical reading and writing strategies for academic coursework and builds student confidence in interpreting, analyzing and creating texts. Focuses on comprehension and analysis through community-focused and culturally-relevant texts.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

ENGL1055 - Vocabulary - 2 - Credits

Course Overview

Course Prefix
ENGL

Course Number
1055

Department
English

Course Title
Vocabulary

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Emphasis is on academic vocabulary. Develops strategies for increasing vocabulary using context clues and word parts (root words, prefixes and suffixes). Class will prepare students for academic course work and standardized test taking.

Credit Hours

Credit Hours Min:
2

Contact Hours

Contact Hours Min:
2

Billing Hours

Billing Hours Min:
2

Lecture Hours

Lecture Hours Min:
2

ENGL1410 - Elements of Grammar - 3 - Credits

Course Overview

Course Prefix
ENGL

Course Number
1410

Department
English

Course Title
Elements of Grammar

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Introduction to the study of the English sentence. Discussion of punctuation and usage to facilitate editing, as well as clarity and precision in writing.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

ENGL1500 - Special Topics in English - 1 - Credits

Course Overview

Course Prefix
ENGL

Course Number
1500

Department
English

Course Title
Special Topics in English

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This introductory one-credit course allows students to explore a focused topic within English studies.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Course Learning Objectives

Course Learning Outcomes
Gain introductory knowledge/experience involving a focused topic in English studies.

ENGL2000 - Degree and Career Planning for English Majors - 1 - Credits

Course Overview

Course Prefix
ENGL

Course Number
2000

Department
English

Course Title
Degree and Career Planning for English Majors

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students learn about durable skills gained through the English major and how to connect their coursework to various career paths. Students meet with advisors, instructors, and alumni and learn about opportunities for internships, study abroad, scholarships, and career pathways.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Course Learning Objectives

Course Learning Outcomes

1. Identify and articulate durable skills developed through the English major, such as critical thinking, writing, research, communication, creativity, and cultural competency.
2. Connect coursework to a range of career pathways, recognizing how skills obtained through the English major apply across industries and professions.
3. Engage with faculty, advisors, and alumni to explore professional pathways, build academic networks, and plan for completion of the degree.
4. Discover and evaluate enrichment opportunities, including internships, study abroad programs, scholarships, research fellowships and grants, and opportunities to present and publish undergraduate research.
5. Reflect on personal academic goals and begin to craft a professional narrative that integrates English studies with future career goals.
6. Develop strategies for career readiness, including resume building, job searching, and marketing English major skills in job searches.

ENGL2010 - Research and Argument Across Perspectives (CL2) - 3 - Credits

Course Overview

Course Prefix
ENGL

Course Number
2010

Department
English

Course Title
Research and Argument Across Perspectives (CL2)

General Education Attribute
CL2

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course teaches writing, research, and argument as methods of inquiry. Students research, analyze, synthesize, and evaluate arguments; negotiate the implications of research for multiple audiences and perspectives; create and revise written and oral communication; and contribute meaningfully to conversations.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Prerequisite can be fulfilled through fulfillment of CL1 or through coursework or examination.

Complete ALL of the following Course Sets:

- Communications Literacy (CL1) Course

ENGL2020 - Professional Communication (CL2) - 3 - Credits

Course Overview

Course Prefix
ENGL

Course Number
2020

Department
English

Course Title
Professional Communication (CL2)

General Education Attribute
CL2

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This inquiry-based course teaches professional writing and communication as a problem-solving activity. Students research and analyze texts, sources, and professional communication challenges; write and present for professional and public-facing audiences; and apply their learning to future professional and community contexts.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Course Sets:

- Communications Literacy (CL1) Course

(may be fulfilled through coursework or examination)

Course Learning Objectives

Course Learning Outcomes

1. Analyze communication contexts rhetorically by understanding audiences, purposes, and situations.

2. Identify and examine the communicative genres in their field of interest and their genre conventions.

3. Conduct research using both primary and secondary sources.

4. Reflect on professional communication ethics and make rhetorically and ethically sound decisions in professional communication contexts.

5. Design clear, accurate, effective communication in both written and oral forms.

ENGL2030 - Great Books and Ideas - 3 - Credits

Course Overview

Course Prefix
ENGL

Course Number
2030

Department
English

Course Title
Great Books and Ideas

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Great Books and Ideas

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

ENGL2040 - Introduction to Writing Studies (BHU) - 3 - Credits

Course Overview

Course Prefix
ENGL

Course Number
2040

Department
English

Course Title
Introduction to Writing Studies (BHU)

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Introduces the discipline of Writing Studies, which treats writing as both an activity and subject of study. By analyzing contemporary scholarship and conducting primary research, students learn threshold concepts in writing studies and discover how scholars conceptualize and study writing.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

ENGL2050 - Literature by Women (BHU) - 3 - Credits

Course Overview

Course Prefix
ENGL

Course Number
2050

Department
English

Course Title
Literature by Women (BHU)

General Education Attribute
BHU

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Will focus on literature by primarily British and American women within the historical and cultural framework of their times. Lectures, videos, and class discussion, as well as some group work, will take place. Quizzes, examinations and at least one paper are required.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Fulfillment of the following:
Communications Literacy (CL1) through coursework or examination (ENGL1010 WRITING AS INQUIRY (CL1) recommended)

ENGL2060 - Reading Across Borders (BHU) - 3 - Credits

Course Overview

Course Prefix
ENGL

Course Number
2060

Department
English

Course Title
Reading Across Borders (BHU)

General Education Attribute
BHU

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course is open to all students. It gives students the opportunity to read literature representative of the diversity in America and world cultures, focusing on groups not usually covered in most traditional literature courses.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

ENGL2070 - Introduction to Digital Humanities (BHU) - 3 - Credits

Course Overview

Course Prefix
ENGL

Course Number
2070

Department
English

Course Title
Introduction to Digital Humanities (BHU)

General Education Attribute
BHU

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces the perspectives and applications of the digital humanities as they relate to English studies. Students examine born-digital and digitized literary and cultural materials, enhancing their information literacy and quantitative reasoning skills.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

ENGL2120 - Literary Magazine - 1 - Credits

Course Overview

Course Prefix
ENGL

Course Number
2120

Department
English

Course Title
Literary Magazine

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
In this course, students work on the undergraduate literary magazine, learning how to put together a manuscript with poems, stories, essays, and artwork.

Credit Hours

Credit Hours Min:
1

Contact Hours

Contact Hours Min:
1

Billing Hours

Billing Hours Min:
1

Lecture Hours

Lecture Hours Min:
1

No Requirements

ENGL2160 - AI and Writing: Cultural and Historical Perspectives - 3 - Credits

Course Overview

Course Prefix
ENGL

Course Number
2160

Department
English

Course Title
AI and Writing: Cultural and Historical Perspectives

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
In this course, students explore the evolving world of artificial intelligence and its collaboration with human writers, starting with the advent of the printing press and moving to the sophisticated machine learning models of the 21st century.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Gain a basic understanding of the subject.

2. Develop specific skills, competencies, and points of view needed by professionals in the field.

3. Develop skills in expressing themselves orally or in writing.

ENGL2200 - Understanding Literature (BHU) - 3 - Credits

Course Overview

Course Prefix
ENGL

Course Number
2200

Department
English

Course Title
Understanding Literature (BHU)

General Education Attribute
BHU

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Introduction to fiction, drama, and poetry of different periods and cultures.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

ENGL2210 - Introduction to Folklore (BHU) - 3 - Credits

Course Overview

Course Prefix
ENGL

Course Number
2210

Department
English

Cross-Listed Courses
ANTH2210 - Introduction to Folklore (BHU), HIST2210 - Introduction to Folklore (BHU)

Course Title
Introduction to Folklore (BHU)

General Education Attribute
BHU

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Introduction to major genres of folklore (folk narrative, custom, folk music and song, vernacular architecture and arts), folk groups (regional, ethnic, occupational, familial), and basic folklore research methods (collecting and archiving).

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

ENGL2220 - Introduction to Fiction (BHU) - 3 - Credits

Course Overview

Course Prefix
ENGL

Course Number
2220

Department
English

Course Title
Introduction to Fiction (BHU)

General Education Attribute
BHU

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Readings in fiction, including novels, novellas, and stories. The course will examine elements of the genre such as character, plot, theme, and style. Various critical approaches and contexts will be discussed, as well as the historical development of the form.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

ENGL2230 - Introduction to Film (BHU) - 3 - Credits

Course Overview

Course Prefix
ENGL

Course Number
2230

Department
English

Course Title
Introduction to Film (BHU)

General Education Attribute
BHU

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides an introduction to major ethnic groups in America and their treatment in recent feature films.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

ENGL2240 - Introduction to Poetry (BHU) - 3 - Credits

Course Overview

Course Prefix
ENGL

Course Number
2240

Department
English

Course Title
Introduction to Poetry (BHU)

General Education Attribute
BHU

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Emphasizes analytical reading: considering a poem's formal elements such as rhythm, diction, imagery, form and sound. assuming that such understanding. Assists students in forming their own critical approaches and responses to poems by exploring a variety of major critical theories. Instructors employ a lecture and discussion format. Students demonstrate their understanding of course material by writing papers and/or essay examinations.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Course Sets:

- Communications Literacy (CL1) Course

(may be fulfilled through coursework or examination ENGL1010 WRITING AS INQUIRY (CL1) recommended)

ENGL2250 - Introduction to Creative Writing (BHU) - 3 - Credits

Course Overview

Course Prefix
ENGL

Course Number
2250

Department
English

Course Title
Introduction to Creative Writing (BHU)

General Education Attribute
BHU

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers techniques for writing fiction and poetry through reading contemporary works and workshopping student writing.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

ENGL2270 - Poetry Writing - 3 - Credits

Course Overview

Course Prefix
ENGL

Course Number
2270

Department
English

Course Title
Poetry Writing

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces techniques for writing poetry through reading contemporary works and workshopping student writing.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

ENGL2300 - Introduction to Shakespeare (BHU) - 3 - Credits

Course Overview

Course Prefix
ENGL

Course Number
2300

Department
English

Course Title
Introduction to Shakespeare (BHU)

General Education Attribute
BHU

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Introduction to comedies, histories, tragedies, and nondramatic poetry for nonmajors.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

ENGL2330 - Introduction to Children's Literature (BHU) - 3 - Credits

Course Overview

Course Prefix
ENGL

Course Number
2330

Department
English

Course Title
Introduction to Children's Literature (BHU)

General Education Attribute
BHU

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Review of the development of children's literature, past to present: types and characteristics of literature written for children; major award winners; practical uses within the classroom.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

ENGL2340 - Navajo Literature and Philosophy - 3 - Credits

Course Overview

Course Prefix
ENGL

Course Number
2340

Department
English

Course Title
Navajo Literature and Philosophy

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Survey course that examines Navajo literature in its many traditional and contemporary forms: mythology, tales, autobiography, fiction, and poetry. Lecture/discussion/reading/are the central activities of the course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

ENGL2350 - Indigenous Voices (BHU) - 3 - Credits

Course Overview

Course Prefix
ENGL

Course Number
2350

Department
English

Course Title
Indigenous Voices (BHU)

General Education Attribute
BHU

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course is intended for all students. It introduces general principles of Indian world view, including the realm of mythology; legends and tales; trickster tales and religious drama; songs, poetry, and figurative language; autobiography; contemporary Indian literature; and cross-cultural literary criticism.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

ENGL2510 - Survey of American Literature I - 3 - Credits

Course Overview

Course Prefix
ENGL

Course Number
2510

Department
English

Course Title
Survey of American Literature I

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Materials covered in this course provide an overview of the major authors, works, and trends in American literature from the earliest narratives of encounter, through the colonial and national periods, to the end of the Civil War.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

ENGL2520 - Survey of American Literature II - 3 - Credits

Course Overview

Course Prefix
ENGL

Course Number
2520

Department
English

Course Title
Survey of American Literature II

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Materials covered in this course provide an overview of the major authors, works and trends in American literature from the Civil War period to the present.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

ENGL2600 - Literary Analysis - 3 - Credits

Course Overview

Course Prefix
ENGL

Course Number
2600

Department
English

Course Title
Literary Analysis

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This writing-intensive course, in literary analysis and research, introduces English majors to techniques and problems of critical interpretation.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

ENGL2610 - Survey of British Literature I - 3 - Credits

Course Overview

Course Prefix
ENGL

Course Number
2610

Department
English

Course Title
Survey of British Literature I

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Selected readings in British literature from Beowulf to the 18th century. Writers covered include Chaucer, Spenser, Jonson, Shakespeare, Milton, Swift and Pope. British literature I is a standard English major course at the sophomore level, as preparation for upper division, more specific, more intensive courses.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

ENGL2620 - Survey of British Literature II - 3 - Credits

Course Overview

Course Prefix
ENGL

Course Number
2620

Department
English

Course Title
Survey of British Literature II

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Selected readings in British literature from the early 19th century to the present. Writers covered include Blake, Wordsworth, Keats, Browning, Conrad, Joyce, Woolf and Orwell. British literature II is a standard English major course at the sophomore level, as preparation for upper division, more specific, more intensive courses.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

ENGL2630 - Introduction to American Studies (BHU) - 3 - Credits

Course Overview

Course Prefix
ENGL

Course Number
2630

Department
English

Course Title
Introduction to American Studies (BHU)

General Education Attribute
BHU

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces students to American Studies methodology through a broad selection of American literary, historical, artistic, and cultural works, allowing them to examine the roots of American culture. It focuses on interdisciplinary research.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

ENGL2640 - Race and Ethnicity in the United States (BHU) - 3 - Credits

Course Overview

Course Prefix
ENGL

Course Number
2640

Department
English

Course Title
Race and Ethnicity in the United States (BHU)

General Education Attribute
BHU

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces central approaches and concepts for the study of race and ethnicity. It examines the history of these concepts, their role in the present time, and the debates and divisions surrounding these ideas from an interdisciplinary perspective.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

ENGL2720 - Survey of American Folklore - 3 - Credits

Course Overview

Course Prefix
ENGL

Course Number
2720

Department
English

Cross-Listed Courses
ANTH2720 - Survey of American Folklore, HIST2720 - Survey of American Folklore

Course Title
Survey of American Folklore

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Principal ethnic, regional, and occupational folk groups in America. Relations between folklore and American history, literature, and society. Key genres in American folklore (narrative, art, song, etc.) and their role in American culture.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

ENGL2800 - Utah Stories - 3 - Credits

Course Overview

Course Prefix
ENGL

Course Number
2800

Department
English

Course Title
Utah Stories

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Experience Utah through its stories. Students connect to their communities through fiction, family history, poetry, memoir, and more.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Course Learning Objectives

Course Learning Outcomes

Students taking Utah Stories will complete four interrelated units:

1. *Regional History and Context:* Focuses on settlement history, demographics, biodiversity, folklore and traditions, geography and ecology, recreation, and industry.
2. *Connections to Place:* Allows students to explore their personal and familial connections to place while examining the complex concepts of home, place, space, and migration.
3. *Contemporary Issues:* Students survey their communities/regions to identify relevant issues for further study. They conduct research and make connections between these issues and their gained knowledge of the history and life of their region.
4. *Community Conversation:* Students design a presentation targeting specific audiences—such as schools or businesses or peers—to share their knowledge with their wider community.

ENGL2977 - Cooperative Education - 1 - 3 Credits

Course Overview

Course Prefix
ENGL

Course Number
2977

Department
English

Course Title
Cooperative Education

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Provides supervised on-the-job training in literature. The student meets with the instructor/coordinator periodically during the course to determine and evaluate learning objectives, hours to be worked, and credit agreements.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

Special Approval

Instructor permission

No Requirements

ENGL2988 - Special Problems - 1 - 3 Credits

Course Overview

Course Prefix
ENGL

Course Number
2988

Department
English

Course Title
Special Problems

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Individual work approved by instructor. Time and credit will be arranged.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

No Requirements

ENGL3020 - Perspectives in Linguistics (DHA) - 3 - Credits

Course Overview

Course Prefix
ENGL

Course Number
3020

Department
English

Course Title
Perspectives in Linguistics (DHA)

General Education Attribute
DHA

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
In-depth study of linguistics for nonmajors. Topics vary according to faculty expertise.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

ENGL3030 - Perspectives in Literature (DHA) - 3 - Credits

Course Overview

Course Prefix
ENGL

Course Number
3030

Department
English

Course Title
Perspectives in Literature (DHA)

General Education Attribute
DHA

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
In-depth study of literature for nonmajors. Topics vary according to faculty expertise.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

ENGL3040 - Perspectives in Writing and Rhetoric (DHA) - 3 - Credits

Course Overview

Course Prefix
ENGL

Course Number
3040

Department
English

Course Title
Perspectives in Writing and Rhetoric (DHA)

General Education Attribute
DHA

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
In-depth study of rhetoric and writing for nonmajors. Topics vary according to faculty expertise.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

ENGL3050 - Masterpieces of World Literature (DHA) - 3 - Credits

Course Overview

Course Prefix
ENGL

Course Number
3050

Department
English

Course Title
Masterpieces of World Literature (DHA)

General Education Attribute
DHA

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
In-depth study of masterpieces of world literature from the earliest times to the present. For nonmajors.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

ENGL3060 - Mind And Body: The Rhetoric Of Health And Healing (DHA) - 3 - Credits

Course Overview

Course Prefix
ENGL

Course Number
3060

Department
English

Course Title
Mind And Body: The Rhetoric Of Health And Healing (DHA)

General Education Attribute
DHA

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course explores cultural expressions that reflect the condition of the human mind and body. Students examine rhetorical strategies, patterns, and devices used to represent mental and physical health and explore the impacts of this rhetoric on individual and social understandings of health.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes
1. Gain a basic understanding of rhetorical and cultural theory as applied to issues of health, mental health, and healing.

2. Develop knowledge and understanding of diverse perspectives, global awareness, or other cultures.

3. Gain a broader understanding and appreciation of intellectual/cultural activity.

4. Reflect on big questions about the experience of being human by confronting primary texts and connecting ideas from other times and places with their own experience.

5. Compare and contrast different ideas both within and across historical periods,

cultures, and/or civilizations.

6. Read analytically and think critically, summarizing and explaining the theses of a text.

7. Write clearly and argue logically.

ENGL3070 - Digital Folklore (DHA) - 3 - Credits

Course Overview

Course Prefix
ENGL

Course Number
3070

Department
English

Cross-Listed Courses
HIST3070 - Digital Folklore (DHA)

Course Title
Digital Folklore (DHA)

General Education Attribute
DHA

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
In-depth consideration of a rapidly emerging area of folklore studies: digital culture. Explores folklore in a digital context, folk groups and communities developed via communication technologies, and virtual ethnography.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

ENGL3140 - Introduction to LGBTQ+ Literature (DHA) - 3 - Credits

Course Overview

Course Prefix
ENGL

Course Number
3140

Department
English

Course Title
Introduction to LGBTQ+ Literature (DHA)

General Education Attribute
DHA

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course examines literature that represents and considers the experiences (historical, cultural, creative) of individuals who feel that they fall outside of "norms" of gender identity, gender expression, and/or sexual orientation.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Course Learning Objectives

Course Learning Outcomes

1. Gain a basic understanding of the experiences (historical, discursive, and cultural) of individuals within the LGTBQ communities, as well as those who feel they in some way fall outside of the norms of gender identity, gender expression, and sexual orientation.
2. Develop knowledge and understanding of literary and cultural theory as applied to issues of gender, sexuality, and sexual orientation.
3. Examine literary representations of LGBTQ individuals and communities from interdisciplinary perspectives.
4. Reflect on big questions about the experience of being human by confronting primary texts and connecting ideas from other times and places with their own experience.
5. Compare and contrast different ideas both within and across historical periods, cultures, and/or civilizations.
6. Read analytically and think critically, summarizing and explaining the theses of a text.
7. Write clearly and argue logically.

ENGL3150 - Science Fiction (DHA) - 3 - Credits

Course Overview

Course Prefix
ENGL

Course Number
3150

Department
English

Course Title
Science Fiction (DHA)

General Education Attribute
DHA

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course examines the history, forms, and conventions associated with science/speculative fiction, poetry, and drama.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Course Learning Objectives

Course Learning Outcomes
1. Isolate and analyze literary elements particular to the genre(s) studied.
2. Identify and analyze the connections between the literary texts.
3. Articulate emotional/intellectual responses to works of literature in class discussions.
4. Understand and articulate the ways in which the texts are situated within cultural/historical context(s).
5. Demonstrate a critical understanding of and appreciation for literature by creating reasonable written interpretations supported by textual evidence.
6. Gaining a broader understanding and appreciation of intellectual/cultural activity (music, science, literature, etc.).
7. Developing skill in expressing myself orally and in writing.
8. Learning to analyze and critically evaluate ideas, arguments, and points of view.

ENGL3160 - AI and Writing Across Disciplines (CI) - 3 - Credits

Course Overview

Course Prefix
ENGL

Course Number
3160

Department
English

Course Title
AI and Writing Across Disciplines (CI)

General Education Attribute
CI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course teaches students how generative artificial intelligence tools and systems are approached, utilized, and navigated in multiple disciplines. Students investigate AI ethics; how AI facilitates or complicates communication and research; and AI's complex relationship to real-world problems and solutions.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Course Sets:

- Communications Literacy (CL2) Course

(may be fulfilled through coursework or examination)

Course Learning Objectives

Course Learning Outcomes
1. Develop an ability to write with purpose in consideration of various audiences and in accordance with genre and disciplinary conventions.

2. Develop oral communication with purpose in consideration of various audiences and in accordance with genre and disciplinary conventions.

3. Engage in the iterative process of improving communication based on feedback from an informed audience.

4. Identify critical issues involved in the use of Generative AI across contexts and navigate opposing viewpoints and synthesize different sources.

5. Apply concepts (e.g., algorithm accountability) to analyze social debates around Generative AI and writing.

6. Read academic publications that present a wide range of epistemological foundations and research methods.

7. Present your ideas through academic genres and publicly-engaging multimodal works, in which language is crafted intentionally to achieve the rhetorical purpose.

ENGL3170 - Legal Writing (CI) - 3 - Credits

Course Overview

Course Prefix
ENGL

Course Number
3170

Department
English

Course Title
Legal Writing (CI)

General Education Attribute
CI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces contexts, conventions, and ethical considerations of legal writing. Students research, analyze, and interpret common legal documents; write clearly, concisely, and effectively on legal issues; and utilize legal genres to inform, persuade, and advocate for multiple audiences.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Course Learning Objectives

Course Learning Outcomes

1. Develop literacies necessary to critically read, analyze and interpret everyday legal documents, including contracts, policies, and user agreements.
2. Identify and analyze ethical considerations, social contexts, and affected stakeholders in legal arguments and conversations.
3. Effectively and ethically research laws, cases, background information, and perspectives related to legal matters.
4. Draft, analyze, and revise texts, documents, and genres related to legal writing.
5. Communicate clearly, concisely, and effectively for multiple contexts and audiences.
6. Analyze generative AI's evolving role on legal writing and the law.

ENGL3175 - Healthcare and Medical Writing - 3 - Credits

Course Overview

Course Prefix
ENGL

Course Number
3175

Department
English

Course Title
Healthcare and Medical Writing

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces students to conventions and ethical considerations of healthcare and medical writing. Students read and analyze health-related sources and documents; investigate perspectives in medical information; and communicate health and medical concepts clearly, concisely, and effectively to multiple audiences.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Course Learning Objectives

Course Learning Outcomes

1. Develop literacies necessary to critically read, analyze, and interpret everyday medical and health-related documents and information, including prescription information, medical briefs, medical research, and public-facing healthcare documents and websites.
2. Identify and analyze ethical considerations, social contexts, and key stakeholders in healthcare and medical conversations.
3. Research, translate, and communicate health and medical concepts to multiple audiences.
4. Draft, analyze, and revise texts, documents, and genres related to medical writing.
5. Analyze generative AI's evolving role on healthcare and medical writing.

ENGL3180 - Writing for the Public - 3 - Credits

Course Overview

Course Prefix
ENGL

Course Number
3180

Department
English

Course Title
Writing for the Public

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course develops critical literacies for readers and communicators of public writing. Students research, analyze, and evaluate public-facing information and arguments; write to inform, persuade, and advocate for public issues; and write for public audiences as experts in their fields.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Course Learning Objectives

Course Learning Outcomes

1. Develop literacies necessary to critically read, analyze, and interpret everyday public-facing documents and information.
2. Research and analyze background information on public conversations in order to more fully understand the context, accuracy, and reliability of public-facing documents.
3. Utilize public writing to inform, persuade, and advocate for multiple audiences and purposes.
4. Collaborate with peers to enhance and share their work as professionals.

ENGL3185 - Writing for Peace - 3 - Credits

Course Overview

Course Prefix
ENGL

Course Number
3185

Department
English

Course Title
Writing for Peace

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students engage with various contemporary and historical texts on peace and conflict resolution; investigate multiple perspectives and approaches to peacebuilding; and craft written, visual, and oral projects and messages to advocate for peace in local and global contexts.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Course Learning Objectives

Course Learning Outcomes

1. Engage with, rhetorically listen to, and reflect on a variety of written, visual, and oral texts connected to conflict and peace
2. Identify and analyze challenges and possibilities for peacebuilding, particularly with and through writing
3. Seek, investigate, and consider multiple perspectives on a peace-related issue in order to facilitate conflict resolution and peacebuilding within communities
4. Identify possibilities for shared individual and community values in order to dialogue on both low- and high-stakes areas of conflict
5. Employ written, visual, and oral communication to advocate for peacebuilding

ENGL3190 - Data Storytelling (CI) - 3 - Credits

Course Overview

Course Prefix
ENGL

Course Number
3190

Department
English

Course Title
Data Storytelling (CI)

General Education Attribute
CI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course develops critical literacies for readers and communicators of everyday data. Students interpret and analyze data stories in texts and arguments; investigate data collection methods, underlying assumptions, and purposes; and craft ethical and compelling data stories for specific audiences.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Other Enrollment Recommendations
Completion of Quantitative Literacy (QL) course recommended before enrollment.

Course Learning Objectives

Course Learning Outcomes

1. Recognize, analyze, and investigate multiple forms of data and data collection methods in everyday written, visual, and oral communication contexts.
2. Identify, question, and analyze collection methods, sources, underlying assumptions, rhetorical purposes, and audiences of everyday data.
3. Understand and apply key terms related to data literacy, including data transparency, data visualization, algorithms, bias, and generative AI.
4. Develop rhetorical data literacy strategies to become critical readers and communicators of digital information.

5. Create ethical and compelling data stories to explore issues, question underlying assumptions in narratives, and inform or persuade specific audiences.

ENGL3210 - Classical Mythology - 3 - Credits

Course Overview

Course Prefix
ENGL

Course Number
3210

Department
English

Cross-Listed Courses
ARTH3210 - Classical Mythology, CLAS3210 - Classical Mythology, HIST3210 - Classical Mythology, RELS3210 - Classical Mythology

Course Title
Classical Mythology

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces major myths of the Classical world and explores how these myths serve as keys to understanding the documents and arts of Classical civilization.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

ENGL3220 - Romance Novels (DHA) - 3 - Credits

Course Overview

Course Prefix
ENGL

Course Number
3220

Department
English

Course Title
Romance Novels (DHA)

General Education Attribute
DHA

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course explores romance novels as both a literary genre and cultural phenomenon. Students examine these novels from a variety of points of view and analyze subgenres of popular romance.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Course Learning Objectives

Course Learning Outcomes

1. Thoughtfully discuss and respond to recent romance novels, both orally and in writing.
2. Evaluate and compare and contrast the use of different literary tropes in romance novels.
3. Evaluate the ways in which tropes create meaning.
4. Evaluate and compare the representation of themes in romance novels, including but not limited to:
   - Gender, sexuality, and desire
   - Race
   - Class
   - Embodiment
   - Affect and emotion

5. Write well-crafted, well-supported argumentative, literary analytical papers.
6. Craft arguments based on close reading as well as broader thematic analysis.
7. Give oral presentations on major tropes in the romance genre.
8. Develop a body of writing reflecting on romance novels and the questions they raise, and how these relate to their own lives.

ENGL3230 - Young Adult Literature (DHA) - 3 - Credits

Course Overview

Course Prefix
ENGL

Course Number
3230

Department
English

Course Title
Young Adult Literature (DHA)

General Education Attribute
DHA

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students investigate and analyze the genre of Young Adult Literature and recognize the relevance of YA literature to contemporary issues and their own lives.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Course Learning Objectives

Course Learning Outcomes
Writing & Reflection

1. Compose thoughtful literary analyses supported by textual evidence.
2. Reflect on personal experiences in relation to characters and themes in YA texts.
3. Develop clear, persuasive writing through essays, reading responses, and creative projects.

Genre Knowledge

1. Demonstrate familiarity with major classic and contemporary YA authors and works.
2. Understand the evolution of the YA genre and its role in shaping youth identity and culture.

Communication & Engagement

1. Participate in meaningful discussions about literature and its relevance to adolescent experiences.
2. Present ideas clearly in both written and verbal formats, using literary terminology effectively.
3. Collaborate with peers to explore diverse perspectives and interpretations of YA.

Cultural Awareness & Empathy

1. Explore diverse perspectives and experiences represented in YA literature, including race, gender, class, and sexuality.
2. Reflect on how literature can foster empathy and understanding across generational and cultural divides.

Interdisciplinary Thinking

1. Connect YA literature to broader disciplines such as history, psychology, sociology, and media studies.
2. Evaluate how literature reflects and influences youth identity, activism, and cultural expression over time.

ENGL3240 - Writing Family Stories (DHA) - 3 - Credits

Course Overview

Course Prefix
ENGL

Course Number
3240

Department
English

Course Title
Writing Family Stories (DHA)

General Education Attribute
DHA

Grade Mode
Standard Letter

Repeat Status
NR

Course Description

This course explores the family storytelling by studying written and oral examples and learning to write family stories in a range of forms. Students examine how family stories shape memory and identity and the cultural contexts that shape family experiences.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Course Learning Objectives

Course Learning Outcomes

1. Understand how family stories function as rhetorical acts that shape personal meaning and cultural identity.
2. Identify and analyze narrative craft: character, scene, voice, conflict, and structure.
3. Conduct primary and secondary research, including narrative and contextual interrogation.
4. Produce compelling narrative in both written vs. oral mediums.

ENGL3250 - Travel the World through Literature and Writing (DHA) - 3 - Credits

Course Overview

Course Prefix
ENGL

Course Number
3250

Department
English

Course Title
Travel the World through Literature and Writing (DHA)

General Education Attribute
DHA

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course examines human motivation for travel, exploration, and cultural movement throughout the world by studying journeys depicted in literature and media.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Course Learning Objectives

Course Learning Outcomes

1. Examine and interpret historic, economic, political, and social influences on human travel, with attention to how these forces shape cultural encounters and human experiences.
2. Analyze and compare literary, artistic, musical, and cinematic representations of journeys to identify genre conventions, innovations, and the perspectives they embody.
3. Evaluate the impact of transportation, mobility, and accessibility on diverse populations, considering the relationship between movement, limitation, and resilience.
4. Synthesize and contextualize depictions of travel across media to develop informed, global perspectives on diversity, identity, and cross-cultural exchange.
5. Apply and articulate knowledge of travel literature and media by researching and producing creative works in contemporary travel genres tailored to specific audiences and contexts.

ENGL3260 - Adapted: Page, Stage, Song, and Screen - 3 - Credits

Course Overview

Course Prefix
ENGL

Course Number
3260

Department
English

Course Title
Adapted: Page, Stage, Song, and Screen

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Pairs written texts with film and stage versions. Students explore creative transformations between formats. Specific focus depends on instructor expertise and may include fiction, poetry, graphic novels, plays, musicals, children's literature, animation, video games, songs, and more.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Course Learning Objectives

Course Learning Outcomes
1. Analyze and discuss texts from a variety of genres and in multiple formats.
2. Locate and evaluate source material through research and critical reading.
3. Develop communications literacy skills by presenting coursework in multiple formats to diverse audiences.
4. Strengthen interdisciplinary thinking skills by studying materials through various disciplinary perspectives.
5. Work cooperatively with others and pursue community engagement opportunities.

ENGL3270 - Funny Business (DHA) - 3 - Credits

Course Overview

Course Prefix
ENGL

Course Number
3270

Department
English

Course Title
Funny Business (DHA)

General Education Attribute
DHA

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course takes comedy seriously as it introduces students to hilarious literary texts from a range of time periods, traditions, and genres. Whether your tastes skew toward the satirical or the lighthearted, this course combines laughing and learning.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Course Learning Objectives

Course Learning Outcomes
1. Analyze and discuss the interplay between thematic and structural elements of texts.
2. Gain cross-cultural awareness through the study of comic literature from different traditions, periods, and cultures.
3. Engage with important human questions related to living well and finding delight.
4. Develop both oral and written expressive skills with attention to voice, tone, style, pacing, and the various strategies of humorists.

ENGL3280 - Graphic Novels - 3 - Credits

Course Overview

Course Prefix
ENGL

Course Number
3280

Department
English

Course Title
Graphic Novels

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces students to both the history and the form of graphic novels and provide a critical vocabulary for discussing and analyzing works of sequential art. Specific focus depends on instructor expertise.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Course Learning Objectives

Course Learning Outcomes

1. Learn the critical terminology and methodology associated with the analysis of graphic novels.
2. Locate and evaluate source material through research and critical reading.
3. Integrate secondary sources into the student's own interpretive argument.
4. Communicate ideas and interpretations clearly in both written and spoken, formal and informal contexts.

ENGL3300 - Special Topics in Literary History - 3 - Credits

Course Overview

Course Prefix
ENGL

Course Number
3300

Department
English

Course Title
Special Topics in Literary History

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Explores a movement or moment in literary history. Topics vary.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

ENGL3305 - Medieval Literary History - 3 - Credits

Course Overview

Course Prefix
ENGL

Course Number
3305

Department
English

Course Title
Medieval Literary History

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Covers a variety of literary genres and movements from the medieval era.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

ENGL3310 - Resistance and Literature I - 3 - Credits

Course Overview

Course Prefix
ENGL

Course Number
3310

Department
English

Course Title
Resistance and Literature I

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Explores the struggle for freedom, peace, and justice in early World Literature.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

ENGL3315 - Early Modern British Literary History - 3 - Credits

Course Overview

Course Prefix
ENGL

Course Number
3315

Department
English

Course Title
Early Modern British Literary History

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Covers a variety of literary genres and movements from the early modern period (roughly the sixteenth and seventeenth centuries) in the British Isles.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

ENGL3320 - Resistance and Literature II - 3 - Credits

Course Overview

Course Prefix
ENGL

Course Number
3320

Department
English

Course Title
Resistance and Literature II

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Explores the struggle for freedom, peace, and justice in modern World Literature.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

ENGL3325 - Eighteenth-Century British Literary History - 3 - Credits

Course Overview

Course Prefix
ENGL

Course Number
3325

Department
English

Course Title
Eighteenth-Century British Literary History

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Covers a variety of literary genres and movements from the eighteenth century in the British Isles.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

ENGL3335 - Nineteenth-Century British Literary History - 3 - Credits

Course Overview

Course Prefix
ENGL

Course Number
3335

Department
English

Course Title
Nineteenth-Century British Literary History

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Covers a variety of literary genres and movements from the nineteenth century in the British Isles.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

ENGL3345 - Literary History of the British Isles Since 1900 - 3 - Credits

Course Overview

Course Prefix
ENGL

Course Number
3345

Department
English

Course Title
Literary History of the British Isles Since 1900

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Covers a variety of literary genres and movements from the British Isles since 1900.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

ENGL3355 - Literary History of the Early Americas - 3 - Credits

Course Overview

Course Prefix
ENGL

Course Number
3355

Department
English

Course Title
Literary History of the Early Americas

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Covers a variety of literary genres and movements from the Americas before 1800.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

ENGL3365 - Nineteenth-Century American Literary History - 3 - Credits

Course Overview

Course Prefix
ENGL

Course Number
3365

Department
English

Course Title
Nineteenth-Century American Literary History

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Covers a variety of literary genres and movements from the nineteenth century in the Americas.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

ENGL3375 - Literary History of the Americas Since 1900 - 3 - Credits

Course Overview

Course Prefix
ENGL

Course Number
3375

Department
English

Course Title
Literary History of the Americas Since 1900

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Covers a variety of literary genres and movements from the Americas since 1900.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

ENGL3385 - Postcolonial World Literature - 3 - Credits

Course Overview

Course Prefix
ENGL

Course Number
3385

Department
English

Course Title
Postcolonial World Literature

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course covers a variety of texts that emerge from and explore the experience of colonization. Specific subject matter varies according to faculty expertise.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

ENGL3395 - World Literature in Translation - 3 - Credits

Course Overview

Course Prefix
ENGL

Course Number
3395

Department
English

Course Title
World Literature in Translation

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course covers a variety of texts originally written in languages other than English. Specific subject matter varies according to faculty expertise.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

ENGL3420 - Fiction Writing - 3 - Credits

Course Overview

Course Prefix
ENGL

Course Number
3420

Department
English

Course Title
Fiction Writing

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Covers basic elements of writing fiction: form, structure, plot, theme, characterization, dialogue, point of view, and imagery.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

ENGL3430 - Poetry Writing - 3 - Credits

Course Overview

Course Prefix
ENGL

Course Number
3430

Department
English

Course Title
Poetry Writing

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Covers basic elements of writing poetry: language, detail, voice, tone, literal and figurative imagery, rhythm, open and closed form, structure, and theme.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

ENGL3440 - Creative Nonfiction Writing - 3 - Credits

Course Overview

Course Prefix
ENGL

Course Number
3440

Department
English

Course Title
Creative Nonfiction Writing

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Focuses on the essay as creative nonfiction, emphasizing persona, audience, purpose, tone, and style. Students study difference between fiction and nonfiction. Goal is to write publishable nonfiction.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

ENGL3470 - Approaches to Research (QI) - 3 - Credits

Course Overview

Course Prefix
ENGL

Course Number
3470

Department
English

Course Title
Approaches to Research (QI)

General Education Attribute
QI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces multiple methods of conducting research in the humanities through both quantitative and qualitative tools. Students examine current research, principles of research design, and data collection instruments. Students collect and analyze data using various tools, including artificial intelligence.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Course Sets:

- Quantitative Literacy (QL) Course

ENGL3480 - Writing for Games - 3 - Credits

Course Overview

Course Prefix
ENGL

Course Number
3480

Department
English

Course Title
Writing for Games

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces students to the theory and practice of storytelling in games. Students analyze existing games and create their own interactive narratives, including board games and professional game writing samples. No coding or design experience required.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Course Learning Objectives

Course Learning Outcomes

1. Analyze the rhetorical and narrative strategies used in digital and tabletop games
2. Apply narrative theory to the design of interactive, player-driven stories
3. Compose original writing for games, including rules, dialogue, and branching narratives
4. Collaborate on creative projects involving both storytelling and system design
5. Reflect on the cultural, ethical, and professional implications of writing for games
6. Produce a portfolio of work demonstrating creative, critical, and professional writing skills

ENGL3500 - Teaching English - 2 - Credits

Course Overview

Course Prefix
ENGL

Course Number
3500

Department
English

Course Title
Teaching English

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
The Teaching English course is paired with the one-credit course, SCED 3300 Clinical 1, to provide students with hands-on experience working in secondary school classrooms.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Registration Restrictions

Admission to the Secondary Teacher Education Program.

ENGL3510 - Teaching Young Adult Literature - 3 - Credits

Course Overview

Course Prefix
ENGL

Course Number
3510

Department
English

Course Title
Teaching Young Adult Literature

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Study of a variety of genres written specifically for adolescent audience. Intended for those interested in teaching secondary school English.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

ENGL3530 - Children's Literature - 3 - Credits

Course Overview

Course Prefix
ENGL

Course Number
3530

Department
English

Course Title
Children's Literature

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Study of aesthetic merit of poetry and prose available for children, ages 1-12. Intended for those interested in teaching or writing for children.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

ENGL3610 - Multicultural American Literature - 3 - Credits

Course Overview

Course Prefix
ENGL

Course Number
3610

Department
English

Course Title
Multicultural American Literature

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This is an introduction to the study of diverse literatures of the United States.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

ENGL3620 - Native American Studies - 3 - Credits

Course Overview

Course Prefix
ENGL

Course Number
3620

Department
English

Course Title
Native American Studies

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Multidisciplinary introduction to study of Native Americans, emphasizing folklore, history, anthropology, literature, traditions, and contemporary issues such as the environment.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

ENGL3630 - The Farm in Literature and Culture (CI/DHA) - 3 - Credits

Course Overview

Course Prefix
ENGL

Course Number
3630

Department
English

Course Title
The Farm in Literature and Culture (CI/DHA)

General Education Attribute
CI, DHA

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
English 3630, The Farm in Literature and Culture explore the "culture of agriculture." Students will read classical texts that provide a foundation to literature and other texts of the American farm as well as explore farming through the lens of art, architecture, folklore, popular culture, and genre.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

ENGL3640 - Nature Writing (DHA) - 3 - Credits

Course Overview

Course Prefix
ENGL

Course Number
3640

Department
English

Course Title
Nature Writing (DHA)

General Education Attribute
DHA

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This interdisciplinary course explores how practices of reading and writing impact the relationship between humans and the environment. Students investigate how the environment has been shaped by colonialism and westward expansion and how contemporary writings influence current conversations on environmental issues.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

ENGL3700 - Regional Folklore (DHA) - 3 - Credits

Course Overview

Course Prefix
ENGL

Course Number
3700

Department
English

Course Title
Regional Folklore (DHA)

General Education Attribute
DHA

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Study of folklore and folklife as they relate to regional cultures.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

ENGL3710 - Topics in Folklore (CI) - 3 - Credits

Course Overview

Course Prefix
ENGL

Course Number
3710

Department
English

Cross-Listed Courses
ANTH3710 - Topics in Folklore (CI), HIST3710 - Topics in Folklore (CI), RELS3710 - Topics in Folklore (CI)

Course Title
Topics in Folklore (CI)

General Education Attribute
CI

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course includes issues, problems, and methodologies in folklore study. The focus and instructor are variable.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

ENGL3720 - Children's Folklore (DHA) - 3 - Credits

Course Overview

Course Prefix
ENGL

Course Number
3720

Department
English

Course Title
Children's Folklore (DHA)

General Education Attribute
DHA

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course focuses on the culture of childhood by examining children's traditions and folklore, including games, stories, songs, rhymes, and other verbal routines. Students learn to interpret children's behavior, play, and folklore to better understand the culture(s) of childhood.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

ENGL3830 - The History of Yoga - 3 - Credits

Course Overview

Course Prefix
ENGL

Course Number
3830

Department
English

Cross-Listed Courses
HIST3830 - The History of Yoga, KIN3830 - The History of Yoga, RELS3830 - The History of Yoga

Course Title
The History of Yoga

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course explores the history of yoga from its origins in Indian prehistory to the variety of philosophies and practices that have evolved throughout the world. Students study ancient and modern texts on yoga and broader philosophy and theory.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

ENGL4200 - Linguistic Structures - 3 - Credits

Course Overview

Course Prefix
ENGL

Course Number
4200

Department
English

Course Title
Linguistic Structures

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Introduction to linguistic science: phonetics, phonology, morphology, and syntax, especially as relating to English. Exposure to other aspects of linguistic analysis, including language origins and linguistic diversity.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

ENGL4210 - History of English: Change and Diversity - 3 - Credits

Course Overview

Course Prefix
ENGL

Course Number
4210

Department
English

Course Title
History of English: Change and Diversity

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces the linguistic history of English, beginning with its Indo-European roots and continuing through Old English and Middle English to contemporary usage. It covers sociolinguistic aspects of English language use, dialects, and global diversity.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

ENGL4220 - Language and Writing: A History - 3 - Credits

Course Overview

Course Prefix
ENGL

Course Number
4220

Department
English

Course Title
Language and Writing: A History

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers the origin of human language and its evolutionary advantage, and the invention of writing, the tool that sends language through space and time. A wide range of the world's writing systems will be examined in detail.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes
1. Describe the different types of writing systems and where they are found in both ancient and modern times.

2. Identify different modern writing systems given samples of the script and basic transliterations.

3. Correlate non-linguistic technological and sociological developments with changes and developments in writing systems over time.

4. Articulate how language evolved and diversified in the human species and the role of agriculture in the origin of writing.

5. Demonstrate how modern technology has adapted to a wide range of writing systems through Unicode and Roman transliteration.

ENGL4230 - Language and Culture (DSS) - 3 - Credits

Course Overview

Course Prefix
ENGL

Course Number
4230

Department
English

Course Title
Language and Culture (DSS)

General Education Attribute
DSS

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers the use of language as a descriptive tool to understand human culture and how speakers use language to shape their culture as a whole, including their individual place within it, their interpersonal relationships, and transmission to the next generation.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

ENGL4250 - Playwriting - 3 - Credits

Course Overview

Course Prefix
ENGL

Course Number
4250

Department
English

Cross-Listed Courses
THEA4760 - Playwriting

Course Title
Playwriting

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Study of dramatic theory and sample plays, combined with practice in writing short plays. Students must write a minimum of three plays.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- THEA1713 - Playscript Analysis (BHU)

ENGL4260 - U.S. Languages: Diversity and History - 3 - Credits

Course Overview

Course Prefix
ENGL

Course Number
4260

Department
English

Course Title
U.S. Languages: Diversity and History

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Interdisciplinary course on United States linguistic diversity, exploring historical, geographical, and social aspects. This course focuses on language, culture, identity, and their role in social dynamics, discrimination, and prejudice.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Students will have gained a deep understanding of the complex relationship between language, culture, and identity in the context of American English pronunciation and accent variation.
2. They will be able to analyze and describe different English accents, critically evaluate issues related to language discrimination and prejudice, and develop strategies for effective communication in diverse English-speaking environments.

3. Students will also develop a heightened awareness of language attitudes and ideologies, and be able to apply this knowledge to promote inclusive communication practices in their personal and professional lives.

ENGL4300 - Shakespeare - 3 - Credits

Course Overview

Course Prefix
ENGL

Course Number
4300

Department
English

Course Title
Shakespeare

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers selected works of William Shakespeare, with attention to biographical and cultural contexts.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

ENGL4310 - American Writers - 3 - Credits

Course Overview

Course Prefix
ENGL

Course Number
4310

Department
English

Course Title
American Writers

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Selected works of either a single author or a closely related group of authors based in the United States, with attention to biographical and cultural contexts.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

ENGL4320 - British Writers - 3 - Credits

Course Overview

Course Prefix
ENGL

Course Number
4320

Department
English

Course Title
British Writers

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Selected works of either a single author or a closely related group of authors based in Great Britain, with attention to biographical and cultural contexts.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

ENGL4330 - World Writers - 3 - Credits

Course Overview

Course Prefix
ENGL

Course Number
4330

Department
English

Course Title
World Writers

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Selected works of either a single author or a closely related group of authors based outside the United States, with attention to biographical and cultural contexts.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

ENGL4340 - Studies in Fiction - 3 - Credits

Course Overview

Course Prefix
ENGL

Course Number
4340

Department
English

Course Title
Studies in Fiction

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course is an analysis of the genre of prose fiction, emphasizing the nature and evolution of specific forms.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

ENGL4345 - Studies in Nonfiction - 3 - Credits

Course Overview

Course Prefix
ENGL

Course Number
4345

Department
English

Course Title
Studies in Nonfiction

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course is an analysis of the genre of nonfiction prose, emphasizing the nature and evolution of specific forms.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

ENGL4350 - Studies in Poetry - 3 - Credits

Course Overview

Course Prefix
ENGL

Course Number
4350

Department
English

Course Title
Studies in Poetry

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Analysis of the genre of poetry, emphasizing nature and evolution of specific forms.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

ENGL4360 - Studies in Drama - 3 - Credits

Course Overview

Course Prefix
ENGL

Course Number
4360

Department
English

Course Title
Studies in Drama

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course is an analysis of dramatic genres, emphasizing the nature and evolution of specific forms.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

ENGL4365 - Studies in Film - 3 - Credits

Course Overview

Course Prefix
ENGL

Course Number
4365

Department
English

Course Title
Studies in Film

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course is an analysis of cinematic genres, emphasizing the nature and evolution of specific forms.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

ENGL4370 - Native American Literature - 3 - Credits

Course Overview

Course Prefix
ENGL

Course Number
4370

Department
English

Course Title
Native American Literature

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course encompasses a survey of literature by Native American authors.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

ENGL4375 - U.S. Latinx Literature - 3 - Credits

Course Overview

Course Prefix
ENGL

Course Number
4375

Department
English

Course Title
U.S. Latinx Literature

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course encompasses a survey of literature by U.S. Latino and Latina authors.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

ENGL4380 - African American Literature - 3 - Credits

Course Overview

Course Prefix
ENGL

Course Number
4380

Department
English

Course Title
African American Literature

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course encompasses a survey of literature by African American authors.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

ENGL4390 - Contemporary Literature (CI) - 3 - Credits

Course Overview

Course Prefix
ENGL

Course Number
4390

Department
English

Course Title
Contemporary Literature (CI)

General Education Attribute
CI

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Studies in recently published fiction, poetry, drama, and/or nonfiction. Topics vary according to faculty expertise.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

ENGL4420 - Advanced Fiction Writing (CI) - 3 - Credits

Course Overview

Course Prefix
ENGL

Course Number
4420

Department
English

Course Title
Advanced Fiction Writing (CI)

General Education Attribute
CI

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course offers advanced study in the art and skill of writing publishable fiction. It relies on workshop method.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ENGL3420 - Fiction Writing

ENGL4430 - Advanced Poetry Writing (CI) - 3 - Credits

Course Overview

Course Prefix
ENGL

Course Number
4430

Department
English

Course Title
Advanced Poetry Writing (CI)

General Education Attribute
CI

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course is provided for undergraduate students desiring to write publishable poetry. It relies on workshop method.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Completion Requirement

Required

Complete ALL of the following Courses:

- ENGL3430 - Poetry Writing

ENGL4440 - Advanced Nonfiction Writing (CI) - 3 - Credits

Course Overview

Course Prefix
ENGL

Course Number
4440

Department
English

Course Title
Advanced Nonfiction Writing (CI)

General Education Attribute
CI

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course offers advanced study in the art and skill of writing publishable literary or creative nonfiction.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

ENGL4500 - Teaching Writing (CI) - 3 - Credits

Course Overview

Course Prefix
ENGL

Course Number
4500

Department
English

Course Title
Teaching Writing (CI)

General Education Attribute
CI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Prepares students to teach writing at secondary level. Teaches appropriate pedagogical techniques for teaching writing for a variety of purposes and contexts to diverse students. Techniques taught include designing effective writing assignments, responding constructively to student writing, assessing student writing, and incorporating technology into writing courses.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

ENGL4510 - Teaching Literature (CI) - 3 - Credits

Course Overview

Course Prefix
ENGL

Course Number
4510

Department
English

Course Title
Teaching Literature (CI)

General Education Attribute
CI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Prepares students to teach literature through a variety of texts. Explores multiple pedagogical strategies for teaching diverse literary traditions to students of various backgrounds and developmental levels.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

ENGL4520 - Teaching Literacy in English Language Arts Classrooms - 2 - Credits

Course Overview

Course Prefix
ENGL

Course Number
4520

Department
English

Course Title
Teaching Literacy in English Language Arts Classrooms

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Explores evolving conceptions of literacy in American education, examining theories, practices, and policies that shape English Language Arts instruction. Students analyze classroom methods, design adaptable teaching strategies, and reflect on how literacy instruction fosters learning and engagement.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

No Requirements

ENGL4530 - English Clinical Experience - 1 - Credits

Course Overview

Course Prefix
ENGL

Course Number
4530

Department
English

Course Title
English Clinical Experience

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course includes a 45-hour clinical practicum in middle or high schools, arranged by instructors and the Office of Field Experience in the School of Teacher Education and Leadership (TEAL)

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

No Requirements

ENGL4540 - Teaching Creative Writing - 3 - Credits

Course Overview

Course Prefix
ENGL

Course Number
4540

Department
English

Course Title
Teaching Creative Writing

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course will familiarize students with many aspects of designing and implementing multi-genre creative writing workshops at the middle school, high school, and community-education levels. To that end, the course will address two topics: subject matter (principles of effective fiction, poetry, creative nonfiction, and dramatic writing) and pedagogy (principles of good teaching).

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

ENGL4610 - Western American Literature (CI/DHA) - 3 - Credits

Course Overview

Course Prefix
ENGL

Course Number
4610

Department
English

Course Title
Western American Literature (CI/DHA)

General Education Attribute
CI, DHA

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Examines major themes and important writers (both "popular" and "literary") in western regional writing. Investigation of significance of environment, history, gender, and ethnicity in a variety of genres. Appropriate for American Studies majors and minors.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

ENGL4630 - Environmental Justice Literature - 3 - Credits

Course Overview

Course Prefix
ENGL

Course Number
4630

Department
English

Course Title
Environmental Justice Literature

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course examines environmental literature at intersections of race, gender, and class. Students read diverse genres that examine complex interactions between humanity and the environment, illuminating how climate change, health, toxicity, food insecurity, and resource extraction inequitably impact different communities.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

ENGL4640 - Studies in the American West (CI) - 3 - Credits

Course Overview

Course Prefix
ENGL

Course Number
4640

Department
English

Course Title
Studies in the American West (CI)

General Education Attribute
CI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This interdisciplinary course in American Studies explores the region of the West through the analysis of literary texts, historical sources, and socio-cultural materials.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

ENGL4650 - Utah's Public Lands: Past, Present, Future (DHA/HASS) - 3 - Credits

Course Overview

Course Prefix
ENGL

Course Number
4650

Department
English

Course Title
Utah's Public Lands: Past, Present, Future (DHA/HASS)

General Education Attribute
DHA, HASS

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course teaches students about the history and debates surrounding the creation, management, and activism involving Utah's public lands.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes
Course Learning Outcomes:

1. Students will develop a clearer understanding of the role of public lands in a diverse cultural landscape and the issues that give rise to conflict and debate regarding the use and management of public lands.

2. Students will learn to analyze and critically evaluate ideas, arguments, and points of view concerning the designation and management of public lands.

3. Students will learn about and gain experience with using interdisciplinary methods to study public lands, drawing on approaches from the fields of history, literary studies, anthropology, environmental studies and public policy development.

4. Students will learn to summarize and engage with the theses of a wide range of texts.

5. Students will learn to write clearly and argue logically in a range of assignments that draw on a diverse range of disciplinary methods including those associated with history, literary studies, social and cultural anthropology, environmental studies and public policy.

ENGL4700 - Folk Material Culture (DHA) - 3 - Credits

Course Overview

Course Prefix
ENGL

Course Number
4700

Department
English

Cross-Listed Courses
HIST4700 - Folk Material Culture (DHA)

Course Title
Folk Material Culture (DHA)

General Education Attribute
DHA

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Study of folk objects and their connections with culture and history.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

ENGL4750 - Advanced Folklore Workshop: Fife Conference - 3 - Credits

Course Overview

Course Prefix
ENGL

Course Number
4750

Department
English

Cross-Listed Courses
HIST4750 - Advanced Folklore Workshop: Fife Conference

Course Title
Advanced Folklore Workshop: Fife Conference

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Focuses on a theme or topic in folklore, and offers lectures from nationally prominent scholars in the area. Taught during one week, every day and all day.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

ENGL4900 - Internship/Cooperative Work Experience - 1 - 15 Credits

Course Overview

Course Prefix
ENGL

Course Number
4900

Department
English

Course Title
Internship/Cooperative Work Experience

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
Offers credit for professional experience obtained outside the classroom, prior to graduation. Requires statement of professional goals and summary report following the experience.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
15

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
15

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
15

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
15

Lecture Hours Operator:
TO

Special Approval
Permission of department

No Requirements

ENGL4910 - Tutoring Practicum - 1 - Credits

Course Overview

Course Prefix
ENGL

Course Number
4910

Department
English

Course Title
Tutoring Practicum

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Inservice training class for first-semester Writing Center staff members.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

No Requirements

ENGL5210 - Topics in Linguistics - 3 - Credits

Course Overview

Course Prefix
ENGL

Course Number
5210

Department
English

Course Title
Topics in Linguistics

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Provides students with opportunity to study topics which are not regularly taught, but which are designed to enrich understanding of linguistics. Typical topics include Old English, roots of English in Germanic, discourse analysis, and English as a world language.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

ENGL5300 - Special Topics in Literature (CI) - 3 - Credits

Course Overview

Course Prefix
ENGL

Course Number
5300

Department
English

Course Title
Special Topics in Literature (CI)

General Education Attribute
CI

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Interdisciplinary questions and advanced methods in literary studies. Topics vary.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ENGL2600 - Literary Analysis

Required

At least one literature course at the 3000 or 4000 level

ENGL5320 - Gender and Sexuality in Literature (CI) - 3 - Credits

Course Overview

Course Prefix
ENGL

Course Number
5320

Department
English

Course Title
Gender and Sexuality in Literature (CI)

General Education Attribute
CI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course explores literary and cultural representations of gender identities and sexual orientations. Topics vary according to faculty expertise.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Reqiored

Complete ALL of the following Courses:

- ENGL2600 - Literary Analysis

ENGL5330 - Race and Ethnicity in Literature (CI) - 3 - Credits

Course Overview

Course Prefix
ENGL

Course Number
5330

Department
English

Course Title
Race and Ethnicity in Literature (CI)

General Education Attribute
CI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course explores literary and cultural representations of racial and ethnic identities. Topics vary according to faculty expertise.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ENGL2600 - Literary Analysis

ENGL5340 - Multimedia Literature (CI) - 3 - Credits

Course Overview

Course Prefix
ENGL

Course Number
5340

Department
English

Course Title
Multimedia Literature (CI)

General Education Attribute
CI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course explores new and emerging forms of literary and cultural representation. Topics vary according to faculty expertise.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ENGL2600 - Literary Analysis

ENGL5450 - Special Topics in Creative Writing - 3 - Credits

Course Overview

Course Prefix
ENGL

Course Number
5450

Department
English

Course Title
Special Topics in Creative Writing

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course consists of the advanced study of creative writing technique and craft. Topics vary.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete at least 1 of the following courses:

- ENGL4420 - Advanced Fiction Writing (CI)
- ENGL4430 - Advanced Poetry Writing (CI)
- ENGL4440 - Advanced Nonfiction Writing (CI)

(course may be taken concurrently)

ENGL5690 - American Studies Capstone Seminar (CI) - 3 - Credits

Course Overview

Course Prefix
ENGL

Course Number
5690

Department
English

Cross-Listed Courses
HIST5690 - American Studies Capstone Seminar (CI)

Course Title
American Studies Capstone Seminar (CI)

General Education Attribute
CI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Required for students majoring in American Studies. Enables students to synthesize American Studies theory and methods with interdisciplinary cognate courses. Supports senior thesis design and writing, allowing topics to reflect individual programs of study.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

ENGL5700 - Folk Narrative - 3 - Credits

Course Overview

Course Prefix
ENGL

Course Number
5700

Department
English

Cross-Listed Courses
ANTH5700 - Folk Narrative, HIST5700 - Folk Narrative

Course Title
Folk Narrative

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Forms and functions of folk narrative genres: myth, legend, folktale, memorate, and ballad. P.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Fulfillment of the following requirements:

- Communications Literacy (CL2)
- Completion of a 3000-level course with a prefix of ANTH, ENGL, or HIST

ENGL5900 - Senior Honors Seminar - 1 - 3 Credits

Course Overview

Course Prefix
ENGL

Course Number
5900

Department
English

Course Title
Senior Honors Seminar

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Capstone course for students enrolled in English Honors Program.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

Registration Restrictions
Enrollment in English Honors Program

No Requirements

ENGL5910 - Senior Honors Thesis (CI) - 1 - 6 Credits

Course Overview

Course Prefix
ENGL

Course Number
5910

Department
English

Course Title
Senior Honors Thesis (CI)

General Education Attribute
CI

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Students work in conjunction with English faculty member to write a thesis.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
6

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
6

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
6

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
6

Lecture Hours Operator:
TO

Registration Restrictions
Enrollment in English Honors Program

ENGL5920 - Directed Study - 1 - 3 Credits

Course Overview

Course Prefix
ENGL

Course Number
5920

Department
English

Course Title
Directed Study

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Provides students with opportunity to work individually with faculty member. Contract for work to be completed must be signed by faculty member and student, then filed with English Department.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

ENGL6320 - Literary Theory - 3 - Credits

Course Overview

Course Prefix
ENGL

Course Number
6320

Department
English

Course Title
Literary Theory

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Introduces students to advanced literary theories and provides training in sophisticated critical methods.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

ENGL6330 - Topics in Literary Study - 3 - Credits

Course Overview

Course Prefix
ENGL

Course Number
6330

Department
English

Course Title
Topics in Literary Study

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Allows in-depth study of specific literary topics and theoretical questions.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

ENGL6340 - British Literature and Culture - 3 - Credits

Course Overview

Course Prefix
ENGL

Course Number
6340

Department
English

Course Title
British Literature and Culture

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Explores British literature and provides training in literary and cultural criticism. Promotes research and writing skills.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

ENGL6350 - American Literature and Culture - 3 - Credits

Course Overview

Course Prefix
ENGL

Course Number
6350

Department
English

Course Title
American Literature and Culture

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Explores American literature and provides training in literary and cultural criticism. Promotes research and writing skills.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

ENGL6360 - World Literature and Culture - 3 - Credits

Course Overview

Course Prefix
ENGL

Course Number
6360

Department
English

Course Title
World Literature and Culture

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Explores world literature and provides training in literary and cultural criticism. Promotes research and writing skills.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

ENGL6600 - Introduction to American Studies - 3 - Credits

Course Overview

Course Prefix
ENGL

Course Number
6600

Department
English

Cross-Listed Courses
HIST6600 -
Introduction to American Studies

Course Title
Introduction to American Studies

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides an introduction to the field of American Studies and interdisciplinary scholarship.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

ENGL6610 - Seminar on the American West - 3 - 4 Credits

Course Overview

Course Prefix
ENGL

Course Number
6610

Department
English

Cross-Listed Courses
HIST6610 - Seminar on the American West

Course Title
Seminar on the American West

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Readings and research on topics in the American West. Interdisciplinary focus suitable for graduate students in History and American Studies.

Credit Hours

Credit Hours Min:
3

Credit Hours Max:
4

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
3

Contact Hours Max:
4

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
3

Billing Hours Max:
4

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
3

Lecture Hours Max:
4

Lecture Hours Operator:
TO

No Requirements

ENGL6620 - Seminar in Native American Studies - 3 - 4 Credits

Course Overview

Course Prefix
ENGL

Course Number
6620

Department
English

Cross-Listed Courses
HIST6620 - Seminar in Native American Studies

Course Title
Seminar in Native American Studies

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Readings and research on topics in Native American history and culture. Interdisciplinary focus suitable for graduate students in History and American Studies.

Credit Hours

Credit Hours Min:
3

Credit Hours Max:
4

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
3

Contact Hours Max:
4

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
3

Billing Hours Max:
4

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
3

Lecture Hours Max:
4

Lecture Hours Operator:
TO

No Requirements

ENGL6630 - Studies in Film and Popular Culture - 3 - Credits

Course Overview

Course Prefix
ENGL

Course Number
6630

Department
English

Cross-Listed Courses
HIST6630 - Studies in Film and Popular Culture

Course Title
Studies in Film and Popular Culture

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Offered annually on a rotating basis by professors in folklore and English (Cultural Studies, Literature, British and Commonwealth). Topics and theoretical approaches vary, but the primary focus is on feature films.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

ENGL6810 - Introduction to Composition Studies - 3 - Credits

Course Overview

Course Prefix
ENGL

Course Number
6810

Department
English

Course Title
Introduction to Composition Studies

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Introduces students to scholarship in the field of composition studies. Students become acquainted with scholars, forums, themes, and methods of the field.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

ENGL6815 - Writing Studies Research Methods - 3 - Credits

Course Overview

Course Prefix
ENGL

Course Number
6815

Department
English

Course Title
Writing Studies Research Methods

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces methods and processes of conducting research in writing studies. Students learn to design, conduct, and evaluate research projects; advocate for research-based pedagogies and policy; and share their work through scholarly and public-facing genres.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Course Learning Objectives

Course Learning Outcomes

1. Design and implement research projects that investigate questions in writing studies using appropriate approaches.
2. Analyze and evaluate empirical data to draw meaningful conclusions about writing, teaching, and learning practices.
3. Apply research findings to advocate for evidence-based pedagogies and policies within educational and professional contexts.
4. Communicate research effectively through scholarly, professional, and public-facing genres that engage diverse audiences.

ENGL6820 - Practicum in Teaching English - 3 - Credits

Course Overview

Course Prefix
ENGL

Course Number
6820

Department
English

Course Title
Practicum in Teaching English

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Introduction to teaching writing, designed specifically for graduate instructors teaching in the English Department writing program. Focuses on theory and practice of teaching writing, specifically ENGL 1010, but also prepares graduate instructors for further teaching responsibilities.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

ENGL6840 - Multilingual Writing and Pedagogies - 3 - Credits

Course Overview

Course Prefix
ENGL

Course Number
6840

Department
English

Course Title
Multilingual Writing and Pedagogies

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course examines research-based pedagogies in second language (L2) and multilingual writing. Students explore major theories, key debates, and effective classroom practices in the field. This course prepares students to work with multilingual writers and/or teach in multilingual contexts.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Course Learning Objectives

Course Learning Outcomes

1. Critically analyze key theories and research in second language and multilingual writing, with attention to historical developments, major debates, and current trends in the field.
2. Evaluate instructional approaches to teaching writing to second language/multilingual writers, considering sociocultural, linguistic, and institutional factors.
3. Design and adapt writing assignments, feedback practices, and assessment tools that are responsive to the needs and strengths of diverse multilingual learners.
4. Apply principles of multilingual writing research to examine issues such as language ideologies, identity, voice, and the role of digital and multimodal tools in writing instruction.
5. Reflect on their own positionality and experiences as writers, teachers, and/or researchers in relation to the multilingual writing contexts they study or teach in.

ENGL6880 - Topics in Creative Writing - 3 - Credits

Course Overview

Course Prefix
ENGL

Course Number
6880

Department
English

Course Title
Topics in Creative Writing

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Examines field of creative writing as an art, concentrating on issues of craft and creation. May study the fundamentals of a particular genre, the history of a genre, theories of form, how writers work, how they approach their genre, etc., all with an eye toward craft and examined from a writer's perspective.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

ENGL6882 - Fiction Writing Workshop - 3 - Credits

Course Overview

Course Prefix
ENGL

Course Number
6882

Department
English

Course Title
Fiction Writing Workshop

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Students write fiction and participate in writing workshops where their work is critiqued by the class. The course also involves study of the art and craft of fiction, its history, form, and content, especially that of contemporary fiction examined from a writer's perspective.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Admission to the English Master of Arts or Master of Science program.

No Requirements

ENGL6883 - Poetry Writing Workshop - 3 - Credits

Course Overview

Course Prefix
ENGL

Course Number
6883

Department
English

Course Title
Poetry Writing Workshop

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Students write poetry and participate in writing workshops where their work is critiqued by the class. The course also involves study of the art and craft of poetry, its history, form, and content, especially that of contemporary poetry examined from a writer's perspective.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Admission to the English Master of Arts or Master of Science program.

No Requirements

ENGL6884 - Creative Nonfiction Writing Workshop - 3 - Credits

Course Overview

Course Prefix
ENGL

Course Number
6884

Department
English

Course Title
Creative Nonfiction Writing Workshop

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Students write creative nonfiction and participate in writing workshops where their work is critiqued by the class. The course also involves study of the art and craft of creative nonfiction, its history, form, and content, especially that of contemporary creative nonfiction examined from a writer's perspective.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Admission to the English Master of Arts or Master of Science program.

No Requirements

ENGL6890 - Studies in Writing and Rhetoric - 3 - Credits

Course Overview

Course Prefix
ENGL

Course Number
6890

Department
English

Dual-Listed Courses
ENGL7890 - Studies in Writing and Rhetoric

Course Title
Studies in Writing and Rhetoric

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course allows in-depth study of specific rhetorical topics and theoretical questions.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

ENGL6895 - Critical Rhetorics and Pedagogies - 3 - Credits

Course Overview

Course Prefix
ENGL

Course Number
6895

Department
English

Course Title
Critical Rhetorics and Pedagogies

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course examines histories, theories, and writing-based applications of critical rhetorics and pedagogies within writing studies. Students explore social contexts that shape critical methodologies, analyze how critical pedagogies can enhance learning for all students, and connect theory to praxis.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Course Learning Objectives

Course Learning Outcomes

1. Understand and analyze key histories, theories, and rhetorics within the discipline of Writing Studies.
2. Investigate how critical rhetorics and pedagogies can enhance student learning.
3. Apply key concepts from critical rhetorical theories and research to the teaching of writing.

ENGL6900 - Graduate Internship - 1 - 15 Credits

Course Overview

Course Prefix
ENGL

Course Number
6900

Department
English

Course Title
Graduate Internship

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Format and credit limit vary for different programs in the department. See program advisor for details and approval to enroll in this course.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
15

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
15

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
15

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
15

Lecture Hours Operator:
TO

No Requirements

ENGL6920 - Directed Study - 1 - 6 Credits

Course Overview

Course Prefix
ENGL

Course Number
6920

Department
English

Course Title
Directed Study

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course offers credit for special assignments, reading, and seminars beyond regularly scheduled courses.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
6

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
6

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
6

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
6

Lecture Hours Operator:
TO

No Requirements

ENGL6970 - Thesis - 1 - 6 Credits

Course Overview

Course Prefix
ENGL

Course Number
6970

Department
English

Course Title
Thesis

Grade Mode
Temporary Pass/Fail

Repeat Status
RP

Course Description
This course is designed for students preparing a master's degree thesis.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
6

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
6

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
6

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
6

Lecture Hours Operator:
TO

No Requirements

ENGL6990 - Continuing Graduate Registration - 1 - 6 Credits

Course Overview

Course Prefix
ENGL

Course Number
6990

Department
English

Course Title
Continuing Graduate Registration

Grade Mode
Temporary Pass/Fail

Repeat Status
RP

Course Description
This course provides graduate students with continued support and advisement. It is usually taken following completion of all coursework required for the degree.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
6

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
6

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
6

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
6

Lecture Hours Operator:
TO

No Requirements

ENGL7890 - Studies in Writing and Rhetoric - 3 - Credits

Course Overview

Course Prefix
ENGL

Course Number
7890

Department
English

Cross-Listed Courses
ENGL6890 - Studies in Writing and Rhetoric

Course Title
Studies in Writing and Rhetoric

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Allows in-depth study of specific rhetorical topics and theoretical questions.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

ENGL7990 - Continuing Graduate Advisement - 1 - 9 Credits

Course Overview

Course Prefix
ENGL

Course Number
7990

Department
English

Course Title
Continuing Graduate Advisement

Grade Mode
Temporary Pass/Fail

Repeat Status
RP

Course Description
This course provides graduate students with continued support and advisement. It is usually taken following completion of all coursework required for the degree.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
9

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
9

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
9

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
9

Lecture Hours Operator:
TO

No Requirements

ENGR1000 - Introduction to Engineering Design - 2 - Credits

Course Overview

Course Prefix
ENGR

Course Number
1000

Department
College of Engineering

Course Title
Introduction to Engineering Design

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Introduction to engineering design, problem solving, and computer application skills. Orients students to college programs, academic advising, student services, professional societies, ethics, and engineering careers. A background in trigonometry is strongly recommended.

Credit Hours

Credit Hours Min:
2

Contact Hours

Contact Hours Min:
2

Billing Hours

Billing Hours Min:
2

Lecture Hours

Lecture Hours Min:
2

No Requirements

ENGR1005 - Introduction to Engineering Laboratory - 1 - Credits

Course Overview

Course Prefix
ENGR

Course Number
1005

Department
College of Engineering

Course Title
Introduction to Engineering Laboratory

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
For students concurrently enrolled in ENGR 1000. Laboratory builds skills in using the HP48G/GX calculator to solve engineering problems; the use of word processors for report writing; spreadsheets to solve engineering problems; MathCAD for engineering problem solving; an introduction to Pro Engineer for engineering design; an introduction to Access for data base management; and power point for engineering presentations. Mainly hands-on, team learning is emphasized as well as team writing and presentation skills. Students should gain an appreciation for the skills needed to solve engineering problems and prepare engineering communications.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Simple Requisites

Corequisite

Type
Corequisite

Required

Enroll in the following Courses:

- ENGR1000 - Introduction to Engineering Design

ENGR1010 - Engineering Exploration - 3 - Credits

Course Overview

Course Prefix
ENGR

Course Number
1010

Department
College of Engineering

Course Title
Engineering Exploration

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces Engineering Foundations first-year students to the engineering majors at USU, foundational engineering principles, the engineering design process, design thinking, and systems engineering. Students collaborate on a multidisciplinary team project addressing an authentic engineering challenge.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Other Enrollment Recommendations

It is recommended that students are enrolled in or have passed college algebra and understand the trigonometric functions.

ENGR1400 - Computer Programming for Engineers - 4 - Credits

Course Overview

Course Prefix
ENGR

Course Number
1400

Department
College of Engineering

Course Title
Computer Programming for Engineers

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces fundamental computer programming and computational problem-solving for engineers using Python, MATLAB, Excel, and Arduino. Students explore programming logic, data analysis, and visualization through engineering applications, including an introduction to neural networks and machine learning.

Credit Hours

Credit Hours Min:
4

Contact Hours

Contact Hours Min:
4

Billing Hours

Billing Hours Min:
4

Lecture Hours

Lecture Hours Min:
4

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- MATH1050 - College Algebra (QL)

May be taken concurrently

Course Learning Objectives

Course Learning Outcomes

1. Describe how computers operate and differentiate between compiled and interpreted programming languages.
2. Develop and debug Python programs that demonstrate the use of variables, control structures, functions, and data structures.
3. Apply Python libraries (e.g., NumPy, Matplotlib, SymPy) to analyze, compute, and visualize engineering data.
4. Construct MATLAB scripts to perform mathematical operations, analyze data, and generate plots for engineering applications.
5. Utilize Excel to organize, calculate, graph, and summarize data using formulas and pivot tables.
6. Implement Arduino-based experiments to interface sensors and collect data from real-world systems.
7. Test and document programs using integrated development environments (IDEs) and evaluate program functionality through debugging and code organization.
8. Explain the fundamental structure and purpose of neural networks and create a simple example using PyTorch.
9. Integrate multiple computational tools to model, analyze, and communicate solutions to introductory engineering problems.

ENGR1500 - Research Experience for Undergraduate Students - 1 - Credits

Course Overview

Course Prefix
ENGR

Course Number
1500

Department
College of Engineering

Course Title
Research Experience for Undergraduate Students

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Students work as undergraduate research assistants under a faculty mentor. Through the course, students will learn and apply data collection, analysis, synthesis, and presentation skills specific to the research project.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

No Requirements

ENGR1510 - Engineering Success Strategies and Insights - 1 - Credits

Course Overview

Course Prefix
ENGR

Course Number
1510

Department
College of Engineering

Course Title
Engineering Success Strategies and Insights

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This introductory engineering course aims to help prospective and early undergraduate students to develop professional insights (e.g., professional functions, ethics) as well as strategies (e.g., time management) to succeed in their degree. The course culminates in an end-of-semester project.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Registration Restrictions
Admission to the College of Engineering

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Earn a minimum grade of C- in the following:

- MATH1050 - College Algebra (QL)
- MATH1060 - Trigonometry

ENGR1940 - Women in Engineering Seminar - 1 - Credits

Course Overview

Course Prefix
ENGR

Course Number
1940

Department
College of Engineering

Course Title
Women in Engineering Seminar

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Designed for incoming female freshman engineering students. Speakers selected from practice share their knowledge and experience about the many career options available in engineering. Discussions center on ways in which women balance their professional and personal lives. Provides information and strategies for the academic and interpersonal skills needed for women to succeed in engineering. (F)

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

No Requirements

ENGR2010 - Engineering Mechanics Statics - 3 - Credits

Course Overview

Course Prefix
ENGR

Course Number
2010

Department
College of Engineering

Course Title
Engineering Mechanics Statics

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers force and position vectors; equilibrium of particles; rigid bodies; equivalent system of forces; equilibrium; free body diagrams; static analysis of trusses, frames, and machines; centroids and centers of gravity; friction; and moments of inertia.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Admission to the Pre-Professional or Professional Engineering Program

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- MATH1210 - Calculus I (QL)
- MATH1220 - Calculus II (QL)
- PHYS2210 - Physics for Scientists and Engineers I (QI/BPS)

ENGR2030 - Engineering Mechanics Dynamics - 3 - Credits

Course Overview

Course Prefix
ENGR

Course Number
2030

Department
College of Engineering

Course Title
Engineering Mechanics Dynamics

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers equations of motion, kinetics of particles, kinetics of rigid bodies, work and energy, impulse and momentum, three-dimensional kinematics, and vibrations.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Admission to the Pre-Professional or Professional Engineering Program

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ENGR2010 - Engineering Mechanics Statics
- MATH1210 - Calculus I (QL)
- MATH1220 - Calculus II (QL)

ENGR2140 - Mechanics of Materials - 3 - Credits

Course Overview

Course Prefix
ENGR

Course Number
2140

Department
College of Engineering

Course Title
Mechanics of Materials

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Stress, strain, and deflection due to axial loads; moment and torsion; shear and moment diagrams; and equations of equilibrium and compatibility.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Admission to the Pre-Professional or Professional Engineering Program

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ENGR2010 - Engineering Mechanics Statics

ENGR2210 - Fundamental Electronics for Engineers - 3 - Credits

Course Overview

Course Prefix
ENGR

Course Number
2210

Department
College of Engineering

Course Title
Fundamental Electronics for Engineers

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers the study and application of DC and AC concepts, circuit fundamentals, circuit design, construction and analysis of AC/DC circuits, the use of measuring instruments, power supplies, and signal generators. It is not available for majors in ECE.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Admission to the Pre-Professional or Professional Engineering Program

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- MATH1210 - Calculus I (QL)
- MATH1220 - Calculus II (QL)

ENGR2450 - Numerical Methods for Engineers - 3 - Credits

Course Overview

Course Prefix
ENGR

Course Number
2450

Department
College of Engineering

Course Title
Numerical Methods for Engineers

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Numerical analyses applied to engineering problems, including simultaneous solutions of linear and nonlinear equations, optimization, curve fitting, numerical differentiation and integration, and numerical solutions of differential equations.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- MATH1220 - Calculus II (QL)
- MATH2250 - Linear Algebra and Differential Equations (QI) **OR** MATH2280 - Ordinary Differential Equations (QI)

and a structured programming experience in MATLAB, C, FORTRAN, EXCEL-VBA, or similar language

MATH2250 LINEAR ALG/DIFF EQUATIONS (QI), MATH2280 ORD DIFFRNTIAL EQUATIONS (QI) may be taken concurrently

ENGR2455 - Numerical Methods for Engineers Laboratory - 1 - Credits

Course Overview

Course Prefix
ENGR

Course Number
2455

Department
College of Engineering

Course Title
Numerical Methods for Engineers Laboratory

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Lab course covering more computer software and, Math, such as Linear Programming, Fourier Series, Eigenvalues and Non-Linear Optimization.

Credit Hours

Credit Hours Min:
1

Contact Hours

Contact Hours Min:
1

Billing Hours

Billing Hours Min:
1

Lecture Hours

Lecture Hours Min:
1

Simple Requisites

Corequisite

Type
Corequisite

Required

Enroll in the following Courses:

- ENGR2450 - Numerical Methods for Engineers

ENGR2930 - Special Problems - 1 - 18 Credits

Course Overview

Course Prefix
ENGR

Course Number
2930

Department
College of Engineering

Course Title
Special Problems

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Independent or group student study of engineering problems not covered in regular course offerings.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
18

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
18

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
18

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
18

Lecture Hours Operator:
TO

No Requirements

ENGR2977 - Internship Education Experiences - 1 - 3 Credits

Course Overview

Course Prefix
ENGR

Course Number
2977

Department
College of Engineering

Course Title
Internship Education Experiences

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course provides an on-the-job experience for students majoring in engineering technology. Positions with manufacturing, design, and technology may be available. Students are expected to meet with the instructor or internship coordinator and employer at the beginning and periodically during the course to determine and evaluate objectives, hours to be worked, and credit.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

Special Approval

Instructor permission

No Requirements

ENGR2999 - Workshop - 1 - 3 Credits

Course Overview

Course Prefix
ENGR

Course Number
2999

Department
College of Engineering

Course Title
Workshop

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Designed to meet the changing needs of students in Engineering.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

No Requirements

ENGR3020 - Intersecting Systems: How Failures Shape Tech Disasters - 3 - Credits

Course Overview

Course Prefix
ENGR

Course Number
3020

Department
College of Engineering

Course Title
Intersecting Systems: How Failures Shape Tech Disasters

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This interdisciplinary course examines the Space Shuttle Challenger disaster through lenses of technology, ethics, sociology, psychology, politics, history, and policy. Students analyze communication as a root cause of technological failures and understand the complex human relationship with technology, risk, and responsibility.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete at least 1 course in the following course sets:

- Communications Literacy (CL1) Course

Course Learning Objectives

Course Learning Outcomes
Students will develop analytical, interpretive, and written/oral communication skills by:

1. Comparing technological advancements and failures across historical periods.
2. Using critical thinking skills to construct written and analytical arguments on the complex intersection of technology, ethics, and human behavior.
3. Examining questions and issues from cultural perspectives by analyzing in human interaction with complex systems.
4. Evaluating interpretations and arguments regarding the human relationship with technology and drawing conclusions from students' own experience and relationship.
5. Recognizing that technological failures are shaped by human decisions, values, and interpretations.
6. Understanding societal responsibility in supporting technologies that strengthen social connections, support human interaction, and build community.
7. Articulating positions on the societal balance of technological innovation and sustainability challenges.

ENGR3080 - Creativity and Communication in Design (CI) - 3 - Credits

Course Overview

Course Prefix
ENGR

Course Number
3080

Department
College of Engineering

Course Title
Creativity and Communication in Design (CI)

General Education Attribute
CI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Engineers design and implement solutions that shape the human experience and enable communities to function and thrive. This course is based on creatively designing and communicating a technological innovation that supports societal well-being and addresses 21st century engineering challenges.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Admission to a Professional Program in the College of Engineering

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ENGL2010 - Research and Argument Across Perspectives (CL2) **OR** ENGL2020 - Professional Communication (CL2)

ENGR5600 - Entrepreneurial Mindset for Engineers: An Introduction - 3 - Credits

Course Overview

Course Prefix
ENGR

Course Number
5600

Department
College of Engineering

Course Title
Entrepreneurial Mindset for Engineers: An Introduction

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This is a theory, practical applications, and discussion course that introduces concepts of entrepreneurship to engineering students interested in pursuing careers in innovation, leadership, management, and startup ventures.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Admission to the Professional Engineering program

Course Learning Objectives

Course Learning Outcomes
The goal of this course is to engage engineering students and provide an overview of concepts, tasks, and excitement of pursuing careers in innovation and/or startup ventures. Topics covered will include understanding and pursuing innovation startup culture, and commercialization challenges such as seeking capitol, business practices, and legal, intellectual, and financial issues. The course will be mostly taught through real world engineering problem identification and solution strategies. This course will also connect the customer's need for products or services with engineering problem solving. The expected outcome of this course will be to prepare tomorrow's graduates to pursue their own entrepreneurial interests or be involved in other similar opportunities.

ENGR5930 - Special Problems - 1 - 3 Credits

Course Overview

Course Prefix
ENGR

Course Number
5930

Department
College of Engineering

Course Title
Special Problems

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
The formulation and solution of practical or theoretical problems are addressed in a specified topic within the general field of engineering as determined by the faculty.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
OR

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
OR

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
OR

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
OR

Registration Restrictions
Admission to a Professional program in the College of Engineering

Special Approval
Department head permission

ENGR5970 - Introduction to Engineering Research - 3 - Credits

Course Overview

Course Prefix
ENGR

Course Number
5970

Department
College of Engineering

Course Title
Introduction to Engineering Research

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students gain an appreciation for the scholarly outputs of research, including: scholarly literature review, academic papers, grant proposals, technical presentations, and poster sessions. Students also experience the peer-review processes associated with some of these documents.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Other Enrollment Recommendations
This course is intended for students who (1) already have a research advisor and are already engaged in research, and (2) have enough time remaining until they graduate that they can continue to work on their manuscripts beyond the scope of the semester. The instructor is not responsible for matching students with new research topics.

Course Learning Objectives

Course Learning Outcomes

This course is intended for students who (1) already have a research advisor and are already engaged in research, and (2) have enough time remaining until they graduate that they can continue to work on their manuscripts beyond the scope of the semester. Through the course, students will learn and apply data collection, analysis, synthesis, and presentation skills specific to the research project. Students will gain an appreciation for the scholarly outputs of research, including: scholarly literature review, academic papers, grant proposals, technical presentations, and poster sessions. Students will also experience the peer-review processes associated with some of these documents.

ENVS1350 - Introduction to Environmental Science (BLS) - 3 - Credits

Course Overview

Course Prefix
ENVS

Course Number
1350

Department
Environment & Society

Course Title
Introduction to Environmental Science (BLS)

General Education Attribute
BLS

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course emphasizes life sciences in addressing 21st century environmental challenges affecting human and ecosystem health. Students examine problems and solutions related to air, water, and food quality, population growth, climate change, and health effects at molecular to ecosystem levels.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes
1. Students will be introduced to a variety of deliverables seen in the UAS industry.
2. Students will develop a job and skills portfolio based in UAS.
3. Students will demonstrate proficiency in a deliverable-based UAS project.
4. Students will demonstration proficiency in professionalism and other soft skills through communication with and a presentation for clients.

ENVS2000 - Natural Resource Professional Orientation - 1 - Credits

Course Overview

Course Prefix
ENVS

Course Number
2000

Department
Environment & Society

Course Title
Natural Resource Professional Orientation

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Through a combination of in-and out-of-classroom activities, students develop an understanding of curriculum requirements and career opportunities associated with the Natural Resources majors. Students will also be introduced to natural resource management issues and research involving multiple disciplines.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Course Learning Objectives

Course Learning Outcomes
1. Articulate an understanding of and appreciation for the various majors and associated potential career paths related to Natural Resources and the Environment at USU.
2. Recognize the broader social context and purpose of work in natural resources and the environment.
3. Communicate how their interests relate to these academic and professional fields and describe their own professional journey to date.
4. Together with their academic advisor, create a plan to lead to graduation, using the requirements of their major and of University Studies, along with any prerequisites and course sequences.
5. Use opportunities outside the classroom, including student organization activities, to further their professional development goals.

6. Build a cohort of colleagues in Natural Resources and the Environment to make their college career more enjoyable and productive.
7. Compose effective federal and traditional resumes.

ENVS2250 - Introductory Internship/Co-op - 1 - 3 Credits

Course Overview

Course Prefix
ENVS

Course Number
2250

Department
Environment & Society

Course Title
Introductory Internship/Co-op

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Introductory-level educational experience in internship/cooperative education position approved by department.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

Special Approval

Department permission

No Requirements

Course Learning Objectives

Course Learning Outcomes

Students will:

1. Clarify career goals and explore workplace roles.
2. Connect academic concepts to workplace applications.
3. Develop professional attributes such as self-confidence, adaptability, and ethical awareness.
4. Strengthen technical and/or transferable skills through workplace practice and application.

ENVS2340 - Environment, Natural Resources, and Society (BSS) - 3 - Credits

Course Overview

Course Prefix
ENVS

Course Number
2340

Department
Environment & Society

Cross-Listed Courses

GEOG2340 - Environment, Natural Resources, and Society (BSS)

Course Title
Environment, Natural Resources, and Society (BSS)

General Education Attribute
BSS

Grade Mode
Standard Letter

Repeat Status
NR

Course Description

This course explores how human societies, environmental systems, and the natural resources within them interact and shape one another across temporal, spatial, and policy contexts. Content uses contemporary environmental issues as case studies to apply foundational frameworks and approaches.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Explain how humans and the environment influence each other in different social and ecological contexts
2. Summarize how historical shifts in environment and natural resource management reflect changing social, political, and ecological priorities.
3. Anticipate how different segments of society might respond to changes in environmental management, policies, or conditions
4. Critically analyze the underlying drivers of key environmental challenges in the U.S., including ongoing actions to address them.

ENVS3010 - Natural Resource and Environmental Policy - 3 - Credits

Course Overview

Course Prefix
ENVS

Course Number
3010

Department
Environment & Society

Course Title
Natural Resource and Environmental Policy

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course enhances the effectiveness of citizens as well as future natural resource and environmental professionals in contributing to solutions to environmental problems. Students learn why environmental policies are made, who makes these policies, and how policy processes function.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. To understand the legal basis of and political process for making environmental and natural resources policy in the United States and the State of Utah.
2. To specify how environmental issues are characterized by scientific uncertainty, market failure, mismatched scales, cognitive biases, and protected interests.
3. To gain fundamental knowledge of federal lands administration, NEPA, Endangered Species Act, Clean Air Act, and Clean Water Act To learn how to track ongoing environmental and natural resources policy developments and debates.

ENVS3300 - Fundamentals of Natural Resource Recreation Management - 3 - Credits

Course Overview

Course Prefix
ENVS

Course Number
3300

Department
Environment & Society

Course Title
Fundamentals of Natural Resource Recreation Management

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Principles of wildland recreation management including: characteristics of recreation use and users, introduction to planning concepts, management of wildland recreation facilities and infrastructure, and integration with other natural resource uses.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Learn the fundamental principles of outdoor recreation management; especially related to social, ecological, and facility design.
2. Learn how to apply the above principles and theories effectively to maintain visitor experience and resource protection priorities common to public lands.
3. Develop specific skills, competencies, and perspectives essential for professional outdoor recreation providers and managers.

ENVS3320 - Archaeology of Climate Change (DSS) - 3 - Credits

Course Overview

Course Prefix
ENVS

Course Number
3320

Department
Environment & Society

Cross-Listed Courses
ANTH3320 -
Archaeology of Climate Change (DSS)

Course Title
Archaeology of Climate Change (DSS)

General Education Attribute
DSS

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course explores human-environment relationships during the past 40,000-plus years, from small-scale societies to ancient civilizations. In this problem-oriented, topical course, emphasis is placed on small group projects, discussion, writing, and oral presentation.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

ENVS3400 - Fundamentals of Tourism - 3 - Credits

Course Overview

Course Prefix
ENVS

Course Number
3400

Department
Environment & Society

Course Title
Fundamentals of Tourism

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Examines foundational concepts of the tourism and hospitality industry, emphasizing the significance, contexts, benefits, costs and other considerations related to tourism in Utah and the Intermountain West. Applies theory and research in planning, marketing, management, entrepreneurship and sustainable tourism development.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

ENVS3500 - Environmental Data Science (QI) - 3 - Credits

Course Overview

Course Prefix
ENVS

Course Number
3500

Department
Environment & Society

Course Title
Environmental Data Science (QI)

General Education Attribute
QI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course is an overview of analytical and sampling methods used for collecting, organizing, and interpreting numeric data to evaluate problems and monitor conditions relating to relationships between environment and society.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- STAT1040 - Introduction to Statistics (QL)
  OR STAT1045 - Introduction to Statistics with Elements with Algebra (QL)
  OR STAT1080 - Foundations of Data Science (QL)

or higher math or statistics course

Course Learning Objectives

Course Learning Outcomes

1. Organize the data in an effective manner.

ENVS3600 - Living with Wildlife (DSC) - 3 - Credits

Course Overview

Course Prefix
ENVS

Course Number
3600

Department
Environment & Society

Course Title
Living with Wildlife (DSC)

General Education Attribute
DSC

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces ecological, behavioral, and evolutionary processes governing wild animals' interactions with their environments and each other. Students explore impacts of human activities on wildlife and of wildlife on people and consider strategies for sustainable coexistence with human society.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Understand and communicate in writing fundamental wildlife ecology concepts, laws, and processes, particularly as related to how humans impact and are impacted by wildlife across different contexts.
2. Use an understanding of science as a process and of the fundamentals mentioned above to investigate wildlife ecology questions and interpret and evaluate information related to wildlife ecology issues.
3. Examine, reflect on, and develop informed perspectives about real-world wildlife issues using a social-ecological systems lens that considers ethical and historical factors, different voices, context-specific conditions, ecological consequences, and social constraints and controversies.
4. Propose viable strategies for coexisting sustainably with wildlife.

ENVS4000 - Human Dimensions of Natural Resource Management (DSS) - 3 - Credits

Course Overview

Course Prefix
ENVS

Course Number
4000

Department
Environment & Society

Course Title
Human Dimensions of Natural Resource Management (DSS)

General Education Attribute
DSS

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course focuses on how people and institutions interact within the natural resource management arena. Topics include complex social-environmental problems, values and behaviors, sustainability leadership and innovation, community diversity, resource dependency, stakeholders, collaboration and conflict, indigenous knowledge, and resource governance.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes
1. Understand the human dimensions of natural resource management through application of social science concepts and methods and indigenous knowledge and contemporary news media.
2. Identify relevant groups, their alignment and misalignment around natural resource experiences and decisions, and best practices for facilitating collaboration and managing conflict.
3. Understand how values, attitudes, behaviors, and community dynamics relate to natural resources.
4. Synthesize information and summarize succinctly through written expression to clearly communicate ideas and their practical application.

5. Interpret basic qualitative and quantitative information related to the human dimensions of natural resources. 6. Understand social science research methods that can support managing natural resources.

ENVS4020 - Foundations of Environmental Thought (DHA/CI) - 3 - Credits

Course Overview

Course Prefix
ENVS

Course Number
4020

Department
Environment & Society

Course Title
Foundations of Environmental Thought (DHA/CI)

General Education Attribute
CI, DHA

Grade Mode
Standard Letter

Repeat Status
NR

Course Description

This course reviews the beginnings of environmental thought from Rousseau to Rachel Carson. It then examines the ways that environmental change happened in the past 8000 years and how these changes can help confront modern environmental change.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ENGL2010 - Research and Argument Across Perspectives (CL2)

Course Learning Objectives

Course Learning Outcomes

By the end of this course, students will be able to:

1. Analyze how historical, cultural, and ecological perspectives shape contemporary environmental challenges

2. Evaluate differing environmental worldviews—including scientific and ethical perspectives—to compare how societies understand and manage natural resources.
3. Apply ecological and systems-based frameworks (e.g., trophic dynamics, Lotka–Volterra models) to interpret human–environment interactions across space and through time.
4. Synthesize historical and scientific evidence to develop explanations for how past societies responded to environmental change and assess implications for modern environmental management.
5. Communicate environmental insights clearly and professionally through written, oral, and visual formats, culminating in a scientific poster that integrates course concepts to address a contemporary issue using lessons from the past.

ENVS4030 - Building Community Environmental Resilience - 3 - Credits

Course Overview

Course Prefix
ENVS

Course Number
4030

Department
Environment & Society

Course Title
Building Community Environmental Resilience

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces students to principles and practices of resilience theories as applied to community and environmental systems. Students work with community partners to identify and design approaches for enhancing community resilience. Some travel within Utah is required. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Other Enrollment Recommendations
Junior or senior standing is recommended

No Requirements

Course Learning Objectives

Course Learning Outcomes
1. Hone the ability to synthesize and articulate general principles related to resilience, community development, wellbeing, collaboration, and community engagement.
2. Develop analytical skills while working with data from community-based surveys and other sources related to Utah communities.
3. Practice community engagement by engaging community leaders or community development specialists in Utah.

ENVS4130 - Natural Resource Recreation Policy and Planning - 3 - Credits

Course Overview

Course Prefix
ENVS

Course Number
4130

Department
Environment & Society

Course Title
Natural Resource Recreation Policy and Planning

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Examines the historical, legal, and political context of outdoor recreation policy on public lands; government agency culture, regulation, and partnering; relationship of outdoor recreation to tourism; and theory and application of principal planning tools for outdoor recreation settings.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

ENVS4200 - Sustainability Metrics - 3 - Credits

Course Overview

Course Prefix
ENVS

Course Number
4200

Department
Environment & Society

Course Title
Sustainability Metrics

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides a broad overview of sustainability planning. Students are prepared to manage sustainability programs for a variety of organization types in the private and public sectors and to build sustainability plans, based on emission inventories and science-based targets.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Utilize universally accepted definitions and frameworks of/for sustainability and climate action to integrate into strategic and operational planning in private and public organizations.
2. Articulate broad sustainability goals and groupings in key areas such as waste, energy, transportation, water, and equity.
3. Follow the requirements and standards for GHG inventories, including the ability to set boundaries, baselines, and targets.
4. Identify the role of internal and external stakeholders in strategic sustainability planning and its integration with measurable goals.
5. Evaluate the effectiveness of sustainability programs.

ENVS4250 - Advanced Internship/Co-op - 1 - 9 Credits

Course Overview

Course Prefix
ENVS

Course Number
4250

Department
Environment & Society

Course Title
Advanced Internship/Co-op

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Directed and evaluated cooperative education or work experience for undergraduates in public and private organizations.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
9

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
9

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
9

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
9

Lecture Hours Operator:
TO

Special Approval

Department permission

No Requirements

Course Learning Objectives

Course Learning Outcomes

Students will:

1. Clarify career goals and explore workplace roles.
2. Connect academic concepts to workplace applications.
3. Develop professional attributes such as self-confidence, adaptability, and ethical awareness.
4. Strengthen technical and/or transferable skills through workplace practice and application.

ENVS4350 - Ecological Economics - 3 - Credits

Course Overview

Course Prefix
ENVS

Course Number
4350

Department
Environment & Society

Dual-Listed Courses
ENVS6350 - Ecological Economics

Course Title
Ecological Economics

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students learn how ecological economics measures progress toward just distribution and efficient allocation of resources at a sustainable and appropriate scale. The course illustrates nature's values to society and explores how economy is embedded within ecosystems subject to biophysical limits. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Other Enrollment Recommendations
An introductory course in economics is recommended but not required.

Course Learning Objectives

Course Learning Outcomes

1. To distinguish how ecological economics builds upon neoclassical economics and also how it critiques its fundamental assumptions to build a separate subdiscipline.
2. To be able to work quantitatively with the core concepts of footprint analysis and environmental benefit estimation.
3. To be able to work qualitatively with core concept of natural capital, ecosystems services, socio-metabolism, energy and material flow analysis, and life -cycle analysis.

ENVS4500 - Advanced Natural Resource Recreation Management (CI) - 3 - Credits

Course Overview

Course Prefix
ENVS

Course Number
4500

Department
Environment & Society

Course Title
Advanced Natural Resource Recreation Management (CI)

General Education Attribute
CI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course explores social, psychological, and geographic influences on human behaviors in wildland recreation settings. Emphasis is placed on critical problems affecting public land recreation management.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ENGL2010 - Research and Argument Across Perspectives (CL2)
- ENVS3300 - Fundamentals of Natural Resource Recreation Management

Course Learning Objectives

Course Learning Outcomes

1. Analyze contemporary trends and emerging issues (e.g., climate change, equity, over-tourism) to determine their implications for recreation resource management.

2. Evaluate existing recreation management plans and strategies used by federal, state, and local agencies, identifying strengths, weaknesses, and areas for improvement.
3. Apply advanced tools and frameworks (e.g., VERP, LAC, budgeting models) to assess visitor use, site capacity, and management trade-offs.
4. Critique facility and site design proposals for sustainability, accessibility, and effectiveness in balancing visitor experience with resource protection.
5. Design innovative recreation management solutions (e.g., facility layouts, visitor use policies, staffing strategies) that address budgetary and environmental constraints.
6. Integrate principles of equity and access into recreation planning and decision-making for diverse user groups.
7. Create a comprehensive management proposal for a recreation site that synthesizes monitoring data, budget analysis, and stakeholder perspectives.
8. Defend management recommendations through evidence-based reasoning and professional communication suitable for agency or stakeholder contexts.

ENVS4550 - Recreation Use Monitoring and Assessment (QI) - 3 - Credits

Course Overview

Course Prefix
ENVS

Course Number
4550

Department
Environment & Society

Course Title
Recreation Use Monitoring and Assessment (QI)

General Education Attribute
QI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description

This course emphasizes quantification of recreation use and impacts, including research approaches, measurement, methods, sampling, and data analysis techniques for managing outdoor recreation settings.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ENVS3300 - Fundamentals of Natural Resource Recreation Management
- STAT1040 - Introduction to Statistics (QL)
  OR STAT1045 - Introduction to Statistics with Elements with Algebra (QL)
  OR STAT1080 - Foundations of Data Science (QL)
  OR STAT2000 - Statistical Methods (QI)

ENVS4700 - Communicating Sustainability (CI) - 3 - Credits

Course Overview

Course Prefix
ENVS

Course Number
4700

Department
Environment & Society

Course Title
Communicating Sustainability (CI)

General Education Attribute
CI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course explores theoretical foundations and methods for using education and communication strategies to encourage adoption of sustainable behaviors. Students work with various stakeholders and the public in formal and non-formal settings to develop programs with goals relating to sustainability.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ENGL2010 - Research and Argument Across Perspectives (CL2)

Course Learning Objectives

Course Learning Outcomes
1. Identify definitions and common misconceptions with sustainability.
2. Communicate about sustainability issues from an integrated systems-level perspective, effectively answering questions such as: “What are the barriers to environmental behavior?” and “How can we motivate people to act environmentally?”
3. Conduct a strengths, weaknesses, opportunities and threats (SWOT) analysis and a barrier-benefit analysis in planning an effective sustainability campaign.
4. Use theoretical frameworks (such as Diffusion of Innovations) and marketing techniques (such as prompts and commitment) to design comprehensive communication campaigns to change behavior.
5. Consult with a community partner to develop and implement an environmental behavior change campaign, applying the objectives listed above.

ENVS4750 - Global Change Ecology - 3 - Credits

Course Overview

Course Prefix
ENVS

Course Number
4750

Department
Environment & Society

Dual-Listed Courses
ENVS6750 - Global Change Ecology

Course Title
Global Change Ecology

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Anthropogenic climate and land use changes are rapidly altering important ecosystem structures and functions. This course examines human needs and decisions contributing to global change and the ecological mechanisms underlying global change impacts on natural and human-dominated systems. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Other Enrollment Recommendations

ENVS1350 INTRO ENVIRONMENTAL SCI (BLS)

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Approach complex questions from a systems thinking perspective.
2. Demonstrate a strong ability to interpret primary scientific literature.
3. Demonstrate a working understanding of the carbon, nitrogen, and phosphorus cycles and connect them to human actions.
4. Discuss mechanisms, impacts, and mitigation of diverse global change drivers.

ENVS4920 - Special Projects in Natural Resource Recreation Management - 3 - Credits

Course Overview

Course Prefix
ENVS

Course Number
4920

Department
Environment & Society

Course Title
Special Projects in Natural Resource Recreation Management

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Students participate in special projects to assist public recreation agencies or nonprofit organizations, while gaining hands-on experience in recreation management, planning, and monitoring. Many experiences entail intensive, short-duration efforts away from campus.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Special Approval

Department permission

No Requirements

Course Learning Objectives

Course Learning Outcomes

By the end of this course, students will be able to:

1. Engage in applied projects that support the needs and goals of public land management agencies or nonprofit organizations, specific to outdoor recreation management.
2. Demonstrate practical skills in outdoor recreation management, including planning, monitoring, and project implementation.
3. Work effectively in field- or office-based settings on- or off-campus.
4. Apply problem-solving and critical-thinking skills to real-world outdoor recreation management challenges.
5. Collaborate professionally with agency staff, community partners, and peers during project-based work.
6. Reflect on experiential learning activities to understand their role in professional development and future career pathways.

ENVS4950 - Special Topics - 1 - 3 Credits

Course Overview

Course Prefix
ENVS

Course Number
4950

Department
Environment & Society

Course Title
Special Topics

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course offers credit for special seminars beyond regularly scheduled courses.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

No Requirements

ENVS4960 - Directed Readings - 1 - 3 Credits

Course Overview

Course Prefix
ENVS

Course Number
4960

Department
Environment & Society

Course Title
Directed Readings

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Individual reading research on selected environmental and societal readings.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

Special Approval

Department permission

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Identify key readings to meet the student's goal(s), mentored by the faculty supervisor.
2. Based on completion of these key readings, demonstrate knowledge of key theories, concepts, and current research findings in the defined area of concentration through either written or oral communication.

ENVS4970 - Undergraduate Research - 1 - 3 Credits

Course Overview

Course Prefix
ENVS

Course Number
4970

Department
Environment & Society

Course Title
Undergraduate Research

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Individual or team research.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

Special Approval
Department permission

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Apply research methodology, independently or as a part of a research team, to answer a scientific question germane to the relationship between societies and their biophysical environments. Depending on the nature of the for-credit undergraduate research activity, activities may include question definition, literature review, data collection, data analysis, and findings formulation and dissemination.
2. Build transferable skills such as critical thinking, problem-solving, and scientific communication (written/oral).
3. Create disciplinary or interdisciplinary knowledge.

ENVS4980 - Environment and Society Departmental Colloquium - 1 - Credits

Course Overview

Course Prefix
ENVS

Course Number
4980

Department
Environment & Society

Dual-Listed Courses
ENVS6800 - Environment and Society Departmental Colloquium

Course Title
Environment and Society Departmental Colloquium

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
Students attend the Environmental & Society departmental colloquium and are exposed to current research on human-environment, geographic, and recreation resource management research and management topics. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours Min:
1

Contact Hours

Contact Hours Min:
1

Billing Hours

Billing Hours Min:
1

Lecture Hours

Lecture Hours Min:
1

No Requirements

ENVS5000 - Environmental Nonprofit and Volunteer Management - 3 - Credits

Course Overview

Course Prefix
ENVS

Course Number
5000

Department
Environment & Society

Course Title
Environmental Nonprofit and Volunteer Management

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Introduction to the activities, legal and political contexts, organizational structures, challenges and opportunities of working with nonprofit and voluntary organizations in support of environmental and recreational goals. Requires participation in volunteer activities as part of an Academic Service-Learning experience.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Course Learning Objectives

Course Learning Outcomes

1. This course will help students develop the knowledge and skill-base necessary to apply nonprofit best practices based on commonly accepted and individually-derived learning goals within the broader professional nonprofit world.
2. This course combines professional level projects, discussion, lecture, and peer response in order to teach basic concepts and apply skills emphasizing an application of learned materials and tools.
3. As an upper division and graduate level course, this requires a high level of effort and involvement by the student.

ENVS5020 - Human Dimensions of Fire Management - 3 - Credits

Course Overview

Course Prefix
ENVS

Course Number
5020

Department
Environment & Society

Dual-Listed Courses
ENVS6020 - Human Dimensions of Fire Management

Course Title
Human Dimensions of Fire Management

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course explores human behaviors and attitudes towards fuels mitigation and fire management across social and ecological contexts. Topics and tools surrounding wildfire policy, mitigation, response, and recovery will be examined using case studies and scenarios to inform social dynamics. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Course Learning Objectives

Course Learning Outcomes

- Analyze social, political, and institutional dimensions of fire management in US and international contexts
- Characterize and integrate public values, concerns, and risk perceptions into wildfire-related planning and decision-making
- Evaluate and improve communication strategies in community and government contexts before, during, and after wildfire events
- Assess collaborative strategies to reduce wildfire risk and develop policy and management recommendations that support cross-jurisdictional management

ENVS5100 - Introduction to Modeling Human-Environment Systems - 3 - Credits

Course Overview

Course Prefix
ENVS

Course Number
5100

Department
Environment & Society

Dual-Listed Courses
ENVS6100 - Introduction to Modeling Human-Environment Systems

Course Title
Introduction to Modeling Human-Environment Systems

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces modeling of human-environment systems. The course focuses on understanding the importance of complexity, systems thinking, interdependencies, and feedbacks. Students develop basic skills needed to build and analyze simple computational models. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Other Enrollment Recommendations
Junior or senior standing is recommended, as well as at least basic quantitative and computer skills.

Course Learning Objectives

Course Learning Outcomes
By the end of this course, students will be able to:

1. Apply principles of agent-based modeling to represent human–environment interactions, including translating conceptual frameworks into pseudocode and implementable model structures.
2. Evaluate how assumptions, parameter choices, and data inputs influence model behavior, uncertainty, and interpretability, using the principles of parsimony to guide model design.
3. Analyze the strengths and limitations of alternative modeling approaches—including equation-based models, spatial/GIS-integrated models, and theory-driven frameworks—to justify appropriate modeling choices for human–environment systems.
4. Construct a complete agent-based model in NetLogo that adheres to the ODD (Overview–Design concepts–Details) protocol, and use simulation experiments to draw meaningful inferences about a social–ecological system.
5. Communicate model design decisions, results, and limitations effectively to technical and non-technical audiences, demonstrating the ability to defend modeling choices and respond constructively to critique.

ENVS5200 - Anthropological Perspectives on Conservation - 3 - Credits

Course Overview

Course Prefix
ENVS

Course Number
5200

Department
Environment & Society

Cross-Listed Courses
ANTH5200 - Anthropological Perspectives on Conservation

Course Title
Anthropological Perspectives on Conservation

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course examines human impact on contemporary environments and the transforming capabilities of anthropogenic activity on the world at large. It also examines anthropological perspectives and methods used to address the preservation of the natural environment and similar challenges. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

ENVS5300 - Natural Resources Law and Policy - 2 - Credits

Course Overview

Course Prefix
ENVS

Course Number
5300

Department
Environment & Society

Course Title
Natural Resources Law and Policy

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Legal and administrative regulation of forests and associated resources (water, air, fish, wildlife, and scenery). Emphasis on agency organizational culture, federal legislation, court cases, administrative procedures, and federal natural resources agencies' interactions with tribal, state, and local governments.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

ENVS5320 - Water Law and Policy in the United States - 3 - Credits

Course Overview

Course Prefix
ENVS

Course Number
5320

Department
Environment & Society

Dual-Listed Courses
ENVS6320 - Water Law and Policy in the United States

Course Title
Water Law and Policy in the United States

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces policies, laws, institutions, and practices guiding western water allocation, emphasizing how to efficiently and equitably allocate increasingly scarce supplies. Students explore reserved water rights, water markets, stream adjudication, public trust doctrine, basin-wide management, and riparian management. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ENVS3010 - Natural Resource and Environmental Policy

Course Learning Objectives

Course Learning Outcomes

1. To distinguish how ecological economics builds upon neoclassical economics and also how it critiques its fundamental assumptions to build a separate subdiscipline.
2. To be able to work quantitatively with the core concepts of footprint analysis and environmental benefit estimation.
3. To be able to work qualitatively with core concept of natural capital, ecosystems services, socio-metabolism, energy and material flow analysis, and life -cycle analysis.

ENVS5350 - Ecological Economics - 3 - Credits

Course Overview

Course Prefix
ENVS

Course Number
5350

Department
Environment & Society

Dual-Listed Courses
ENVS6350 - Ecological Economics

Course Title
Ecological Economics

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students learn how ecological economics embeds the economy within the biosphere in a sustainability paradigm. Concepts and analytical approaches include natural capital, ecosystems services, environmental benefit estimation, footprint analysis, and life-cycle analysis. Additional coursework is required at the graduate level.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Other Enrollment Recommendations
An introductory course in economics is recommended but not required.

Course Learning Objectives

Course Learning Outcomes

1. To distinguish how ecological economics builds upon neoclassical economics and also how it critiques its fundamental assumptions to build a separate subdiscipline.
2. To be able to work quantitatively with the core concepts of footprint analysis and environmental benefit estimation.
3. To be able to work qualitatively with core concept of natural capital, ecosystems services, socio-metabolism, energy and material flow analysis, and life -cycle analysis.

ENVS5550 - Sustainability: Concepts and Measurement - 3 - Credits

Course Overview

Course Prefix
ENVS

Course Number
5550

Department
Environment & Society

Dual-Listed Courses
ENVS6550 - Sustainability: Concepts and Measurement

Course Title
Sustainability: Concepts and Measurement

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Examines the challenges and opportunities of sustaining resources and ways of life. Develops a global and long-term perspective on concepts of sustainability, challenges, resources, courses of action to become sustainable, and how to measure progress toward sustainability goals.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

ENVS5600 - Natural Resource Interpretation - 3 - Credits

Course Overview

Course Prefix
ENVS

Course Number
5600

Department
Environment & Society

Dual-Listed Courses
ENVS6600 - Natural Resource Interpretation

Course Title
Natural Resource Interpretation

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers planning processes, techniques, and evaluation procedures for creating effective interpretive programs for wildland recreation areas and visitor centers. Students learn to use information and education to influence human behavior and increase benefits to visitors in natural settings. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Course Learning Objectives

Course Learning Outcomes

1. Learning fundamental principles of interpretation, including related educational and psychological theories
2. Learning how to apply the principles of interpretation effectively in various settings
3. Developing specific skills, competencies, and perspectives essential for professional interpreters

ENVS5750 - Global Change Ecology - 3 - Credits

Course Overview

Course Prefix
ENVS

Course Number
5750

Department
Environment & Society

Dual-Listed Courses
ENVS6750 - Global Change Ecology

Course Title
Global Change Ecology

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Anthropogenic climate and land use changes are rapidly altering important ecosystem structures and functions. This course examines human needs and decisions contributing to global change and the ecological mechanisms underlying global change impacts on natural and human-dominated systems. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Other Enrollment Recommendations
ENVS1350 INTRO ENVIRONMENTAL SCI (BLS)

No Requirements

Course Learning Objectives

Course Learning Outcomes
1. Approach complex questions from a systems thinking perspective.
2. Demonstrate a strong ability to interpret primary scientific literature.
3. Demonstrate a working understanding of the carbon, nitrogen, and phosphorus cycles and connect them to human actions.
4. Discuss mechanisms, impacts, and mitigation of diverse global change drivers.

ENVS5800 - Environment and Society Departmental Colloquium - 1 - Credits

Course Overview

Course Prefix
ENVS

Course Number
5800

Department
Environment & Society

Dual-Listed Courses
ENVS6800 - Environment and Society Departmental Colloquium

Course Title
Environment and Society Departmental Colloquium

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
Students attend the Environmental & Society departmental colloquium and are exposed to current research on human-environment, geographic, and recreation resource management research and management topics. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

No Requirements

ENVS5820 - Field Studies in Environmental Conservation and Sustainability - 3 - Credits

Course Overview

Course Prefix
ENVS

Course Number
5820

Department
Environment & Society

Course Title
Field Studies in Environmental Conservation and Sustainability

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Allows Utah Conservation Corps members to explore land management issues and sustainability while engaging in service. Sessions during pre-service training focus on contextual factors defining environmental issues. During weekly field sessions, students focus on personally relevant aspects of sustainability.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Course Learning Objectives

Course Learning Outcomes

1. Describe the evolution and current challenges of public land management in the Western United States, including the roles of values, governance, and science.
2. Analyze competing land-use priorities and their ecological, cultural, and economic tradeoffs.
3. Evaluate environmental decision-making as both a technical and moral process, shaped by human values, perspectives, and behaviors.
4. Assess large-scale environmental change and disturbance in Western ecosystems and apply concepts of resilience and adaptive management.
5. Apply systems thinking to topics including food systems, natural capital, and economic incentives.
6. Demonstrate reflective learning, dialogue skills, and civic engagement through field journaling, discussions, and participation in conservation field work.

ENVS6010 - Applying Human Dimensions Concepts to Natural Resource Management - 3 - Credits

Course Overview

Course Prefix
ENVS

Course Number
6010

Department
Environment & Society

Course Title
Applying Human Dimensions Concepts to Natural Resource Management

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Review key concepts regarding the human dimensions of natural resources and environment, with applications to land and resource management. Topics include: attitudes and perceptions, behavior-change strategies, user-group conflict, visitor use impacts/capacity, environmental justice, and local community impacts.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Acquire the fundamental principles of the human dimension within natural resource management.
2. Gain an understanding of the diverse views of stakeholders within natural resource management.
3. Gain a basic understanding of the principles surrounding natural resource management and the variety of resources within this discipline.
4. Understand how to engage stakeholders within the management process effectively and efficiently.
5. Gain an understanding of how to promote lasting attitudinal and behavioral change.

ENVS6020 - Human Dimensions of Fire Management - 3 - Credits

Course Overview

Course Prefix
ENVS

Course Number
6020

Department
Environment & Society

Dual-Listed Courses
ENVS5020 - Human Dimensions of Fire Management

Course Title
Human Dimensions of Fire Management

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course explores human behaviors and attitudes towards fuels mitigation and fire management across social and ecological contexts. Topics and tools surrounding wildfire policy, mitigation, response, and recovery will be examined using case studies and scenarios to inform social dynamics. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Course Learning Objectives

Course Learning Outcomes

- Analyze social, political, and institutional dimensions of fire management in US and international contexts
- Characterize and integrate public values, concerns, and risk perceptions into wildfire-related planning and decision-making
- Evaluate and improve communication strategies in community and government contexts before, during, and after wildfire events
- Assess collaborative strategies to reduce wildfire risk and develop policy and management recommendations that support cross-jurisdictional management

ENVS6100 - Introduction to Modeling Human-Environment Systems - 3 - Credits

Course Overview

Course Prefix
ENVS

Course Number
6100

Department
Environment & Society

Dual-Listed Courses
ENVS5100 - Introduction to Modeling Human-Environment Systems

Course Title
Introduction to Modeling Human-Environment Systems

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces modeling of human-environment systems. The course focuses on understanding the importance of complexity, systems thinking, interdependencies, and feedbacks. Students develop basic skills needed to build and analyze simple computational models. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Course Learning Objectives

Course Learning Outcomes
By the end of this course, students will be able to

1. Apply principles of agent-based modeling to represent human–environment interactions, including translating conceptual frameworks into pseudocode and implementable model structures.
2. Evaluate how assumptions, parameter choices, and data inputs influence model behavior, uncertainty, and interpretability, using the principles of parsimony to guide model design.
3. Analyze the strengths and limitations of alternative modeling approaches—including equation-based models, spatial/GIS-integrated models, and theory-driven frameworks—to justify appropriate modeling choices for human–environment systems.

4. Construct a complete agent-based model in NetLogo that adheres to the ODD (Overview–Design concepts–Details) protocol, and use simulation experiments to draw meaningful inferences about a social–ecological system.
5. Communicate model design decisions, results, and limitations effectively to technical and non-technical audiences, demonstrating the ability to defend modeling choices and respond constructively to critique.

ENVS6110 - Human Dimensions of Wildlife Management - 3 - Credits

Course Overview

Course Prefix
ENVS

Course Number
6110

Department
Environment & Society

Course Title
Human Dimensions of Wildlife Management

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Examination of policy issues and administrative approaches in fish and wildlife management, with particular emphasis on nonbiological issues facing wildlife managers and administrators.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Use the human dimension of wildlife management to understand natural resource treaties, laws, regulations, and policies.
2. Apply economic principles to wildlife management issues or problems.
3. Articulate the essential human linkages to wildlife management and how these linkages affect management practices.
4. Synthesize all of the skills acquired to write well-written responses that demonstrate how these skills apply to wildlife management and the challenges embedded within this discipline.

ENVS6130 - Policy Aspects of Wildland Recreation - 3 - Credits

Course Overview

Course Prefix
ENVS

Course Number
6130

Department
Environment & Society

Course Title
Policy Aspects of Wildland Recreation

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Political, legal, and economic bases for wildland recreation management. Relationship between outdoor recreation and tourism. Lectures concurrent with ENVS 4130. Also includes weekly discussion session focusing on relevant scientific research and policy analyses.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

ENVS6240 - Graduate Internship/Co-op - 1 - 9 Credits

Course Overview

Course Prefix
ENVS

Course Number
6240

Department
Environment & Society

Course Title
Graduate Internship/Co-op

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Graduate-level educational experience in internship/cooperative education position approved by department.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
9

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
9

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
9

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
9

Lecture Hours Operator:
TO

Special Approval

Department permission

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Clarify career goals and explore workplace roles.

2. Connect academic concepts to workplace applications.
3. Develop professional attributes such as self-confidence, adaptability, and ethical awareness.
4. Strengthen technical and/or transferable skills through workplace practice and application.

ENVS6300 - Conservation Psychology - 3 - Credits

Course Overview

Course Prefix
ENVS

Course Number
6300

Department
Environment & Society

Dual-Listed Courses
ENVS7300 - Conservation Psychology

Course Title
Conservation Psychology

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Conservation psychology is the scientific study of the reciprocal relationships between individual humans and the rest of nature, drawing upon research in social and environmental psychology. Course content emphasizes strategies for changing beliefs, attitudes, and behaviors to improve sustainability.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

ENVS6310 - Introduction to Environmental Laws and Policy - 3 - Credits

Course Overview

Course Prefix
ENVS

Course Number
6310

Department
Environment & Society

Course Title
Introduction to Environmental Laws and Policy

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
The course will focus on 16 Federal laws and policies protecting both our natural and cultural resources. These laws and policies were selected because they are most frequently encountered by natural resource managers and specialists.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes

By the end of this course, students will be able to:

1. Recognize the difference between laws, regulations, and policies.
2. Understand the judicial role in interpreting and enforcing environmental law
3. Recognize the role these laws and policies play in managing public lands.
4. Identify the requirements of the federal natural and cultural resource laws and policies covered in this course.
5. Analyze various theories of the policy process and apply these theories to environmental laws and policies.

ENVS6320 - Water Law and Policy in the United States - 3 - Credits

Course Overview

Course Prefix
ENVS

Course Number
6320

Department
Environment & Society

Dual-Listed Courses
ENVS5320 - Water Law and Policy in the United States

Course Title
Water Law and Policy in the United States

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces policies, laws, institutions, and practices guiding western water allocation, emphasizing how to efficiently and equitably allocate increasingly scarce supplies. Students explore reserved water rights, water markets, stream adjudication, public trust doctrine, basin-wide management, and riparian management. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Course Learning Objectives

Course Learning Outcomes
1. To analyze and evaluate how water is used in the U.S. and globally and how it contributes to human well-being, economic development and ecological integrity.
2. To identify pressing water resources concerns in your state and region, analyze the processes that generate these problems, and evaluate how policy strategies can address them.
3. To analyze case law as the basis of the common law doctrines of riparian and prior appropriation doctrines as systems for governing uses of water within states.
4. To track ongoing water resources policy developments and debates.
5. To improve your ability to write cogently about water issues.

ENVS6350 - Ecological Economics - 3 - Credits

Course Overview

Course Prefix
ENVS

Course Number
6350

Department
Environment & Society

Dual-Listed Courses
ENVS5350 - Ecological Economics

Course Title
Ecological Economics

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students learn how ecological economics embeds the economy within the biosphere in a sustainability paradigm. Concepts and analytical approaches include natural capital, ecosystems services, environmental benefit estimation, footprint analysis, and life-cycle analysis. Additional coursework is required at the graduate level.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Other Enrollment Recommendations
An introductory course in economics is recommended but not required.

No Requirements

Course Learning Objectives

Course Learning Outcomes
1. To distinguish how ecological economics builds upon neoclassical economics and also how it critiques its fundamental assumptions to build a separate subdiscipline.
2. To be able to work quantitatively with the core concepts of footprint analysis and environmental benefit estimation.

3. To be able to work qualitatively with core concept of natural capital, ecosystems services, socio-metabolism, energy and material flow analysis, and life -cycle analysis.

ENVS6400 - Recreation Ecology - 3 - Credits

Course Overview

Course Prefix
ENVS

Course Number
6400

Department
Environment & Society

Course Title
Recreation Ecology

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Course content assesses current knowledge and knowledge gaps concerning impacts of wildland recreation on wildlife, plants, soil and water resources, and processes. Students learn strategies for coexistence of recreation visitors and nonhuman ecosystem elements.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

ENVS6410 - Translational Ecology - 3 - Credits

Course Overview

Course Prefix
ENVS

Course Number
6410

Department
Environment & Society

Course Title
Translational Ecology

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Introduces beginning scientists to principles and skills for connecting their research to non-scientists who will use it. Topics include: science communication and new media, public understanding of science, advocacy and policy-making, citizen science, participatory research approaches.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

ENVS6500 - Behavioral Aspects of Wildland Recreation - 3 - Credits

Course Overview

Course Prefix
ENVS

Course Number
6500

Department
Environment & Society

Course Title
Behavioral Aspects of Wildland Recreation

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Social and psychological analysis of visitor behavior in outdoor recreation settings. Sources of recreation management problems and practical and theoretical basis for management practices. Lectures concurrent with ENVS 4500. Separate discussion sessions focus on research concerning recreation behavior.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

ENVS6530 - Natural Resources Administration - 3 - Credits

Course Overview

Course Prefix
ENVS

Course Number
6530

Department
Environment & Society

Course Title
Natural Resources Administration

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Master of Natural Resources (MNR) degree requires students to complete courses in seven core areas. This course will satisfy the MNR's Administration requirement. Develops knowledge of issues, techniques, and practices for collaborative natural resource administration through assigned readings and discussions.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

ENVS6550 - Sustainability: Concepts and Measurement - 3 - Credits

Course Overview

Course Prefix
ENVS

Course Number
6550

Department
Environment & Society

Dual-Listed Courses
ENVS5550 - Sustainability: Concepts and Measurement

Course Title
Sustainability: Concepts and Measurement

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Examines the challenges and opportunities of sustaining resources and ways of life. Develops a global and long-term perspective on concepts of sustainability, challenges, resources, courses of action to become sustainable, and how to measure progress toward sustainability goals.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

ENVS6580 - Sustainable Nature-Based Tourism - 3 - Credits

Course Overview

Course Prefix
ENVS

Course Number
6580

Department
Environment & Society

Course Title
Sustainable Nature-Based Tourism

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Explores how sustainable nature-based tourism can fit into natural resource management with benefits to individuals, communities, economies, society, and the environment. Includes study of definitions and concepts, ecological and social impacts of nature-based tourism, and planning and management tools.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

ENVS6600 - Natural Resource Interpretation - 3 - Credits

Course Overview

Course Prefix
ENVS

Course Number
6600

Department
Environment & Society

Dual-Listed Courses
ENVS5600 - Natural Resource Interpretation

Course Title
Natural Resource Interpretation

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers planning processes, techniques, and evaluation procedures for creating effective interpretive programs for wildland recreation areas and visitor centers. Students learn to use information and education to influence human behavior and increase benefits to visitors in natural settings. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Course Learning Objectives

Course Learning Outcomes

1. Learning fundamental principles of interpretation, including related educational and psychological theories
2. Learning how to apply the principles of interpretation effectively in various settings
3. Developing specific skills, competencies, and perspectives essential for professional interpreters

ENVS6750 - Global Change Ecology - 3 - Credits

Course Overview

Course Prefix
ENVS

Course Number
6750

Department
Environment & Society

Dual-Listed Courses
ENVS5750 - Global Change Ecology

Course Title
Global Change Ecology

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Anthropogenic climate and land use changes are rapidly altering important ecosystem structures and functions. This course examines human needs and decisions contributing to global change and the ecological mechanisms underlying global change impacts on natural and human-dominated systems. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Approach complex questions from a systems thinking perspective.
2. Demonstrate a strong ability to interpret primary scientific literature.
3. Demonstrate a working understanding of the carbon, nitrogen, and phosphorus cycles and connect them to human actions.
4. Discuss mechanisms, impacts, and mitigation of diverse global change drivers.

ENVS6800 - Environment and Society Departmental Colloquium - 1 - Credits

Course Overview

Course Prefix
ENVS

Course Number
6800

Department
Environment & Society

Dual-Listed Courses
ENVS5800 - Environment and Society Departmental Colloquium

Course Title
Environment and Society Departmental Colloquium

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
Students attend the Environmental & Society departmental colloquium and are exposed to current research on human-environment, geographic, and recreation resource management research and management topics. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

No Requirements

ENVS6840 - Graduate Orientation Seminar for Environment and Society - 1 - Credits

Course Overview

Course Prefix
ENVS

Course Number
6840

Department
Environment & Society

Course Title
Graduate Orientation Seminar for Environment and Society

Grade Mode
Pass/Fail

Repeat Status
NR

Course Description
Each faculty member meets with first-year graduate students in a seminar format to review and discuss in depth the faculty member's area of academic specialization.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

No Requirements

Course Learning Objectives

Course Learning Outcomes
By the end of this course, students will be able to:

1. Articulate the breadth of research expertise of faculty in the Department of Environment and Society, with application to the identification of supervisory committee members and course selection.
2. Identify resources across campus relevant to their success as graduate students and their active engagement in the life of the University.
3. Function effectively as a member of an ENVS graduate student cohort.

ENVS6841 - The Socio-Environmental Research Process - 1 - Credits

Course Overview

Course Prefix
ENVS

Course Number
6841

Department
Environment & Society

Dual-Listed Courses
ENVS7841 - The Socio-Environmental Research Process

Course Title
The Socio-Environmental Research Process

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces philosophical and conceptual underpinnings of research about human-environment interactions, focusing on why science is conducted as it is, ways to approach research endeavors, and ethical challenges and responsibilities for researchers studying humans and the natural environment.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

No Requirements

Course Learning Objectives

Course Learning Outcomes

By the end of this course, you will be able to:
1. Explain the importance of engaging with and developing theoretical or conceptual frameworks.
2. Develop a theoretical or conceptual framework for your research.
3. Analyze and address ethical challenges in socio-environmental research.

ENVS6842 - Methodology for Socio-Environmental Research - 1 - Credits

Course Overview

Course Prefix
ENVS

Course Number
6842

Department
Environment & Society

Dual-Listed Courses
ENVS7842 - Methodology for Socio-Environmental Research

Course Title
Methodology for Socio-Environmental Research

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
In this survey course, students are exposed to qualitative, quantitative, and mixed methods. This course introduces these topics to students so they can know which methods to employ in their research. It is recommended for first semester graduate students.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

No Requirements

Course Learning Objectives

Course Learning Outcomes

By the end of this course, students will be able to:

1. Analyze the strengths, limitations, and underlying assumptions of qualitative, quantitative, and mixed-methods approaches in the social sciences.
2. Evaluate how different methodological choices align with specific research questions and theoretical goals, selecting appropriate methods for a given analytical context.

3. Apply core qualitative techniques—including ethnographic observation, critical reading, and interpretive analysis—to generate and assess empirical claims.
4. Apply foundational quantitative and computational methods—including basic network analysis, topic modeling, and introductory agent-based modeling—to analyze social phenomena and interpret model outputs.
5. Construct a coherent and discipline-appropriate methods section that justifies methodological choices, demonstrates methodological literacy, and connects research design to broader theoretical contributions.

ENVS6870 - Ecology Seminar - 1 - Credits

Course Overview

Course Prefix
ENVS

Course Number
6870

Department
Environment & Society

Course Title
Ecology Seminar

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
The Ecology Center schedules seminars with ecological scientists from participating institutions. Ecology majors are required to attend or view a minimum of 10 such lectures. Ecologically focused seminars offered by other departments and colleges may also be eligible for credit.

Credit Hours

Credit Hours Min:
1

Contact Hours

Contact Hours Min:
1

Billing Hours

Billing Hours Min:
1

Lecture Hours

Lecture Hours Min:
1

No Requirements

Course Learning Objectives

Course Learning Outcomes
By the end of this 1-credit seminar course, students will be able to:

1. Describe at least three current ecological research frameworks outside their own graduate research focus.
2. Appreciate the content and presentation strategies that increase the effectiveness of oral communication

ENVS6889 - Environmental Risks and Decision Making - 1 - Credits

Course Overview

Course Prefix
ENVS

Course Number
6889

Department
Environment & Society

Course Title
Environmental Risks and Decision Making

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course focuses on how people make decisions in the context of environmental risks, how decisions affect the vulnerability of ecosystems and society to environmental change, and strategies for improving decision-making in these contexts.

Credit Hours

Credit Hours Min:
1

Contact Hours

Contact Hours Min:
1

Billing Hours

Billing Hours Min:
1

Lecture Hours

Lecture Hours Min:
1

Course Learning Objectives

Course Learning Outcomes

1. Learn fundamental principles in the social science of decision making under risk and uncertainty, with a focus on risks related to climate change
2. Develop understanding of research methods in the social science of risk and decision making
3. Integrate and evaluate prior internship and/or research experience in the context of decision making under risk.

ENVS6900 - Graduate Special Topics - 1 - 6 Credits

Course Overview

Course Prefix
ENVS

Course Number
6900

Department
Environment & Society

Course Title
Graduate Special Topics

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course offers credit for special seminars beyond regularly scheduled courses.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
6

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
6

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
6

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
6

Lecture Hours Operator:
TO

Course Learning Objectives

Course Learning Outcomes

1. Students will build and/or apply advanced topical knowledge in the interdisciplinary field of Environment and Society.

ENVS6910 - Directed Study - 1 - 6 Credits

Course Overview

Course Prefix
ENVS

Course Number
6910

Department
Environment & Society

Course Title
Directed Study

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course offers credit for special assignments or for independent or group readings.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
6

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
6

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
6

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
6

Lecture Hours Operator:
TO

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Define a coherent body of literature or skills area in an advanced topic of study, together with a graduate faculty mentor, related to the individual's or group's graduate program objectives.
2. Demonstrate an advanced level of independent thought and inquiry, or skills acquisition, in relation to the defined area.
3. Communicate their ideas and findings in writing or orally with high effectiveness for an academic and/or other audience.

ENVS6970 - Thesis Research - 1 - 12 Credits

Course Overview

Course Prefix
ENVS

Course Number
6970

Department
Environment & Society

Course Title
Thesis Research

Grade Mode
Temporary Pass/Fail

Repeat Status
RP

Course Description
This course is designed for students preparing a master's degree thesis.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
12

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
12

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
12

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
12

Lecture Hours Operator:
TO

No Requirements

Course Learning Objectives

Course Learning Outcomes

Plan A (Thesis) students will be able to:

1. Analyze and synthesize existing scientific knowledge on a defined research topic in the field of environmental studies, environmental science, recreation resource management and/or geography.
   Formulate a research question that builds on existing knowledge in a related topical area, and that can be answered within the scope of a master's thesis project.
2. Design and implement data collection and analysis strategies appropriate to the research question to generate new knowledge (can include case study application of current theory).
3. Formulate findings and communicate them effectively to an academic audience through both a written thesis and an oral defense.
4. Respond successfully to follow-up questions from an academic audience.
5.

Plan B (Project) students will be able to:

1. Analyze, synthesize, and/or apply existing scientific knowledge on a defined research topic in the field of environmental studies, environmental science, recreation resource management and/or geography, as appropriate to a Plan B master's project.
2. Communicate effectively to a specified audience through both a written project report and an oral defense.

ENVS6990 - Continuing Graduate Advisement - 1 - 9 Credits

Course Overview

Course Prefix
ENVS

Course Number
6990

Department
Environment & Society

Course Title
Continuing Graduate Advisement

Grade Mode
Temporary Pass/Fail

Repeat Status
RP

Course Description
This course provides graduate students with continued support and advisement. It is usually taken following completion of all coursework required for the degree.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
9

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
9

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
9

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
9

Lecture Hours Operator:
TO

No Requirements

ENVS7300 - Conservation Psychology - 3 - Credits

Course Overview

Course Prefix
ENVS

Course Number
7300

Department
Environment & Society

Dual-Listed Courses
ENVS6300 - Conservation Psychology

Course Title
Conservation Psychology

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Conservation psychology is the scientific study of the reciprocal relationships between individual humans and the rest of nature, drawing upon research in social and environmental psychology. Course content emphasizes strategies for changing beliefs, attitudes, and behaviors to improve sustainability.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

ENVS7800 - Environment and Society Departmental Colloquium - 1 - Credits

Course Overview

Course Prefix
ENVS

Course Number
7800

Department
Environment & Society

Course Title
Environment and Society Departmental Colloquium

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
Students attend the Environmental & Society departmental colloquium and are exposed to current research on human-environment, geographic, and recreation resource management research and management topics. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

No Requirements

Course Learning Objectives

Course Learning Outcomes

By the end of this course, students will be able to:

1. Engage with presented research on a variety of environmental and natural resource topics with relevance to the interactions between humans and their environments.
2. Participate in dialogue on these topics to ask questions and improve their own comprehension.

ENVS7840 - Graduate Orientation Seminar for Environment and Society - 1 - Credits

Course Overview

Course Prefix
ENVS

Course Number
7840

Department
Environment & Society

Course Title
Graduate Orientation Seminar for Environment and Society

Grade Mode
Pass/Fail

Repeat Status
NR

Course Description
Each faculty member meets with first-year graduate students in a seminar format to review and discuss in depth the faculty member's area of academic specialization.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

No Requirements

Course Learning Objectives

Course Learning Outcomes

By the end of this course, students will be able to:

1. Articulate the breadth of research expertise of faculty in the Department of Environment and Society, with application to the identification of supervisory committee members and course selection.
2. Identify resources across campus relevant to their success as graduate students and their active engagement in the life of the University.
3. Function effectively as a member of an ENVS graduate student cohort.

ENVS7841 - The Socio-Environmental Research Process - 1 - Credits

Course Overview

Course Prefix
ENVS

Course Number
7841

Department
Environment & Society

Dual-Listed Courses
ENVS6841 - The Socio-Environmental Research Process

Course Title
The Socio-Environmental Research Process

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces philosophical and conceptual underpinnings of research about human-environment interactions, focusing on why science is conducted as it is, ways to approach research endeavors, and ethical challenges and responsibilities for researchers studying humans and the natural environment.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

No Requirements

Course Learning Objectives

Course Learning Outcomes

By the end of this course, you will be able to:
1. Explain the importance of engaging with and developing theoretical or conceptual frameworks.
2. Develop a theoretical or conceptual framework for your research.
3. Analyze and address ethical challenges in socio-environmental research.

ENVS7842 - Methodology for Socio-Environmental Research - 1 - Credits

Course Overview

Course Prefix
ENVS

Course Number
7842

Department
Environment & Society

Dual-Listed Courses
ENVS6842 - Methodology for Socio-Environmental Research

Course Title
Methodology for Socio-Environmental Research

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
In this survey course, students are exposed to qualitative, quantitative, and mixed methods. This course introduces these topics to students so they can know which methods to employ in their research. It is recommended for first semester graduate students.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

No Requirements

Course Learning Objectives

Course Learning Outcomes

By the end of this course, students will be able to:

1. Analyze the strengths, limitations, and underlying assumptions of qualitative, quantitative, and mixed-methods approaches in the social sciences.
2. Evaluate how different methodological choices align with specific research questions and theoretical goals, selecting appropriate methods for a given analytical context.

3. Apply core qualitative techniques—including ethnographic observation, critical reading, and interpretive analysis—to generate and assess empirical claims.
   Apply foundational quantitative and computational methods—including basic network analysis, topic modeling, and introductory agent-based modeling—to analyze social phenomena and interpret model outputs.
4. Construct a coherent and discipline-appropriate methods section that justifies methodological choices, demonstrates methodological literacy, and connects research design to broader theoretical contributions.

ENVS7900 - Graduate Special Topics - 1 - 6 Credits

Course Overview

Course Prefix
ENVS

Course Number
7900

Department
Environment & Society

Course Title
Graduate Special Topics

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course offers credit for special seminars beyond regularly scheduled courses.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
6

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
6

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
6

Lecture Hours Operator:
TO

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Students will build and/or apply advanced topical knowledge in the interdisciplinary field of Environment and Society.

ENVS7910 - Directed Study - 1 - 6 Credits

Course Overview

Course Prefix
ENVS

Course Number
7910

Department
Environment & Society

Course Title
Directed Study

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course offers credit for special assignments or for independent or group readings.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
6

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
6

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
6

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
6

Lecture Hours Operator:
TO

No Requirements

Course Learning Objectives

Course Learning Outcomes

Students will:

1. Define a coherent body of literature or skills area in an advanced topic of study, together with a graduate faculty mentor, related to the individual's or group's graduate program objectives.
2. Demonstrate an advanced level of independent thought and inquiry, or skills acquisition, in relation to the defined area.
3. Communicate their ideas and findings in writing or orally with high effectiveness for an academic and/or other audience.

ENVS7970 - Dissertation Research - 1 - 12 Credits

Course Overview

Course Prefix
ENVS

Course Number
7970

Department
Environment & Society

Course Title
Dissertation Research

Grade Mode
Temporary Pass/Fail

Repeat Status
RP

Course Description
This course consists of individual work on research problems for students enrolled in doctoral programs.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
12

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
12

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
12

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
12

Lecture Hours Operator:
TO

No Requirements

Course Learning Objectives

Course Learning Outcomes

Students will be able to:

1. Analyze and synthesize existing scientific knowledge on a defined research topic in the interdisciplinary field of Environment and Society.
2. Formulate research questions that build on existing knowledge on a relevant socioenvironmental topic, and that can be answered within the scope of a doctoral dissertation project.
3. Design and implement data collection and analysis strategies appropriate to the research questions to generate new knowledge.
4. Formulate findings and communicate them effectively to an academic audience through both a written dissertation and an oral defense.
5. Respond successfully to follow-up questions from an academic audience.

ENVS7990 - Continuing Graduate Advisement - 1 - 9 Credits

Course Overview

Course Prefix
ENVS

Course Number
7990

Department
Environment & Society

Course Title
Continuing Graduate Advisement

Grade Mode
Temporary Pass/Fail

Repeat Status
RP

Course Description
This course provides graduate students with continued support and advisement. It is usually taken following completion of all coursework required for the degree.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
9

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
9

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
9

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
9

Lecture Hours Operator:
TO

No Requirements

ENVSELEC - Environment and Society Elective Credit - 3 - Credits

Course Overview

Course Prefix
ENVS

Course Number
ELEC

Department
Environment & Society

Course Title
Environment and Society Elective Credit

Grade Mode
Non-gradable

Course Description
This course is used for Elective Credit in Degreeworks

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

ETEC1000 - Introduction to Engineering Technology - 1 - Credits

Course Overview

Course Prefix
ETEC

Course Number
1000

Department
Technology, Design & Technical Ed

Course Title
Introduction to Engineering Technology

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course discusses engineering technology principles, career prospects, professional conduct, teamwork, and explores emerging technology trends.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Understand the scope, structure, and objectives of the engineering technology program.
2. Explore various career paths and opportunities within the field of engineering technology.
3. Develop effective technical communication skills, including writing and presenting.
4. Learn about professional ethics, responsibilities, and conduct in engineering technology.
5. Begin to cultivate problem-solving skills relevant to engineering technology challenges.
6. Collaborate within seminar groups to foster teamwork and interpersonal skills.
7. Gain awareness of emerging technologies and trends in the engineering technology industry.

ETEC1010 - Engineering Technology Principles - 3 - Credits

Course Overview

Course Prefix
ETEC

Course Number
1010

Department
Technology, Design & Technical Ed

Course Title
Engineering Technology Principles

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course is an in-depth exploration of foundational engineering technology principles. Students focus on math and science principles to solve real-world problems.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Understand and explain the fundamental concepts and principles of engineering technology.
2. Develop problem-solving skills relevant to engineering technology applications.
3. Acquire knowledge in core engineering disciplines such as electronics, mechanics, materials, and systems.
4. Familiarize with and effectively use various engineering tools and software for analysis, design, and simulation.

ETEC1100 - Chemistry for Engineering Technology - 3 - Credits

Course Overview

Course Prefix
ETEC

Course Number
1100

Department
Technology, Design & Technical Ed

Course Title
Chemistry for Engineering Technology

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course equips engineering technologists with practical skills to conduct experiments, analyze chemical reactions, and interpret data. Students apply chemistry principles to solve real-world problems, ensuring safety and accuracy in all lab activities.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Registration Restrictions

Admission to the Technology, Design and Technical Education

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete at least 1 course in the following course sets:

- Quantitative Literacy (QL) Course

Course Learning Objectives

Course Learning Outcomes

1. Conduct fundamental chemistry experiments relevant to engineering technology applications safely and accurately.
2. Document experimental procedures and results effectively.
3. Analyze materials and understand chemical reactions within an engineering technology context.
4. Interpret experimental data to solve practical engineering technology problems.

ETEC1500 - Applied Physics for Technologists - 3 - Credits

Course Overview

Course Prefix
ETEC

Course Number
1500

Department
Technology, Design & Technical Ed

Course Title
Applied Physics for Technologists

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students learn practical physics for Aviation and Engineering Technology, covering mechanics, fluid dynamics, thermodynamics, electromagnetism, and aerodynamics. Students engage in scientific inquiry, apply quantitative methods, and evaluate the societal impact of scientific developments through experiments and problem-solving.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Registration Restrictions
Admission to a program in the Aviation Technology or the Technology, Design, and Technical Education departments.

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- MATH1060 - Trigonometry

Course Learning Objectives

Course Learning Outcomes
1. Understand and apply mechanics principles to analyze motion, forces, energy, and work in technological systems.
2. Examine and apply fluid dynamics concepts relevant to engineering technology and aviation technologies.
3. Demonstrate knowledge of thermodynamics and its implications in engineering technology processes.
4. Analyze basic principles of electromagnetism and their applications in modern technological devices.
5. Explore wave behavior and sound as it relates to technological systems and aviation.
6. Integrate practical experiments to reinforce theoretical concepts and demonstrate their use in solving technical problems.
7. Understand and apply principles of aerodynamics to analyze and solve flight-related challenges in aviation technology.
8. Develop problem-solving skills by applying physics principles to real-world engineering and aviation challenges.
9. Apply scientific methods to conduct experiments and interpret results accurately, including understanding error, precision, and uncertainty.
10. Evaluate the historical and societal context of physics developments and their influence on modern technology and society.
11. Assess the credibility of scientific sources and use visual/written communication to present findings clearly.

ETEC2020 - Introduction to Automation - 3 - Credits

Course Overview

Course Prefix
ETEC

Course Number
2020

Department
Technology, Design & Technical Ed

Course Title
Introduction to Automation

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This introductory course explores the principles and applications of automation. Students gain hands-on experience with sensors, PLCs, HMIs, and industrial communication. They develop essential skills for designing and implementing automation systems in diverse industries.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Registration Restrictions

Admission to the Technology, Design and Technical Education (TDTE) department

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ETEC2310 - Electronics Systems

Course Learning Objectives

Course Learning Outcomes

Course Learning Outcomes:

1. Describe the fundamental principles and applications of automation.
2. Demonstrate proficiency in using sensors, actuators, PLCs, and HMIs.
3. Apply industrial communication protocols for efficient automation.
4. Design and implement basic automation systems.
5. Troubleshoot and debug automation processes.
6. Analyze the integration of automation technologies in various industries.
7. Interpret complex engineering drawings accurately.
8. Recognize and understand symbols, notations, and dimensions on blueprints.
9. Apply GD&T principles to communicate design tolerances effectively.
10. Utilize GD&T symbols to specify geometric features on engineering drawings.
11. Create and interpret engineering change orders (ECOs).
12. Develop and analyze Bills of Materials (BOMs) for manufacturing processes.
13. Generate clear assembly and fabrication instructions.
14. Demonstrate proficiency in technical writing for engineering documents.
15. Present engineering information effectively through written and verbal communications.
16. Develop skills that are directly applicable to careers in design, manufacturing, and related engineering fields.
17. Prepare for professional success through enhanced communication and documentation abilities.

ETEC2200 - Engineering Technology Communications - 3 - Credits

Course Overview

Course Prefix
ETEC

Course Number
2200

Department
Technology, Design & Technical Ed

Course Title
Engineering Technology Communications

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course focuses on developing communication skills essential for engineering technologists in the fields of blueprint reading, Geometric Dimensioning and Tolerancing, and manufacturing documentation. Students learn to interpret engineering drawings, communicate design intent through GD&T, and create manufacturing documents.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Admission to the Technology, Design and Technical Education (TDTE) program

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Earn a minimum grade of C- in the following:
- TESY1200 - Computer-Aided Drafting and Design

ETEC2300 - Introduction to Electronics - 4 - Credits

Course Overview

Course Prefix
ETEC

Course Number
2300

Department
Technology, Design & Technical Ed

Course Title
Introduction to Electronics

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course is an introduction to electronic fundamentals. Students explore electronic components, circuit analysis, digital electronics, and microcontrollers.

Credit Hours

Credit Hours
Min:
4

Contact Hours

Contact Hours
Min:
4

Billing Hours

Billing Hours
Min:
4

Lecture Hours

Lecture Hours
Min:
4

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete at least 1 course in the following course sets:
- Quantitative Literacy (QL) Course

Course Learning Objectives

Course Learning Outcomes
1. Understand the fundamental electronic components such as resistors, capacitors, diodes, and transistors.
2. Analyze and solve basic electronic circuits using Ohm's law and Kirchhoff's laws.
3. Calculate and manipulate voltage, current, and power in electronic circuits.
4. Design and construct simple electronic circuits for various applications.

ETEC2310 - Electronics Systems - 3 - Credits

Course Overview

Course Prefix
ETEC

Course Number
2310

Department
Technology, Design & Technical Ed

Course Title
Electronics Systems

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course consists of the study and application of electronics sensors and transducers, e-textiles, data acquisition and controls, programming, and the circuitry and instruments supporting these applications.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ANY of the following Courses:

- ETEC2300 - Introduction to Electronics
  OR TEE2300 - Electronic Fundamentals (QI)
  OR TESY3300 - Electronic Systems and Programming (QI)
  OR ENGR2210 - Fundamental Electronics for Engineers

ETEC3010 - Materials Sciences for Engineering Technology - 3 - Credits

Course Overview

Course Prefix
ETEC

Course Number
3010

Department
Technology, Design & Technical Ed

Course Title
Materials Sciences for Engineering Technology

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers material properties, classifications, and processing techniques, emphasizing their applications in problem-solving. Students learn material characterization, mechanical behavior, and degradation mechanisms, with a focus on sustainability and advanced materials.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Admission to the Technology, Design and Technical Education (TDTE) department

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Earn a minimum grade of C- in the following:

- CHEM1210 - Principles of Chemistry I
- PHYS1200 - Introduction to Physics by Hands-on Exploration (BPS)
  OR PHYS1800 - Physics of Technology (BPS)
  OR PHYS2210 - Physics for Scientists and Engineers I (QI/BPS)

Course Learning Objectives

Course Learning Outcomes

Course Learning Outcomes:

1. Identify and describe the fundamental properties of materials such as mechanical, thermal, electrical, magnetic, and optical properties.
2. Explain the relationship between material structure and properties at different scales (atomic, microscopic, and macroscopic).
3. Classify materials into categories such as metals, ceramics, polymers, composites, and semiconductors.
4. Evaluate materials for specific applications based on their properties and performance requirements.
5. Utilize different methods for material characterization including microscopy, spectroscopy, and mechanical testing.
6. Interpret data from material characterization techniques to assess material properties and quality.
7. Understand stress-strain relationships and the concepts of elasticity, plasticity, and fracture mechanics.
8. Analyze the mechanical behavior of materials under different loading conditions such as tension, compression, and shear.

ETEC3020 - Energy Systems - 3 - Credits

Course Overview

Course Prefix
ETEC

Course Number
3020

Department
Technology, Design & Technical Ed

Course Title
Energy Systems

Grade Mode
Standard Letter

Repeat Status
NR

Course Description

This course covers fluid mechanics, thermal-fluid systems, and fluid machinery in energy applications. Students learn to analyze, design, and optimize fluid-based energy systems, focusing on efficiency, sustainability, and practical skills through hands-on experiments and computational tools.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Registration Restrictions

Admission to the Technology, Design and Technical Education (TDTE) department

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Earn a minimum grade of C- in the following:

- PHYS1200 - Introduction to Physics by Hands-on Exploration (BPS)
  OR PHYS1800 - Physics of Technology (BPS)
  OR PHYS2210 - Physics for Scientists and Engineers I (QI/BPS)

Course Learning Objectives

Course Learning Outcomes

Course Learning Outcomes:

1. Explain the fundamental principles of fluid mechanics including fluid statics, dynamics, and kinematics.

2. Describe the properties of fluids such as density, viscosity, and surface tension.

3. Analyze fluid flow in various systems including pipes, ducts, and open channels.

4. Apply Bernoulli's equation and conservation laws (mass, momentum, and energy) to solve fluid flow problems.

5. Understand the principles of heat transfer in fluid systems, including conduction, convection, and radiation.

6. Evaluate the performance of heat exchangers, boilers, and condensers in energy systems.

7. Describe the components and operation of hydraulic and pneumatic systems used in energy applications.

8. Analyze the performance of pumps, turbines, and compressors in fluid systems.

ETEC3130 - Manufacturing and Quality Systems - 3 - Credits

Course Overview

Course Prefix
ETEC

Course Number
3130

Department
Technology, Design & Technical Ed

Course Title

Manufacturing and Quality Systems

Grade Mode
Standard Letter

Repeat Status
NR

Course Description

This course covers manufacturing processes, quality control, lean manufacturing, Six Sigma, and advanced technologies. Students learn to design, analyze, and improve manufacturing systems, emphasizing efficiency, sustainability, compliance, and practical skills.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Registration Restrictions

Admission to the Technology, Design and Technical Education (TDTE) department

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Earn a minimum grade of C- in the following:

- TESY1030 - Material Processing Systems

Course Learning Objectives

Course Learning Outcomes

Course Learning Outcomes:

1. Understand the principles of quality control and assurance in manufacturing.
2. Apply statistical process control (SPC) techniques to monitor and improve manufacturing processes.
3. Explain the concepts of lean manufacturing and Six Sigma and their applications in improving efficiency and reducing waste.
4. Implement lean and Six Sigma methodologies to enhance manufacturing processes and quality.
5. Design manufacturing systems considering factors such as layout, workflow, and automation.
6. Evaluate the performance of manufacturing systems using key performance indicators (KPIs).

ETEC3850 - Statics and Strengths of Materials - 3 - Credits

Course Overview

Course Prefix
ETEC

Course Number
3850

Department
Technology, Design & Technical Ed

Course Title

Statics and Strengths of Materials

Grade Mode
Standard Letter

Repeat Status
NR

Course Description

This course covers fundamental principles of statics and material strength, including force analysis, stress and strain, torsion, bending, and stability. Students learn to design safe structures, perform experiments, and apply theoretical concepts to real-world problems.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Registration Restrictions

Admission to the Technology, Design and Technical Education (TDTE) department

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Earn a minimum grade of C- in the following:

- MATH1210 - Calculus I (QL)
- PHYS1200 - Introduction to Physics by Hands-on Exploration (BPS)
  OR PHYS1800 - Physics of Technology (BPS)
  OR PHYS2210 - Physics for Scientists and Engineers I (QI/BPS)

Course Learning Objectives

Course Learning Outcomes

Course Learning Outcomes:

1. Explain fundamental principles of statics, including force vectors, equilibrium, and free-body diagrams.
2. Describe the mechanical properties of materials such as stress, strain, and elasticity.
3. Analyze force systems including concurrent, coplanar, and parallel forces.
4. Apply equilibrium conditions to determine unknown forces and moments in structures.
5. Determine support reactions for beams, trusses, and frames.
6. Analyze the internal forces within structures, including axial forces, shear forces, and bending moments.
7. Calculate normal and shear stress in structural elements.
8. Understand and apply Hooke's Law to determine material deformation.
9. Analyze axial load problems and determine the resulting stress and deformation.
10. Understand the principles of torsion and calculate the stress and deformation in shafts.
11. Analyze bending stress and deflection in beams.

ETEC4200 - Professional Communication and Documentation for Engineering Technology - 3 - Credits

Course Overview

Course Prefix
ETEC

Course Number
4200

Department
Technology, Design & Technical Ed

Course Title

Professional Communication and Documentation for Engineering Technology

Grade Mode
Standard Letter

Repeat Status
NR

Course Description

This course emphasizes technical writing, presentation, and teamwork skills essential for engineering technology professionals. Students develop proficiency in creating clear, effective documents and presentations tailored to engineering contexts, enhancing career readiness in the field.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Admission to the Technology, Design and Technical Education (TDTE) department

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Earn a minimum grade of C- in the following:

- ETEC2200 - Engineering Technology Communications
- ETEC3130 - Manufacturing and Quality Systems

Course Learning Objectives

Course Learning Outcomes

Course Learning Outcomes:

1. Develop effective written communication skills for technical documents, reports, and proposals.
2. Enhance oral communication skills for presentations, meetings, and technical discussions.
3. Use visual aids and multimedia effectively to enhance technical presentations.
4. Collaborate effectively in teams to produce cohesive technical documents and presentations.
5. Conduct research and cite sources appropriately in technical writing.
6. Utilize feedback to improve communication skills throughout the course.

ETEC4900 - Senior Capstone I - 3 - Credits

Course Overview

Course Prefix
ETEC

Course Number
4900

Department
Technology, Design & Technical Ed

Course Title
Senior Capstone I

Grade Mode
Standard Letter

Repeat Status
NR

Course Description

This is the first course in the senior capstone sequence. Topics include design process, prototyping, documentation, teamwork, project management, and technical presentations.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Registration Restrictions

Admission to the Technology, Design and Technical Education (TDTE) program

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ETEC3130 - Manufacturing and Quality Systems
- ETEC3010 - Materials Sciences for Engineering Technology
- ETEC3850 - Statics and Strengths of Materials
- TESY3270 - Advanced Computer-Aided Drafting

Course Learning Objectives

Course Learning Outcomes

Course Learning Outcomes:

1. Describe and apply the design process in engineering projects, from concept development to final design.
2. Demonstrate proficiency in prototyping methods and techniques relevant to project goals.
3. Create comprehensive project documentation including technical reports, drawings, and specifications.
4. Collaborate effectively in multidisciplinary teams to achieve project objectives.
5. Apply project management principles to plan, execute, and monitor project milestones and deliverables.
6. Develop and deliver effective technical presentations to communicate project progress and outcomes.

ETEC4910 - Senior Capstone II - 3 - Credits

Course Overview

Course Prefix
ETEC

Course Number
4910

Department
Technology, Design & Technical Ed

Course Title
Senior Capstone II

Grade Mode
Standard Letter

Repeat Status
NR

Course Description

This is the second course in the senior capstone sequence. Topics include design reviews, final project manufacturing, documentation, project management, and final project presentation.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Registration Restrictions

Admission to the Technology, Design and Technical Education (TDTE) department

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Earn a minimum grade of C- in the following:

- ETEC4900 - Senior Capstone I

Course Learning Objectives

Course Learning Outcomes

Course Learning Outcomes:

1. Demonstrate and understanding of the design process in engineering projects, from concept development to final design.
2. Demonstrate proficiency in prototyping methods and techniques relevant to project goals.
3. Create comprehensive project documentation including technical reports, drawings, and specifications.
4. Collaborate effectively in multidisciplinary teams to achieve project objectives.
5. Apply project management principles to plan, execute, and monitor project milestones and deliverables.
6. Develop and deliver effective technical presentations to communicate project progress and outcomes.

FCSE1021 - Personal Finance - 3 - Credits

Course Overview

Course Prefix
FCSE

Course Number
1021

Department
Applied Sciences, Technology and Education

Course Title
Personal Finance

Grade Mode
Standard Letter

Repeat Status
NR

Course Description

This course is designed for all students, introducing them to personal financial planning throughout all stages of life. Emphasis is placed on planning for, acquiring, protecting and investing wealth to meet personal financial objectives.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

FCSE1040 - Introductory Sewing - 3 - Credits

Course Overview

Course Prefix
FCSE

Course Number
1040

Department
Applied Sciences, Technology and Education

Course Title
Introductory Sewing

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Introductory-level sewing techniques in this course are geared toward beginning sewing students. Topics focus on sewing for the outdoor industry and manufacturing. It includes the use of sewing machines and sergers. No previous sewing experience is needed.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

FCSE1350 - Financial Literacy (BSS) - 3 - Credits

Course Overview

Course Prefix
FCSE

Course Number
1350

Department
Applied Sciences, Technology and Education

Course Title
Financial Literacy (BSS)

General Education Attribute
BSS

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces basic financial subjects and explores ways to balance between the numerical and behavioral aspects of finances, such as how financial decisions are affected by behavior and relationships within a family and societal context.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

FCSE2040 - Intermediate Clothing Construction Skills, Principles, and Alterations - 3 - Credits

Course Overview

Course Prefix
FCSE

Course Number
2040

Department
Applied Sciences, Technology and Education

Course Title
Intermediate Clothing Construction Skills, Principles, and Alterations

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students learn intermediate-level sewing techniques and construction of clothing. Other topics include pattern alteration and fitting, use of elements and principles of design in apparel, and use of multiple construction machines.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Admission to the Family and Consumer Sciences Education or Outdoor Product Design and Development program or Technology Systems Program or Fashion Studies - Institutional Certificate of Proficiency or Advanced Fashion Studies - Institutional Certificate of Proficiency

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ANY of the following Courses:

- FCSE1040 - Introductory Sewing

FCSE2350 - Financial Literacy 2 - 3 - Credits

Course Overview

Course Prefix
FCSE

Course Number
2350

Department
Applied Sciences, Technology and Education

Course Title
Financial Literacy 2

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides an overview of financial topics with emphasis on principles of investing, retirement, estate planning, and money biases.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- FCSE1350 - Financial Literacy (BSS)
  OR HDFS3350 - Family Finance (DSS)

FCSE2510 - Orientation to Family and Consumer Sciences Education - 3 - Credits

Course Overview

Course Prefix
FCSE

Course Number
2510

Department
Applied Sciences, Technology and Education

Course Title
Orientation to Family and Consumer Sciences Education

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides an overview of what is required to teach Family and Consumer Sciences Education in secondary schools.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

FCSE2520 - Managing FCCLA - 2 - Credits

Course Overview

Course Prefix
FCSE

Course Number
2520

Department
Applied Sciences, Technology and Education

Course Title
Managing FCCLA

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course is designed to teach students how to establish and operate an FCCLA Chapter in a secondary setting.

Credit Hours

Credit Hours Min:
2

Contact Hours

Contact Hours Min:
2

Billing Hours

Billing Hours Min:
2

Lecture Hours

Lecture Hours Min:
2

No Requirements

FCSE2700 - FCSE Housing and Interiors - 3 - Credits

Course Overview

Course Prefix
FCSE

Course Number
2700

Department
Applied Sciences, Technology and Education

Course Title
FCSE Housing and Interiors

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course emphasizes the identification and use of the elements and principles of design. Other topics include furniture arrangement basics, floor plan evaluation, space planning, and design-related careers as they relate to the associated high school courses taught in FCSE.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Admission to the Family and Consumer Sciences Education major

No Requirements

FCSE3030 - Textile Science (DSC/QI) - 4 - Credits

Course Overview

Course Prefix
FCSE

Course Number
3030

Department
Applied Sciences, Technology and Education

Course Title
Textile Science (DSC/QI)

General Education Attribute
DSC, QI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Study of fibers, yarns, fabric constructions, and finishes related to suitability for desired end uses. Use of mathematics and descriptive statistics for reporting and interpreting data collected from lab experiments. Lectures and laboratory.

Credit Hours

Credit Hours
Min:
4

Contact Hours

Contact Hours
Min:
4

Billing Hours

Billing Hours
Min:
4

Lecture Hours

Lecture Hours
Min:
4

Registration Restrictions
Admission to the Family and Consumer Sciences Education - Community-Based Emphasis - BS, Family and Consumer Sciences Education - School-Based Emphasis - BS, Outdoor Product Design and Development - BS, Advanced Fashion Studies - Certificate, Fashion Studies - Institutional Certificate of Proficiency

Other Enrollment Recommendations
It is recommended that students complete FCSE1040 INTRO SEWING OUTDOOR PRODUCTS before registering for this course.

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete at least 1 course in the following course sets:

- Quantitative Literacy (QL) Course

with a grade of C- or better

OR ACT Math: Score of 26 or higher

Required

Completion of at least 30 credits

FCSE3040 - Advanced Clothing Studies: Patternmaking - 3 - Credits

Course Overview

Course Prefix
FCSE

Course Number
3040

Department
Applied Sciences, Technology and Education

Course Title
Advanced Clothing Studies: Patternmaking

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students learn two methods of developing apparel patterns: flat pattern design and basic drafting. Students test these methods by constructing garments, culminating with the development of a design challenge.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- FCSE2040 - Intermediate Clothing Construction Skills, Principles, and Alterations

FCSE3080 - Fashion Studies and Society (DHA) - 3 - Credits

Course Overview

Course Prefix
FCSE

Course Number
3080

Department
Applied Sciences, Technology and Education

Course Title
Fashion Studies and Society (DHA)

General Education Attribute
DHA

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course explores the relationship between individuals, society, and dress practices. Students explore personal and societal uses of dress that are influenced by and are simultaneously influencing culture, history, economy, and environment. Students participate in a Community-Engaged Learning project.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete at least 1 course in the following course sets:

- Breadth Humanities (BHU) Course

FCSE3140 - Digital Patternmaking for Apparel - 3 - Credits

Course Overview

Course Prefix
FCSE

Course Number
3140

Department
Applied Sciences, Technology and Education

Course Title
Digital Patternmaking for Apparel

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course is focused on digital CAD software for design, grading, scaling, and development of apparel patterns.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- FCSE3040 - Advanced Clothing Studies: Patternmaking

FCSE3200 - Adult Responsibilities Methods - 3 - Credits

Course Overview

Course Prefix
FCSE

Course Number
3200

Department
Applied Sciences, Technology and Education

Course Title
Adult Responsibilities Methods

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course assists students preparing to teach Family and Consumer Sciences in developing an accurate understanding and awareness of teaching content related to the responsibilities of adulthood. The course fulfills the USBOE human sexuality and health methods requirement for teachers.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

FCSE3300 - Clinical Experience I - 1 - Credits

Course Overview

Course Prefix
FCSE

Course Number
3300

Department
Applied Sciences, Technology and Education

Course Title
Clinical Experience I

Grade Mode
Pass/Fail

Repeat Status
NR

Course Description
Clinical practicum (45 hours minimum) in middle or secondary schools, arranged by instructors and the Office of Field Experience in TEAL.

Credit Hours

Credit Hours Min:
1

Contact Hours

Contact Hours Min:
1

Billing Hours

Billing Hours Min:
1

Lecture Hours

Lecture Hours Min:
1

Registration Restrictions

Admission to Secondary Teacher Education Program (STEP).

Simple Requisites

Corequisite

Type
Corequisite

Required

Enroll in the following Courses:

- FCSE3400 - FCSE Methods I

FCSE3400 - FCSE Methods I - 3 - Credits

Course Overview

Course Prefix
FCSE

Course Number
3400

Department
Applied Sciences, Technology and Education

Course Title
FCSE Methods I

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students learn how to successfully plan and manage a family and consumer sciences classroom.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Admission to Teacher Education

Simple Requisites

Corequisite

Type
Corequisite

Required

Enroll in the following Courses:
- FCSE3300 - Clinical Experience I

FCSE3790 - Housing and Interior Design Teaching Methods - 3 - Credits

Course Overview

Course Prefix
FCSE

Course Number
3790

Department
Applied Sciences, Technology and Education

Course Title
Housing and Interior Design Teaching Methods

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course mirrors Utah's State Board of Education standards for housing and interior design. Students review housing and interior design content, and then generate teaching strategies appropriate for teaching that content at the high school level.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Admission to the Family and Consumer Sciences Education program

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:
- IAD1750 - Design in Everyday Living (BCA)

FCSE4000 - Early Childhood Education Internship - 3 - Credits

Course Overview

Course Prefix
FCSE

Course Number
4000

Department
Applied Sciences, Technology and Education

Course Title
Early Childhood Education Internship

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students learn how to legally operate a childcare center and help young children increase their skill development. Students complete an internship at a licensed early childhood educational facility in addition to completing assignments that correspond with this experience.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

FCSE4030 - Textiles and Technology - 3 - Credits

Course Overview

Course Prefix
FCSE

Course Number
4030

Department
Applied Sciences, Technology and Education

Course Title
Textiles and Technology

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students explore the qualities and properties of fibers that can be embedded in, integrated with, and applied to fabric construction for use in the outdoor industry. Textile innovations, smart textiles, and sustainable textiles are studied for deeper understanding and application.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- FCSE3030 - Textile Science (DSC/QI)

FCSE4040 - Advanced Apparel Studies - 3 - Credits

Course Overview

Course Prefix
FCSE

Course Number
4040

Department
Applied Sciences, Technology and Education

Course Title
Advanced Apparel Studies

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Concepts of fashion fundamentals and entry-level business related to fashion marketing are explored. Fundamentals covered include fashion concepts, application of design elements, principles, marketing terminology, fashion cycles, key components of the fashion industry, retail merchandise categories, and fashion promotion.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- FCSE3080 - Fashion Studies and Society (DHA)

FCSE4140 - Advanced Apparel Design - 3 - Credits

Course Overview

Course Prefix
FCSE

Course Number
4140

Department
Applied Sciences, Technology and Education

Course Title
Advanced Apparel Design

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students learn advanced design principles and techniques applied to the construction of apparel.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- FCSE3040 - Advanced Clothing Studies: Patternmaking

FCSE4210 - Cognition and Evaluation of Student Learning in Career and Teachnical Education - 3 - Credits

Course Overview

Course Prefix
FCSE

Course Number
4210

Department
Applied Sciences, Technology and Education

Cross-Listed Courses
ASTE4210 - Cognition and Evaluation of Student Learning in Career and Technical Education, BSED4210 - Cognition and Evaluation of Student Learning in Career and Technical Education, TEE4210 - Cognition and Evaluation of Student Learning in Career and Technical Education

Course Title
Cognition and Evaluation of Student Learning in Career and Teachnical Education

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides an overview of the various methods used to measure and evaluate student achievement within the cognitive, affective, and psychomotor domains with emphasis on performance-based, authentic assessment specific to the Career and Technical Education classroom.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Registration Restrictions
Admission to Teacher Education

FCSE4250 - Advanced Internship - 1 - 12 Credits

Course Overview

Course Prefix
FCSE

Course Number
4250

Department
Applied Sciences, Technology and Education

Course Title
Advanced Internship

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
Midmanagement-level experience in a position approved by the department. One credit earned for each 60 hours of experience.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
12

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
12

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
12

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
12

Lecture Hours Operator:
TO

Registration Restrictions
Junior standing

No Requirements

FCSE4300 - Clinical Experience II - 1 - Credits

Course Overview

Course Prefix
FCSE

Course Number
4300

Department
Applied Sciences, Technology and Education

Course Title
Clinical Experience II

Grade Mode
Pass/Fail

Repeat Status
NR

Course Description
Clinical practicum (45 hours minimum) in middle or secondary schools, arranged by instructors and the Office of Field Experience in TEAL.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Registration Restrictions
Admission to Teacher Education

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- FCSE3300 - Clinical Experience I

FCSE4400 - FCSE Methods II - 3 - Credits

Course Overview

Course Prefix
FCSE

Course Number
4400

Department
Applied Sciences, Technology and Education

Course Title
FCSE Methods II

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course explores the development of competency in curriculum planning and skill in using instructional strategies, resources, and assessment based on theories of learning and human development. Topics include instructional strategies, assessment, curriculum planning, program promotion, and professional development.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- FCSE3300 - Clinical Experience I
- FCSE3400 - FCSE Methods I

FCSE4900 - Independent Study - 1 - 5 Credits

Course Overview

Course Prefix
FCSE

Course Number
4900

Department
Applied Sciences, Technology and Education

Course Title
Independent Study

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Prior to registration, students must identify a project of interest and discuss the project with instructor.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
5

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
5

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
5

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
5

Lecture Hours Operator:
TO

Registration Restrictions
Junior standing and approval of faculty

Special Approval
Instructor permission

No Requirements

FCSE5500 - Student Teaching Seminar - 2 - Credits

Course Overview

Course Prefix
FCSE

Course Number
5500

Department
Applied Sciences, Technology and Education

Course Title
Student Teaching Seminar

Grade Mode
Pass/Fail

Repeat Status
NR

Course Description
This course consists of weekly contact with student teachers in their secondary education placements. It includes teaching plans, procedures, adaptive classroom practices, and evaluation.

Credit Hours

Credit Hours Min:
2

Contact Hours

Contact Hours Min:
2

Billing Hours

Billing Hours Min:
2

Lecture Hours

Lecture Hours Min:
2

Simple Requisites

Corequisite

Type
Corequisite

Required

Enroll in the following Courses:

- FCSE5630 - Student Teaching in Secondary Schools

Prerquisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- FCSE4300 - Clinical Experience II
- FCSE4400 - FCSE Methods II

FCSE5550 - Continuing Education in Family and Consumer Sciences Education - 0.5 - 3 Credits

Course Overview

Course Prefix
FCSE

Course Number
5550

Department
Applied Sciences, Technology and Education

Course Title
Continuing Education in Family and Consumer Sciences Education

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Concentrated offerings to increase knowledge, skills, or creative expression in current Family and Consumer Sciences Education topics or curriculum areas.

Credit Hours

Credit Hours Min:
0.5

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
0.5

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
0.5

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
0.5

Lecture Hours Max:
3

Lecture Hours Operator:
TO

FCSE5630 - Student Teaching in Secondary Schools - 10 - Credits

Course Overview

Course Prefix
FCSE

Course Number
5630

Department
Applied Sciences, Technology and Education

Course Title
Student Teaching in Secondary Schools

Grade Mode
Pass/Fail

Repeat Status
NR

Course Description
After assignment to a cooperating family and consumer sciences educator, students are given professional responsibilities associated with teaching.

Credit Hours

Credit Hours Min:
10

Contact Hours

Contact Hours Min:
10

Billing Hours

Billing Hours Min:
10

Lecture Hours

Lecture Hours Min:
10

Simple Requisites

Corequisite

Type
Corequisite

Required

Enroll in the following Courses:

- FCSE5500 - Student Teaching Seminar

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- FCSE4300 - Clinical Experience II

- FCSE4400 - FCSE Methods II

FCSE6340 - Curriculum Development, Testing, and Evaluation - 3 - Credits

Course Overview

Course Prefix
FCSE

Course Number
6340

Department
Applied Sciences, Technology and Education

Course Title
Curriculum Development, Testing, and Evaluation

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Examines current trends in curriculum and program development related to specific educational outcomes. Includes curriculum development process.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Repeatable for Credit:
2

No Requirements

FILM1010 - Foundations in Film Studies - 3 - Credits

Course Overview

Course Prefix
FILM

Course Number
1010

Department
Art and Design

Course Title
Foundations in Film Studies

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers an overview of key histories, methodologies and concepts in film studies and investigates aesthetic, stylistic, political, and theoretical approaches to the study of cinema. Students explore Expressionism, the French New Wave, Neo-Realism, and Third Cinema.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Admission to one of the following:

- Art majors
- Art History majors
- Art History minors
- Film minors

FILM3010 - The Landscape in Cinema - 3 - Credits

Course Overview

Course Prefix
FILM

Course Number
3010

Department
Art and Design

Course Title
The Landscape in Cinema

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course is designed as an investigation into the nature and history of cinematic representations of the landscape from the 1890s until the present day.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Course Learning Objectives

Course Learning Outcomes

1. Build knowledge of film history and language and methods of film analysis.

2. Develop written and oral communication skills.

3. Develop critical thinking for the analysis of visual and textual evidence.

4. Gaining factual knowledge.

5. Gaining a broader understanding & appreciation of intellectual/cultural activity.

6. Developing skills in expressing oneself orally or in writing.

FILM3210 - Classics and Cinema (CI/DHA) - 3 - Credits

Course Overview

Course Prefix
FILM

Course Number
3210

Department
Art and Design

Course Title
Classics and Cinema (CI/DHA)

General Education Attribute
CI, DHA

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
In this course, students explore modern representations of ancient Greece and Rome in film. Students analyze cinematic visions against primary sources in art and literature to explore the potential for Classical Reception and Classical Tradition in video games.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Build knowledge of art historical, new media, and filmic material, vocabulary, & methods.

2. Develop written and oral communication skills.

3. Develop critical thinking for the analysis of visual and textual evidence.

4. Gaining factual knowledge.

5. Gaining a broader understanding & appreciation of intellectual/cultural activity.

6. Developing skills in expressing oneself orally and in writing.

FILM3220 - Classics and Videogames (CI/DHA) - 3 - Credits

Course Overview

Course Prefix
FILM

Course Number
3220

Department
Art and Design

Course Title
Classics and Videogames (CI/DHA)

General Education Attribute
CI, DHA

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
In this course, students explore modern representations of ancient Greece and Rome in video games. Students analyze pixelated visions against primary sources in art, literature, and cinema to explore the potential for Classical Reception and Classical Tradition in video games.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Admission to an Art - BA, Art - BS, Art - MFA program or the Art History - BA program or the Art - Minor, Art History - Minor, or Film Studies - Minor

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ANY of the following Courses:

- ARTH2710 - Survey of Western Art: Prehistoric to Medieval (BHU)
- ARTH2720 - Survey of Western Art: Renaissance to Post-Modern (BHU)

Course Learning Objectives

Course Learning Outcomes
1. Build knowledge of art historical, new media, and filmic material, vocabulary, & methods.
2. Develop written and oral communication skills.
3. Develop critical thinking for the analysis of visual and textual evidence.
4. Gaining a broader understanding & appreciation of intellectual/cultural activity.
5. Gaining factual knowledge.
6. Developing skills in expressing oneself orally and in writing.

FILM3300 - The African American Cinematic Experience (CI) - 3 - Credits

Course Overview

Course Prefix
FILM

Course Number
3300

Department
Art and Design

Course Title
The African American Cinematic Experience (CI)

General Education Attribute
CI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
From the earliest days of Hollywood through the Race Movies of the 1920s and 1930s and on to the contemporary scene, this course will examine the African American cinematic experience in its myriad of social, political and cultural contexts.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

FILM3310 - Italian Cinema - 3 - Credits

Course Overview

Course Prefix
FILM

Course Number
3310

Department
Art and Design

Course Title
Italian Cinema

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides a history and overview of the Italian cinema from the early silent years to the 21st century.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

FILM3320 - American Apocalypse: Disaster and Dystopia in Hollywood Film (CI) - 3 - Credits

Course Overview

Course Prefix
FILM

Course Number
3320

Department
Art and Design

Course Title
American Apocalypse: Disaster and Dystopia in Hollywood Film (CI)

General Education Attribute
CI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Examination of Hollywood films dealing with apocalypse scenarios through war, famine, disease, alien invasion, religious rapture, etc.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

FILM3330 - The Documentary (CI) - 3 - Credits

Course Overview

Course Prefix
FILM

Course Number
3330

Department
Art and Design

Course Title
The Documentary (CI)

General Education Attribute
CI

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Examination of history of documentary filmmaking, along with multiple forms of the genre (ie. newsreel, romantic, verite, propaganda etc.)

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

FILM3340 - The New Hollywood: American New Wave Cinema of the 1970s (CI/DHA) - 3 - Credits

Course Overview

Course Prefix
FILM

Course Number
3340

Department
Art and Design

Course Title
The New Hollywood: American New Wave Cinema of the 1970s (CI/DHA)

General Education Attribute
CI, DHA

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course covers the history of the "New Hollywood" American cinema that emerged in the late 1960s and lasted through the end of the 1970s.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Build knowledge of filmic history, vocabulary, and methods.

2. Develop written and oral communication skills.

3. Develop critical thinking for the analysis of visual and textual evidence.

4. Gaining factual knowledge.

5. Gaining broader understanding & appreciation of intellectual/cultural activity.

6. Developing skills in expressing oneself orally or in writing.

FILM3350 - British Cinema of the 1960s (CI) - 3 - Credits

Course Overview

Course Prefix
FILM

Course Number
3350

Department
Art and Design

Course Title
British Cinema of the 1960s (CI)

General Education Attribute
CI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course is an examination of films, directors, and actors in British film of the 1960s whose work embodies the shifting sensibilities of a new social order in which British cinema culture reflected a new vitality, dynamism, and confidence.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

FILM3360 - Bad Cinema - 3 - Credits

Course Overview

Course Prefix
FILM

Course Number
3360

Department
Art and Design

Course Title
Bad Cinema

General Education Attribute
CI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course analyzes some of the very worst movies ever made with the conviction that bad films are just as worthy of academic study, and revealing of the culture that produced them, as great films.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

FILM3370 - Film Genres (CI) - 3 - Credits

Course Overview

Course Prefix
FILM

Course Number
3370

Department
Art and Design

Course Title
Film Genres (CI)

General Education Attribute
CI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course is an in-depth investigation of the history, structure, and audience-appeal of multiple film genres. It also examines the emergence of sub-genres and more recent developments in film series and franchises.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

FILM3410 - Cinema in the American South - 3 - Credits

Course Overview

Course Prefix
FILM

Course Number
3410

Department
Art and Design

Course Title
Cinema in the American South

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course teaches the history of films depicting the American South. Through film, students learn about the tragic history and dynamic culture of the American South, as represented and misrepresented in cinema.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Course Learning Objectives

Course Learning Outcomes
1. Build knowledge of filmic history, vocabulary, and methods.

2. Develop written and oral communication skills.

3. Develop critical thinking for the analysis of visual and textual evidence.

4. Gaining factual knowledge.

5. Gaining broader understanding & appreciation of intellectual/cultural activity.

6. Developing skills in expressing oneself orally or in writing.

FILM3440 - Latinx Film - 3 - Credits

Course Overview

Course Prefix
FILM

Course Number
3440

Department
Art and Design

Course Title
Latinx Film

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course teaches the history of film made by, for, and/or about Americans of Latin American descent. Through film, students learn about the American experience through the lens of Latinx issues and concepts.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

FILM4850 - Introduction to Film Theory (CI) - 3 - Credits

Course Overview

Course Prefix
FILM

Course Number
4850

Department
Art and Design

Course Title
Introduction to Film Theory (CI)

General Education Attribute
CI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Introductory survey of major theoretical and critical approaches to the study of film.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Special Approval

Instructor permission

No Requirements

FIN1010 - An Introduction to Behavioral Finance and Economics (BSS) - 3 - Credits

Course Overview

Course Prefix
FIN

Course Number
1010

Department
Economics and Finance

Course Title
An Introduction to Behavioral Finance and Economics (BSS)

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
The primary objective of this course is to provide an introduction to behavioral finance and economics. Topics covered include behavioral biases and psychological factors that affect both economic and financial decision making.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

FIN2000 - Careers in Finance - 1 - Credits

Course Overview

Course Prefix
FIN

Course Number
2000

Department
Economics and Finance

Course Title
Careers in Finance

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course helps students explore and prepare for careers in finance. Students explore potential career paths and develop an action plan to work toward their career goals in school.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

FIN2250 - Finance Professional Development - 1 - Credits

Course Overview

Course Prefix
FIN

Course Number
2250

Department
Economics and Finance

Course Title
Finance Professional Development

Grade Mode
Pass/Fail

Repeat Status
NR

Course Description
Students develop professional knowledge and skills through internships, international programs, work experience, and competitions.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Course Learning Objectives

Course Learning Outcomes
Students develop professional knowledge and skills through internships, international programs, work experience, and competitions.

FIN3020 - Essentials of Financial Modeling - 2 - Credits

Course Overview

Course Prefix
FIN

Course Number
3020

Department
Economics and Finance

Course Title
Essentials of Financial Modeling

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces students to corporate financial statements for valuation purposes and develop skills related to modeling, forecasting, and interpreting financial data and information.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

FIN3030 - Introduction to Venture Capital - 1 - Credits

Course Overview

Course Prefix
FIN

Course Number
3030

Department
Economics and Finance

Course Title
Introduction to Venture Capital

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces students to basic tools and concepts utilized by venture capital investors. The course includes an overview of the venture capital industry, industry and company analysis, basic modeling, legal structure of investments, and training/usage of related research databases.

Credit Hours

Credit Hours Min:
1

Contact Hours

Contact Hours Min:
1

Billing Hours

Billing Hours Min:
1

Lecture Hours

Lecture Hours Min:
1

FIN3200 - Corporate Finance (QI) - 3 - Credits

Course Overview

Course Prefix
FIN

Course Number
3200

Department
Economics and Finance

Course Title
Corporate Finance (QI)

General Education Attribute
QI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course concentrates on developing tools for financial managers. It covers topics in corporate finance, such as the time value of money, risk analysis, capital budgeting, financial statement analysis, financial securities, and financial markets and institutions.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

FIN3250 - Excel for Finance - 3 - Credits

Course Overview

Course Prefix
FIN

Course Number
3250

Department
Economics and Finance

Course Title
Excel for Finance

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers applications of Microsoft Excel for Finance.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- FIN3200 - Corporate Finance (QI)

Course Learning Objectives

Course Learning Outcomes

Understand Excel functions.

FIN3300 - Investments - 3 - Credits

Course Overview

Course Prefix
FIN

Course Number
3300

Department
Economics and Finance

Course Title
Investments

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course focuses on the relationship between risk and return, the valuation of financial assets, such as stocks and bonds, financial markets, trading, and the investment decision-making process.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- FIN3200 - Corporate Finance (QI)

FIN3500 - Real Estate Finance - 3 - Credits

Course Overview

Course Prefix
FIN

Course Number
3500

Department
Economics and Finance

Course Title
Real Estate Finance

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers the theory, principles, and techniques of real estate investment, emphasizing present value and cash-flow approaches to real estate investment decisions.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- FIN3200 - Corporate Finance (QI)

FIN4200 - Intermediate Corporate Finance - 3 - Credits

Course Overview

Course Prefix
FIN

Course Number
4200

Department
Economics and Finance

Course Title
Intermediate Corporate Finance

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course expands the core finance topics and provides a more in-depth coverage of various corporate finance principles, such as advanced capital budgeting, working capital management, costs of capital, capital structure choice, risk/return analysis, and project valuation.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- FIN3200 - Corporate Finance (QI)

FIN4250 - Finance Internship - 1 - 9 Credits

Course Overview

Course Prefix
FIN

Course Number
4250

Department
Economics and Finance

Course Title
Finance Internship

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
This course provides finance internship experience in a career-related position approved by the Department of Economics and Finance.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
9

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
9

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
9

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
9

Lecture Hours Operator:
TO

Registration Restrictions
Admission to the Finance major

Special Approval
Instructor permission

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- FIN3200 - Corporate Finance (QI)

FIN4300 - International Finance - 3 - Credits

Course Overview

Course Prefix
FIN

Course Number
4300

Department
Economics and Finance

Course Title
International Finance

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course presents an overview of international financial management, including international financial markets, exchange rate behavior, and financing international trade.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- FIN3200 - Corporate Finance (QI)

FIN4410 - Financial Institutions - 3 - Credits

Course Overview

Course Prefix
FIN

Course Number
4410

Department
Economics and Finance

Course Title
Financial Institutions

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers the role of domestic and international financial institutions in supplying services to consumers, businesses and governments.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- FIN3200 - Corporate Finance (QI)

FIN4420 - Risk Management and Insurance - 3 - Credits

Course Overview

Course Prefix
FIN

Course Number
4420

Department
Economics and Finance

Course Title
Risk Management and Insurance

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course examines the different ways risk can be assessed, managed, and minimized. Introduces risk management tools and techniques, explores the role of insurance within the larger risk management framework, and details different strategies and products related to insurance.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- FIN3200 - Corporate Finance (QI)

FIN4450 - Advanced Corporate Finance - 3 - Credits

Course Overview

Course Prefix
FIN

Course Number
4450

Department
Economics and Finance

Course Title
Advanced Corporate Finance

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course augments and extends the basic equity valuation material in corporate finance to the specific and complex setting of valuing equity securities. It covers valuation models (e.g., dividend discount model) as well as multiples and technical approaches.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- FIN4200 - Intermediate Corporate Finance

FIN4460 - Intermediate Investments - 3 - Credits

Course Overview

Course Prefix
FIN

Course Number
4460

Department
Economics and Finance

Course Title
Intermediate Investments

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides an understanding of security analysis and portfolio management. It includes market operations; risk and return; stock, bond, and option analysis; and portfolio theory and creation.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- FIN3200 - Corporate Finance (QI)

FIN4490 - Alternative Investments - 3 - Credits

Course Overview

Course Prefix
FIN

Course Number
4490

Department
Economics and Finance

Course Title
Alternative Investments

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Focuses on alternative investments, which may include hedge funds, private equity, venture capital, distressed assets, commodities, real property, and tangible assets. The class also examines the interplay between alternative investment vehicles, financial institutions, and markets.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- FIN3300 - Investments

FIN4495 - Investment Banking - 3 - Credits

Course Overview

Course Prefix
FIN

Course Number
4495

Department
Economics and Finance

Course Title
Investment Banking

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Focuses on the organizational structure of investment banking firms, products, risks, earnings, regulations, innovations, and competition. Analyzes banking, sales, and trading, along with other investment banking activities. Reviews innovative Wall Street securities and advisory products.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- FIN3200 - Corporate Finance (QI)

FIN4530 - Urban Economics - 3 - Credits

Course Overview

Course Prefix
FIN

Course Number
4530

Department
Economics and Finance

Course Title
Urban Economics

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces students to urban economics and real estate research. Students examine the fundamental principles associated with urban economics and learn about market-based research focused on real estate.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- FIN3500 - Real Estate Finance

may be taken concurrently

Course Learning Objectives

Course Learning Outcomes

1. Students will examine the fundamental principles associated with urban finance and economics and learn about market-based research focused on real estate.
2. Introduce students to urban finance and economics

FIN4540 - Real Estate Valuation - 3 - Credits

Course Overview

Course Prefix
FIN

Course Number
4540

Department
Economics and Finance

Course Title
Real Estate Valuation

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students learn valuation methods associated with different real estate asset classes and property types.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- FIN3500 - Real Estate Finance

may be taken concurrently

FIN4550 - Real Estate Development - 3 - Credits

Course Overview

Course Prefix
FIN

Course Number
4550

Department
Economics and Finance

Course Title
Real Estate Development

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces students to real estate development. Students learn about the different stages of real estate development including acquisition, entitlement, modeling, forecasting, estimating, construction management, property management, and disposition.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- FIN3500 - Real Estate Finance

may be taken concurrently

FIN4560 - Cases in Real Estate - 3 - Credits

Course Overview

Course Prefix
FIN

Course Number
4560

Department
Economics and Finance

Course Title
Cases in Real Estate

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Topics and cases presented may cover both residential and commercial real estate and include content related to underwriting, modeling, raising capital, developing, designing, valuation techniques, urban planning, and entitlements.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- FIN3500 - Real Estate Finance

may be taken concurrently

FIN4570 - Financial Modeling for Real Estate - 3 - Credits

Course Overview

Course Prefix
FIN

Course Number
4570

Department
Economics and Finance

Course Title
Financial Modeling for Real Estate

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course focuses on financial models used in real estate. Students develop and build models for various real estate projects and differing asset types.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- FIN3500 - Real Estate Finance

Course Learning Objectives

Course Learning Outcomes

1. Students will be able to interpret the modeling results and make judgments about the valuations of different projects.
2. Students will become competent in models in various spreadsheet software programs.
3. Students will develop comprehensive valuation models for a variety of real estate investment projects.

FIN4590 - Special Topics in Real Estate - 3 - Credits

Course Overview

Course Prefix
FIN

Course Number
4590

Department
Economics and Finance

Course Title
Special Topics in Real Estate

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course explores advanced topics in real estate. Course content varies by term and instructor, allowing students to explore topics not covered in regularly scheduled courses. Emphasis is placed on critical analysis, application of foundational concepts, and professional communication.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Course Learning Objectives

Course Learning Outcomes

1. Students will engage critically with advanced, real estate-specific topics
2. Students will present analyses, assignments, or project work in clear written and/or oral formats appropriate to the topic, audience, and professional context.
3. Students will apply foundational principles in real estate to real-world projects, cases, and scenarios.

FIN4900 - Independent Research and Readings - 1 - 3 Credits

Course Overview

Course Prefix
FIN

Course Number
4900

Department
Economics and Finance

Course Title
Independent Research and Readings

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course allows undergraduate students to pursue personal research interests by formalizing an independent project under the guidance of a professor or faculty mentor.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

Special Approval
Instructor Approval

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete the following:
GPA of 2.5 and at least 40 earned credits

FIN4950 - Senior Honors Thesis/Project - 3 - Credits

Course Overview

Course Prefix
FIN

Course Number
4950

Department
Economics and Finance

Course Title
Senior Honors Thesis/Project

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
.Creative project that will then be written up, and presented, as a Senior Thesis as required for an Honors Plan.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete the following::
GPA of 2.5 and at least 40 earned credits

FIN5000 - Advanced Investment Analysis - 3 - Credits

Course Overview

Course Prefix
FIN

Course Number
5000

Department
Economics and Finance

Course Title
Advanced Investment Analysis

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students learn advanced analysis of equity investments. Traditional methods of analysis as well as various asset pricing strategies are covered. The course also includes fundamental and statistical analyses used by industry professionals and topics in portfolio theory.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- FIN3300 - Investments

FIN5025 - Fixed Income - 3 - Credits

Course Overview

Course Prefix
FIN

Course Number
5025

Department
Economics and Finance

Dual-Listed Courses
FIN6025 - Fixed Income

Course Title
Fixed Income

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Course topics include interest rates, term structure, risk, valuation, and credit analysis of the major market segments (treasuries, corporates, asset-backed and international bonds). Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ANY of the following Courses:

- FIN3200 - Corporate Finance (QI)
  OR FIN3020 - Essentials of Financial Modeling

FIN5050 - Financial Tax Planning - 3 - Credits

Course Overview

Course Prefix
FIN

Course Number
5050

Department
Economics and Finance

Dual-Listed Courses
FIN6050 - Financial Tax Planning

Course Title
Financial Tax Planning

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course examines the tax implications related to investments and financial planning. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- FIN3300 - Investments

FIN5060 - Introduction to Personal Financial Planning - 3 - Credits

Course Overview

Course Prefix
FIN

Course Number
5060

Department
Economics and Finance

Dual-Listed Courses
FIN6060 - Introduction to Personal Financial Planning

Course Title
Introduction to Personal Financial Planning

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers fundamental concepts and principles of personal financial planning for individuals. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

FIN5070 - Retirement Planning - 3 - Credits

Course Overview

Course Prefix
FIN

Course Number
5070

Department
Economics and Finance

Dual-Listed Courses
FIN6070 - Retirement Planning

Course Title
Retirement Planning

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers concepts and principles of retirement planning, including retirement and benefit plans, deferred compensation, and investments. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ACCT5030 - Individual Taxation
- FIN5060 - Introduction to Personal Financial Planning

FIN5075 - Personal Financial Planning Practicum - 1.5 - Credits

Course Overview

Course Prefix
FIN

Course Number
5075

Department
Economics and Finance

Dual-Listed Courses
FIN6075 - Personal Financial Planning Practicum

Course Title
Personal Financial Planning Practicum

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course gives students practical experience in personal financial planning. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
1.5

Contact Hours

Contact Hours
Min:
1.5

Billing Hours

Billing Hours
Min:
1.5

Lecture Hours

Lecture Hours
Min:
1.5

Special Approval
Instructor permission

Course Learning Objectives

Course Learning Outcomes
Students will work through the financial planning process with clients.

FIN5080 - Estate Planning - 3 - Credits

Course Overview

Course Prefix
FIN

Course Number
5080

Department
Economics and Finance

Dual-Listed Courses
FIN6080 - Estate Planning

Course Title
Estate Planning

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers concepts and principles of estate planning for individuals, including goal identification, data gathering, forms of property ownership, documents, probate, and transfer taxes. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ACCT5010 - Intermediate Financial Accounting and Reporting II
- FIN5060 - Introduction to Personal Financial Planning

FIN5090 - Personal Financial Plans - 3 - Credits

Course Overview

Course Prefix
FIN

Course Number
5090

Department
Economics and Finance

Dual-Listed Courses
FIN6090 - Capstone in Personal Financial Planning

Course Title
Personal Financial Plans

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides a capstone experience in personal financial planning. Knowledge from other financial planning courses is used to prepare comprehensive personal financial plans. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ACCT5030 - Individual Taxation
- FIN5060 - Introduction to Personal Financial Planning

FIN5100 - Financial Markets and Trading - 3 - Credits

Course Overview

Course Prefix
FIN

Course Number
5100

Department
Economics and Finance

Dual-Listed Courses
FIN6100 - Financial Markets and Trading

Course Title
Financial Markets and Trading

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course focuses on the functionality of financial markets, including how financial markets are structured, the externalities associated with speculation and liquidity provision within these markets, measurement of transaction costs, and the origin of liquidity and volatility. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:
- FIN3300 - Investments

FIN5110 - Algorithmic Trading - 3 - Credits

Course Overview

Course Prefix
FIN

Course Number
5110

Department
Economics and Finance

Dual-Listed Courses
FIN6110 - Algorithmic Trading

Course Title
Algorithmic Trading

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course addresses the prominence of electronic trading that occurs on financial markets and explores the automation of trading strategies through different methods and platforms. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:
- FIN3300 - Investments

FIN5120 - Cryptocurrencies and FinTech - 3 - Credits

Course Overview

Course Prefix
FIN

Course Number
5120

Department
Economics and Finance

Dual-Listed Courses
FIN6120 - Cryptocurrencies and FinTech

Course Title
Cryptocurrencies and FinTech

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course explores recent innovations that combine finance and technology, such as the cryptocurrency Bitcoin. Students further investigate the world of cryptocurrencies and other innovations in financial technology. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- FIN3200 - Corporate Finance (QI)

FIN5250 - Banking Administration and Regulation - 3 - Credits

Course Overview

Course Prefix
FIN

Course Number
5250

Department
Economics and Finance

Course Title
Banking Administration and Regulation

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers the administration, operations, and regulation of banks, bank holding companies, thrifts, and other government-insured financial institutions. Specific topics include banking regulation, the lending function of banks, investments available to banks, and financial decision-making processes in bank settings.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- FIN4410 - Financial Institutions

FIN5275 - Equity Investment Practicum - 1.5 - Credits

Course Overview

Course Prefix
FIN

Course Number
5275

Department
Economics and Finance

Dual-Listed Courses
FIN6275 - Equity Investment Practicum

Course Title
Equity Investment Practicum

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Students manage an actual portfolio. Topics include portfolio management and security analysis within the current macroeconomic context. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours Min:
1.5

Contact Hours

Contact Hours Min:
1.5

Billing Hours

Billing Hours Min:
1.5

Lecture Hours

Lecture Hours Min:
1.5

Special Approval
Instructor Approval

FIN5350 - Financial Modeling - 3 - Credits

Course Overview

Course Prefix
FIN

Course Number
5350

Department
Economics and Finance

Course Title
Financial Modeling

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course helps students understand how financial models are used in different areas of finance. Students develop models in a variety of financial settings and see how different techniques can be applied to a diverse set of problems.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- FIN3200 - Corporate Finance (QI)

FIN5375 - Trading Practicum - 1.5 - Credits

Course Overview

Course Prefix
FIN

Course Number
5375

Department
Economics and Finance

Course Title
Trading Practicum

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Students develop, test, and implement trading strategies using a variety of financial assets and methods. Students gain practical experience related to the trading of financial securities and markets.

Credit Hours

Credit Hours
Min:
1.5

Contact Hours

Contact Hours
Min:
1.5

Billing Hours

Billing Hours
Min:
1.5

Lecture Hours

Lecture Hours
Min:
1.5

Special Approval

Advisor approval

FIN5440 - Cases in Finance - 3 - Credits

Course Overview

Course Prefix
FIN

Course Number
5440

Department
Economics and Finance

Course Title
Cases in Finance

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers advanced topics in finance. Exact topics depend on the instructor and may include investments, corporate finance, real estate, and insurance.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- FIN4200 - Intermediate Corporate Finance

FIN5475 - Fixed Income Practicum - 1.5 - Credits

Course Overview

Course Prefix
FIN

Course Number
5475

Department
Economics and Finance

Dual-Listed Courses
FIN6475 - Fixed Income Practicum

Course Title
Fixed Income Practicum

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
In this course, students manage an actual portfolio of fixed income securities. Topics studied include portfolio management and security analysis within the current macroeconomic context. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
1.5

Contact Hours

Contact Hours
Min:
1.5

Billing Hours

Billing Hours
Min:
1.5

Lecture Hours

Lecture Hours
Min:
1.5

Special Approval

Instructor Approval

FIN5480 - Derivatives Markets - 3 - Credits

Course Overview

Course Prefix
FIN

Course Number
5480

Department
Economics and Finance

Dual-Listed Courses
FIN6480 - Derivatives Markets

Course Title
Derivatives Markets

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course is an introduction to derivative securities, the markets in which they trade, and applications in hedging and speculation. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- FIN3200 - Corporate Finance (QI)
- ECON3000 - Quantitative Methods in Economics
  OR STAT1040 - Introduction to Statistics (QL)
  OR STAT1080 - Foundations of Data Science (QL)
  OR STAT2000 - Statistical Methods (QI)
  OR STAT2300 - Business Statistics (QL)
  OR STAT3000 - Statistics for Scientists (QI)
  OR DATA3100 - Making Decisions with Data
  OR PSY3010 - Psychological Statistics (QI)

FIN5575 - Real Estate Practicum - 1.5 - Credits

Course Overview

Course Prefix
FIN

Course Number
5575

Department
Economics and Finance

Course Title
Real Estate Practicum

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Students obtain practical experience related to careers in real estate. Students evaluate the costs and benefits of current and potential real estate investments. Students work with corporate partners to see how potential real estate projects go from concept to reality.

Credit Hours

Credit Hours Min:
1.5

Contact Hours

Contact Hours Min:
1.5

Billing Hours

Billing Hours Min:
1.5

Lecture Hours

Lecture Hours Min:
1.5

Special Approval
Advisor approval

FIN5600 - Introduction to Financial Economics - 3 - Credits

Course Overview

Course Prefix
FIN

Course Number
5600

Department
Economics and Finance

Course Title
Introduction to Financial Economics

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides an introduction to the development of the present system of money, banking, and financial institutions. Topics studied include analysis of central bank policy, capital markets, speculative markets, and portfolio theory.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- FIN3200 - Corporate Finance (QI)

FIN5700 - Portfolio Management - 3 - Credits

Course Overview

Course Prefix
FIN

Course Number
5700

Department
Economics and Finance

Dual-Listed Courses
FIN6700 - Portfolio Management

Course Title
Portfolio Management

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
In this course, students use the tools of modern portfolio theory to construct and evaluate a portfolio of assets. The course also covers single and multifactor models, quantitative investment strategies, and multiperiod investment problems. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- FIN3200 - Corporate Finance (QI)

FIN5750 - Equity Investment Strategies - 3 - Credits

Course Overview

Course Prefix
FIN

Course Number
5750

Department
Economics and Finance

Dual-Listed Courses
FIN6750 - Equity Investment Strategies

Course Title
Equity Investment Strategies

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course focuses on developing and testing the performance of investment strategies in equity markets. Students primarily use stock and financial reporting data to develop investing strategies and use statistical software to evaluate their risks and performance. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- FIN3300 - Investments
- ECON3000 - Quantitative Methods in Economics
  OR DATA3100 - Making Decisions with Data
  OR STAT2300 - Business Statistics (QL)

Course Learning Objectives

Course Learning Outcomes

1. Students will use stock and financial reporting data, as well as other data sources, to develop investing strategies and use statistical software to evaluate their risks and performance.
2. The focus of this course is developing and testing the performance of investment strategies, principally equity markets, taking the perspective of an institutional portfolio manager and considering the efficacy of characteristic (e.g. size, value/ growth, etc.) investing, arbitrage and its limits, macroeconomic investing, and other active investment strategies

FIN5800 - Financial Analysis - 3 - Credits

Course Overview

Course Prefix
FIN

Course Number
5800

Department
Economics and Finance

Dual-Listed Courses
FIN6800 - Financial Analysis

Course Title
Financial Analysis

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Topics include ethical and professional standards, quantitative methods, economics, financial reporting and analysis, corporate finance, portfolio management, equity, fixed income, derivatives and alternative investments. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- FIN3200 - Corporate Finance (QI)

FIN6010 - Solving Financial Problems - 3 - Credits

Course Overview

Course Prefix
FIN

Course Number
6010

Department
Economics and Finance

Course Title
Solving Financial Problems

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This corporate finance case course explores problems in working capital management, capital budgeting, cost of capital problems, and corporate restructuring.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

FIN6025 - Fixed Income - 3 - Credits

Course Overview

Course Prefix
FIN

Course Number
6025

Department
Economics and Finance

Dual-Listed Courses
FIN5025 - Fixed Income

Course Title
Fixed Income

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Course topics include interest rates, term structure, risk, valuation, and credit analysis of the major market segments (treasuries, corporates, asset-backed and international bonds). Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Admission to the Master of Financial Economics - MFE graduate program

FIN6050 - Financial Tax Planning - 3 - Credits

Course Overview

Course Prefix
FIN

Course Number
6050

Department
Economics and Finance

Dual-Listed Courses
FIN5050 - Financial Tax Planning

Course Title
Financial Tax Planning

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course examines the tax implications related to investments and financial planning. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- FIN3300 - Investments

FIN6060 - Introduction to Personal Financial Planning - 3 - Credits

Course Overview

Course Prefix
FIN

Course Number
6060

Department
Economics and Finance

Dual-Listed Courses
FIN5060 - Introduction to Personal Financial Planning

Course Title
Introduction to Personal Financial Planning

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers fundamental concepts and principles of personal financial planning for individuals. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

FIN6070 - Retirement Planning - 3 - Credits

Course Overview

Course Prefix
FIN

Course Number
6070

Department
Economics and Finance

Dual-Listed Courses
FIN5070 - Retirement Planning

Course Title
Retirement Planning

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers concepts and principles of retirement planning, including retirement and benefit plans, deferred compensation, and investments. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ACCT3520 - Individual Taxation
- FIN5060 - Introduction to Personal Financial Planning
  OR FIN6060 - Introduction to Personal Financial Planning

FIN6075 - Personal Financial Planning Practicum - 1.5 - Credits

Course Overview

Course Prefix
FIN

Course Number
6075

Department
Economics and Finance

Dual-Listed Courses
FIN5075 - Personal Financial Planning Practicum

Course Title
Personal Financial Planning Practicum

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course gives students practical experience in personal financial planning. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
1.5

Contact Hours

Contact Hours
Min:
1.5

Billing Hours

Billing Hours
Min:
1.5

Lecture Hours

Lecture Hours
Min:
1.5

Special Approval
Instructor Approval

Course Learning Objectives

Course Learning Outcomes
Students will work through the financial planning process with clients.

FIN6080 - Estate Planning - 3 - Credits

Course Overview

Course Prefix
FIN

Course Number
6080

Department
Economics and Finance

Dual-Listed Courses
FIN5080 - Estate Planning

Course Title
Estate Planning

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers concepts and principles of estate planning for individuals, including goal identification, data gathering, forms of property ownership, documents, probate, and transfer taxes. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Other Enrollment Recommendations
ACCT5520 INDIVIDUAL TAXATION and FIN5060 INTRO PERSONAL FIN PLANNING or FIN6060 INTRO PERSONAL FIN PLANNING

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ACCT3520 - Individual Taxation
- FIN5060 - Introduction to Personal Financial Planning
  OR FIN6060 - Introduction to Personal Financial Planning

FIN6090 - Capstone in Personal Financial Planning - 3 - Credits

Course Overview

Course Prefix
FIN

Course Number
6090

Department
Economics and Finance

Dual-Listed Courses
FIN5090 - Personal Financial Plans

Course Title
Capstone in Personal Financial Planning

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides a capstone experience in personal financial planning. Knowledge from other financial planning courses is used to prepare comprehensive personal financial plans. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ACCT5030 - Individual Taxation
- FIN5060 - Introduction to Personal Financial Planning
  OR FIN6060 - Introduction to Personal Financial Planning

FIN6095 - Economic and Financial Forecasting - 3 - Credits

Course Overview

Course Prefix
FIN

Course Number
6095

Department
Economics and Finance

Dual-Listed Courses
FIN5095 - Economic and Financial Forecasting (Inactive)

Course Title
Economic and Financial Forecasting

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
The course covers advanced time series forecasting methods using statistical models. In addition, the course introduces a variety of deep learning methods that will be useful in developing more accurate forecasts. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ECON5090 - Machine Learning in Economics and Finance
  OR ECON6090 - Machine Learning in Economics and Finance

FIN6100 - Financial Markets and Trading - 3 - Credits

Course Overview

Course Prefix
FIN

Course Number
6100

Department
Economics and Finance

Dual-Listed Courses
FIN5100 - Financial Markets and Trading

Course Title
Financial Markets and Trading

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course focuses on the functionality of financial markets, including how financial markets are structured, the externalities associated with speculation and liquidity provision within these markets, measurement of transaction costs, and the origin of liquidity and volatility. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Graduate Standing

FIN6110 - Algorithmic Trading - 3 - Credits

Course Overview

Course Prefix
FIN

Course Number
6110

Department
Economics and Finance

Dual-Listed Courses
FIN5110 - Algorithmic Trading

Course Title
Algorithmic Trading

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course addresses the prominence of electronic trading that occurs on financial markets and explores the automation of trading strategies through different methods and platforms. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

FIN6120 - Cryptocurrencies and FinTech - 3 - Credits

Course Overview

Course Prefix
FIN

Course Number
6120

Department
Economics and Finance

Dual-Listed Courses
FIN5120 - Cryptocurrencies and FinTech

Course Title
Cryptocurrencies and FinTech

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course explores recent innovations that combine finance and technology, such as the cryptocurrency Bitcoin. Students further investigate the world of cryptocurrencies and other innovations in financial technology. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Graduate Standing

FIN6250 - Graduate Internship - 3 - Credits

Course Overview

Course Prefix
FIN

Course Number
6250

Department
Economics and Finance

Course Title
Graduate Internship

Grade Mode
Pass/Fail

Repeat Status
NR

Course Description
This course provides finance internship credit for a career-related position approved by the Department of Economics and Finance.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Special Approval
Instructor permission

FIN6275 - Equity Investment Practicum - 1.5 - Credits

Course Overview

Course Prefix
FIN

Course Number
6275

Department
Economics and Finance

Dual-Listed Courses
FIN5275 - Equity Investment Practicum

Course Title
Equity Investment Practicum

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Students manage an actual portfolio. Topics include portfolio management and security analysis within the current macroeconomic context. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
1.5

Contact Hours

Contact Hours
Min:
1.5

Billing Hours

Billing Hours
Min:
1.5

Lecture Hours

Lecture Hours
Min:
1.5

Special Approval
Instructor Approval

FIN6300 - Fixed Income - 3 - Credits

Course Overview

Course Prefix
FIN

Course Number
6300

Department
Economics and Finance

Dual-Listed Courses
FIN5300 - Fixed Income

Course Title
Fixed Income

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Course topics include interest rates, term structure, risk, valuation, and credit analysis of the major market segments (treasuries, corporates, asset-backed and international bonds). Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Admission to the Master of Financial Economics graduate program

FIN6400 - Foundations of Financial Economics - 3 - Credits

Course Overview

Course Prefix
FIN

Course Number
6400

Department
Economics and Finance

Course Title
Foundations of Financial Economics

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
The course covers a number of topics that are foundational to graduate studies in financial economics. These topics include economic and econometric theory, corporate finance and asset pricing theory, as well as more specialized topics relating to financial markets.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

FIN6410 - Corporate Finance - 3 - Credits

Course Overview

Course Prefix
FIN

Course Number
6410

Department
Economics and Finance

Course Title
Corporate Finance

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Among other financial principles, this course covers multiperiod capital budgeting under uncertainty, real options analysis, optimal capital structures, acquisition valuation, and optimal dividend policy.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Admission to a Huntsman School of Business master's degree program

FIN6460 - Investment Analysis - 3 - Credits

Course Overview

Course Prefix
FIN

Course Number
6460

Department
Economics and Finance

Course Title
Investment Analysis

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course presents analytical tools for quantitative investment analysis. Using SAS, we examine topics including fundamental analysis, return predictability, portfolio theory, and implications from market efficiency. (Sp)

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

FIN6475 - Fixed Income Practicum - 1.5 - Credits

Course Overview

Course Prefix
FIN

Course Number
6475

Department
Economics and Finance

Dual-Listed Courses
FIN5475 - Fixed Income Practicum

Course Title
Fixed Income Practicum

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
In this course, students manage an actual portfolio of fixed income securities. Topics studied include portfolio management and security analysis within the current macroeconomic context. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
1.5

Contact Hours

Contact Hours
Min:
1.5

Billing Hours

Billing Hours
Min:
1.5

Lecture Hours

Lecture Hours
Min:
1.5

Special Approval
Instructor Approval

FIN6480 - Derivatives Markets - 3 - Credits

Course Overview

Course Prefix
FIN

Course Number
6480

Department
Economics and Finance

Dual-Listed Courses
FIN5480 - Derivatives Markets

Course Title
Derivatives Markets

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course is an introduction to derivative securities, the markets in which they trade, and applications in hedging and speculation. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

FIN6600 - Advanced Financial Economics - 3 - Credits

Course Overview

Course Prefix
FIN

Course Number
6600

Department
Economics and Finance

Course Title
Advanced Financial Economics

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers the efficient markets hypothesis, traditional asset pricing theory, and optimal diversification. The course also covers macroeconomic forecasting and institutional details regarding monetary economics.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

FIN6700 - Portfolio Management - 3 - Credits

Course Overview

Course Prefix
FIN

Course Number
6700

Department
Economics and Finance

Dual-Listed Courses
FIN5700 - Portfolio Management

Course Title
Portfolio Management

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
In this course, students use the tools of modern portfolio theory to construct and evaluate a portfolio of assets. The course also covers single and multifactor models, quantitative investment strategies, and multiperiod investment problems. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Graduate standing

FIN6750 - Equity Investment Strategies - 3 - Credits

Course Overview

Course Prefix
FIN

Course Number
6750

Department
Economics and Finance

Dual-Listed Courses
FIN5750 - Equity Investment Strategies

Course Title
Equity Investment Strategies

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course focuses on developing and testing the performance of investment strategies in equity markets. Students primarily use stock and financial reporting data to develop investing strategies and use statistical software to evaluate their risks and performance. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

FIN6800 - Financial Analysis - 3 - Credits

Course Overview

Course Prefix
FIN

Course Number
6800

Department
Economics and Finance

Dual-Listed Courses
FIN5800 - Financial Analysis

Course Title
Financial Analysis

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Topics include ethical and professional standards, quantitative methods, economics, financial reporting and analysis, corporate finance, portfolio management, equity, fixed income, derivatives and alternative investments. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Graduate Standing

FIN6910 - Independent Finance Research - 3 - Credits

Course Overview

Course Prefix
FIN

Course Number
6910

Department
Economics and Finance

Course Title
Independent Finance Research

Grade Mode
Pass/Fail

Repeat Status
NR

Course Description
Students work with a faculty advisor on independent readings and research.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Special Approval

Instructor permission

FREN1010 - French First Year I - 4 - Credits

Course Overview

Course Prefix
FREN

Course Number
1010

Department
World Languages and Cultures

Course Title
French First Year I

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Communicative competencies in the four language skills: speaking, listening, reading, and writing, with exposure to cultures and customs.

Credit Hours

Credit Hours
Min:
4

Contact Hours

Contact Hours
Min:
4

Billing Hours

Billing Hours
Min:
4

Lecture Hours

Lecture Hours
Min:
4

No Requirements

FREN1020 - French First Year II - 4 - Credits

Course Overview

Course Prefix
FREN

Course Number
1020

Department
World Languages and Cultures

Course Title
French First Year II

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Communicative competencies in the four language skills: speaking, listening, reading, and writing, with exposure to cultures and customs.

Credit Hours

Credit Hours
Min:
4

Contact Hours

Contact Hours
Min:
4

Billing Hours

Billing Hours
Min:
4

Lecture Hours

Lecture Hours
Min:
4

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Students may fulfill prerequisite with coursework or by exam.

Fulfill ANY of the following requirements:

Coursework

Complete ALL of the following Courses:

- FREN1010 - French First Year I

OR

Exam

Qualifying Exam Score in the following:

- USU World Language and Cultures Language Proficiency Exam score of 320-369.

FREN1030 - Accelerated French - 4 - Credits

Course Overview

Course Prefix
FREN

Course Number
1030

Department
World Languages and Cultures

Course Title
Accelerated French

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This accelerated beginning French course equates to two semesters. It develops communication skills in speaking, listening, reading, and writing while fostering cultural competencies through an introduction to diverse francophone cultures.

Credit Hours

Credit Hours
Min:
4

Contact Hours

Contact Hours
Min:
4

Billing Hours

Billing Hours
Min:
4

Lecture Hours

Lecture Hours
Min:
4

No Requirements

FREN1050 - French First Year I Study Abroad - 4 - Credits

Course Overview

Course Prefix
FREN

Course Number
1050

Department
World Languages and Cultures

Course Title
French First Year I Study Abroad

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Intensive first-year language course designed to increase proficiency in the four language skills and in intercultural knowledge. Offered only through USU's summer study abroad program in France.

Credit Hours

Credit Hours
Min:
4

Contact Hours

Contact Hours
Min:
4

Billing Hours

Billing Hours
Min:
4

Lecture Hours

Lecture Hours
Min:
4

Other Enrollment Recommendations

Not open to those with more than one year high school French or equivalent

No Requirements

FREN1150 - French First Year II Study Abroad - 4 - Credits

Course Overview

Course Prefix
FREN

Course Number
1150

Department
World Languages and Cultures

Course Title
French First Year II Study Abroad

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Intensive first-year language course designed to increase proficiency in the four language skills and in intercultural knowledge. Offered only through USU's summer study abroad program in France.

Credit Hours

Credit Hours
Min:
4

Contact Hours

Contact Hours
Min:
4

Billing Hours

Billing Hours
Min:
4

Lecture Hours

Lecture Hours
Min:
4

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ANY of the following Courses:

- FREN1010 - French First Year I
  OR FREN1050 - French First Year I Study Abroad

FREN1300 - French for Everyday Communication I - 3 - Credits

Course Overview

Course Prefix
FREN

Course Number
1300

Department
World Languages and Cultures

Course Title
French for Everyday Communication I

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Development of basic conversational skills, communication strategies, and cultural competence skills through immersion in a French-speaking environment. Offered only through USU's study abroad program in France.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Course Learning Objectives

Course Learning Outcomes

1. Develop communication skills in French following ACTFL national standards at the novice-mid level.
2. Develop cultural competence skills in a full-immersion context.

FREN1820 - Beginning Independent Study: Experiencing Francophone Culture - 2 - Credits

Course Overview

Course Prefix
FREN

Course Number
1820

Department
World Languages and Cultures

Course Title
Beginning Independent Study: Experiencing Francophone Culture

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This is a beginning-level independent study project focusing on Francophone communities and culture.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

No Requirements

FREN2010 - French Second Year I - 4 - Credits

Course Overview

Course Prefix
FREN

Course Number
2010

Department
World Languages and Cultures

Course Title
French Second Year I

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Continued development of communicative competencies in the four language skills, with more emphasis on communication through reading and writing and continued exposure to cultures and customs.

Credit Hours

Credit Hours
Min:
4

Contact Hours

Contact Hours
Min:
4

Billing Hours

Billing Hours
Min:
4

Lecture Hours

Lecture Hours
Min:
4

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ANY of the following Courses:

- FREN1020 - French First Year II
  OR FREN1030 - Accelerated French

Exam

Language Proficiency Exam
USU World Languages and Cultures Language Proficiency Placement test score of 370-439

FREN2020 - French Second Year II - 4 - Credits

Course Overview

Course Prefix
FREN

Course Number
2020

Department
World Languages and Cultures

Course Title
French Second Year II

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Continued development of communicative competencies in the four language skills, with more emphasis on communication through reading and writing and continued exposure to cultures and customs.

Credit Hours

Credit Hours
Min:
4

Contact Hours

Contact Hours
Min:
4

Billing Hours

Billing Hours
Min:
4

Lecture Hours

Lecture Hours
Min:
4

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ANY of the following Courses:

- FREN2010 - French Second Year I

Exam

Language Proficiency Exam
USU World Languages and Cultures Language Proficiency Placement test score of 440-499

FREN2030 - Intermediate French for Everyday Communication - 3 - Credits

Course Overview

Course Prefix
FREN

Course Number
2030

Department
World Languages and Cultures

Course Title
Intermediate French for Everyday Communication

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Development of intermediate-level conversational skills, communication strategies, and cultural knowledge through immersion in a French-speaking environment. Offered only through USU's study abroad program in France. Cannot be substituted for FREN 2010 or 2020.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

FREN2050 - French Second Year I Study Abroad - 4 - Credits

Course Overview

Course Prefix
FREN

Course Number
2050

Department
World Languages and Cultures

Course Title
French Second Year I Study Abroad

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Intensive second-year language course designed to increase proficiency in the four language skills and in intercultural knowledge, with more emphasis on communication through reading and writing. Offered only through USU's summer study abroad program in France.

Credit Hours

Credit Hours
Min:
4

Contact Hours

Contact Hours
Min:
4

Billing Hours

Billing Hours
Min:
4

Lecture Hours

Lecture Hours
Min:
4

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- FREN1020 - French First Year II

OR equivalent

FREN2150 - French Second Year II Study Abroad - 4 - Credits

Course Overview

Course Prefix
FREN

Course Number
2150

Department
World Languages and Cultures

Course Title
French Second Year II Study Abroad

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Intensive second-year language course designed to increase proficiency in the four language skills and in intercultural knowledge, with more emphasis on communication through reading and writing. Offered only through USU's summer study abroad program in France.

Credit Hours

Credit Hours
Min:
4

Contact Hours

Contact Hours
Min:
4

Billing Hours

Billing Hours
Min:
4

Lecture Hours

Lecture Hours
Min:
4

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- FREN2010 - French Second Year I
  OR FREN2050 - French Second Year I Study Abroad

OR equivalent

FREN2300 - Intermediate French for Everyday Communication - 3 - Credits

Course Overview

Course Prefix
FREN

Course Number
2300

Department
World Languages and Cultures

Course Title
Intermediate French for Everyday Communication

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course offers development of intermediate-level communication skills and cultural competence through immersion in a French-speaking environment. Offered only through USU's study abroad program in France.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Course Learning Objectives

Course Learning Outcomes

1. Develop communication skills in French to the intermediate-mid level of ACTFL national standards
2. Further development of cultural competence skills

FREN2820 - Intermediate Independent Study: Experiencing Francophone Culture - 2 - Credits

Course Overview

Course Prefix
FREN

Course Number
2820

Department
World Languages and Cultures

Course Title
Intermediate Independent Study: Experiencing Francophone Culture

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This is an intermediate-level independent study project focusing on Francophone communities and culture.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

No Requirements

FREN2880 - Individual Readings - 3 - Credits

Course Overview

Course Prefix
FREN

Course Number
2880

Department
World Languages and Cultures

Course Title
Individual Readings

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Individual study of selected readings in French. Cannot be substituted for FREN 2010 or 2020.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Special Approval
Instructor permission

Other Enrollment Recommendations
Check with major department for limitations on number of credits that can be counted for graduation.

No Requirements

FREN2988 - Special Problems - 1 - 3 Credits

Course Overview

Course Prefix
FREN

Course Number
2988

Department
World Languages and Cultures

Course Title
Special Problems

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
An elective course intended for advanced students. Students will work individually with the instructor to develop reading, writing, listening and speaking skills. Emphasis will be on advanced grammar and conversation. Francophone culture will also be emphasized. Significant reading and work outside of class are required.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

Special Approval

Instructor permission

No Requirements

FREN3030 - Advanced French for Everyday Communication - 3 - Credits

Course Overview

Course Prefix
FREN

Course Number
3030

Department
World Languages and Cultures

Course Title
Advanced French for Everyday Communication

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Development of advanced conversational skills, communication strategies, and cultural knowledge through immersion in a French-speaking environment. Cannot be applied to requirements for the major or minor in French.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Fulfill by coursework or proficiency testing.

Fulfill ANY of the following requirements:

Coursework

Complete ALL of the following Courses:

- FREN2020 - French Second Year II

OR

Exam

Language Proficiency Testing

- USU World Languages and Cultures Language Proficiency Placement test score of 500+

FREN3060 - French Intermediate Written Communication (CI) - 3 - Credits

Course Overview

Course Prefix
FREN

Course Number
3060

Department
World Languages and Cultures

Course Title
French Intermediate Written Communication (CI)

General Education Attribute
CI

Grade Mode
Standard Letter

Repeat Status
RP

Course Description

Provides students with intensive practice in various types of writing (e.g., summary, description, narration, letter-writing, etc.) based on a process approach. Involves discussion, writing, and revising. Stresses grammar review.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Fulfill by coursework or proficiency testing.

Fulfill ANY of the following requirements:

Coursework

Complete ALL of the following Courses:

- FREN2020 - French Second Year II

OR

Testing

Language Proficiency Exam

- USU World Languages and Cultures Language Proficiency Placement test score of 500+

FREN3070 - Advanced French Study Abroad I - 4 - Credits

Course Overview

Course Prefix
FREN

Course Number
3070

Department
World Languages and Cultures

Course Title
Advanced French Study Abroad I

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Intensive upper-division language course combining grammar review, phonetics, advanced conversation and composition, and the study of culture, with an emphasis on current affairs.

Credit Hours

Credit Hours
Min:
4

Contact Hours

Contact Hours
Min:
4

Billing Hours

Billing Hours
Min:
4

Lecture Hours

Lecture Hours
Min:
4

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- FREN2020 - French Second Year II

OR demonstrate equivalent proficiency through testing

FREN3080 - Advanced French Study Abroad II - 4 - Credits

Course Overview

Course Prefix
FREN

Course Number
3080

Department
World Languages and Cultures

Course Title
Advanced French Study Abroad II

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Intensive upper-division language course combining grammar review, phonetics, advanced conversation and composition, and the study of culture, with an emphasis on current affairs.

Credit Hours

Credit Hours
Min:
4

Contact Hours

Contact Hours
Min:
4

Billing Hours

Billing Hours
Min:
4

Lecture Hours

Lecture Hours
Min:
4

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- FREN2020 - French Second Year II

OR demonstrate equivalent proficiency through testing

FREN3116 - Adventure and Discovery: Journey in the Francophone World - 3 - Credits

Course Overview

Course Prefix
FREN

Course Number
3116

Department
World Languages and Cultures

Course Title
Adventure and Discovery: Journey in the Francophone World

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students explore themes of discovery, adventure, and journey in the French and Francophone worlds through the prism of the fine arts, history, music, texts, film, and other areas.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Fulfilled by the following:
AP French Language and Culture exam with a score of 3 or higher

FREN3117 - Francophone Studies: Past, Present and Future - 3 - Credits

Course Overview

Course Prefix
FREN

Course Number
3117

Department
World Languages and Cultures

Course Title
Francophone Studies: Past, Present and Future

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course incorporates the analyzation of cultural artifacts and literatures in the Francophone world to explore cultural themes, including coming of age, rite of passage, and education.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Fulfilled by the following
AP French Language and Culture exam with a score of 3 or higher

FREN3118 - Paris, City of Lights - 3 - Credits

Course Overview

Course Prefix
FREN

Course Number
3118

Department
World Languages and Cultures

Course Title
Paris, City of Lights

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students study the city of Paris, France, through the prism of important themes including, but not limited to, the arts, history, commerce, technology, sports, etc.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Fulfilled by the following:
AP French Language and Culture exam with a score of 3 or higher

FREN3400 - Introduction to Translation - 3 - Credits

Course Overview

Course Prefix
FREN

Course Number
3400

Department
World Languages and Cultures

Course Title
Introduction to Translation

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces students to the practice of French to English translation in order to improve both students' writing skills and language fluency.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Requierd

Complete ALL of the following Courses:

- FREN2020 - French Second Year II

OR equivalent proficiency testing score of 500+

FREN3500 - French and Francophone Authors (DHA) - 3 - Credits

Course Overview

Course Prefix
FREN

Course Number
3500

Department
World Languages and Cultures

Course Title
French and Francophone Authors (DHA)

General Education Attribute
DHA

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Reading, analysis, and discussion of important Francophone authors from around the world. Authors and texts vary by semester. Taught in French.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Fulfilled by coursework or proficiency testing.

Fulfill ANY of the following requirements:

Coursework

Complete ALL of the following Courses:

- FREN2020 - French Second Year II

OR

Testing

Language Proficiency Testing

- USU World Languages and Cultures Language Proficiency Placement test score of 500+

FREN3510 - Business French (CI) - 3 - Credits

Course Overview

Course Prefix
FREN

Course Number
3510

Department
World Languages and Cultures

Course Title
Business French (CI)

General Education Attribute
CI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description

Study of vocabulary, idioms, and expressions used in French business communications and an introduction to French business practices.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Fulfill ANY of the following requirements:

Coursework

Complete ALL of the following Courses:

- FREN2020 - French Second Year II

OR

Exam

Language Proficiency Exam

- USU World Languages and Cultures Language Proficiency Placement test score of 500+

FREN3550 - French Civilization (DHA) - 3 - Credits

Course Overview

Course Prefix
FREN

Course Number
3550

Department
World Languages and Cultures

Course Title
French Civilization (DHA)

General Education Attribute
DHA

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Study of historical, social, political, economic, and cultural conditions and institutions of France from early to modern times.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Fulfill ANY of the following requirements:

Coursework

Complete ALL of the following Courses:

- FREN2020 - French Second Year II

OR

Exam

Language Proficiency Exam

- USU World Languages and Cultures Language Proficiency Placement test score of 500+

FREN3570 - France Today - 3 - Credits

Course Overview

Course Prefix
FREN

Course Number
3570

Department
World Languages and Cultures

Course Title
France Today

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Study of contemporary life in France, the French people, their daily habits, and their surroundings. What makes the French, French. Extensive use of videos, films, and slides.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Fulfill ANY of the following requirements:

Coursework

Complete ALL of the following Courses:

- FREN2020 - French Second Year II

OR

Exam

FREN3600 - Textual Analysis - 3 - Credits

Course Overview

Course Prefix
FREN

Course Number
3600

Department
World Languages and Cultures

Course Title
Textual Analysis

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Introduction to the methods, terminology, and practice of textual analysis. Development of critical thinking and writing skills through the analysis of selected literary and nonliterary texts from different periods and genres, ranging from poetry, novels, and plays to film, painting, music, and art. Course may be repeated once for credit with different content.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Fulfill ANY of the following requirements:

Coursework

Complete ALL of the following Courses:

- FREN2020 - French Second Year II

OR

Exam

Language Proficiency Exam

- USU World Languages and Cultures Language Proficiency Placement test score of 500+

FREN3700 - Francophone Music (CI) - 3 - Credits

Course Overview

Course Prefix
FREN

Course Number
3700

Department
World Languages and Cultures

Course Title
Francophone Music (CI)

General Education Attribute
CI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description

This course increases students' knowledge of music from Francophone communities and the social implications of this music. A variety of landmark French music is explored. This course is taught in French.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Fulfilled by coursework or proficiency testing.

Fulfill ANY of the following requirements:

Coursework

Complete ALL of the following Courses:

- FREN2020 - French Second Year II

OR

Testing

Language Proficiency Testing

- USU World Languages and Cultures Language Proficiency Placement test score of 500+

FREN3820 - Advanced Independent Study: Experiencing Francophone Culture - 2 - Credits

Course Overview

Course Prefix
FREN

Course Number
3820

Department
World Languages and Cultures

Course Title
Advanced Independent Study: Experiencing Francophone Culture

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This is an advanced-level independent study project focusing on Francophone communities and culture.

Credit Hours

Credit Hours Min:
2

Contact Hours

Contact Hours Min:
2

Billing Hours

Billing Hours Min:
2

Lecture Hours

Lecture Hours Min:
2

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- FREN2020 - French Second Year II

OR equivalent proficiency demonstrated through testing

FREN3880 - Individual Readings - 1 - 4 Credits

Course Overview

Course Prefix
FREN

Course Number
3880

Department
World Languages and Cultures

Course Title
Individual Readings

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Individual study of selected readings in French.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
4

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
4

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
4

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
4

Lecture Hours Operator:
TO

Special Approval

Instructor permission

No Requirements

FREN3900 - Topics in French and Francophone Studies - 3 - Credits

Course Overview

Course Prefix
FREN

Course Number
3900

Department
World Languages and Cultures

Course Title
Topics in French and Francophone Studies

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Studies through literature, media, and film on specific topics or themes. Discussion, analysis, and interpretation of selected literary and/or nonliterary works. Occasionally taught in English.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Fulfill ANY of the following requirements:

Coursework

Complete ALL of the following Courses:

- FREN2020 - French Second Year II

OR

Exam

Language Proficiency Exam

- USU World Languages and Cultures Language Proficiency Placement test score of 500+

Additional Comments:

FREN4060 - Advanced French Conversation (CI) - 3 - Credits

Course Overview

Course Prefix
FREN

Course Number
4060

Department
World Languages and Cultures

Course Title
Advanced French Conversation (CI)

General Education Attribute
CI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Designed for students who have already reached advanced proficiency in speaking through foreign experience, but need to continue the development of their conversational skills.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- FREN3060 - French Intermediate Written Communication (CI)

FREN4090 - Advanced Written Communication (CI) - 3 - Credits

Course Overview

Course Prefix
FREN

Course Number
4090

Department
World Languages and Cultures

Course Title
Advanced Written Communication (CI)

General Education Attribute
CI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Continued development of French written communication skills based on a process approach. Includes the more advanced concepts of French grammar and extensive writing practice in variety of genres.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

FREN4200 - French Linguistics and Phonetics - 3 - Credits

Course Overview

Course Prefix
FREN

Course Number
4200

Department
World Languages and Cultures

Course Title
French Linguistics and Phonetics

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
First part analyzes phonological and phonetic patterns of French. Second part deals with selected morphological and syntactic features of French.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Fulfill ANY of the following requirements:

Coursework

Complete ALL of the following Courses:

- FREN4200 - French Linguistics and Phonetics

OR

Exam

Language Proficiency Exam

- USU World Languages and Cultures Language Proficiency Placement test score of 500+

FREN4610 - Studies in French Literature and Culture (DHA) - 3 - Credits

Course Overview

Course Prefix
FREN

Course Number
4610

Department
World Languages and Cultures

Course Title
Studies in French Literature and Culture (DHA)

General Education Attribute
DHA

Grade Mode
Standard Letter

Repeat Status
NR

Course Description

Students engage in reading, discussion, analysis, and interpretation of literary and nonliterary texts from various centuries and genres within French and Francophone cultures. The course fosters the development of analytical, interpretive, and communication skills in French.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Prerequisite

Prerequisite may be fulfilled through coursework or language proficiency exam.

Fulfill ANY of the following requirements:

Coursework

Complete ANY of the following Courses:

- FREN2020 - French Second Year II
- FREN2030 - Intermediate French for Everyday Communication

- FREN2300 - Intermediate French for Everyday Communication

OR

Language Proficiency Exam

Completion of the following exam:

- USU World Languages & Cultures language proficiency testing score of 500+

FREN4620 - Genre Studies in French Literature (DHA) - 3 - Credits

Course Overview

Course Prefix
FREN

Course Number
4620

Department
World Languages and Cultures

Course Title
Genre Studies in French Literature (DHA)

General Education Attribute
DHA

Grade Mode
Standard Letter

Repeat Status
NR

Course Description

Examination of a particular genre or body of works from a variety of periods and authors (e.g., novel, play, poetry, short story, film). Involves close reading, discussion, analysis, and interpretation of selected literary and nonliterary texts. Sample topics include: Romance Novels from the Middle Ages to the Present, From Classical to Contemporary French Theatre, French poetry from Baudelaire to Ponge, The Nouveau Roman, New Wave French Cinema, and The Negritude Movement.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- FREN3600 - Textual Analysis

FREN4630 - French and Francophone Fairy Tales (DHA) - 3 - Credits

Course Overview

Course Prefix
FREN

Course Number
4630

Department
World Languages and Cultures

Course Title
French and Francophone Fairy Tales (DHA)

General Education Attribute
DHA

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course explores French and Francophone fairy tale in both film and text, beginning with classic seventeenth century French fairy tales, and analyzing contemporary variants, film adaptions, remakes, parodies, and retellings of tales from around the world.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Other Enrollment Recommendations
Highly recommended for students who participated in Bridge program. May also take course concurrently with FREN 2020 or FREN 2030.

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Prerequisite may be fulfilled through coursework or language proficiency exam.

Fulfill ANY of the following requirements:

Coursework

Complete ANY of the following Courses:

- FREN2020 - French Second Year II
- FREN2030 - Intermediate French for Everyday Communication

OR

Completion of the following exam:

Language Proficiency Testing
USU World Languages & Cultures language proficiency testing score of 500+

FREN4640 - Exploring the French and Francophone Short Story - 3 - Credits

Course Overview

Course Prefix
FREN

Course Number
4640

Department
World Languages and Cultures

Course Title
Exploring the French and Francophone Short Story

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course engages with the contemporary French and Francophone short story and important Francophone writers (including Nobel prize winners Albert Camus and Jean-Marie Gustave Le Clézio). It introduces interpretive methods of texts through close readings, discussions, and weekly writing assignments.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Fulfill ANY of the following requirements:

Coursework

Complete ALL of the following Courses:

- FREN2020 - French Second Year II

OR

Exam

Language Proficiency Exam

- USU World Languages and Cultures Language Proficiency Placement test score of 500

FREN4880 - Individual Readings - 1 - 4 Credits

Course Overview

Course Prefix
FREN

Course Number
4880

Department
World Languages and Cultures

Course Title
Individual Readings

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Readings in scientific, technical, or literary French.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
4

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
4

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
4

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
4

Lecture Hours Operator:
TO

Special Approval

Instructor permission

No Requirements

FREN4900 - Seminar in French and Francophone Studies - 3 - Credits

Course Overview

Course Prefix
FREN

Course Number
4900

Department
World Languages and Cultures

Course Title
Seminar in French and Francophone Studies

Grade Mode
Standard Letter

Repeat Status
RP

Course Description

In-depth exploration of issues central to understanding language, literature, and culture. Critical reading and viewing of written and nonwritten texts with emphasis on student presentations, independent research, and the completion of extended projects. Seminar topics may focus on authors, literary periods, important historical events and social movements, and aspects of francophone cultures. Used periodically for literature in translation.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Fulfill ANY of the following requirements:

Coursework

Complete ALL of the following Courses:

- FREN2020 - French Second Year II

OR

Exam

Language Proficiency Exam

- USU World Languages and Cultures Language Proficiency Placement test score of 500

FREN4920 - French Language Tutoring - 1 - Credits

Course Overview

Course Prefix
FREN

Course Number
4920

Department
World Languages and Cultures

Course Title
French Language Tutoring

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Allows students to develop tutoring skills by assisting professors in lower-division courses or fulfilling instructional duties for a comparable amount of time in the language laboratory, public schools, or similar activities with departmental approval.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- FREN2020 - French Second Year II

FREN6200 - French Linguistics and Phonetics - 3 - Credits

Course Overview

Course Prefix
FREN

Course Number
6200

Department
World Languages and Cultures

Course Title
French Linguistics and Phonetics

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Analysis of selected phonological, morphological, syntactic, and semantic features of contemporary French, including a study of colloquial French, comparing pronunciation, vocabulary, and grammar with standard forms.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ANY of the following Courses:

- FREN2020 - French Second Year II

OR

- A 3000 level or higher FREN course
- Demonstrated proficiency through testing

GEBAI - - 3 - Credits

Course Overview

Course Prefix
GE

Course Number
BAI

Department
General University

Grade Mode
Standard Letter

Repeat Status
RP

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

GEBCA - - 3 - Credits

Course Overview

Course Prefix
GE

Course Number
BCA

Department
General University

Grade Mode
Standard Letter

Repeat Status
RP

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

GEBHU - - 3 - Credits

Course Overview

Course Prefix
GE

Course Number
BHU

Department
General University

Grade Mode
Standard Letter

Repeat Status
RP

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

GEBLS - - 3 - Credits

Course Overview

Course Prefix
GE

Course Number
BLS

Department
General University

Grade Mode
Standard Letter

Repeat Status
RP

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

GEBPS - - 3 - Credits

Course Overview

Course Prefix
GE

Course Number
BPS

Department
General University

Grade Mode
Standard Letter

Repeat Status
RP

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

GEBSS - - 3 - Credits

Course Overview

Course Prefix
GE

Course Number
BSS

Department
General University

Grade Mode
Standard Letter

Repeat Status
RP

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

GECI - - 3 - Credits

Course Overview

Course Prefix
GE

Course Number
CI

Department
General University

Grade Mode
Standard Letter

Repeat Status
RP

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

GECL1 - - 3 - Credits

Course Overview

Course Prefix
GE

Course Number
CL1

Department
General University

Grade Mode
Standard Letter

Repeat Status
RP

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

GECL2 - - 3 - Credits

Course Overview

Course Prefix
GE

Course Number
CL2

Department
General University

Grade Mode
Standard Letter

Repeat Status
RP

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

GEDHA - - 2 - 3 Credits

Course Overview

Course Prefix
GE

Course Number
DHA

Department
General University

Grade Mode
Standard Letter

Repeat Status
RP

Credit Hours

Credit Hours Min:
2

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
2

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
2

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
2

Lecture Hours Max:
3

Lecture Hours Operator:
TO

No Requirements

GEDSC - - 3 - Credits

Course Overview

Course Prefix
GE

Course Number
DSC

Department
General University

Grade Mode
Standard Letter

Repeat Status
RP

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

GEDSS - - 3 - Credits

Course Overview

Course Prefix
GE

Course Number
DSS

Department
General University

Grade Mode
Standard Letter

Repeat Status
RP

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

GEELEC - - 1 - 3 Credits

Course Overview

Course Prefix
GE

Course Number
ELEC

Department
General University

Grade Mode
Standard Letter

Repeat Status
RP

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

No Requirements

GEO1010 - Introduction to Geology (BPS) - 3 - Credits

Course Overview

Course Prefix
GEO

Course Number
1010

Department
Geosciences

Course Title
Introduction to Geology (BPS)

General Education Attribute
BPS

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides an introduction to geoscience for non-science majors. It covers earth's origin, plate tectonics, earth materials, the geologic record, hydrologic processes and water resources, geological hazards, the climate system, and mineral and energy resources.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes
1. Understand Earth as a system of interrelated processes, cycles, and feedback cycles
2. Learn how Earth formed, its age, and interior structure
3. Recognize and understand the formation of major mineral and rock types
4. Understand the principles of geologic time, numerical dating, and reconstructing geologic history
5. Know the principles of Plate Tectonics, including faults and earthquakes, and associated land forms
6. Understand the pathways, major processes, and land forms associated with surface water and groundwater resources
7. Understand basic principles of Earth's climate system, past climate changes, and

GEO1060 - Introduction to Environmental Geoscience (BPS) - 3 - Credits

Course Overview

Course Prefix
GEO

Course Number
1060

Department
Geosciences

Course Title
Introduction to Environmental Geoscience (BPS)

General Education Attribute
BPS

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Explores the earth's internal and external processes. Interprets the roles these processes play in human habitation of the planet. Evaluates the interplay occurring between humans and the earth, as in the distribution of resources and the development of civilization.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes
1. Develop an understanding of Earth's structure, systems and interrelated processes and cycles.
2. Comprehend the geologic time scale and major geological events.
3. Recognize the production and use of earth materials by humans for energy, industrial, and sustenance purposes.
4. Recognize the impact of humans on the Earth related to pollution, global warming, and climate change.

GEO1110 - Physical Geology (BPS) - 3 - Credits

Course Overview

Course Prefix
GEO

Course Number
1110

Department
Geosciences

Course Title
Physical Geology (BPS)

General Education Attribute
BPS

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides an in-depth introduction to geoscience. It covers the earth system, plate tectonics, earth materials, the geologic record, hydrologic processes and water resources, geological hazards, the climate system, and mineral and energy resources. It is linked to the required lab course (GEO 1115).

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Corequisite

Type
Corequisite

Required

Enroll in the following Courses:
- GEO1115 - Physical Geology Laboratory

Course Learning Objectives

Course Learning Outcomes
1. Recognize Earth as a system of interrelated processes, cycles, and feedbacks
2. Learn how Earth formed, its age, and interior structure
3. Investigate the formation of major mineral and rock types and their association to plate tectonic setting
4. Define the principles of geologic time, numerical dating, and reconstructing geologic history

5. Know the principles of Plate Tectonics, including faults and earthquakes, and associated landforms
6. Recognize the pathways, major processes, and landforms associated with surface water and groundwater resources
7. Relate basic principles of Earth's climate system to past and ongoing climate changes
8. Learn the geologic context of mineral and energy resources
9. Explore geoscientist's role in society and geoscience careers

GEO1115 - Physical Geology Laboratory - 1 - Credits

Course Overview

Course Prefix
GEO

Course Number
1115

Department
Geosciences

Course Title
Physical Geology Laboratory

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Laboratory course designed to complement introductory earth science courses. Students will study minerals, rocks, topographic and geologic maps, and aerial photographs.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Simple Requisites

Corequisite

Type
Corequisite

Required

Enroll in the following Courses:

- GEO1110 - Physical Geology (BPS)

Prerequisite

Type
Prerequisite

Required

All prerequisites listed below may be taken concurrently with GEO1115 PHYSICAL GEOLOGY LAB.

Complete ANY of the following Courses:

- GEO1010 - Introduction to Geology (BPS)
- GEO1060 - Introduction to Environmental Geoscience (BPS)
- GEO1360 - Planet Earth (BPS)

Course Learning Objectives

Course Learning Outcomes

1. Identify common minerals, igneous–sedimentary–metamorphic rocks, and basic geologic materials using diagnostic physical properties, textures, and classification schemes.
2. Interpret topographic maps, geologic maps, and cross-sections to determine elevation changes, map-unit relationships, geologic structures, and past geologic environments.
3. Apply stratigraphic and geologic principles—including superposition, original horizontality, cross-cutting relationships, facies changes, and relative dating—to reconstruct geologic histories.
4. Collect, record, and analyze field observations of rocks, landforms, and geologic processes during two local field exercises, demonstrating accurate note-taking, sketching, and spatial interpretation.
5. Use geoscience methods to evaluate Earth processes and environmental issues, including stream channel patterns, groundwater flow, global climate, glacial landforms, and natural hazards, and explain how these processes affect landscapes and society.

GEO1220 - Historical Geology - 3 - Credits

Course Overview

Course Prefix
GEO

Course Number
1220

Department
Geosciences

Course Title
Historical Geology

Grade Mode
Standard Letter

Repeat Status
NR

Course Description

A study of the earth's tectonic and life history as inferred from the examination of rocks and fossils. Concerned with the origin and development of the earth's atmosphere, oceans, and life.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Corequisite

Type
Corequisite

Required

Enroll in the following Courses:

- GEO1225 - Historical Geology Laboratory

Prerequisite

Type
Prerequisite

Required

Fulfill ANY of the following requirements:

Option 1

Complete ALL of the following Courses:

- GEO1010 - Introduction to Geology (BPS)

OR

Option 2

Complete ALL of the following Courses:

- GEO1110 - Physical Geology (BPS)
  AND GEO1115 - Physical Geology Laboratory

(preferred)

GEO1225 - Historical Geology Laboratory - 1 - Credits

Course Overview

Course Prefix
GEO

Course Number
1225

Department
Geosciences

Course Title
Historical Geology Laboratory

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Accompanying laboratory course for GEO 1220.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Simple Requisites

Corequisite

Type
Corequisite

Required

Enroll in the following Courses:

- GEO1220 - Historical Geology

GEO1360 - Planet Earth (BPS) - 3 - Credits

Course Overview

Course Prefix
GEO

Course Number
1360

Department
Geosciences

Course Title
Planet Earth (BPS)

General Education Attribute
BPS

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces students to the principles of interdisciplinary earth science and the earth system. Course topics encompass interconnected geologic, hydrologic, biologic, and atmospheric processes. Students gain understanding of the scientific process and practice critical thinking about science's role in societal issues.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes
1 Students will be able to apply the scientific method to questions about Earth systems, including forming hypotheses, analyzing evidence, and interpreting results.
2 Students will demonstrate a fundamental understanding of the physical principles that govern Earth's structure, motion, and energy systems.
3 Students will interpret and evaluate quantitative data from graphs, tables, or maps related to Earth science phenomena such as climate trends, seismic activity, or atmospheric composition.
4 Students will explain the physical and chemical processes that shape the Earth's surface and interior, including plate tectonics, erosion, and mineral formation.
5 Students will analyze the role of the Sun, Moon, and Earth's internal heat in driving natural systems such as weather, ocean currents, and the water cycle.
6 Students will evaluate the credibility and reliability of scientific sources related to current issues affecting Earth, such as climate change, biodiversity loss, and resource depletion.
7 Students will use written and/or visual formats to communicate scientific ideas clearly, with a focus on Earth science topics relevant to human society.
8 Students will explore the interdependence of Earth's biosphere, atmosphere, hydrosphere, and geosphere, and assess how changes in one system affect the others.
9 Students will examine the evolutionary history of life on Earth and explain the scientific theories of life's origin and development through its history.
10 Students will assess the impact of human activity on Earth's systems and become scientifically informed in regard to actions in support sustainability for future generations.

GEO1650 - Fossil Preparation - 2 - Credits

Course Overview

Course Prefix
GEO

Course Number
1650

Department
Geosciences

Course Title
Fossil Preparation

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Designed to familiarize students with a paleontological laboratory and teach them basic techniques of fossil preservation. Covers procedures, vocabulary, and includes hands-on experience. Students are introduced to fossil care, identification, preservation techniques, molding and casting, basic osteology, and collection laws.

Credit Hours

Credit Hours Min:
2

Contact Hours

Contact Hours Min:
2

Billing Hours

Billing Hours Min:
2

Lecture Hours

Lecture Hours Min:
2

No Requirements

Course Learning Objectives

Course Learning Outcomes

1 Students will be able to apply the scientific method to questions about Earth systems, including forming hypotheses, analyzing evidence, and interpreting results.
2 Students will demonstrate a fundamental understanding of the physical principles that govern Earth's structure, motion, and energy systems.
3 Students will interpret and evaluate quantitative data from graphs, tables, or maps related to Earth science phenomena such as climate trends, seismic activity, or atmospheric composition.
4 Students will explain the physical and chemical processes that shape the Earth's surface and interior, including plate tectonics, erosion, and mineral formation.
5 Students will analyze the role of the Sun, Moon, and Earth's internal heat in driving natural systems such as weather, ocean currents, and the water cycle.
6 Students will evaluate the credibility and reliability of scientific sources related to current issues affecting Earth, such as climate change, biodiversity loss, and resource depletion.
7 Students will use written and/or visual formats to communicate scientific ideas clearly, with a focus on Earth science topics relevant to human society.
8 Students will explore the interdependence of Earth's biosphere, atmosphere, hydrosphere, and geosphere, and assess how changes in one system affect the others.
9 Students will examine the evolutionary history of life on Earth and explain the scientific theories of life's origin and development through its history.
10 Students will assess the impact of human activity on Earth's systems and become scientifically informed in regard to actions in support sustainability for future generations.

GEO2200 - The Earth Through Time - 3 - Credits

Course Overview

Course Prefix
GEO

Course Number
2200

Department
Geosciences

Course Title
The Earth Through Time

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course investigates the dynamic nature of Earth's physical and biological processes, and how they have shaped Earth's 4.5 billion-year history. It emphasizes the interpretation of the geologic record (rocks and landforms) and Earth's sequential physical and biological changes.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ANY of the following Courses:

- GEO1010 - Introduction to Geology (BPS)
- GEO1110 - Physical Geology (BPS)

Course Learning Objectives

Course Learning Outcomes
1. Explain the importance of Geologic Time, how the Geologic Time Scale was originally constructed and continues to change, and how rocks are dated
2. Describe geologic laws and concepts and interpret geologic events from the physical and chemical rock record
3. Apply Chamberlin's concept of multiple-working hypotheses in the context of important geologic events through Earth's history using knowledge of current data sets
4. Recognize the concept of 'deep time' and how the fossil record and planetary rock records inform our understanding of Earth history through its 4.56 billion journey
5. Revisit and deepen the understanding of mineral- and rock-forming processes, internal Earth processes, and solar system relationships.
6. Gain the ability to interpret and create basic illustrations/graphs/writings explaining stratigraphic, metamorphic, and igneous Earth records and processes including plate tectonics, biologic evolution, and climate change
7. Prepare students for advanced geology and other physical science courses

GEO2205 - Earth Through Time Laboratory - 1 - Credits

Course Overview

Course Prefix
GEO

Course Number
2205

Department
Geosciences

Course Title
Earth Through Time Laboratory

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This laboratory course is designed to complement GEO 2200. It examines the sequential physical and biological changes throughout Earth's 4.5-billion year history, and emphasizes the interpretation of the geologic record from rocks and fossils.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Simple Requisites

Corequisite

Type
Corequisite

Required

Enroll in the following Courses:

- GEO2200 - The Earth Through Time

Course Learning Objectives

Course Learning Outcomes
1. Apply GEO2200 lecture content to in-lab exercises using quantitative and qualitative methods (e.g. Time scale; stratigraphic laws; mineral, rock, and fossil identification, plate tectonics, climate change, geologic maps)
2. Re-enforcing and building upon basic geologic lab skills learned in GEO1115 through mineral/rock/fossil identification and interpretation using hand lens and higher magnification binocular and petrographic microscopes
3. Employ introductory field skills including observation, note-taking, sketches, measuring stratigraphic section, and the concept of scale
4. Analyze, interpret, and present geologic data in the context of Earth history through writing and graphics
5. Learn to read, critique, and interpret geologic maps integrated with physical geologic samples
6. Recognize field safety protocol and land-use ethics

GEO2500 - Geology Field Excursions - 1 - Credits

Course Overview

Course Prefix
GEO

Course Number
2500

Department
Geosciences

Course Title
Geology Field Excursions

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
Geologic features and processes observed in the field.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Prerequisites listed below may be taken concurrently with GEO2500 GEOLOGY FIELD EXCURSION.

Complete ANY of the following Courses:

- GEO1010 - Introduction to Geology (BPS)
- GEO1060 - Introduction to Environmental Geoscience (BPS)
- GEO1110 - Physical Geology (BPS)
- GEO1360 - Planet Earth (BPS)

Course Learning Objectives

Course Learning Outcomes

1. Engage with geologic processes and features during a multi-day field experience
2. Gain awareness of the amazing geology within a relatively short distance of USU Logan campus

GEO2800 - Minerals and Rocks - 4 - Credits

Course Overview

Course Prefix
GEO

Course Number
2800

Department
Geosciences

Course Title
Minerals and Rocks

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces minerals and the principles of crystallography, focusing on rock-forming and ore minerals. It surveys petrology and introduces igneous, sedimentary, and metamorphic rocks, including X-ray and optical identification techniques. It includes three lectures and one three-hour lab per week.

Credit Hours

Credit Hours
Min:
4

Contact Hours

Contact Hours
Min:
4

Billing Hours

Billing Hours
Min:
4

Lecture Hours

Lecture Hours
Min:
4

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:
- GEO1110 - Physical Geology (BPS)

Required

May be fulfilled by one of the following options:

Fulfill ANY of the following requirements:

Option 1

Complete at least 1 of the following courses:
- MATH1060 - Trigonometry
  OR MATH1210 - Calculus I (QL)

OR

Option 2

Exam
- AP Calculus AB score of 3 or higher

Corequisite

Type
Corequisite

Required

Enroll in the following Courses:
- CHEM1210 - Principles of Chemistry I

Course Learning Objectives

Course Learning Outcomes

1. Recognize the chemical and physical basis of mineralogy, including crystallography
2. Relate the structure and composition of minerals to mineral properties and occurrence
3. Learn to identify common minerals in hand sample and thin section and relate observations to mineral origin
4. Investigate mineral analytical techniques and their applications
5. Interpret geologic history and rock origin using mineralogy
6. Learn the geologic context of mineral resources
7. Explore geoscientist's role in society and geoscience careers

GEO3000 - Epic Earth - Geoscience of National Parks (DSC) - 3 - Credits

Course Overview

Course Prefix
GEO

Course Number
3000

Department
Geosciences

Course Title
Epic Earth - Geoscience of National Parks (DSC)

General Education Attribute
DSC

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Intended for non-science and science majors, this course delves into both the internal and external processes responsible for the unique geology of National Parks, focusing on the western US, Alaska and Hawaii, emphasizing landscape interpretation and process understanding.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete at least 1 course in the following course sets:

- Breadth Physical Sciences (BPS) Course

Course Learning Objectives

Course Learning Outcomes
1. Explain fundamental geoscience concepts—including rock types, geologic time, plate tectonics, volcanism, structural deformation, weathering, and glacial processes—and apply them to real landscapes.
2. Describe how major geologic processes shape U.S. National Parks, and identify the key landforms, rock units, and geologic histories associated with parks representing themes such as hot-spot volcanism, stratigraphy, structural geology, desert landscapes, caves, and glaciers.
3. Interpret geologic features and landscapes using maps, photographs, cross-sections, and geologic narratives to reconstruct the geologic evolution of selected National Parks.
4. Compare and contrast different tectonic and geomorphic settings—such as hotspot provinces (Hawaii, Yellowstone), layered sedimentary provinces (Grand Canyon, Zion, Bryce), and active tectonic regions (Yosemite, Grand Teton, Death Valley)—and evaluate how these settings produce distinctive landscapes.
5. Connect geologic processes to modern environmental issues and geohazards within National Parks, including volcanic activity, earthquakes, landslides, cave formation, coastal change, and glacial retreat, and explain how Earth processes continue to shape park landscapes today.

GEO3100 - Natural Disasters (DSC) - 3 - Credits

Course Overview

Course Prefix
GEO

Course Number
3100

Department
Geosciences

Course Title
Natural Disasters (DSC)

General Education Attribute
DSC

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Hazardous geologic processes affecting humans. Cause, prediction, avoidance, and frequency of natural disasters, including earthquakes, volcanic eruptions, tsunamis, landslides, floods, subsidence, meteorite impacts, and global changes. Topics discussed in the context of earth systems and cycles. Three lectures per week.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete at least 1 course in the following course sets:

- Breadth Physical Sciences (BPS) Course

Course Learning Objectives

Course Learning Outcomes
1. Analyze the physical processes that cause natural hazards and evaluate how they interact with human systems to create natural disasters using case studies and scientific data.
2. Assess the societal, economic, and environmental impacts of major natural disasters and propose evidence-based mitigation strategies.
3. Interpret and critique media and policy responses to natural disasters, distinguishing between scientific evidence and public perception.
4. Synthesize interdisciplinary perspectives (geology, climate science, social science) to develop an understanding of disaster risk and its management for different communities.

GEO3150 - Energy in the Twenty-first Century (DSC/QI) - 3 - Credits

Course Overview

Course Prefix
GEO

Course Number
3150

Department
Geosciences

Cross-Listed Courses
PHYS3150 - Energy in the Twenty-first Century (DSC/QI)

Course Title
Energy in the Twenty-first Century (DSC/DSC, QI QI)

General Education Attribute

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Provides science-based overview of energy resources. Compares and analyzes energy budgets and energy resources, including solar energy, fossil fuels, nuclear energy, and renewable sources. For the different energy sources, contrasts carbon emissions and potential impacts on climate change.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete at least 1 course in the following course sets:

- Breadth Physical Sciences (BPS) Course
- Quantitative Literacy (QL) Course

Course Learning Objectives

Course Learning Outcomes

1. Understand the science underpinning energy production from hydrocarbons, nuclear fission/fusion, geothermal, solar and wind sources
2. Understand basic concepts of science and risk that underscores the imperative to transition rapidly from fossil to renewable energy
3. Understand the economic, policy and social dynamics that accompany that transition
4. Engage in civil dialogue with fellow students on energy-related topics
5. Apply simple algebraic principles to energy calculations

GEO3250 - Natural History of Dinosaurs (DSC) - 3 - Credits

Course Overview

Course Prefix
GEO

Course Number
3250

Department
Geosciences

Course Title
Natural History of Dinosaurs (DSC)

General Education Attribute
DSC

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Dinosaurs are fascinating, amazing, bizarre, gigantic and tiny, and despite being extinct for millions of years they are the subject of this course, which emphasizes the scientific methodologies used in reconstructing these ancient creatures.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete at least 1 course in the following course sets:

- Breadth Physical Sciences (BPS) Course
- Breadth Life Sciences (BLS) Course

Course Learning Objectives

Course Learning Outcomes

1. Students will describe the fossilization process, including the geologic conditions that favor fossil preservation, and assess the scientific practices involved in the collection, preparation, and curation of dinosaur fossils.
2. Students will interpret the geological and temporal context of dinosaurs by applying principles of relative and absolute dating, and by reconstructing the paleogeography, climates, and continental positions of the Mesozoic Era.
3. Students will construct and evaluate phylogenetic trees using cladistic methods, and differentiate between homologous and analogous traits in the evolutionary history of dinosaurs.
4. Students will identify and describe key anatomical features of dinosaurs, including skeletal traits that define major clades such as Saurischia and Ornithischia, and explain how those traits relate to function and behavior.
5. Students will explain the origin, diversification, and evolutionary adaptations of major dinosaur groups (particularly theropods, sauropodomorphs, and ornithischians) with emphasis on locomotion, feeding, and social behavior.
6. Students will assess the evolutionary link between birds and non-avian theropod dinosaurs by analyzing shared anatomical features, feather morphology, and theories on the origin of flight.
7. Students will evaluate physiological and metabolic characteristics of dinosaurs, including respiratory systems, thermoregulation, growth rates, and bone histology, to determine whether some groups may have been endothermic.
8. Students will interpret the paleoecological roles and biogeographic distribution of dinosaurs using fossil evidence, and analyze their co-evolution with plants and other Mesozoic organisms.
9. Students will critique the historical development of dinosaur paleontology, from early discoveries and the “Bone Wars” to modern scientific revolutions in phylogenetics, imaging, and biomolecular techniques.
10. Students will synthesize the evidence for the Cretaceous-Paleogene mass extinction, evaluate competing hypotheses, and explain why some groups survived while dinosaurs (except birds) became extinct.

GEO3300 - Geology of the World's Oceans (DSC) - 3 - Credits

Course Overview

Course Prefix
GEO

Course Number
3300

Department
Geosciences

Course Title
Geology of the World's Oceans (DSC)

General Education Attribute
DSC

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Geologic evidence for the development of ocean basins and continental margins through plate tectonic processes. Also, the interaction of the geo- and biospheres and their effect on the evolution of the oceans and atmosphere. Discussion of shoreline and marine environments, the organisms inhabiting them, and the physical and chemical processes in operation therein. Three lectures per week.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete at least 1 course in the following course sets:

- Breadth Physical Sciences (BPS) Course

Course Learning Objectives

Course Learning Outcomes
1. Explain the formation and structure of the world's oceans, including plate tectonics, ocean basins, and seafloor features.
2. Describe the processes that shape continental margins, mid-ocean ridges, trenches, and seamounts.
3. Identify key physical properties of seawater (temperature, salinity, density) and how these influence ocean circulation.
4. Summarize the major components of ocean–atmosphere interactions and their role in global climate.
5. Evaluate the dynamics of waves, tides, and coastal processes and their implications for coastal environments (estuaries, deltas, rocky shores, barrier islands).
6. Compare marine ecosystems, including planktonic, benthic, and deep-sea communities.
7. Describe the role of plankton in global primary production and the carbon cycle.
8. Explain physiological and behavioral adaptations that allow marine organisms to survive in specific environments (deep sea, intertidal zones).
9. Distinguish between major marine ecosystems such as coral reefs, kelp forests, mangroves, seagrass meadows, and hydrothermal vent communities.
10. Evaluate human impacts on marine environments, including pollution, overfishing, habitat destruction, and ocean warming

GEO3400 - Communicating Geoscience (CI/DSC) - 3 - Credits

Course Overview

Course Prefix
GEO

Course Number
3400

Department
Geosciences

Course Title
Communicating Geoscience (CI/DSC)

General Education Attribute
CI, DSC

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
GEO 3400 is a communications intensive (CI) course that builds a foundation in geoscience writing, critical thinking, data processing and presentation, and oral presentation. Collectively, these skills facilitate communication and understanding of Earth science. Basic skills developed in this course are utilized in upper-division Geology major courses.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Corequisite

Type
Corequisite

Required

Enroll in the following Courses:

- GEO2200 - The Earth Through Time

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- GEO1110 - Physical Geology (BPS)

Course Learning Objectives

Course Learning Outcomes
1. Develop technical writing skills though writing activities.
2. Develop oral presentation, data processing and graphical skills.
3. Gain critical thinking with a focus on the separation of observations versus interpretations.

GEO3550 - Sedimentation and Stratigraphy - 4 - Credits

Course Overview

Course Prefix
GEO

Course Number
3550

Department
Geosciences

Course Title
Sedimentation and Stratigraphy

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students learn classification and analysis of sedimentary rocks and structures, with an emphasis on interpretation of ancient sedimentary environments. Controls on sedimentary processes over time and principles of stratigraphic correlation are taught in three lectures and one lab per week.

Credit Hours

Credit Hours
Min:
4

Contact Hours

Contact Hours
Min:
4

Billing Hours

Billing Hours
Min:
4

Lecture Hours

Lecture Hours
Min:
4

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Fulfill ALL of the following requirements:

Required

Complete ALL of the following Courses:

- GEO2200 - The Earth Through Time

AND one of the options below:

AND

Option 1

Complete ANY of the following Courses:

- MATH1060 - Trigonometry
  OR MATH1210 - Calculus I (QL)

AND

Option 2

AP Exam

- AP Calculus AB score of 3 or higher

Course Learning Objectives

Course Learning Outcomes
1. Develop and utilize an understanding of diverse Earth materials as recorders of geologic processes through a working knowledge of their composition and origin
2. Place important planet-forming and geologic-change events in a temporal framework, while comprehending the evolution of tectonic, climatic and biotic systems on Earth
3. Demonstrate an understanding of Earth surface processes, sedimentary systems, and geologic hazards as deciphered through deposits and landforms and focused on our region
4. Demonstrate an understanding of changing Earth surface environments over geologic and present time, as well as human impacts on Earth systems

GEO3600 - Geomorphology - 4 - Credits

Course Overview

Course Prefix
GEO

Course Number
3600

Department
Geosciences

Course Title
Geomorphology

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students learn about geomorphic processes, origin of landforms and surficial deposits. The course emphasizes fluvial and hillslope landscape elements, and surficial geologic mapping. Both lectures and labs are included.

Credit Hours

Credit Hours
Min:
4

Contact Hours

Contact Hours
Min:
4

Billing Hours

Billing Hours
Min:
4

Lecture Hours

Lecture Hours
Min:
4

Other Enrollment Recommendations
PHYS2210 PHYS SCI AND ENGR I (QI)(BPS)

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ANY of the following Courses:

- MATH1060 - Trigonometry
- MATH1100 - Calculus Techniques (QL)
- MATH1210 - Calculus I (QL)

OR Calculus AB score of 3 or higher

Course Learning Objectives

Course Learning Outcomes
1. Explain the major processes that shape Earth's surface—including weathering, fluvial, glacial, coastal, aeolian, and tectonic controls on landscape evolution.
2. Interpret landforms and geomorphic histories using field observations, topographic maps, DEMs, and aerial/satellite imagery.
3. Apply quantitative methods to analyze geomorphic systems, including erosion rates, sediment transport, stream power, and slope stability. Points 2 and 3 are enveloped in our field and classroom laboratory exercises worth 25% of the course grade.
4. Conduct and communicate field-based geomorphic investigations, collecting data, developing interpretations, and presenting results through clear maps, sketches, and written reports. We complete a 3-day field experience in Grand Teton National Park that culminates in a Field Report worth 15% of the course grade.
5. Evaluate the influence of climate, tectonics, and human activity on geomorphic processes and geologic hazards, and relate these controls to real-world landscape change.

GEO3700 - Structural Geology - 4 - Credits

Course Overview

Course Prefix
GEO

Course Number
3700

Department
Geosciences

Course Title
Structural Geology

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students examine the geometries, mechanisms, and mechanics of rock deformation including stress and strain relationships as well as fault and fold classification and description. Labs present techniques to interpret deformed rocks in map, cross-section, and three-dimensional views.

Credit Hours

Credit Hours
Min:
4

Contact Hours

Contact Hours
Min:
4

Billing Hours

Billing Hours
Min:
4

Lecture Hours

Lecture Hours
Min:
4

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- GEO3550 - Sedimentation and Stratigraphy
- PHYS2210 - Physics for Scientists and Engineers I (QI/BPS)
- PHYS2215 - Physics for Scientists and Engineers Lab I

(PHYS 2210 and PHYS 2215 may be taken concurrently with GEO 3700)

Course Learning Objectives

Course Learning Outcomes
1. Visualize and interpret structural geometries and their kinematic evolution during progressive deformation
2. Apply the principles of rock mechanics to quantitatively relate stress to strain under brittle and ductile conditions
3. Interpret the geological history of an area based on geologic maps, digital elevation models, cross-sections, and borehole data
4. Use observations of structures in 2d geometry from surface exposure or limited depth data to predict 3d geometry in the subsurface

GEO3800 - Applied Geoscience Techniques - 3 - Credits

Course Overview

Course Prefix
GEO

Course Number
3800

Department
Geosciences

Course Title
Applied Geoscience Techniques

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course focuses on obtaining pre-professional geoscience training for students entering a range of geoscience careers. Students learn and develop competency in diverse skills, including collecting, illustrating, and analyzing practical geoscience data, and working with uncertainty and indirect observations.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- GEO2200 - The Earth Through Time
- GEO2800 - Minerals and Rocks

Course Learning Objectives

Course Learning Outcomes

1. Develop technical skills and experience for a broad range of physical/ natural sciences career opportunities
2. Identify geoscience problems and apply a range of common field and laboratory methods and observations to collect, record, and organize new geological data
3. Describe, analyze, graph, illustrate, and evaluate geologic data derived from field and laboratory investigations and formulate conclusions supported with evidence
4. Compile, organize, and synthesize available information to plan and prepare for geological investigations and produce written reports and oral presentations
5. Strengthen teamwork skills by exchanging information and interpretating data collected in through team-led field and laboratory studies

GEO3900 - Geologic Field Methods (CI) - 3 - Credits

Course Overview

Course Prefix
GEO

Course Number
3900

Department
Geosciences

Course Title
Geologic Field Methods (CI)

General Education Attribute
CI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Introduction to methods and skills used in the field to observe, document, visualize, interpret, and communicate geologic information and Earth processes. Two extended course periods per week involving primarily outdoor excursions and some in-class lecture.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- GEO3600 - Geomorphology

(may be taken concurrently)

Course Learning Objectives

Course Learning Outcomes

1. Demonstrate foundational and core geologic field skills
2. Collect accurate and detailed field observations and data
3. Communicate geologic observations effectively (CI)
4. Interpret and communicate geologic history and processes (CI)

GEO4500 - Igneous and Metamorphic Petrology - 4 - Credits

Course Overview

Course Prefix
GEO

Course Number
4500

Department
Geosciences

Course Title
Igneous and Metamorphic Petrology

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Origin, processes of formation, classification, and identification of igneous and metamorphic rocks. Study of igneous and metamorphic rocks in hand specimens and thin sections. Three lectures and one three-hour lab per week.

Credit Hours

Credit Hours
Min:
4

Contact Hours

Contact Hours
Min:
4

Billing Hours

Billing Hours
Min:
4

Lecture Hours

Lecture Hours
Min:
4

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- GEO2800 - Minerals and Rocks

Course Learning Objectives

Course Learning Outcomes

1. Identify and characterize igneous and metamorphic rocks based upon textures and mineral assemblages in thin section, hand sample, and field relationships
2. Recognize tectonic controls on igneous and metamorphic petrogenesis, and the influence of petrogenetic processes on the distribution of ore deposits and geologic hazards
3. Integrate course concepts, independent research, and geochemical analyses to compile a geologic history of an area, landform, deposit, or rock specimen
4. Reinforce science communication skills (laboratory collaboration, sketches, geologic report and presentation)

GEO4800 - Senior Seminar - 1 - Credits

Course Overview

Course Prefix
GEO

Course Number
4800

Department
Geosciences

Course Title
Senior Seminar

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
This course is a seminar that explores current work in particular topics.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Special Approval

Instructor permission

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Engage with a wide range of fundamental and applied research topics via weekly seminars by invited speakers

GEO4850 - Internship/Co-op - 1 - 4 Credits

Course Overview

Course Prefix
GEO

Course Number
4850

Department
Geosciences

Course Title
Internship/Co-op

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
This course consists of educational work experience.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
4

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
4

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
4

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
4

Lecture Hours Operator:
TO

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Engage with applied experiences in geosciences through an internship
2. Apply appropriate professional/research/analytical methods to advance career preparation.

GEO4900 - Special Problems - 1 - 4 Credits

Course Overview

Course Prefix
GEO

Course Number
4900

Department
Geosciences

Course Title
Special Problems

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
Directed study of selected topics. Written report required. Prerequisite: Permission of instructor. Repeatable for credit. Check with major department for limitations on number of credits that can be counted for graduation.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
4

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
4

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
4

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
4

Lecture Hours Operator:
TO

Special Approval
Instructor permission

Other Enrollment Recommendations
Check with major department for limitations on number of credits that can be counted for graduation.

No Requirements

Course Learning Objectives

Course Learning Outcomes
1. Engage in independent, self-directed scholarly work under faculty supervision.
2. Apply appropriate research and analytical methods to advance undergraduate preparation

GEO5150 - Fluvial Geomorphology - 3 - Credits

Course Overview

Course Prefix
GEO

Course Number
5150

Department
Geosciences

Cross-Listed Courses
WATS5150 - Fluvial Geomorphology

Dual-Listed Courses
GEO6150 - Fluvial Geomorphology

Course Title
Fluvial Geomorphology

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Fluvial geomorphology is the study of rivers and how they shape the landscape. In this course, students will learn about river and floodplain forms and the physical and biotic processes that create them. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Course Learning Objectives

Course Learning Outcomes
1. Discuss the linkages between river channel and floodplain form and processes.
2. Evaluate river processes and trajectories from diverse data sources, including models, maps, and literature.
3. Apply fundamental knowledge about fluvial geomorphic processes to issues in river management and restoration.

GEO5200 - Geology Field Camp - 5 - Credits

Course Overview

Course Prefix
GEO

Course Number
5200

Department
Geosciences

Course Title
Geology Field Camp

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Integrative approach to examining geologic relationships in the field, deciphering geologic evolution of map regions, and interpreting the structure and distribution of rocks. Results presented in reports, maps, cross-sections, and graphical formats. Requires 40-45 hours of lab per week for 3.5-4.0 weeks.

Credit Hours

Credit Hours
Min:
5

Contact Hours

Contact Hours
Min:
5

Billing Hours

Billing Hours
Min:
5

Lecture Hours

Lecture Hours
Min:
5

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:
- GEO2800 - Minerals and Rocks
- GEO3550 - Sedimentation and Stratigraphy
- GEO3600 - Geomorphology
- GEO3700 - Structural Geology
- GEO3900 - Geologic Field Methods (CI)

Course Learning Objectives

Course Learning Outcomes
1. Observation and documentation of geologic (sedimentologic, structural, hydrologic, geomorphic, petrologic features) data

2. Separating observation from interpretation, and data integration into geologic interpretations
3. Presentation of field work results with maps, figures, and in writing

GEO5210 - GeoProfessional Field Practicum - 3 - Credits

Course Overview

Course Prefix
GEO

Course Number
5210

Department
Geosciences

Course Title
GeoProfessional Field Practicum

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This is an applied, geoscience workforce-focused field course. Practical geoscience skills, including field mapping, lithologic logging and well-log analyses, water and soil sampling, and surveying are combined with professional skills such as safety, site assessment, and reporting.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- GEO3800 - Applied Geoscience Techniques
- GEO4500 - Igneous and Metamorphic Petrology
- GEO3900 - Geologic Field Methods (CI)

Course Learning Objectives

Course Learning Outcomes

1. Recognize and characterize secondary ore and gangue (non-economic) minerals in waste rock (tailings) from the Copper Blossom Mine
2. Create a sampling and analysis plan for tailings and surrounding area to

characterize geology and identify and document environmental contamination
3. Integrate field observations and analyses to compile a report of the ore mineralization and environmental impact of mine waste, including recommendations for future work.
4. Reinforce science communication skills (field notes, sketches, maps, and geologic report)

GEO5360 - Volcanology - 3 - Credits

Course Overview

Course Prefix
GEO

Course Number
5360

Department
Geosciences

Dual-Listed Courses
GEO6360 - Volcanology

Course Title
Volcanology

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Provides students with a basic understanding of volcanic processes. Students gain an understanding of the range and scope of volcanoes and volcanic eruptions. Prehistoric volcanic eruptions reconstructed from their deposits. To receive graduate credit, student must write student grant proposal to do research in some area of volcanology relevant to hazards assessment.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Course Learning Objectives

Course Learning Outcomes

1. Describe how plate tectonic theory explains the global distribution and characteristics of volcanoes.
2. Explain how fundamental magma properties, including composition and viscosity, control eruption style and volcanic hazards.
3. Relate volcano types to morphology, eruption style, magma characteristics, and plate tectonic setting.
4. Recognize the association between igneous rock textures and mineralogy and volcanic processes, including emplacement and cooling history.
5. Discuss volcanic risk assessment and management and the role of scientists in communicating risks to the public
6. Evaluate the influence of volcanic activity on Earth systems, including the atmosphere and the biosphere.

GEO5390 - Sedimentary Petrology - 3 - Credits

Course Overview

Course Prefix
GEO

Course Number
5390

Department
Geosciences

Dual-Listed Courses
GEO6390 - Sedimentary Petrology

Course Title
Sedimentary Petrology

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students collect sedimentary rocks, make thin sections, use polarizing microscopes to identify common sedimentary minerals and characterize rock properties, classify siliclastic and carbonate rocks, propose a research project, and write and present the results of the project to peers.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- GEO2800 - Minerals and Rocks

Course Learning Objectives

Course Learning Outcomes
1 Students will competently operate a polarizing microscope and apply petrographic techniques to identify common sedimentary minerals and textures in thin section.
2 Students will classify siliciclastic and carbonate sedimentary rocks using compositional and textural criteria observed in hand samples and thin sections.
3 Students will interpret the diagenetic history of sedimentary rocks by recognizing features such as cementation, compaction, dissolution, dolomitization, and recrystallization.
4 Students will relate petrographic observations to depositional environments, using mineralogy, grain characteristics, and sedimentary structures to infer sediment provenance and basin history.
5 Students will collect and document field samples that address a specific sedimentary research question, demonstrating best practices in sample selection, stratigraphic context, and data recording.
6 Students will prepare thin sections from hand samples and describe mineralogical and textural features using standard petrographic terminology.
7 Students will analyze and interpret thin section data quantitatively, employing visual estimation methods, point counting, and data presentation tools such as spreadsheets or classification diagrams.
8 Students will compare and contrast the petrology and depositional processes of siliciclastic, carbonate, evaporitic, phosphatic, and siliceous sedimentary rocks.
9 Students will evaluate the petrologic characteristics of economically significant sedimentary deposits; including coal, petroleum reservoirs, banded iron formations, and cherts; and interpret their origins.
10 Students will design, write, and present an original sedimentary petrology research project that integrates field observations, laboratory data, and thin section analysis within a scientific framework.

GEO5410 - Advanced Stratigraphy - 3 - Credits

Course Overview

Course Prefix
GEO

Course Number
5410

Department
Geosciences

Dual-Listed Courses
GEO6410 - Advanced Stratigraphy

Course Title
Advanced Stratigraphy

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students study correlation of clastic and carbonate rocks, and depositional and erosional systems in marine and continental sedimentary basins, learning sequence stratigraphy, chemostratigraphy, paleomagnetism and biostratigraphy, sedimentary responses to changes in base level, and influences of tectonic and climatic forces.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- GEO3550 - Sedimentation and Stratigraphy

Course Learning Objectives

Course Learning Outcomes
1 Students will integrate and analyze stratigraphic data from multiple sources; including outcrops, well logs, seismic profiles, and cores, to reconstruct depositional environments and correlate sedimentary units.
2 Students will interpret sedimentary successions in terms of depositional processes, base-level changes, and accommodation space, and reconstruct the evolution of sedimentary basins through time.
3 Students will apply principles of sequence stratigraphy to identify stratigraphic surfaces, system tracts, and sequences in clastic and carbonate settings, and relate them to tectonic and eustatic controls.
4 Students will evaluate the use of biostratigraphy, magnetostratigraphy, and chemostratigraphy as chronostratigraphic tools to build and refine temporal frameworks in the rock record.
5 Students will perform facies analysis to interpret depositional settings, recognize facies associations, and construct depositional models in both marine and non-marine systems.
6 Students will use seismic and well log data to interpret stratigraphic architecture, delineate stratigraphic traps, and assess subsurface resource potential.
7 Students will assess the relationship between tectonic regimes and sedimentary systems, with emphasis on foreland basins, sequence stacking patterns, and sediment routing.
8 Students will analyze shoreline trajectories, stratigraphic surfaces, and sedimentary architectures to infer past shoreline migration and sea-level changes.
9 Students will synthesize lithologic, stratigraphic, and geophysical data to make predictions about hydrocarbon-bearing intervals and stratigraphic traps in Utah's sedimentary basins.
10 Students will evaluate the hierarchical organization of stratigraphic sequences and recognize their significance in interpreting basin history, resource distribution, and global geologic events.

GEO5420 - Ore Deposits - 3 - Credits

Course Overview

Course Prefix
GEO

Course Number
5420

Department
Geosciences

Dual-Listed Courses
GEO6420 - Ore Deposits

Course Title
Ore Deposits

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course is designed as an introduction to ore deposits and ore-forming processes. The chief objectives are (1) a basic understanding of how ore deposits form, (2) to learn how ore deposits are classified, and (3) to understand the origins of different types of ore deposits. The primary focus is on metallic mineral deposits, but some of the more important non-metallic deposits will also be covered, excluding hydrocarbons. Graduate students will write an additional research proposal.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Other Enrollment Recommendations
GEO4500 IGNEOUS/METAMORPHIC PETROLOGY

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- GEO2800 - Minerals and Rocks

Course Learning Objectives

Course Learning Outcomes
1. Recognize and characterize secondary ore and gangue (non-economic) minerals in waste rock (tailings) from the Copper Blossom Mine tailings
2. Create a sampling and analysis plan for tailings and surrounding area to characterize mineralogy, and identify and document environmental contamination
3. Integrate field observations and analyses to compile a report of the ore mineralization and environmental impact of mine waste, including recommendations for either additional ore processing or environmental remediation
4. Reinforce science communication skills (field notes, sketches, maps, and report)

GEO5430 - Invertebrate Paleontology and Paleobotany - 3 - Credits

Course Overview

Course Prefix
GEO

Course Number
5430

Department
Geosciences

Dual-Listed Courses
GEO6430 - Invertebrate Paleontology and Paleobotany

Course Title
Invertebrate Paleontology and Paleobotany

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course surveys prominent invertebrate groups, including their diagnostic morphologic features, stratigraphic ranges, and environmental tolerances. It equips students with the necessary information and techniques to enable them to recognize and utilize fossils in stratigraphic and paleoenvironmental interpretation. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- GEO2200 - The Earth Through Time

Course Learning Objectives

Course Learning Outcomes
1 Students will describe the processes that control fossil preservation and evaluate the completeness and biases of the fossil record across different environments and taxa.
2 Students will identify and describe fossil specimens using standard paleontological terminology, including morphology, ontogenetic variation, and taphonomic features.
3 Students will apply the principles of biological taxonomy and the rules of zoological and botanical nomenclature to recognize, name, and classify fossil species.
4 Students will construct and interpret phylogenetic trees using morphological character data, and explain how cladistic methods reveal evolutionary relationships among fossil organisms.
5 Students will use invertebrate fossils as biostratigraphic and paleoenvironmental indicators to determine the relative age of rock units and reconstruct ancient marine and terrestrial settings.
6 Students will compare major groups of fossil invertebrates; including sponges, cnidarians, bryozoans, brachiopods, mollusks, echinoderms, graptolites, and arthropods; describing their anatomy, evolutionary significance, and ecological roles.
7 Students will interpret trace fossils (ichnology) as evidence of organismal behavior, sediment interaction, and depositional environments.
8 Students will summarize the fossil record of major plant groups; including algae, bryophytes, lycopods, horsetails, ferns, gymnosperms, and angiosperms and explain key evolutionary transitions such as the colonization of land and the origin of seeds and flowers.
9 Students will analyze how fossil plants are used to reconstruct paleoclimates and paleoenvironments, with examples from important formations such as the Green River Formation.
10 Students will synthesize the relationships between major evolutionary events; such as the diversification of angiosperms, mass extinctions, and the rise of modern ecosystems; to explain how the fossil record informs our understanding of life's history on Earth.

GEO5440 - Vertebrate Paleontology (CI) - 3 - Credits

Course Overview

Course Prefix
GEO

Course Number
5440

Department
Geosciences

Dual-Listed Courses
GEO6440 - Vertebrate Paleontology

Course Title
Vertebrate Paleontology (CI)

General Education Attribute
CI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description

This course covers the rich vertebrate fossil record, exploring fish, amphibians, reptiles, dinosaurs, birds, and mammals. Students will learn about vertebrate evolution, field collection methods, and their significance in dating and understanding Earth's history. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Course Learning Objectives

Course Learning Outcomes

1 Students will be able to describe and analyze the evolutionary origin of chordates and vertebrates using embryological, anatomical, and fossil evidence.
2 Students will evaluate and interpret the fossilization process, taphonomic pathways, and the geological contexts that favor vertebrate fossil preservation.
3 Students will use cladistics and phylogenetic systematics to construct and interpret evolutionary relationships among vertebrate taxa.
4 Students will identify major groups of extinct and extant jawless and jawed vertebrates, and explain the anatomical innovations that characterize each group through time.
5 Students will analyze the evolutionary transition from aquatic to terrestrial vertebrates, including key adaptations in morphology, physiology, and behavior.
6 Students will compare the skeletal and dental features of major vertebrate lineages, with emphasis on amniotes, synapsids, and diapsids, and assess their evolutionary significance.
7 Students will evaluate the diversity and evolutionary trends in Mesozoic vertebrates, including dinosaurs, pterosaurs, and marine reptiles, and interpret their adaptations and extinction patterns.
8 Students will trace the evolutionary origin of flight in vertebrates, focusing on birds and their Mesozoic precursors, and explain the anatomical changes involved.
9 Students will examine the evolutionary history of mammals, including key transitional fossils, and differentiate between major clades such as monotremes, marsupials, and placentals.
10 Students will assess the fossil evidence for primate and human evolution, and synthesize how anatomical and behavioral changes reflect broader evolutionary trends through the Cenozoic.

GEO5450 - Deep Time - 3 - Credits

Course Overview

Course Prefix
GEO

Course Number
5450

Department
Geosciences

Dual-Listed Courses
GEO6450 - Deep Time: Studying the Earth's Expansive Past

Course Title
Deep Time

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Course addresses pre-Quaternary, large-scale Earth systems changes, with a focus on the Precambrian and Paleozoic records, and the Eocene records. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Course Learning Objectives

Course Learning Outcomes

1. Analyze and explain published research papers and book chapters on Deep Time topics, including the super continent cycle and plate tectonics, the evolution of the atmosphere, biologic evolution, the sedimentary record, and the Geologic Time Scale.
2. Review a spectrum of geologic methods, including cutting-edge techniques use to interrogate the early Earth (e.g., geochronology, geochemical proxies, astrochronology).
3. Observe, collect, measure, describe and interpret a variety of rock types, geologic relationships and features in the field, and interpret their significance in Earth's evolution.
4. Document and synthesize the geologic history of Antelope Island, UT, High Creek, UT and Death Valley, CA with an emphasis on Archean through Ordovician Earth systems behaviors.
5. Present professional-level oral and written reports on describing and interpreting the rock record from field observation and data collection, and synthesizing the literature (may include undergraduate and graduate research projects already in progress).
6. Construct a profound knowledge base of the early Earth while improving field and communication skills.

GEO5470 - Chemical Sedimentary Rocks - 3 - Credits

Course Overview

Course Prefix
GEO

Course Number
5470

Department
Geosciences

Dual-Listed Courses
GEO6470 - Chemical Sedimentary Rocks

Course Title
Chemical Sedimentary Rocks

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers the application of field observations, hand-sample, thin-section, and X-ray diffraction analyses to the interpretation of chemical sedimentary rocks. It emphasizes determination of depositional environment and evaluation of diagenetic changes. It includes three lectures and one lab per week. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- GEO2800 - Minerals and Rocks
- GEO3550 - Sedimentation and Stratigraphy

Course Learning Objectives

Course Learning Outcomes

1. Explain the basic chemistry of the carbonate system and the factors affecting carbonate precipitation, solubility, and mineralogy.
2. Understand the characteristics of the “Carbonate Factory” and environmental factors that control sedimentation within it.
3. Identify the main components (grain types, matrix, cements, spar) of carbonate rocks and explain their origin in the carbonate system
4. Classify carbonate rocks based on the grain vs. matrix content and depositional texture using the Folk and Dunham classification schemes, respectively.
5. Summarize the development and importance of carbonate porosity and diagenesis.
6. Compare the depositional environments, sedimentary facies, and sequences (cycles) on carbonate platforms, shelves, and ramps.
7. Apply this knowledge to the description and interpretation of local carbonate strata.

GEO5480 - Tectonics of Sedimentary Basins - 3 - Credits

Course Overview

Course Prefix
GEO

Course Number
5480

Department
Geosciences

Dual-Listed Courses
GEO6480 - Tectonics of Sedimentary Basins

Course Title
Tectonics of Sedimentary Basins

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides detailed coverage of sedimentary basin analysis techniques, including depositional systems, provenance, basin modeling, and fluid and heat flow history. It surveys types of sedimentary basins worldwide. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- GEO2800 - Minerals and Rocks
- GEO3550 - Sedimentation and Stratigraphy

Course Learning Objectives

Course Learning Outcomes

1. Explain the interconnectedness of depositional and structural processes to first create, then fill, and finally preserve and/or destroy sedimentary basins.
2. Summarize criteria for classifying sedimentary basins.
3. Compare the tools geoscientists use to study the tectonics of sedimentary basins.
4. Understand major structural, tectonic, and geodynamic mechanisms that produce basins and the major sedimentologic and stratigraphic processes that fill them.
5. Examine characteristics of sedimentary basins in divergent, convergent, transform, and intraplate tectonic settings.
6. Compare diagnostic features of sedimentary basins with different tectonic origins.
7. Synthesize various datasets to interpret the tectonic origin of a sedimentary basin.
8. Debate basin interpretations from the scientific literature, critique the strength of their arguments given the available geologic data, and rank their validity.

GEO5490 - Facies Analysis of Sedimentary Rocks - 3 - Credits

Course Overview

Course Prefix
GEO

Course Number
5490

Department
Geosciences

Dual-Listed Courses
GEO6490 - Facies Analysis of Sedimentary Rocks

Course Title
Facies Analysis of Sedimentary Rocks

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course will cover topics including sedimentary processes and results, contacts, facies analysis, sequence stratigraphy, and implications of sedimentologic studies. Lectures, field trips, literature review, and geologic writing will be emphasized, with 6000 level credit earned through student presentations and a semester project.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- GEO3550 - Sedimentation and Stratigraphy

Course Learning Objectives

Course Learning Outcomes
1. Gain experience identifying and interpreting a wide range of sedimentary structures from field examples and the literature including discussions of controversial interpretations
2. Employ advanced field methods in sedimentology and stratigraphy including quantitatively measuring sedimentary structures, recognizing and mapping unconformities, and exploring the cyclic nature of strata.
3. Differentiate between depositional models versus facies models through field examples and the literature.
4. Present professional-level oral and written reports on describing and interpreting the sedimentary record from field observation and data collection and synthesizing the literature (may include undergraduate and graduate research topics already in progress).

GEO5500 - Advanced Igneous Petrology - 4 - Credits

Course Overview

Course Prefix
GEO

Course Number
5500

Department
Geosciences

Dual-Listed Courses
GEO6500 - Advanced Igneous Petrology

Course Title
Advanced Igneous Petrology

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Advanced concepts in the origin and evolution of magmatic systems, effects of different tectono thermal regimes on magma genesis, magma dynamics, and phase equilibria in magmatic systems. Concepts illustrated by rock suites from classic locations. Three lectures and three laboratory hours each week.

Credit Hours

Credit Hours Min:
4

Contact Hours

Contact Hours Min:
4

Billing Hours

Billing Hours Min:
4

Lecture Hours

Lecture Hours Min:
4

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- GEO4500 - Igneous and Metamorphic Petrology

Course Learning Objectives

Course Learning Outcomes
1. Combine field, analytical, and modeling data to develop and test hypotheses on the petrogenesis of igneous and metamorphic rocks.
2. Describe the mineralogy, textures, and structures of igneous and metamorphic rocks using a petrographic microscope and interpret equilibrium and disequilibrium conditions during rock formation.
3. Explain magma differentiation and metamorphic reactions graphically using phase diagrams.
4. Understand and utilize modern geochemical tools, including major and trace element analysis, to constrain petrogenetic processes.
5. Constrain igneous and metamorphic processes using geochemical data and petrogenetic modeling tools.
6. Critically evaluate and present current scientific literature on igneous and metamorphic petrology.
7. Design and conduct independent research on a suite of igneous or metamorphic rocks from initial field sampling and geochemical analysis, to final interpretation and presentation of results.

GEO5510 - Groundwater Geology (QI) - 3 - Credits

Course Overview

Course Prefix
GEO

Course Number
5510

Department
Geosciences

Course Title
Groundwater Geology (QI)

General Education Attribute
QI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Provides graduate students and senior undergraduates with understanding of fundamental principles of groundwater geology and hydrology, and helps prepare them for careers in hydrogeology or environmental geology. Three lectures per week.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Other Enrollment Recommendations
GEO3600 GEOMORPHOLOGY or WATS3600 GEOMORPHOLOGY

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Fulfill ALL of the following requirements:

Required

Complete ALL of the following Courses:

- GEO1110 - Physical Geology (BPS)

AND

Required

Complete ANY of the following Courses:

- MATH1100 - Calculus Techniques (QL)
  OR MATH1210 - Calculus I (QL)

Course Learning Objectives

Course Learning Outcomes

1. Know where groundwater fits into the hydrologic cycle, and be able to calculate baseflow recession
2. Understand fundamental hydrogeologic concepts and know the definitions of key terms
3. Know how to quantify the abilities of geologic materials to store and transmit groundwater
4. Understand hydraulic head and fluid potential, and be able to construct both qualitative and quantitative groundwater flow nets
5. Become familiar with flow system analysis, including both the analytical and numerical approaches, as well as local, intermediate and regional groundwater flow systems
6. Know how to use pumping test data to calculate transmissivity and storativity
7. Understand basic groundwater chemistry, and be able to present hydrochemical data using several graphical techniques
8. Understand the basic principles of groundwater contaminant transport, including transport through homogeneous, heterogeneous and fractured media, as well as retardation
9. Become familiar with the fundamental concepts associated with groundwater development and management

GEO5520 - Techniques of Groundwater Investigations (CI) - 3 - Credits

Course Overview

Course Prefix
GEO

Course Number
5520

Department
Geosciences

Dual-Listed Courses
GEO6520 - Techniques of Groundwater Investigations

Course Title
Techniques of Groundwater Investigations (CI)

General Education Attribute
CI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Survey of techniques used in groundwater investigations for collecting physical and chemical data. Includes well drilling and construction; water level, flow rate, and discharge measurements; hydraulic and tracer tests; and groundwater sampling.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- GEO5510 - Groundwater Geology (QI)

Course Learning Objectives

Course Learning Outcomes

1. Understand the differences between piezometers, monitor wells and water-supply wells
2. Understand the differences between the five main drilling techniques; namely, cable tool, mud rotary, air rotary, air percussion and reverse-circulation rotary
3. Know how to drill and complete a water-supply well, including installation of the casing, well screen, filter pack, seal(s) and pump, as well as well development and rehabilitation
4. Know how to drill and complete piezometers and monitor wells
5. Understand which hydraulic parameters can be measured in a laboratory, and which techniques are available to measure them
6. Know how to conduct, and calculate hydraulic parameters using, step-drawdown, specific-capacity and slug tests, as well as other single-well and multiple-well hydraulic tests
7. Know how to measure water levels in wells
8. Know how to measure the discharge from a pipe and of a stream
9. Know how to collect water samples from wells
10. Become familiar with groundwater tracer tests, including both single-well and multiple-well tests, as well as various types of tracers

GEO5540 - Quantitative Methods in Geology (QI) - 3 - Credits

Course Overview

Course Prefix
GEO

Course Number
5540

Department
Geosciences

Dual-Listed Courses
GEO6540 - Quantitative Methods in Geology

Course Title
Quantitative Methods in Geology (QI)

General Education Attribute
QI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course (which includes three lecture hours per week) covers the application of quantitative, computer-based methodologies to geologic problems, with emphasis on developing coding skills to leverage computational power. Previous experience with programming languages (R/MATLAB) is helpful but not required. Additional coursework is required for those enrolled in the graduate-level course, including student presentation on thesis research methodology.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Fulfill ALL of the following requirements:

Required

Complete ANY of the following Courses:

- GEO3550 - Sedimentation and Stratigraphy
  OR GEO3600 - Geomorphology

AND

Required

Complete ALL of the following Courses:

- MATH1210 - Calculus I (QL)

Course Learning Objectives

Course Learning Outcomes
1.Gain a basic proficiency in computer coding using the programming language MATLAB
2. Apply MATLAB skills to solve quantitative problems specific to Earth Science
3. Design, write, and execute a MATLAB script to perform operations or solve problems specific to each student's research or interests.

GEO5570 - Engineering Geology (QI) - 3 - Credits

Course Overview

Course Prefix
GEO

Course Number
5570

Department
Geosciences

Course Title
Engineering Geology (QI)

General Education Attribute
QI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces basic concepts in engineering geology, which is the interdisciplinary study of geology applied to engineering. It may be used to bridge a gap between geology and civil engineering. It focuses primarily on quantitative problem solving.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Fulfill ALL of the following requirements:

Required

Complete ALL of the following Courses:

- GEO1110 - Physical Geology (BPS)

AND

Required

Complete ANY of the following Courses:

- MATH1060 - Trigonometry
  OR MATH1210 - Calculus I (QL)

Course Learning Objectives

Course Learning Outcomes

1. Describe soils and determine their physical characteristics, such as grain size, water content and void ratio
2. Classify soils
3. Determine compaction of soils
4. Understand the importance of soil investigations and be able to plan a soil investigation
5. Understand the concept of effective stress
6. Determine total and effective stresses and pore water pressures
7. Determine soil permeability
8. Determine how surface stresses are distributed within a soil mass
9. Specify, conduct and interpret soil tests to characterize soils
10. Determine soil strength and deformation parameters from soil tests; for example, Young's modulus, friction angle and undrained shear strength
11. Discriminate between "drained" and "undrained" conditions
12. Understand the effects of seepage on the stability of structures
13. Estimate the bearing capacity and settlement of structures founded on soils
14. Analyze and design simple foundations
15. Determine the stability of earth structures; for example, retaining walls and slopes

GEO5590 - Geodesy and Crustal Deformation - 3 - Credits

Course Overview

Course Prefix
GEO

Course Number
5590

Department
Geosciences

Dual-Listed Courses
GEO6590 - Geodesy and Crustal Deformation

Course Title
Geodesy and Crustal Deformation

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces the fundamentals of measurement of the Earth's shape and gravity, and some basic tools for modeling temporal changes in the shape of the Earth's surface and its gravitational potential. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Course Learning Objectives

Course Learning Outcomes

1. Understand the measurement tools and modeling tools for modern geodesy
2. Examine their important applications in climate science, hazards analysis and resource evaluation, illuminating: Earth as a complex system, Hydrogeology and water science, Climate change
3. Hone core geoscience skills in: Critical thinking and problem solving, accessing and integrating information from different sources, understanding and using scientific research methods, applying strong quantitative skills

GEO5600 - Geochemistry - 4 - Credits

Course Overview

Course Prefix
GEO

Course Number
5600

Department
Geosciences

Course Title
Geochemistry

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Application of thermodynamics, solution chemistry, phase diagrams, and both radioactive and stable isotopes to the understanding of earth processes. Three lectures per week.

Credit Hours

Credit Hours
Min:
4

Contact Hours

Contact Hours
Min:
4

Billing Hours

Billing Hours
Min:
4

Lecture Hours

Lecture Hours
Min:
4

Other Enrollment Recommendations
MATH1210 CALCULUS I (QL)

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- CHEM1210 - Principles of Chemistry I
- GEO2800 - Minerals and Rocks

Course Learning Objectives

Course Learning Outcomes

1. Apply chemical concepts to geological processes
2. Use geochemical principles and data to solve geological problems
3. Improve quantitative skills
4. Practice and improve scientific writing skills
5. Gain hands-on geochemistry laboratory experience

GEO5620 - Global Geophysics (QI) - 3 - Credits

Course Overview

Course Prefix
GEO

Course Number
5620

Department
Geosciences

Dual-Listed Courses
GEO6620 - Global Geophysics

Course Title
Global Geophysics (QI)

General Education Attribute
QI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Application of physics to understanding geologic processes, the earth's interior, and the theory of plate tectonics. Two lectures and one two-hour lab per week.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- GEO3700 - Structural Geology
- PHYS2220 - Physics for Scientists and Engineers II (BPS/QI)

Course Learning Objectives

Course Learning Outcomes

1. Define the major structures of the solid earth.
2. Cover the fundamentals of geophysics: gravity, elasticity, fluid mechanics, heat flow and magnetism.
3. Translate geophysical problems into a quantitative framework.

GEO5630 - Remote Sensing for Geoscientists - 3 - Credits

Course Overview

Course Prefix
GEO

Course Number
5630

Department
Geosciences

Dual-Listed Courses

GEO6630 - Remote Sensing for Geoscientists

Course Title

Remote Sensing for Geoscientists

Grade Mode
Standard Letter

Repeat Status
NR

Course Description

Introduction to collection, interpretation, and analysis of aerial photographs, satellite imagery and digital elevations models. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- GEO3600 - Geomorphology
- GEO3700 - Structural Geology

Course Learning Objectives

Course Learning Outcomes

1. Interpret geologic features from aerial photographs, satellite imagery, and digital elevation models
2. Use remote sensing data to assess the potential for mass wasting, fault surface rupture, sea level, and volcanic hazards
3. Use remote sensing data to identify potential locations for natural resource exploration
4. Generate and analyze time series to monitor earth processes from remote sensing data

GEO5640 - Introduction to Seismology - 3 - Credits

Course Overview

Course Prefix
GEO

Course Number
5640

Department
Geosciences

Dual-Listed Courses

GEO6640 - Introduction to Seismology

Course Title

Introduction to Seismology

Grade Mode
Standard Letter

Repeat Status
NR

Course Description

This course introduces the mathematical fundamentals of the elastic wave equation, and some basic tools for characterizing seismic sources and imaging variations of material properties in the Earth's interior. For 6000-level graduate credit, students must complete a semester project and additional problem set assignments.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Course Learning Objectives

Course Learning Outcomes

1. Understand the fundamentals of seismology, with applications to current events and problems in a wide range of geoscience disciplines
2. Utilize strong computational skills for managing and analyzing multi-component datasets
3. Describe large-scale internal Earth processes and the features produced by them
4. Produce and interpret geophysical measurements of subsurface properties

GEO5650 - Senior Thesis - 1 - 4 Credits

Course Overview

Course Prefix
GEO

Course Number
5650

Department
Geosciences

Course Title
Senior Thesis

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
This course consists of individually directed work with a particular faculty member resulting in the preparation, submission and completion of an undergraduate thesis.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
4

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
4

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
4

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
4

Lecture Hours Operator:
TO

Special Approval

Instructor permission

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Engage in independent, self-directed scholarly work under faculty supervision.
2. Apply appropriate research and analytical methods towards completing a senior thesis

GEO5660 - Applied Geophysics - 4 - Credits

Course Overview

Course Prefix
GEO

Course Number
5660

Department
Geosciences

Dual-Listed Courses
GEO6660 - Applied Geophysics

Course Title
Applied Geophysics

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Field-oriented course involving data collection, data analysis, and overview/ introduction of geophysical imaging and analysis of the subsurface. For GEO 6660, students must complete a written project and presentation.

Credit Hours

Credit Hours
Min:
4

Contact Hours

Contact Hours
Min:
4

Billing Hours

Billing Hours
Min:
4

Lecture Hours

Lecture Hours
Min:
4

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- MATH1210 - Calculus I (QL)
- PHYS2210 - Physics for Scientists and Engineers I (QI/BPS)
- PHYS2220 - Physics for Scientists and Engineers II (BPS/QI)

Course Learning Objectives

Course Learning Outcomes

1. Cursory knowledge of the most widely-used tools for imaging structure of the Earth's shallow interior
2. A basic understanding of how we estimate in situ material properties such as mass density, seismic velocity and electrical conductivity
3. An understanding of how we infer desirable properties such as rock lithology and pore fluid content from geophysical properties
4. Hone core geoscience skills in:
   • Describing and interpreting structures & properties of Earth's interior
   • Understanding how science works via inquiry, observation, verification, teamwork, and critical thinking
   • Understanding and creating maps, working with subsurface data, field and laboratory methods, and data reduction and analysis
   • Application of principles of mathematics, chemistry, and physics, as well as computational tools, to the analysis of geologic data and solution of problems

GEO5670 - Inverse Theory - 3 - Credits

Course Overview

Course Prefix
GEO

Course Number
5670

Department
Geosciences

Dual-Listed Courses
GEO6670 - Inverse Theory

Course Title
Inverse Theory

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces the mathematical tools for optimizing model parameters (and estimating uncertainties for a given set of observational measurements. For 6000-level graduate credit, students must complete a semester project and additional problem set assignments.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Fulfill ANY of the following requirements:

Option 1

Complete ALL of the following Courses:

- MATH1210 - Calculus I (QL)
  AND MATH1220 - Calculus II (QL)

OR

Option 2

Complete ALL of the following Courses:

- STAT3000 - Statistics for Scientists (QI)

Course Learning Objectives

Course Learning Outcomes

1. Understand the principals of linear algebra and statistics that underpin all geophysical model parameterization
2. Hone geoscience tools for determining properties of Earth's interior, including:
   • how the enterprise of science works via inquiry, observation, verification, teamwork, and critical thinking
   • skills for the study and interpretation of geological materials, history, and features, such as understanding and creating maps, working with subsurface data, and data reduction and analysis
   • Apply principles of mathematics and physics, as well as computational tools, to the analysis and solution of geoscience data and problems

GEO5680 - Paleoclimatology - 3 - Credits

Course Overview

Course Prefix
GEO

Course Number
5680

Department
Geosciences

Cross-Listed Courses
PSC5680 - Paleoclimatology, WATS5680 - Paleoclimatology

Dual-Listed Courses
GEO6680 - Paleoclimatology

Course Title
Paleoclimatology

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Covers climate through the past four billion years of geologic time. Explores driving forces behind climate changes. Examines data and methods used in paleoclimate research. Includes discussion of literature and stresses local paleoclimate records. Three lectures per week, along with field trips.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ANY of the following Courses:

- GEO3600 - Geomorphology
  OR WATS3600 - Geomorphology

Course Learning Objectives

Course Learning Outcomes

1. Understand the basis for climate change science, including understanding the causes of past climate change and feedbacks within the climate system
2. Be familiar with the methods and proxies used to reconstruct past climate
3. Compare your understanding of natural climate change during the last 100,000 years to climate change in the last few decades to centuries.
4. Strengthen skills in comprehending scientific literature and improved writing skills

GEO5690 - Geodynamics - 3 - Credits

Course Overview

Course Prefix
GEO

Course Number
5690

Department
Geosciences

Dual-Listed Courses
GEO6690 - Geodynamics

Course Title
Geodynamics

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course examines the physical processes that drive deformation and a wide variety of the other geological phenomena, including processes and observations of heat transfer, the role of gravity in stress and strain, and the various different flavors of rock rheology. Observational metrics (including geochemistry, laboratory measurements, and geophysical measurements of rock properties) will also be covered. For 6000-level graduate credit, students must complete a semester project and additional problem set assignments.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Course Learning Objectives

Course Learning Outcomes
Course objectives are to develop a quantitative understanding of dynamical processes in the solid Earth, including:

1. Processes and properties of heat transport
2. Chemistry and rheology of the Earth, and how they define plate tectonics and geologic hazards
3. Transport of volatiles in the Earth's interior and the outsize role volatiles play in dynamical processes
4. Fundamental properties underpinning concepts of Earth's lithosphere and asthenosphere
5. Hone core geoscience skills including:
   - Earth as a Complex System
   - Earth Materials
   - Earth Structure
   - Applying Strong Quantitative Skills

GEO5900 - Topics for Teachers - 1 - 4 Credits

Course Overview

Course Prefix
GEO

Course Number
5900

Department
Geosciences

Course Title
Topics for Teachers

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Special topics in geology for elementary and secondary science teachers to provide an understanding of the geology of Utah and the Western United States. Emphasis on field and lab activities.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
4

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
4

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
4

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
4

Lecture Hours Operator:
TO

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ANY of the following Courses:

- GEO1010 - Introduction to Geology (BPS)

OR GEO1060 - Introduction to Environmental Geoscience (BPS)
OR GEO1110 - Physical Geology (BPS)

Course Learning Objectives

Course Learning Outcomes

1. Engage with special topics in Earth science teaching under faculty direction
2. Strengthen skills in science education and pedagogy through in-class discussions and presentations
3. other course learning outcomes to be determined

GEO6050 - Graduate Seminar in Tectonics (Topic) - 1 - 3 Credits

Course Overview

Course Prefix
GEO

Course Number
6050

Department
Geosciences

Dual-Listed Courses
GEO7050 - Graduate Seminar in Tectonics (Topic)

Course Title
Graduate Seminar in Tectonics (Topic)

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Advanced topics of current interest in tectonics and orogenesis.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

No Requirements

Course Learning Objectives

Course Learning Outcomes
1. Engage with special topics in tectonics under faculty direction
2. Strengthen skills in comprehending scientific literature and articulating the results of scientific research through in-class discussions and presentations
3. other course learning outcomes to be determined

GEO6100 - Graduate Seminar in Geomorphology (Topic) - 1 - 3 Credits

Course Overview

Course Prefix
GEO

Course Number
6100

Department
Geosciences

Dual-Listed Courses
GEO7100 - Graduate Seminar in Geomorphology (Topic)

Course Title
Graduate Seminar in Geomorphology (Topic)

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Advanced topics of current interest in geomorphology and landscape evolution.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

No Requirements

Course Learning Objectives

Course Learning Outcomes
1. Improve understanding of geomorphic concepts and processes
2. Become familiar with foundational studies within geomorphology
3. Understand new methods and applications within the field of geomorphology
4. Strengthen skills in comprehending scientific literature and articulating the results of scientific research through in-class discussions and presentations

GEO6150 - Fluvial Geomorphology - 3 - Credits

Course Overview

Course Prefix
GEO

Course Number
6150

Department
Geosciences

Cross-Listed Courses
WATS6150 - Fluvial Geomorphology

Dual-Listed Courses
GEO5150 - Fluvial Geomorphology

Course Title
Fluvial Geomorphology

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Fluvial geomorphology is the study of rivers and how they shape the landscape. In this course, students will learn about river and floodplain forms and the physical and biotic processes that create them. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Course Learning Objectives

Course Learning Outcomes
1. Discuss the linkages between river channel and floodplain form and processes.
2. Evaluate river processes and trajectories from diverse data sources, including models, maps, and literature.
3. Apply fundamental knowledge about fluvial geomorphic processes to issues in river management and restoration.

GEO6190 - Aqueous Geochemistry - 3 - Credits

Course Overview

Course Prefix
GEO

Course Number
6190

Department
Geosciences

Course Title
Aqueous Geochemistry

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course will investigate chemical reactions occurring in natural waters focusing on the thermodynamic and kinetic descriptions of chemical speciation, mineral dissolution and precipitation, and redox cycling.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- CHEM1220 - Principles of Chemistry II (BPS)
- GEO2800 - Minerals and Rocks
- MATH1210 - Calculus I (QL)

Course Learning Objectives

Course Learning Outcomes
1. Apply thermodynamic and kinetic principles to understand the types and rates of geochemical processes that control the chemistry of surface and ground waters;
2. Strengthen data interpretation and presentation techniques including basic geochemical modeling using industry standard software (e.g., PHREEQC);
3. Learn how to approach and solve problems concerning water quality, contaminant transport, and water-rock interaction; and
4. Learn water sample collection and laboratory analysis techniques.

GEO6200 - Graduate Seminar in Geochemistry (Topic) - 1 - 3 Credits

Course Overview

Course Prefix
GEO

Course Number
6200

Department
Geosciences

Dual-Listed Courses
GEO7200 - Graduate Seminar in Geochemistry (Topic)

Course Title
Graduate Seminar in Geochemistry (Topic)

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Advanced topics of current interest in geochemistry.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Engage with special topics in geochemistry under faculty direction
2. Strengthen skills in comprehending scientific literature and articulating the results of scientific research through in-class discussions and presentations
3. other course learning outcomes to be determined

GEO6250 - Rock Deformation and Earthquake Mechanics - 3 - Credits

Course Overview

Course Prefix
GEO

Course Number
6250

Department
Geosciences

Dual-Listed Courses
GEO7250 - Rock Deformation and Earthquake Mechanics

Course Title
Rock Deformation and Earthquake Mechanics

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course explores the fundamentals of rock fracture, friction, and failure with applications to earthquakes, glacial sliding, petroleum reservoirs, and geothermal systems. This course is designed for graduate students in earth sciences and engineering. Two lectures per week with frequent hands-on lab experience.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- MATH1210 - Calculus I (QL)
- PHYS2210 - Physics for Scientists and Engineers I (QI/BPS)

Course Learning Objectives

Course Learning Outcomes
1. Analyze the mechanics of brittle deformation, including rock fracture, friction, and failure using theoretical models and experimental data.
2. Evaluate the role of stress, strain, and rheology in controlling deformation across scales, from laboratory samples to tectonic plates.
3. Apply principles of fracture mechanics and frictional sliding to interpret earthquake processes and associated hazards, incorporating a combination of numerical modeling, field observations, or laboratory experiments.
4. Integrate concepts of rock deformation into applied contexts such as glacial sliding, petroleum reservoir stability, and geothermal energy systems.

GEO6280 - Stable Isotope Geochemistry - 2 - Credits

Course Overview

Course Prefix
GEO

Course Number
6280

Department
Geosciences

Dual-Listed Courses
GEO7280 - Stable Isotope Geochemistry

Course Title
Stable Isotope Geochemistry

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers Stable Isotope Geochemistry through lecture, seminar, and laboratory activities utilizing the stable isotope lab. Students study the fundamentals of stable isotope geochemistry as applied to geosciences and Earth system processes, focusing on light stable isotopes (H, O, C, N, S).

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

No Requirements

Course Learning Objectives

Course Learning Outcomes
1. understand and apply the principles of stable isotope fractionation
2. understand and apply the terminology and notation used in stable isotope geochemistry
3. gain knowledge of the major stable isotope systems as applied to the geosciences
4. gain hands-on experience with stable isotope mass spectrometry including sample preparation, analysis and data reduction
5. read and understand published literature on stable isotopes

GEO6290 - Radiogenic Isotopes - 2 - Credits

Course Overview

Course Prefix
GEO

Course Number
6290

Department
Geosciences

Dual-Listed Courses
GEO7290 - Radiogenic Isotopes

Course Title
Radiogenic Isotopes

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course serves as an introduction and survey to high-temperature geochronology – predominantly U-Pb geochronology – and radiogenic isotope geochemistry.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

No Requirements

Course Learning Objectives

Course Learning Outcomes
1. Understanding the fundamentals, methods, and assumptions associated with geochronology and radiogenic isotope geochemistry
2. Understanding the complexities, data interpretations, and applications radiogenic isotopic systems to continental lithosphere evolution
3. Enhancement of writing and creative thinking skills through writing a mini-mock research proposal and paper summaries

GEO6300 - Graduate Seminar in Petrology (Topic) - 1 - 3 Credits

Course Overview

Course Prefix
GEO

Course Number
6300

Department
Geosciences

Dual-Listed Courses
GEO7300 - Graduate Seminar in Petrology (Topic)

Course Title
Graduate Seminar in Petrology (Topic)

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Advanced topics of current interest in petrology of igneous, metamorphic, or sedimentary rocks.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

No Requirements

Course Learning Objectives

Course Learning Outcomes
1. Engage with special topics in petroology under faculty direction
2. Strengthen skills in comprehending scientific literature and articulating the results of scientific research through in-class discussions and presentations
3. other course learning outcomes to be determined

GEO6350 - Graduate Seminar in Paleontology and Paleoecology (Topic) - 1 - 3 Credits

Course Overview

Course Prefix
GEO

Course Number
6350

Department
Geosciences

Dual-Listed Courses
GEO7350 - Graduate Seminar in Paleontology and Paleoecology (Topic)

Course Title
Graduate Seminar in Paleontology and Paleoecology (Topic)

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Advanced topics in paleontology, paleoecology and the evolution of ancient life.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

No Requirements

Course Learning Objectives

Course Learning Outcomes
1. Engage with special topics in paleontology under faculty direction
2. Strengthen skills in comprehending scientific literature and articulating the results of scientific research through in-class discussions and presentations
3. other course learning outcomes to be determined

GEO6360 - Volcanology - 3 - Credits

Course Overview

Course Prefix
GEO

Course Number
6360

Department
Geosciences

Dual-Listed Courses
GEO5360 - Volcanology

Course Title
Volcanology

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Provides students with a basic understanding of volcanic processes. Students gain an understanding of the range and scope of volcanoes and volcanic eruptions. Prehistoric volcanic eruptions reconstructed from their deposits. To receive graduate credit, student must write student grant proposal to do research in some area of volcanology relevant to hazards assessment.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes
1. Describe how plate tectonic theory explains the global distribution and characteristics of volcanoes.
2. Explain how fundamental magma properties, including composition and viscosity, control eruption style and volcanic hazards.
3. Relate volcano types to morphology, eruption style, magma characteristics, and plate tectonic setting.
4. Recognize the association between igneous rock textures and mineralogy and volcanic processes, including emplacement and cooling history.
5. Discuss volcanic risk assessment and management and the role of scientists in communicating risks to the public
6. Evaluate the influence of volcanic activity on Earth systems, including the atmosphere and the biosphere.

GEO6390 - Sedimentary Petrology - 3 - Credits

Course Overview

Course Prefix
GEO

Course Number
6390

Department
Geosciences

Dual-Listed Courses
GEO5390 - Sedimentary Petrology

Course Title
Sedimentary Petrology

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students collect sedimentary rocks, make thin sections, use polarizing microscopes to identify common sedimentary minerals and characterize rock properties, classify siliclastic and carbonate rocks, propose a research project, and write and present the results of the project to peers. Additional coursework may be required for graduate students.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Course Learning Objectives

Course Learning Outcomes
1 Students will competently operate a polarizing microscope and apply petrographic techniques to identify common sedimentary minerals and textures in thin section.
2 Students will classify siliciclastic and carbonate sedimentary rocks using compositional and textural criteria observed in hand samples and thin sections.
3 Students will interpret the diagenetic history of sedimentary rocks by recognizing features such as cementation, compaction, dissolution, dolomitization, and recrystallization.
4 Students will relate petrographic observations to depositional environments, using mineralogy, grain characteristics, and sedimentary structures to infer sediment provenance and basin history.
5 Students will collect and document field samples that address a specific sedimentary research question, demonstrating best practices in sample selection, stratigraphic context, and data recording.
6 Students will prepare thin sections from hand samples and describe mineralogical and textural features using standard petrographic terminology.
7 Students will analyze and interpret thin section data quantitatively, employing visual estimation methods, point counting, and data presentation tools such as spreadsheets or classification diagrams.
8 Students will compare and contrast the petrology and depositional processes of siliciclastic, carbonate, evaporitic, phosphatic, and siliceous sedimentary rocks.
9 Students will evaluate the petrologic characteristics of economically significant sedimentary deposits; including coal, petroleum reservoirs, banded iron formations, and cherts; and interpret their origins.
10 Students will design, write, and present an original sedimentary petrology research project that integrates field observations, laboratory data, and thin section analysis within a scientific framework.

GEO6400 - Graduate Seminar in Sedimentary Geology (Topic) - 1 - 3 Credits

Course Overview

Course Prefix
GEO

Course Number
6400

Department
Geosciences

Dual-Listed Courses
GEO7400 - Graduate Seminar in Sedimentary Geology (Topic)

Course Title
Graduate Seminar in Sedimentary Geology (Topic)

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Advanced topics of current interest in sedimentary geology, depositional systems, and basin evolution.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

No Requirements

Course Learning Objectives

Course Learning Outcomes
1. Engage with special topics in sedimentary geology under faculty direction
2. Strengthen skills in comprehending scientific literature and articulating the results of scientific research through in-class discussions and presentations
3. other course learning outcomes to be determined

GEO6410 - Advanced Stratigraphy - 3 - Credits

Course Overview

Course Prefix
GEO

Course Number
6410

Department
Geosciences

Dual-Listed Courses
GEO5410 - Advanced Stratigraphy

Course Title
Advanced Stratigraphy

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students study correlation of clastic and carbonate rocks, and depositional and erosional systems in marine and continental sedimentary basins, learning sequence stratigraphy, chemostratigraphy, paleomagnetism and biostratigraphy, sedimentary responses to changes in base level, and influences of tectonic and climatic forces. Additional coursework may be required for graduate students.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Course Learning Objectives

Course Learning Outcomes
1 Students will integrate and analyze stratigraphic data from multiple sources; including outcrops, well logs, seismic profiles, and cores, to reconstruct depositional environments and correlate sedimentary units.
2 Students will interpret sedimentary successions in terms of depositional processes, base-level changes, and accommodation space, and reconstruct the evolution of sedimentary basins through time.
3 Students will apply principles of sequence stratigraphy to identify stratigraphic surfaces, system tracts, and sequences in clastic and carbonate settings, and relate them to tectonic and eustatic controls.
4 Students will evaluate the use of biostratigraphy, magnetostratigraphy, and chemostratigraphy as chronostratigraphic tools to build and refine temporal frameworks in the rock record.
5 Students will perform facies analysis to interpret depositional settings, recognize facies associations, and construct depositional models in both marine and non-marine systems.
6 Students will use seismic and well log data to interpret stratigraphic architecture, delineate stratigraphic traps, and assess subsurface resource potential.
7 Students will assess the relationship between tectonic regimes and sedimentary systems, with emphasis on foreland basins, sequence stacking patterns, and sediment routing.
8 Students will analyze shoreline trajectories, stratigraphic surfaces, and sedimentary architectures to infer past shoreline migration and sea-level changes.
9 Students will synthesize lithologic, stratigraphic, and geophysical data to make predictions about hydrocarbon-bearing intervals and stratigraphic traps in Utah's sedimentary basins.
10 Students will evaluate the hierarchical organization of stratigraphic sequences and recognize their significance in interpreting basin history, resource distribution, and global geologic events.

GEO6420 - Ore Deposits - 3 - Credits

Course Overview

Course Prefix
GEO

Course Number
6420

Department
Geosciences

Dual-Listed Courses
GEO5420 - Ore Deposits

Course Title
Ore Deposits

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course is designed as an introduction to ore deposits and ore-forming processes. The chief objectives are (1) a basic understanding of how ore deposits form, (2) to learn how ore deposits are classified, and (3) to understand the origins of different types of ore deposits. The primary focus is on metallic mineral deposits, but some of the more important non-metallic deposits will also be covered, excluding hydrocarbons. Graduate students will write an additional research proposal.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Other Enrollment Recommendations
GEO4500 IGNEOUS/METAMORPHIC PETROLOGY

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- GEO2800 - Minerals and Rocks

Course Learning Objectives

Course Learning Outcomes
1. Recognize and characterize secondary ore and gangue (non-economic) minerals in waste rock (tailings) from the Copper Blossom Mine tailings
2. Create a sampling and analysis plan for tailings and surrounding area to characterize mineralogy, and identify and document environmental contamination
3. Integrate field observations and analyses to compile a report of the ore mineralization and environmental impact of mine waste, including recommendations for either additional ore processing or environmental remediation
4. Reinforce science communication skills (field notes, sketches, maps, and report)

GEO6430 - Invertebrate Paleontology and Paleobotany - 3 - Credits

Course Overview

Course Prefix
GEO

Course Number
6430

Department
Geosciences

Dual-Listed Courses
GEO5430 - Invertebrate Paleontology and Paleobotany

Course Title
Invertebrate Paleontology and Paleobotany

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course surveys prominent invertebrate groups, including their diagnostic morphologic features, stratigraphic ranges, and environmental tolerances. It equips students with the necessary information and techniques to enable them to recognize and utilize fossils in stratigraphic and paleoenvironmental interpretation. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes
1 Students will describe the processes that control fossil preservation and evaluate the completeness and biases of the fossil record across different environments and taxa.
2 Students will identify and describe fossil specimens using standard paleontological terminology, including morphology, ontogenetic variation, and taphonomic features.
3 Students will apply the principles of biological taxonomy and the rules of zoological and botanical nomenclature to recognize, name, and classify fossil species.
4 Students will construct and interpret phylogenetic trees using morphological character data, and explain how cladistic methods reveal evolutionary relationships among fossil organisms.
5 Students will use invertebrate fossils as biostratigraphic and paleoenvironmental indicators to determine the relative age of rock units and reconstruct ancient marine and terrestrial settings.
6 Students will compare major groups of fossil invertebrates; including sponges, cnidarians, bryozoans, brachiopods, mollusks, echinoderms, graptolites, and arthropods; describing their anatomy, evolutionary significance, and ecological roles.
7 Students will interpret trace fossils (ichnology) as evidence of organismal behavior, sediment interaction, and depositional environments.
8 Students will summarize the fossil record of major plant groups; including algae, bryophytes, lycopods, horsetails, ferns, gymnosperms, and angiosperms and explain key evolutionary transitions such as the colonization of land and the origin of seeds and flowers.
9 Students will analyze how fossil plants are used to reconstruct paleoclimates and paleoenvironments, with examples from important formations such as the Green River Formation.
10 Students will synthesize the relationships between major evolutionary events; such as the diversification of angiosperms, mass extinctions, and the rise of modern ecosystems; to explain how the fossil record informs our understanding of life's history on Earth.

GEO6440 - Vertebrate Paleontology - 3 - Credits

Course Overview

Course Prefix
GEO

Course Number
6440

Department
Geosciences

Dual-Listed Courses
GEO5440 -
Vertebrate Paleontology (CI)

Course Title
Vertebrate Paleontology

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers the rich vertebrate fossil record, exploring fish, amphibians, reptiles, dinosaurs, birds, and mammals. Students will learn about vertebrate evolution, field collection methods, and their significance in dating and understanding Earth's history. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Course Learning Objectives

Course Learning Outcomes
1 Students will be able to describe and analyze the evolutionary origin of chordates and vertebrates using embryological, anatomical, and fossil evidence.
2 Students will evaluate and interpret the fossilization process, taphonomic pathways, and the geological contexts that favor vertebrate fossil preservation.
3 Students will use cladistics and phylogenetic systematics to construct and interpret evolutionary relationships among vertebrate taxa.
4 Students will identify major groups of extinct and extant jawless and jawed vertebrates, and explain the anatomical innovations that characterize each group through time.
5 Students will analyze the evolutionary transition from aquatic to terrestrial vertebrates, including key adaptations in morphology, physiology, and behavior.
6 Students will compare the skeletal and dental features of major vertebrate lineages, with emphasis on amniotes, synapsids, and diapsids, and assess their evolutionary significance.
7 Students will evaluate the diversity and evolutionary trends in Mesozoic vertebrates, including dinosaurs, pterosaurs, and marine reptiles, and interpret their adaptations and extinction patterns.
8 Students will trace the evolutionary origin of flight in vertebrates, focusing on birds and their Mesozoic precursors, and explain the anatomical changes involved.
9 Students will examine the evolutionary history of mammals, including key transitional fossils, and differentiate between major clades such as monotremes, marsupials, and placentals.
10 Students will assess the fossil evidence for primate and human evolution, and synthesize how anatomical and behavioral changes reflect broader evolutionary trends through the Cenozoic.

GEO6450 - Deep Time: Studying the Earth's Expansive Past - 3 - Credits

Course Overview

Course Prefix
GEO

Course Number
6450

Department
Geosciences

Course Title
Deep Time: Studying the Earth's Expansive Past

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Course addresses pre-Quaternary, large-scale Earth systems changes, with a focus on the Precambrian and Paleozoic records, and the Eocene records. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

GEO6470 - Chemical Sedimentary Rocks - 3 - Credits

Course Overview

Course Prefix
GEO

Course Number
6470

Department
Geosciences

Dual-Listed Courses
GEO5470 - Chemical Sedimentary Rocks

Course Title
Chemical Sedimentary Rocks

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers the application of field observations, hand-sample, thin-section, and X-ray diffraction analyses to the interpretation of chemical sedimentary rocks. It emphasizes determination of depositional environment and evaluation of diagenetic changes. It includes three lectures and one lab per week. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- GEO2800 - Minerals and Rocks
- GEO3550 - Sedimentation and Stratigraphy

Course Learning Objectives

Course Learning Outcomes

1. Explain the basic chemistry of the carbonate system and the factors affecting carbonate precipitation, solubility, and mineralogy.
2. Understand the characteristics of the “Carbonate Factory” and environmental factors that control sedimentation within it.
3. Identify the main components (grain types, matrix, cements, spar) of carbonate rocks and explain their origin in the carbonate system.
4. Classify carbonate rocks based on the grain vs. matrix content and depositional texture using the Folk and Dunham classification schemes, respectively.
5. Summarize the development and importance of carbonate porosity and diagenesis.
6. Compare the depositional environments, sedimentary facies, and sequences (cycles) on carbonate platforms, shelves, and ramps.
7. Apply this knowledge to the description and interpretation of local carbonate strata.

GEO6480 - Tectonics of Sedimentary Basins - 3 - Credits

Course Overview

Course Prefix
GEO

Course Number
6480

Department
Geosciences

Dual-Listed Courses
GEO5480 - Tectonics of Sedimentary Basins

Course Title
Tectonics of Sedimentary Basins

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides detailed coverage of sedimentary basin analysis techniques, including depositional systems, provenance, basin modeling, and fluid and heat flow history. It surveys types of sedimentary basins worldwide. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- GEO2800 - Minerals and Rocks
- GEO3550 - Sedimentation and Stratigraphy

Course Learning Objectives

Course Learning Outcomes

1. Explain the interconnectedness of depositional and structural processes to first create, then fill, and finally preserve and/or destroy sedimentary basins.
2. Summarize criteria for classifying sedimentary basins.
3. Compare the tools geoscientists use to study the tectonics of sedimentary basins.
4. Understand major structural, tectonic, and geodynamic mechanisms that produce basins and the major sedimentologic and stratigraphic processes that fill them.
5. Examine characteristics of sedimentary basins in divergent, convergent, transform, and intraplate tectonic settings.
6. Compare diagnostic features of sedimentary basins with different tectonic origins.
7. Synthesize various datasets to interpret the tectonic origin of a sedimentary basin.
8. Debate basin interpretations from the scientific literature, critique the strength of their arguments given the available geologic data, and rank their validity.

GEO6490 - Facies Analysis of Sedimentary Rocks - 3 - Credits

Course Overview

Course Prefix
GEO

Course Number
6490

Department
Geosciences

Dual-Listed Courses
GEO5490 - Facies Analysis of Sedimentary Rocks

Course Title
Facies Analysis of Sedimentary Rocks

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course will cover topics including sedimentary processes and results, contacts, facies analysis, sequence stratigraphy, and implications of sedimentologic studies. Lectures, field trips, literature review, and geologic writing will be emphasized, with 6000 level credit earned through student presentations and a semester project.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- GEO3550 - Sedimentation and Stratigraphy

Course Learning Objectives

Course Learning Outcomes
1. Gain experience identifying and interpreting a wide range of sedimentary structures from field examples and the literature including discussions of controversial interpretations
2. Employ advanced field methods in sedimentology and stratigraphy including quantitatively measuring sedimentary structures, recognizing and mapping unconformities, and exploring the cyclic nature of strata.
3. Differentiate between depositional models versus facies models through field examples and the literature.
4. Present professional-level oral and written reports on describing and interpreting the sedimentary record from field observation and data collection and synthesizing the literature (may include undergraduate and graduate research topics already in progress).

GEO6500 - Advanced Igneous Petrology - 4 - Credits

Course Overview

Course Prefix
GEO

Course Number
6500

Department
Geosciences

Dual-Listed Courses
GEO5500 - Advanced Igneous Petrology

Course Title
Advanced Igneous Petrology

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Advanced concepts in the origin and evolution of magmatic systems, effects of different tectono thermal regimes on magma genesis, magma dynamics, and phase equilibria in magmatic systems. Concepts illustrated by rock suites from classic locations. Three lectures and three laboratory hours each week.

Credit Hours

Credit Hours Min:
4

Contact Hours

Contact Hours Min:
4

Billing Hours

Billing Hours Min:
4

Lecture Hours

Lecture Hours Min:
4

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- GEO4500 - Igneous and Metamorphic Petrology

Course Learning Objectives

Course Learning Outcomes
1. Combine field, analytical, and modeling data to develop and test hypotheses on the petrogenesis of igneous and metamorphic rocks.
2. Describe the mineralogy, textures, and structures of igneous and metamorphic rocks using a petrographic microscope and interpret equilibrium and disequilibrium conditions during rock formation.
3. Explain magma differentiation and metamorphic reactions graphically using phase diagrams.
4. Understand and utilize modern geochemical tools, including major and trace element analysis, to constrain petrogenetic processes.
5. Constrain igneous and metamorphic processes using geochemical data and petrogenetic modeling tools.
6. Critically evaluate and present current scientific literature on igneous and metamorphic petrology.
7. Design and conduct independent research on a suite of igneous or metamorphic rocks from initial field sampling and geochemical analysis, to final interpretation and presentation of results.

GEO6510 - Graduate Seminar in Hydrology (Topic) - 1 - 3 Credits

Course Overview

Course Prefix
GEO

Course Number
6510

Department
Geosciences

Dual-Listed Courses
GEO7510 - Graduate Seminar in Hydrology (Topic)

Course Title
Graduate Seminar in Hydrology (Topic)

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Advanced topics of current interest in hydrology.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Engage with special topics in hydrology under faculty direction
2. Strengthen skills in comprehending scientific literature and articulating the results of scientific research through in-class discussions and presentations
3. other course learning outcomes to be determined

GEO6520 - Techniques of Groundwater Investigations - 3 - Credits

Course Overview

Course Prefix
GEO

Course Number
6520

Department
Geosciences

Dual-Listed Courses
GEO5520 - Techniques of Groundwater Investigations (CI)

Course Title
Techniques of Groundwater Investigations

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Survey of techniques used in groundwater investigations for collecting physical and chemical data. Includes well drilling and construction; water level, flow rate, and discharge measurements; hydraulic and tracer tests; and groundwater sampling.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- GEO5510 - Groundwater Geology (QI)

Course Learning Objectives

Course Learning Outcomes

1. Understand the differences between piezometers, monitor wells and water-supply wells
2. Understand the differences between the five main drilling techniques; namely, cable tool, mud rotary, air rotary, air percussion and reverse-circulation rotary
3. Know how to drill and complete a water-supply well, including installation of the casing, well screen, filter pack, seal(s) and pump, as well as well development and rehabilitation
4. Know how to drill and complete piezometers and monitor wells
5. Understand which hydraulic parameters can be measured in a laboratory, and which techniques are available to measure them
6. Know how to conduct, and calculate hydraulic parameters using, step-drawdown, specific-capacity and slug tests, as well as other single-well and multiple-well hydraulic tests
7. Know how to measure water levels in wells
8. Know how to measure the discharge from a pipe and of a stream
9. Know how to collect water samples from wells
10. Become familiar with groundwater tracer tests, including both single-well and multiple-well tests, as well as various types of tracers

GEO6540 - Quantitative Methods in Geology - 3 - Credits

Course Overview

Course Prefix
GEO

Course Number
6540

Department
Geosciences

Dual-Listed Courses
GEO5540 - Quantitative Methods in Geology (QI)

Course Title
Quantitative Methods in Geology

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course (which includes three lecture hours per week) covers the application of quantitative, computer-based methodologies to geologic problems, with emphasis on developing coding skills to leverage computational power. Previous experience with programming languages (R/MATLAB) is helpful but not required. Additional coursework is required for those enrolled in the graduate-level course, including student presentation on thesis research methodology.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Fulfill ALL of the following requirements:

Required

Complete ALL of the following Courses:

- MATH1210 - Calculus I (QL)

AND

Required

Complete ANY of the following Courses:

- GEO3550 - Sedimentation and Stratigraphy
  OR GEO3600 - Geomorphology

Course Learning Objectives

Course Learning Outcomes

1. Gain a basic proficiency in computer coding using the programming language MATLAB
2. Apply MATLAB skills to solve quantitative problems specific to Earth Science
3. Design, write, and execute a MATLAB script to perform operations or solve problems specific to each student's research or interests.

GEO6580 - Thermochronometry - 3 - Credits

Course Overview

Course Prefix
GEO

Course Number
6580

Department
Geosciences

Dual-Listed Courses
GEO7580 - Thermochronometry

Course Title
Thermochronometry

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Constraining the timing and tempo of geological processes is fundamental to geologic research. This course provides an overview of geochronology and thermochronology. Lectures will focus on principles and assumptions of techniques and seminar-style discussions centered on papers applying these methods.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Describe the fundamentals of radioactive decay and controls on diffusion in minerals
2. Understand the basics and methods associated with U-Pb, Ar-Ar (K-Ar), and (U-Th)/He systems
3. Recognize the complexities, data interpretations, and applications of these tools

GEO6590 - Geodesy and Crustal Deformation - 3 - Credits

Course Overview

Course Prefix
GEO

Course Number
6590

Department
Geosciences

Dual-Listed Courses
GEO5590 - Geodesy and Crustal Deformation

Course Title
Geodesy and Crustal Deformation

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces the fundamentals of measurement of the Earth's shape and gravity, and some basic tools for modeling temporal changes in the shape of the Earth's surface and its gravitational potential. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Open to graduate students only.

Course Learning Objectives

Course Learning Outcomes

1. Understand the measurement tools and modeling tools for modern geodesy
2. Examine their important applications in climate science, hazards analysis and resource evaluation, illuminating: Earth as a complex system, Hydrogeology and water science, Climate change
3. Hone core geoscience skills in: Critical thinking and problem solving, accessing and integrating information from different sources, understanding and using scientific research methods, applying strong quantitative skills

GEO6600 - Graduate Seminar in Geophysics (Topic) - 1 - 3 Credits

Course Overview

Course Prefix
GEO

Course Number
6600

Department
Geosciences

Dual-Listed Courses
GEO7600 - Graduate Seminar in Geophysics (Topic)

Course Title
Graduate Seminar in Geophysics (Topic)

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Advanced topics of current interest in geophysics.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Engage with special topics in geophysics under faculty direction
2. Strengthen skills in comprehending scientific literature and articulating the results of scientific research through in-class discussions and presentations
3. other course learning outcomes to be determined

GEO6620 - Global Geophysics - 3 - Credits

Course Overview

Course Prefix
GEO

Course Number
6620

Department
Geosciences

Dual-Listed Courses
GEO5620 - Global Geophysics (QI)

Course Title
Global Geophysics

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Application of physics to understanding geologic processes, the earth's interior, and the theory of plate tectonics. Two lectures and one two-hour lab per week.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- GEO3700 - Structural Geology
- PHYS2220 - Physics for Scientists and Engineers II (BPS/QI)

Course Learning Objectives

Course Learning Outcomes
1. Define the major structures of the solid earth.
2. Cover the fundamentals of geophysics: gravity, elasticity, fluid mechanics, heat flow and magnetism.
3. Translate geophysical problems into a quantitative framework.

GEO6630 - Remote Sensing for Geoscientists - 3 - Credits

Course Overview

Course Prefix
GEO

Course Number
6630

Department
Geosciences

Dual-Listed Courses
GEO5630 - Remote Sensing for Geoscientists

Course Title
Remote Sensing for Geoscientists

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Introduction to collection, interpretation and analysis of aerial photographs, satellite imagery and digital elevation models. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- GEO3600 - Geomorphology
  AND GEO3700 - Structural Geology

Course Learning Objectives

Course Learning Outcomes

1. Interpret geologic features from aerial photographs, satellite imagery, and digital elevation models.
2. Use remote sensing data to assess the potential for mass wasting, fault surface rupture, sea level, and volcanic hazards.
3. Use remote sensing data to identify potential locations for natural resource exploration.
4. Generate and analyze time series to monitor earth processes from remote sensing data.

GEO6640 - Introduction to Seismology - 3 - Credits

Course Overview

Course Prefix
GEO

Course Number
6640

Department
Geosciences

Dual-Listed Courses
GEO5640 - Introduction to Seismology

Course Title
Introduction to Seismology

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces the mathematical fundamentals of the elastic wave equation, and some basic tools for characterizing seismic sources and imaging variations of material properties in the Earth's interior. For 6000-level graduate credit, students must complete a semester project and additional problem set assignments.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Understand the fundamentals of seismology, with applications to current events and problems in a wide range of geoscience disciplines
2. Utilize strong computational skills for managing and analyzing multi-component datasets
3. Describe large-scale internal Earth processes and the features produced by them

GEO6650 - Quaternary Geochronology - 3 - Credits

Course Overview

Course Prefix
GEO

Course Number
6650

Department
Geosciences

Dual-Listed Courses
GEO7650 - Quaternary Geochronology

Course Title
Quaternary Geochronology

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course examines the principles behind the most widely used numerical dating techniques for the Quaternary period (last 2 million years). Discussion will focus on the strengths and weaknesses of each technique and provide examples of their successful applications to a range of geological and geoarchaeological materials and problems.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Understand the principles and methods of the most widely used Quaternary dating methodologies
2. Understand how different dating methods can be used to constrain the timing, duration and rates of geologic and archaeological events and processes.
3. Apply critical thinking skills to address a range of problems in geochronology.
4. Demonstrate the ability to articulate the results of scientific research through in-class discussions and presentations.

GEO6660 - Applied Geophysics - 4 - Credits

Course Overview

Course Prefix
GEO

Course Number
6660

Department
Geosciences

Dual-Listed Courses
GEO5660 - Applied Geophysics

Course Title
Applied Geophysics

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Field-oriented course involving data collection, data analysis, and overview/ introduction of geophysical imaging and analysis of the subsurface. For GEO 6660, students must complete a written project and presentation.

Credit Hours

Credit Hours
Min:
4

Contact Hours

Contact Hours
Min:
4

Billing Hours

Billing Hours
Min:
4

Lecture Hours

Lecture Hours
Min:
4

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- MATH1210 - Calculus I (QL)
- PHYS2210 - Physics for Scientists and Engineers I (QI/BPS)
- PHYS2220 - Physics for Scientists and Engineers II (BPS/QI)

Course Learning Objectives

Course Learning Outcomes

1. Cursory knowledge of the most widely-used tools for imaging structure of the Earth's shallow interior
2. A basic understanding of how we estimate in situ material properties such as mass density, seismic velocity and electrical conductivity
3. An understanding of how we infer desirable properties such as rock lithology and pore fluid content from geophysical properties
4. Hone core geoscience skills in:
   • Describing and interpreting structures & properties of Earth's interior
   • Understanding how science works via inquiry, observation, verification, teamwork, and critical thinking
   • Understanding and creating maps, working with subsurface data, field and laboratory methods, and data reduction and analysis
   • Application of principles of mathematics, chemistry, and physics, as well as computational tools, to the analysis of geologic data and solution of problems

GEO6670 - Inverse Theory - 3 - Credits

Course Overview

Course Prefix
GEO

Course Number
6670

Department
Geosciences

Dual-Listed Courses
GEO5670 - Inverse Theory

Course Title
Inverse Theory

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces the mathematical tools for optimizing model parameters (and estimating uncertainties for a given set of observational measurements. For 6000-level graduate credit, students must complete a semester project and additional problem set assignments.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Fulfill ANY of the following requirements:

Option 1

Complete ALL of the following Courses:

- MATH1210 - Calculus I (QL)
  AND MATH1220 - Calculus II (QL)

OR

Option 2

Complete ALL of the following Courses:

- STAT3000 - Statistics for Scientists (QI)

Course Learning Objectives

Course Learning Outcomes

1. Understand the principals of linear algebra and statistics that underpin all geophysical model parameterization
2. Hone geoscience tools for determining properties of Earth's interior, including:
   • how the enterprise of science works via inquiry, observation, verification, teamwork, and critical thinking
   • skills for the study and interpretation of geological materials, history, and features, such as understanding and creating maps, working with subsurface data, and data reduction and analysis
   • Apply principles of mathematics and physics, as well as computational tools, to the analysis and solution of geoscience data and problems

GEO6680 - Paleoclimatology - 3 - Credits

Course Overview

Course Prefix
GEO

Course Number
6680

Department
Geosciences

Cross-Listed Courses
PSC6680 - Paleoclimatology, WATS6680 - Paleoclimatology

Dual-Listed Courses
GEO5680 - Paleoclimatology

Course Title
Paleoclimatology

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Covers climate through the past four billion years of geologic time. Explores driving forces behind climate changes. Examines data and methods used in paleoclimate research. Includes discussion of literature and stresses local paleoclimate records. Three lectures per week, along with field trips.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

required

Complete ANY of the following Courses:

- GEO3600 - Geomorphology
  OR WATS3600 - Geomorphology

Course Learning Objectives

Course Learning Outcomes

1. Understand the basis for climate change science, including understanding the causes of past climate change and feedbacks within the climate system
2. Be familiar with the methods and proxies used to reconstruct past climate
3. Compare your understanding of natural climate change during the last 100,000 years to climate change in the last few decades to centuries.
4. Strengthen skills in comprehending scientific literature and improved writing skills

GEO6690 - Geodynamics - 3 - Credits

Course Overview

Course Prefix
GEO

Course Number
6690

Department
Geosciences

Dual-Listed Courses
GEO5690 - Geodynamics

Course Title
Geodynamics

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course examines the physical processes that drive deformation and a wide variety of the other geological phenomena, including processes and observations of heat transfer, the role of gravity in stress and strain, and the various different flavors of rock rheology. Observational metrics (including geochemistry, laboratory measurements, and geophysical measurements of rock properties) will also be covered. For 6000-level graduate credit, students must complete a semester project and additional problem set assignments.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Processes and properties of heat transport
2. Chemistry and rheology of the Earth, and how they define plate tectonics and geologic hazards
3. Transport of volatiles in the Earth's interior and the outsize role volatiles play in dynamical processes
4. Fundamental properties underpinning concepts of Earth's lithosphere and asthenosphere
5. Hone core geoscience skills including:
   - Earth as a Complex System
   - Earth Materials
   - Earth Structure
   - Applying Strong Quantitative Skills

GEO6700 - Graduate Seminar in Structural Geology (Topic) - 1 - 3 Credits

Course Overview

Course Prefix
GEO

Course Number
6700

Department
Geosciences

Dual-Listed Courses
GEO7700 - Graduate Seminar in Structural Geology (Topic)

Course Title
Graduate Seminar in Structural Geology (Topic)

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Advanced topics of current interest in structural geology.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

No Requirements

Course Learning Objectives

Course Learning Outcomes
1. Engage with special topics in structural geology under faculty direction
2. Strengthen skills in comprehending scientific literature and articulating the results of scientific research through in-class discussions and presentations
3. other course learning outcomes to be determined

GEO6800 - Graduate Seminar - 1 - 6 Credits

Course Overview

Course Prefix
GEO

Course Number
6800

Department
Geosciences

Dual-Listed Courses
GEO7800 - Graduate Seminar

Course Title
Graduate Seminar

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course is a seminar that explores current work in particular topics.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
6

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
6

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
6

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
6

Lecture Hours Operator:
TO

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Engage with special graduate-level topics under faculty direction
2. Strengthen skills in comprehending scientific literature and articulating the results of scientific research through in-class discussions and presentations
3. other course learning outcomes to be determined

GEO6820 - Graduate Seminar Series - 1 - Credits

Course Overview

Course Prefix
GEO

Course Number
6820

Department
Geosciences

Course Title
Graduate Seminar Series

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
Seminar for graduate students, linked to the Department of Geology's visiting speaker series.

Credit Hours

Credit Hours Min:
1

Contact Hours

Contact Hours Min:
1

Billing Hours

Billing Hours Min:
1

Lecture Hours

Lecture Hours Min:
1

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Engage with a wide range of fundamental and applied research topics via weekly seminars by invited speakers

GEO6900 - Graduate Internship/Co-op Experience - 1 - 6 Credits

Course Overview

Course Prefix
GEO

Course Number
6900

Department
Geosciences

Course Title
Graduate Internship/Co-op Experience

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
Graduate educational work experience.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
6

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
6

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
6

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
6

Lecture Hours Operator:
TO

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Approval of contract between student and department prior to enrollment.

Course Learning Objectives

Course Learning Outcomes

1. Engage with applied experiences in geosciences through an internship
2. Apply appropriate professional/research/analytical methods to advance career preparation.

GEO6970 - Thesis - 1 - 9 Credits

Course Overview

Course Prefix
GEO

Course Number
6970

Department
Geosciences

Course Title
Thesis

Grade Mode
Temporary Pass/Fail

Repeat Status
RP

Course Description
This course allows students to pursue research toward the M.S. degree.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
9

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
9

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
9

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
9

Lecture Hours Operator:
TO

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Engage in independent, self-directed scholarly work under faculty supervision.
2. Apply appropriate research and analytical methods to advance thesis/ dissertation research.

GEO6990 - Continuing Graduate Advisement - 1 - 3 Credits

Course Overview

Course Prefix
GEO

Course Number
6990

Department
Geosciences

Course Title
Continuing Graduate Advisement

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
This course provides graduate students with continued advisement. It is usually taken following completion of all coursework required for the degree.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Engage in independent, self-directed progress towards thesis completion under faculty supervision.

GEO7050 - Graduate Seminar in Tectonics (Topic) - 1 - 3 Credits

Course Overview

Course Prefix
GEO

Course Number
7050

Department
Geosciences

Dual-Listed Courses
GEO6050 - Graduate Seminar in Tectonics (Topic)

Course Title
Graduate Seminar in Tectonics (Topic)

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Advanced topics of current interest in tectonics and orogenesis.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

No Requirements

Course Learning Objectives

Course Learning Outcomes
1. Engage with special topics in tectonics under faculty direction
2. Strengthen skills in comprehending scientific literature and articulating the results of scientific research through in-class discussions and presentations
3. other course learning outcomes to be determined

GEO7100 - Graduate Seminar in Geomorphology (Topic) - 1 - 3 Credits

Course Overview

Course Prefix
GEO

Course Number
7100

Department
Geosciences

Dual-Listed Courses
GEO6100 - Graduate Seminar in Geomorphology (Topic)

Course Title
Graduate Seminar in Geomorphology (Topic)

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Advanced topics of current interest in geomorphology and landscape evolution.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Improve understanding of geomorphic concepts and processes
2. Become familiar with foundational studies within geomorphology
3. Understand new methods and applications within the field of geomorphology
4. Strengthen skills in comprehending scientific literature and articulating the results of scientific research through in-class discussions and presentations

GEO7200 - Graduate Seminar in Geochemistry (Topic) - 1 - 3 Credits

Course Overview

Course Prefix
GEO

Course Number
7200

Department
Geosciences

Dual-Listed Courses
GEO6200 - Graduate Seminar in Geochemistry (Topic)

Course Title
Graduate Seminar in Geochemistry (Topic)

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Advanced topics of current interest in geochemistry.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

No Requirements

Course Learning Objectives

Course Learning Outcomes
1. Engage with special topics in geochemistry under faculty direction
2. Strengthen skills in comprehending scientific literature and articulating the results of scientific research through in-class discussions and presentations
3. other course learning outcomes to be determined

GEO7250 - Rock Deformation and Earthquake Mechanics - 3 - Credits

Course Overview

Course Prefix
GEO

Course Number
7250

Department
Geosciences

Dual-Listed Courses
GEO6250 - Rock Deformation and Earthquake Mechanics

Course Title
Rock Deformation and Earthquake Mechanics

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course explores the fundamentals of rock fracture, friction, and failure with applications to earthquakes, glacial sliding, petroleum reservoirs, and geothermal systems. This course is designed for graduate students in earth sciences and engineering. Two lectures per week with frequent hands-on lab experience.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- MATH1210 - Calculus I (QL)
- PHYS2210 - Physics for Scientists and Engineers I (QI/BPS)

Course Learning Objectives

Course Learning Outcomes
1. Analyze the mechanics of brittle deformation, including rock fracture, friction, and failure using theoretical models and experimental data.
2. Evaluate the role of stress, strain, and rheology in controlling deformation across scales, from laboratory samples to tectonic plates.
3. Apply principles of fracture mechanics and frictional sliding to interpret earthquake processes and associated hazards, incorporating a combination of numerical modeling, field observations, or laboratory experiments.
4. Integrate concepts of rock deformation into applied contexts such as glacial sliding, petroleum reservoir stability, and geothermal energy systems.

GEO7280 - Stable Isotope Geochemistry - 2 - Credits

Course Overview

Course Prefix
GEO

Course Number
7280

Department
Geosciences

Dual-Listed Courses
GEO6280 - Stable Isotope Geochemistry

Course Title
Stable Isotope Geochemistry

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers Stable Isotope Geochemistry through lecture, seminar, and laboratory activities utilizing the stable isotope lab. Students study the fundamentals of stable isotope geochemistry as applied to geosciences and Earth system processes, focusing on light stable isotopes (H, O, C, N, S).

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

No Requirements

Course Learning Objectives

Course Learning Outcomes
1. Understand and apply the principles of stable isotope fractionation
2. Understand and apply the terminology and notation used in stable isotope geochemistry
3. Gain knowledge of the major stable isotope systems as applied to the geosciences
4. Gain hands-on experience with stable isotope mass spectrometry including sample preparation, analysis and data reduction
5. Read and understand published literature on stable isotopes

GEO7290 - Radiogenic Isotopes - 2 - Credits

Course Overview

Course Prefix
GEO

Course Number
7290

Department
Geosciences

Dual-Listed Courses
GEO6290 - Radiogenic Isotopes

Course Title
Radiogenic Isotopes

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course serves as an introduction and survey to high-temperature geochronology – predominantly U-Pb geochronology – and radiogenic isotope geochemistry.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

No Requirements

Course Learning Objectives

Course Learning Outcomes
1. Understanding the fundamentals, methods, and assumptions associated with geochronology and radiogenic isotope geochemistry
2. Understanding the complexities, data interpretations, and applications radiogenic isotopic systems to continental lithosphere evolution
3. Enhancement of writing and creative thinking skills through writing a mini-mock research proposal and paper summaries

GEO7300 - Graduate Seminar in Petrology (Topic) - 1 - 3 Credits

Course Overview

Course Prefix
GEO

Course Number
7300

Department
Geosciences

Dual-Listed Courses
GEO6300 - Graduate Seminar in Petrology (Topic)

Course Title
Graduate Seminar in Petrology (Topic)

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Advanced topics of current interest in petrology of igneous, metamorphic, or sedimentary rocks.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

No Requirements

Course Learning Objectives

Course Learning Outcomes
1. Engage with special topics in petroology under faculty direction
2. Strengthen skills in comprehending scientific literature and articulating the results of scientific research through in-class discussions and presentations
3. other course learning outcomes to be determined

GEO7350 - Graduate Seminar in Paleontology and Paleoecology (Topic) - 1 - 3 Credits

Course Overview

Course Prefix
GEO

Course Number
7350

Department
Geosciences

Dual-Listed Courses
GEO6350 - Graduate Seminar in Paleontology and Paleoecology (Topic)

Course Title
Graduate Seminar in Paleontology and Paleoecology (Topic)

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Advanced topics in paleontology, paleoecology and the evolution of ancient life.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

No Requirements

Course Learning Objectives

Course Learning Outcomes
1. Engage with special topics in paleontology under faculty direction
2. Strengthen skills in comprehending scientific literature and articulating the results of scientific research through in-class discussions and presentations
3. other course learning outcomes to be determined

GEO7400 - Graduate Seminar in Sedimentary Geology (Topic) - 1 - 3 Credits

Course Overview

Course Prefix
GEO

Course Number
7400

Department
Geosciences

Dual-Listed Courses
GEO6400 - Graduate Seminar in Sedimentary Geology (Topic)

Course Title
Graduate Seminar in Sedimentary Geology (Topic)

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Advanced topics of current interest in sedimentary geology, depositional systems, and basin evolution.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

No Requirements

Course Learning Objectives

Course Learning Outcomes
1. Engage with special topics in sedimentary geology under faculty direction
2. Strengthen skills in comprehending scientific literature and articulating the results of scientific research through in-class discussions and presentations
3. other course learning outcomes to be determined

GEO7510 - Graduate Seminar in Hydrology (Topic) - 1 - 3 Credits

Course Overview

Course Prefix
GEO

Course Number
7510

Department
Geosciences

Dual-Listed Courses
GEO6510 - Graduate Seminar in Hydrology (Topic)

Course Title
Graduate Seminar in Hydrology (Topic)

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Advanced topics of current interest in hydrology.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

No Requirements

Course Learning Objectives

Course Learning Outcomes
1. Engage with special topics in hydrology under faculty direction
2. Strengthen skills in comprehending scientific literature and articulating the results of scientific research through in-class discussions and presentations
3. other course learning outcomes to be determined

GEO7580 - Thermochronometry - 3 - Credits

Course Overview

Course Prefix
GEO

Course Number
7580

Department
Geosciences

Dual-Listed Courses
GEO6580 - Thermochronometry

Course Title

Thermochronometry

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Constraining the timing and tempo of geological processes is fundamental to geologic research. This course provides an overview of geochronology and thermochronology. Lectures will focus on principles and assumptions of techniques and seminar-style discussions centered on papers applying these methods.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Describe the fundamentals of radioactive decay and controls on diffusion in minerals
2. Understand the basics and methods associated with U-Pb, Ar-Ar (K-Ar), and (U-Th)/He systems
3. Recognize the complexities, data interpretations, and applications of these tools

GEO7600 - Graduate Seminar in Geophysics (Topic) - 1 - 3 Credits

Course Overview

Course Prefix
GEO

Course Number
7600

Department
Geosciences

Dual-Listed Courses
GEO6600 - Graduate Seminar in Geophysics (Topic)

Course Title
Graduate Seminar in Geophysics (Topic)

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Advanced topics of current interest in geophysics.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Engage with special topics in geophysics under faculty direction
2. Strengthen skills in comprehending scientific literature and articulating the results of scientific research through in-class discussions and presentations
3. other course learning outcomes to be determined

GEO7650 - Quaternary Geochronology - 3 - Credits

Course Overview

Course Prefix
GEO

Course Number
7650

Department
Geosciences

Dual-Listed Courses

GEO6650 - Quaternary Geochronology

Course Title

Quaternary Geochronology

Grade Mode
Standard Letter

Repeat Status
NR

Course Description

This course examines the principles behind the most widely used numerical dating techniques for the Quaternary period (last 2 million years). Discussion will focus on the strengths and weaknesses of each technique and provide examples of their successful applications to a range of geological and geoarchaeological materials and problems.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Understand the principles and methods of the most widely used Quaternary dating methodologies
2. Understand how different dating methods can be used to constrain the timing, duration and rates of geologic and archaeological events and processes.
3. Apply critical thinking skills to address a range of problems in geochronology.
4. Demonstrate the ability to articulate the results of scientific research through in-class discussions and presentations.

GEO7700 - Graduate Seminar in Structural Geology (Topic) - 1 - 3 Credits

Course Overview

Course Prefix
GEO

Course Number
7700

Department
Geosciences

Dual-Listed Courses
GEO6700 - Graduate Seminar in Structural Geology (Topic)

Course Title
Graduate Seminar in Structural Geology (Topic)

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Advanced topics of current interest in structural geology.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

No Requirements

Course Learning Objectives

Course Learning Outcomes
1. Engage with special topics in structural geology under faculty direction
2. Strengthen skills in comprehending scientific literature and articulating the results of scientific research through in-class discussions and presentations
3. other course learning outcomes to be determined

GEO7800 - Graduate Seminar - 1 - 6 Credits

Course Overview

Course Prefix
GEO

Course Number
7800

Department
Geosciences

Dual-Listed Courses
GEO6800 - Graduate Seminar

Course Title
Graduate Seminar

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course is a seminar that explores current work in particular topics.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
6

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
6

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
6

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
6

Lecture Hours Operator:
TO

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Engage with special graduate-level topics under faculty direction
2. Strengthen skills in comprehending scientific literature and articulating the results of scientific research through in-class discussions and presentations
3. other course learning outcomes to be determined

GEO7970 - Dissertation Research - 1 - 12 Credits

Course Overview

Course Prefix
GEO

Course Number
7970

Department
Geosciences

Course Title
Dissertation Research

Grade Mode
Temporary Pass/Fail

Repeat Status
RP

Course Description
This course allows students to pursue research toward the Ph.D. degree.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
12

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
12

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
12

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
12

Lecture Hours Operator:
TO

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Engage in independent, self-directed scholarly work under faculty supervision.
2. Apply appropriate research and analytical methods to advance thesis/ dissertation research.

GEO7990 - Continuing Graduate Advisement - 1 - 9 Credits

Course Overview

Course Prefix
GEO

Course Number
7990

Department
Geosciences

Course Title
Continuing Graduate Advisement

Grade Mode
Temporary Pass/Fail

Repeat Status
RP

Course Description
This course provides graduate students with continued advisement. It is usually taken following completion of all coursework required for the degree.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
9

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
9

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
9

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
9

Lecture Hours Operator:
TO

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Engage in independent, self-directed progress towards dissertation completion under faculty supervision.

GEOG1000 - Physical Geography (BPS) - 3 - Credits

Course Overview

Course Prefix
GEOG

Course Number
1000

Department
Environment & Society

Course Title
Physical Geography (BPS)

General Education Attribute
BPS

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Geographic analysis of physical processes and spatial distribution of natural elements (i.e., the atmosphere, hydrosphere, lithosphere, and biosphere).

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Students will describe the concepts, terminology, and classifications about the processes that make up the Earth's natural systems
2. Students will differentiate the main factors that influence the spatial distribution of weather and climate
3. Students will interpret the spatial distribution of physical landscapes including the ecosystems and the processes that influence their main characteristics
4. Students will illustrate how core physical geography concepts can be applied to different scenarios.

GEOG1005 - Physical Geography Lab - 1 - Credits

Course Overview

Course Prefix
GEOG

Course Number
1005

Department
Environment & Society

Course Title
Physical Geography Lab

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Laboratory exercises in natural physical geography. Provides initial field and laboratory experiences in the earth system. Required for all geography majors.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- GEOG1000 - Physical Geography (BPS)

may be taken concurrently

Course Learning Objectives

Course Learning Outcomes

1. Gain a basic understanding of physical geography (e.g., factual knowledge, methods, principles, generalizations, and theories).
2. Learn to apply course material to improve thinking, problem-solving, and decision.
3. Develop specific skills, competencies, and points of view needed by professionals

in this field.
More specifically, students will:
1. Gain a comprehensive understanding of physical geography's fundamental concepts, methods, and principles, including the Earth's systems, landforms, climate, and ecosystems.
2. Learn how physical geography can be used to understand and address real-world environmental issues such as climate change, natural disasters, food production, and resource management.
3. Enhance critical thinking skills and adopt professional viewpoints by analyzing and evaluating physical geography theories and models, enabling you to understand complex environmental systems and make informed decisions as a physical geographer and citizen.
4. Apply your knowledge of physical geography to analyze and address real-world environmental issues.

GEOG1300 - World Geography: Human and Environmental Dynamics (BSS) - 3 - Credits

Course Overview

Course Prefix
GEOG

Course Number
1300

Department
Environment & Society

Course Title
World Geography: Human and Environmental Dynamics (BSS)

General Education Attribute
BSS

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Survey of world cultural regions, with an analysis of political, economic, and resource patterns in their physical setting.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes
By the end of this course, students will be able to:

1. Recognize diverse realities of different human populations and their economies and environments around the world.
2. Interpret correctly data about the world presented in a variety of forms, including in maps, graphs, and tables.
3. Describe the human impact on the global environment and compare the relationships between societies and their environments at various scales.
4. Apply the concept of globalization to understand key aspects of social and environmental change and identify how places around the world are linked through different kinds of exchange.

5. Analyze patterns of unevenness in socioeconomic development, demographic change, and indicators of human wellbeing.

GEOG1400 - Human Geography (BSS) - 3 - Credits

Course Overview

Course Prefix
GEOG

Course Number
1400

Department
Environment & Society

Course Title
Human Geography (BSS)

General Education Attribute
BSS

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course addresses spatial study within selected socio-cultural settings, including cultural landscapes, rural-urban linkages, languages, religions, politics, and economic activities.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

GEOG2340 - Environment, Natural Resources, and Society (BSS) - 3 - Credits

Course Overview

Course Prefix
GEOG

Course Number
2340

Department
Environment & Society

Cross-Listed Courses
ENVS2340 - Environment, Natural Resources, and Society (BSS)

Course Title
Environment, Natural Resources, and Society (BSS)

General Education Attribute
BSS

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course explores how human societies, environmental systems, and the natural resources within them interact and shape one another across temporal, spatial, and policy contexts. Content uses contemporary environmental issues as case studies to apply foundational frameworks and approaches.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes
1. Explain how humans and the environment influence each other in different social and ecological contexts
2. Summarize how historical shifts in environment and natural resource management reflect changing social, political, and ecological priorities.
3. Anticipate how different segments of society might respond to changes in environmental management, policies, or conditions
4. Critically analyze the underlying drivers of key environmental challenges in the U.S., including ongoing actions to address them.

GEOG2800 - Introduction to Geographic Information Sciences - 4 - Credits

Course Overview

Course Prefix
GEOG

Course Number
2800

Department
Environment & Society

Course Title
Introduction to Geographic Information Sciences

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces students to the background and theory behind geographic information systems and spatial analysis. Students learn to integrate and analyze spatial information from different geographic sources.

Credit Hours

Credit Hours
Min:
4

Contact Hours

Contact Hours
Min:
4

Billing Hours

Billing Hours
Min:
4

Lecture Hours

Lecture Hours
Min:
4

No Requirements

Course Learning Objectives

Course Learning Outcomes
1. Understand basic concepts and terminology of geographic data, spatial analysis, geospatial technologies, and cartography
2. Develop skills in the operation of GIS software
3. Be able to formulate a research question and implement analytical steps to answer the question using GIS
4. Know how to find and use resources, including sources of geospatial data, to answer questions and solve problems

GEOG3100 - Human-Environment Geography (CI) - 3 - Credits

Course Overview

Course Prefix
GEOG

Course Number
3100

Department
Environment & Society

Course Title
Human-Environment Geography (CI)

General Education Attribute
CI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course surveys a breadth of subfields in geography that study human-environment interactions (e.g., political and cultural ecology, hazards geography, land change science, environmental history, environmental justice, and animal geographies).

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ENGL2010 - Research and Argument Across Perspectives (CL2)

Course Learning Objectives

Course Learning Outcomes
By the end of this course, students will be able to:

1. Describe and compare a variety of approaches geographers take to researching and understanding human-environment relationships around the world.

2. Apply concepts of human-environment geography to analyze human-environment interactions and related social interactions in current and past human societies.
3. Conduct secondary research on a topic of human-environment geography of personal or professional interest.
4. Communicate more effectively in both written and oral forms.

GEOG3200 - Principles of Remote Sensing - 3 - Credits

Course Overview

Course Prefix
GEOG

Course Number
3200

Department
Environment & Society

Course Title
Principles of Remote Sensing

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces remote sensing, an interdisciplinary field involving data acquisition and analysis of the Earth using airborne and satellite sensor technologies. Students explore fundamental concepts and gain hands-on experience through weekly lab exercises and a final project.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- GEOG2800 - Introduction to Geographic Information Sciences
  OR WILD2800 - Introduction to Geographic Information Sciences
  OR WATS2800 - Introduction to Geographic Information Sciences

Course Learning Objectives

Course Learning Outcomes

1. Describe the fundamental principles and applications of remote sensing.
2. Distinguish the different types of remote sensing platforms/sensors, their uses, and how to access their data products.
3. Acquire and demonstrate practical skills in remote sensing data processing, interpretation, and analysis.
4. Design a project that uses remote sensing analysis techniques to investigate a real-world scenario.
5. Evaluate the advantages and limitations of different remote sensing data types and analytical techniques

GEOG3430 - Political Geography (CI/DSS) - 3 - Credits

Course Overview

Course Prefix
GEOG

Course Number
3430

Department
Environment & Society

Cross-Listed Courses

POLS3430 - Political Geography (CI/DSS)

Course Title
Political Geography (CI/DSS)

General Education Attribute
CI, DSS

Grade Mode
Standard Letter

Repeat Status
NR

Course Description

Study of relationship between Earth, people, and the state. Global political phenomena studied from a geographic perspective. Explores impact of natural resources territorial seas and the nature of the state.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- POLS2100 - Introduction to International Relations (BSS)
  OR POLS2200 - Comparative Politics (BSS)
  OR POLS2300 - Introduction to Political Theory (BHU)
- POLS2430 - Contemporary Geopolitics (BSS)

GEOG3700 - Python Programming for GIS - 3 - Credits

Course Overview

Course Prefix
GEOG

Course Number
3700

Department
Environment & Society

Course Title
Python Programming for GIS

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students learn the basics of the Python programming language and how to use it with various GIS packages, including ArcGIS. The course also introduces other Python modules that are useful for working with GIS data.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- GEOG2800 - Introduction to Geographic Information Sciences **OR** WILD2800 - Introduction to Geographic Information Sciences

Course Learning Objectives

Course Learning Outcomes

By the end of this course, you will be able to:
1. Automate geospatial tasks in ArcGIS using Python
2. Create custom toolboxes and add-ins for ArcGIS
3. Make simple maps using Python
4. Be ready to use Python beyond ArcGIS

GEOG3800 - Geospatial Data Visualization - 3 - Credits

Course Overview

Course Prefix
GEOG

Course Number
3800

Department
Environment & Society

Course Title
Geospatial Data Visualization

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students explore how effective graphics illuminate data trends and patterns and make big data digestible. Students learn to consume data visualizations intelligently and produce powerful data graphics through application of fundamental visual strategies and tools. Basic statistical knowledge is recommended.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- GEOG2800 - Introduction to Geographic Information Sciences **OR** WILD2800 - Introduction to Geographic Information Sciences

Course Learning Objectives

Course Learning Outcomes

1. Analyze and select appropriate visualization methods by interpreting data patterns, trends, and outliers across different data types and analytical contexts.
2. Create a diverse set of static and interactive data visualizations including charts, maps, and using industry-standard tools such as Tableau and ArcGIS Pro.
3. Apply and evaluate visual design principles (e.g., color theory, layout, and perceptual effectiveness) to produce clear, accurate, and aesthetically effective visualizations.
4. Synthesize and critique data-driven narratives by combining multiple visualizations into cohesive stories while identifying and addressing bias, misleading practices, and ethical concerns

GEOG4210 - Geography of Utah - 3 - Credits

Course Overview

Course Prefix
GEOG

Course Number
4210

Department
Environment & Society

Course Title
Geography of Utah

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Applies principles and methods of physical, cultural, and human-environment geography to the study of Utah's people, places, and environments. Includes opportunities to build skills in GIS mapping, field studies of biophysical and social phenomena, and other forms of geographic inquiry.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Learn fundamental principles of spatial thinking, geographic theory and methods, and geographic literacy as applied to Utah and the Western United States.
2. Develop skills in written and oral expression on topics related to Utah's physical and human geography.
3. Learning to analyze and critically evaluate ideas, arguments, and points of view from peer-reviewed literature, maps, and historical documents related to Utah's geography.

GEOG4220 - International Regional Geography - 3 - Credits

Course Overview

Course Prefix
GEOG

Course Number
4220

Department
Environment & Society

Course Title
International Regional Geography

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Critical analysis and synthesis of demographic, environmental, political, economic, and cultural characteristics of world regions, as viewed in the context of human and physical processes at continental to global scales. Can be repeated for credit as different regions are covered.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

GEOG4400 - Natural Hazards and Society - 3 - Credits

Course Overview

Course Prefix
GEOG

Course Number
4400

Department
Environment & Society

Dual-Listed Courses
GEOG6400 - Natural Hazards and Society

Course Title
Natural Hazards and Society

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Examines how social and environmental factors work together to shape the risks posed by natural hazards to human society. Surveys different types of natural hazards and integrates perspectives on geospatial risk assessment, vulnerability, resilience, and mitigation planning.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Learn fundamental principles in the social science of hazards, risk, and disasters, including research methods and current research findings.
2. Develop skills in written and oral expression in the context of hazards and disasters.
3. Acquire skills in working with others as a member of a team in the context of a community risk assessment and mitigation planning exercise.

GEOG4900 - GIS Individual Projects - 1 - 3 Credits

Course Overview

Course Prefix
GEOG

Course Number
4900

Department
Environment & Society

Course Title
GIS Individual Projects

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Students undertake an independent research project that requires use of GIS, geoprocessing and spatial analytical techniques. Students must arrange (in advance) supervision by a faculty member.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

Special Approval
Departmental Permission Required

Course Learning Objectives

Course Learning Outcomes

1. Design and execute an independent research or applied project that applies advanced GIS, geoprocessing, and spatial analytical techniques under faculty supervision.
2. Critically evaluate and communicate GIS methods, workflows, and results through appropriate scholarly or professional deliverables.

GEOG4910 - Geographic Information Science Portfolio - 1 - Credits

Course Overview

Course Prefix
GEOG

Course Number
4910

Department
Environment & Society

Course Title

Geographic Information Science Portfolio

Grade Mode
Pass/Fail

Repeat Status
NR

Course Description

Students create and refine an online portfolio comprised of at least three geographic information science (GIS) projects. The projects are drawn from courses that constitute the Applied Geographic Information Science certificate.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- GEOG5500 - Advanced Geographic Information Sciences (GIS)
- GEOG2800 - Introduction to Geographic Information Sciences
  OR WILD2800 - Introduction to Geographic Information Sciences
  OR WATS2800 - Introduction to Geographic Information Sciences

***GEOG5500 ADVANCED GIS** may be taken concurrently*

Course Learning Objectives

Course Learning Outcomes

1. Showcase your abilities in a concise and powerful digital portfolio designed to communicate quickly and effectively the variety of skills you bring to the table.
2. Students will construct a website to create and house a digital portfolio of their skills and work experience.
3. Students will synthesize their skillsets to create a visually dynamic website that showcases the range of their geospatial skills.
4. Students will present a portfolio demonstration that will stimulate conditions in a career fair expo/conference networking.

GEOG4920 - GIS Internship - 1 - 6 Credits

Course Overview

Course Prefix
GEOG

Course Number
4920

Department
Environment & Society

Course Title
GIS Internship

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description

GIS internships give students work experience applying classroom skills to real-world problem solving while meeting the geospatial demands of their communities. Students find and apply for internship positions, working with a faculty sponsor to establish learning objectives and time commitment.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
6

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
6

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
6

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
6

Lecture Hours Operator:
TO

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- GEOG2800 - Introduction to Geographic Information Sciences
  OR WILD2800 - Introduction to Geographic Information Sciences
  OR WATS2800 - Introduction to Geographic Information Sciences

Course Learning Objectives

Course Learning Outcomes

1. Apply GIS concepts, tools, and workflows in a professional setting to address real-world geospatial problems relevant to community or organizational needs.
2. Reflect on and evaluate professional GIS practices by documenting learning outcomes, skill development, and the alignment between academic preparation and workplace expectations.

GEOG4950 - Special Topics - 1 - 4 Credits

Course Overview

Course Prefix
GEOG

Course Number
4950

Department
Environment & Society

Course Title
Special Topics

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course offers credit for special seminars beyond regularly scheduled courses.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
4

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
4

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
4

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
4

Lecture Hours Operator:
TO

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Students will build and/or apply topical knowledge in the discipline of geography.

GEOG5120 - Environment and Development in Latin America (CI) - 3 - Credits

Course Overview

Course Prefix
GEOG

Course Number
5120

Department
Environment & Society

Dual-Listed Courses
GEOG6120 - Environment and Development in Latin America

Course Title
Environment and Development in Latin America (CI)

General Education Attribute
CI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course examines the changing geography of Latin America over time, with a focus on globalization and its impacts, varied human-environment relationships, and processes of economic and social development and inequality. Additional coursework is required at the graduate level.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ENGL2010 - Research and Argument Across Perspectives (CL2)

Course Learning Objectives

Course Learning Outcomes
By the end of this course, students will be able to:

1. Apply fundamental concepts from geography to understand historical and contemporary environment and development issues in Latin America.
2. Analyze and critically evaluate ideas, arguments, and points of view on human-environment and social interactions in various Latin American countries, using course readings, films, discussions, and presented research as a foundation.
3. Communicate more effectively in both written and oral forms.

GEOG5300 - Geospatial Analysis with R - 3 - Credits

Course Overview

Course Prefix
GEOG

Course Number
5300

Department
Environment & Society

Dual-Listed Courses
GEOG6300 - Geospatial Analysis with R

Course Title
Geospatial Analysis with R

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
In this course, students consider what an increasingly democratic GIS might look like. They gain hands-on experience with tools and theories that aim to make GIS a more inclusive technology by working with spatial data in the open-source programming language R. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- GEOG2800 - Introduction to Geographic Information Sciences
  OR WILD2800 - Introduction to Geographic Information Sciences
  OR WATS2800 - Introduction to Geographic Information Sciences
- STAT1080 - Foundations of Data Science (QL)

OR ENVS3500 - Environmental Data Science (QI)
OR DATA3500 - Introduction to Python Programming (Inactive)
OR GEOG3700 - Python Programming for GIS

Course Learning Objectives

Course Learning Outcomes

1. Confidently interpret and manipulate the analytical tools used in geospatial analysis within the context of the powerful software R.
2. Broaden our ability to reason spatially and to formulate efficient coding thought.
3. Learn to create, summarize, interpret, and model spatial data in order solve spatial problems.
4. Improve visualizing skills through static and interactive maps, online dashboards using tmap, leaflet, Shiny.
5. Practice constructing autonomous and highly-technical problem-solving skills in the realm of the geospatial methods.

GEOG5400 - Natural Hazards and Society - 3 - Credits

Course Overview

Course Prefix
GEOG

Course Number
5400

Department
Environment & Society

Dual-Listed Courses
GEOG6400 - Natural Hazards and Society

Course Title
Natural Hazards and Society

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course examines how social and environmental factors work to shape risks posed by natural hazards. Content surveys different hazard types and integrates geospatial risk assessment, vulnerability, resilience, and mitigation planning. Additional coursework is required at the graduate level.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes
1. Learn fundamental principles in the social science of hazards, risk, and disasters, including research methods and current research findings.
2. Develop skills in written and oral expression in the context of hazards and disasters.
3. Acquire skills in working with others as a member of a team in the context of a community risk assessment and mitigation planning exercise.

GEOG5500 - Advanced Geographic Information Sciences (GIS) - 3 - Credits

Course Overview

Course Prefix
GEOG

Course Number
5500

Department
Environment & Society

Dual-Listed Courses
GEOG6500 - Advanced Geographic Information Sciences (GIS)

Course Title
Advanced Geographic Information Sciences (GIS)

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course prepares students for professional roles in environmental and natural resource management by building confidence with advanced GIS workflows, including complex morphometric and network analyses, raster modeling, professional cartography, and error assessment applied to real-world environmental challenges. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ANY of the following Courses:

- GEOG2800 - Introduction to Geographic Information Sciences
  OR WATS2800 - Introduction to Geographic Information Sciences
  OR WILD2800 - Introduction to Geographic Information Sciences

Course Learning Objectives

Course Learning Outcomes

1. Explain and evaluate core theories of GIS to assess the appropriate capabilities and limitations for natural resource applications.
2. Apply and integrate advanced GIS tools and workflows to perform spatial analyses and produce maps that are fit-for-purpose and analytically sound.
3. Independently design and troubleshoot GIS analyses by identifying unfamiliar methods, locating community and technical resources, and iteratively refining workflows.
4. Synthesize and communicate GIS-based findings to address applied or research-driven natural resource questions through clear, accessible maps for both technical and non-technical audiences.

GEOG5805 - Introduction to Geospatial Artificial Intelligence: The Remote Sensing and GeoAI Frontier - 3 - Credits

Course Overview

Course Prefix
GEOG

Course Number
5805

Department
Environment & Society

Dual-Listed Courses

GEOG6805 - Introduction to Geospatial Artificial Intelligence: The Remote Sensing and GeoAI Frontier

Course Title

Introduction to Geospatial Artificial Intelligence: The Remote Sensing and GeoAI Frontier

Grade Mode
Standard Letter

Repeat Status
NR

Course Description

This course introduces the fundamental concepts of remote sensing and machine learning, providing students with hands-on experience in Python programming. Students learn to automate remote sensing data processing and train traditional machine learning models for practical geospatial artificial intelligence applications. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- GEOG2800 - Introduction to Geographic Information Sciences **OR** WATS2800 - Introduction to Geographic Information Sciences

OR WILD2800 - Introduction to Geographic Information Sciences
- CEE1400 - Introduction to Computer Programming for Civil and Environmental Engineers
  OR CEE2450 - Computer Programming and Numerical Methods for Civil and Environmental Engineers
  OR CS4320 - Applied Machine Learning
  OR DATA2100 - Data and Information in Business
  OR DATA3500 - Introduction to Python Programming (Inactive)
  OR DATA5630 - Deep Forecasting
  OR GEOG3700 - Python Programming for GIS

Course Learning Objectives

Course Learning Outcomes

1. Understanding GeoAI Fundamentals: Define and explain the fundamental concepts of GeoAI, including geospatial data, spatial analysis, and artificial intelligence.
2. Geospatial Data Processing with Python:Utilize Python for geospatial data manipulation and analysis. Apply Python libraries for tasks such as data loading, transformation, and visualization.
3. Integration of Geospatial and AI Technologies: Explore the integration of geospatial technologies with artificial intelligence (GIS, remote sensing, and machine learning).
4. Machine Learning for Geospatial Data: Explore machine learning algorithms applicable to geospatial data. Apply supervised and unsupervised machine learning algorithms to analyze and interpret spatial patterns in geospatial datasets, with a focus on classification techniques,
5. Hands-on Programming Skills: Develop practical programming skills using relevant programming languages and libraries for implementing GeoAI algorithms.

GEOG5815 - Insights from Above: Processing and Analyzing Drone Data - 1 - Credits

Course Overview

Course Prefix
GEOG

Course Number
5815

Department
Environment & Society

Dual-Listed Courses
GEOG6815 - Insights from Above: Processing and Analyzing Drone Data

Course Title
Insights from Above: Processing and Analyzing Drone Data

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This comprehensive and hands-on course covers basic and advanced techniques for processing drone imagery. Students gain practical skills that can be applied to real-world scenarios in various industries. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours Min:
1

Contact Hours

Contact Hours Min:
1

Billing Hours

Billing Hours Min:
1

Lecture Hours

Lecture Hours Min:
1

Other Enrollment Recommendations
WILD5750 APPLIED REMOTE SENSING or WATS5003 RS OF LAND SURFACES

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:
- GEOG2800 - Introduction to Geographic Information Sciences
  OR WATS2800 - Introduction to Geographic Information Sciences
  OR WILD2800 - Introduction to Geographic Information

Sciences

Course Learning Objectives

Course Learning Outcomes

By the end of this course, you will be able to:
1. Gain familiarity with Unmanned Aerial Systems (UAS), including identifying different sensor types, software, and data products and explaining the considerations for optimal UAS data acquisition and quality.
2. Apply basic and advanced UAS data processing techniques.
3. Analyze UAS-derived datasets for diverse applications.
4. Evaluate UAS applications in various real-world scenarios.
5. Create visualizations and reports to effectively communicate results and insights derived from UAS data.

GEOG5825 - Geospatial Artificial Intelligence, Ethics, & Society - 1 - Credits

Course Overview

Course Prefix
GEOG

Course Number
5825

Department
Environment & Society

Dual-Listed Courses

GEOG6825 - Geospatial Artificial Intelligence, Ethics, & Society

Course Title

Geospatial Artificial Intelligence, Ethics, & Society

Grade Mode
Standard Letter

Repeat Status
NR

Course Description

This course addresses emerging ethical, security, and privacy issues associated with rapid developments in spatial data technologies, including in geospatial artificial intelligence and remote sensing. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Other Enrollment Recommendations

GEOG5805 INTRODUCTION TO GEO AI

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- GEOG2800 - Introduction to Geographic Information Sciences
  OR WATS2800 - Introduction to Geographic Information Sciences
  OR WILD2800 - Introduction to Geographic Information

Sciences

Course Learning Objectives

Course Learning Outcomes

Critically think and evaluate:
1. Ethical Issues: Bias and Fairness, Social Justice, Informed Consent, Ownership and Control.
2. Security Issues: Data Breaches, Location-based Attacks, Infrastructure Vulnerabilities, geospatial metadata exploitation.
3. Privacy Issues: Location privacy, De-anonymization risks, Smart City Surveillance, Community Privacy Concerns.

GEOG5880 - Remote Sensing & GeoAI Internship - 1 - 3 Credits

Course Overview

Course Prefix
GEOG

Course Number
5880

Department
Environment & Society

Course Title
Remote Sensing & GeoAI Internship

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Internships in remote sensing and geospatial artificial intelligence (GeoAI) provide undergraduate students with work experience applying classroom skills to real-world problem solving. Students secure the internship opportunity and work with a faculty supervisor to establish student-specific learning objectives.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

Special Approval
Instructor Permission

Course Learning Objectives

Course Learning Outcomes

1. Students will gain hands-on experience using industry standard tools and software while meeting the geospatial demands of our communities.

GEOG5890 - Project Design and Implementation for Remote Sensing & GeoAI - 1 - 3 Credits

Course Overview

Course Prefix
GEOG

Course Number
5890

Department
Environment & Society

Course Title

Project Design and Implementation for Remote Sensing & GeoAI

Grade Mode
Standard Letter

Repeat Status
RP

Course Description

This course serves as a culminating experience for the Remote Sensing & GeoAI Foundations Certificate Program. Students plan, implement, and communicate the results of a project that employs remote sensing and geospatial artificial intelligence (GeoAI) techniques.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

Special Approval

Instructor Permission

Course Learning Objectives

Course Learning Outcomes

1. Demonstrate the ability to select and apply appropriate remote sensing methods, such as image processing, classification, or change detection, to analyze geospatial data.
2. Demonstrate project management skills by creating a detailed plan, setting milestones, and managing resources effectively.
3. Successfully collect, organize, and preprocess remote sensing data, considering factors such as sensor characteristics, spatial resolution, and data quality.
4. Apply spatial analysis techniques to extract meaningful information from remote sensing data and interpret the findings to address the project's goals.
5. Demonstrate the ability to integrate diverse data types to enhance the comprehensiveness and accuracy of the remote sensing analysis.
6. Exhibit proficiency in using industry-standard remote sensing software and tools for tasks such as image processing, spatial analysis, and visualization.
7. Apply critical thinking skills to identify and overcome obstacles, adapting the analysis as needed to achieve meaningful results.
8. Develop clear and concise project documentation, reports, and presentations that effectively convey the purpose, methods, and results of the remote sensing analysis.
9. Demonstrate awareness of ethical considerations in remote sensing, ensuring responsible and respectful use of geospatial data.
10. Recognize the importance of staying informed about advancements in remote sensing technologies and methodologies, and exhibit adaptability in response to changing project requirements.

GEOG6100 - GIS Fundamentals - 1 - Credits

Course Overview

Course Prefix
GEOG

Course Number
6100

Department
Environment & Society

Course Title
GIS Fundamentals

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This crash course in GIS is intended for graduate students who are new to GIS or to serve as a refresher for those who have not used GIS in a while. Students build basic GIS proficiency and map production skills.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Course Learning Objectives

Course Learning Outcomes

1. Apply foundational GIS concepts and core tools to perform basic spatial tasks and analyses.
2. Identify and use appropriate technical and community-based GIS resources to troubleshoot problems and extend your GIS skills independently.
3. Analyze and evaluate GIS inputs, processes, and outputs to assess validity of spatial results.

GEOG6120 - Environment and Development in Latin America - 3 - Credits

Course Overview

Course Prefix
GEOG

Course Number
6120

Department
Environment & Society

Dual-Listed Courses
GEOG5120 - Environment and Development in Latin America (CI)

Course Title
Environment and Development in Latin America

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course examines the changing geography of Latin America over time, with a focus on globalization and its impacts, varied human-environment relationships, and processes of economic and social development and inequality. Additional coursework is required at the graduate level.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

GEOG6220 - Data Visualization Principles and Practice - 3 - Credits

Course Overview

Course Prefix
GEOG

Course Number
6220

Department
Environment & Society

Course Title
Data Visualization Principles and Practice

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course guides students to master data visualization principles to create clear, compelling visuals by leveraging pre-attentive processing. Students learn to apply best practices in design and storytelling using Flourish and ArcGIS Pro to effectively communicate complex data insights.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Other Enrollment Recommendations
Proficiency in ArcGIS Pro

Course Learning Objectives

Course Learning Outcomes
1. Interpret and Analyze Data: Students will analyze various data types to identify patterns, trends, and outliers, and will evaluate the most suitable data representation methods for different scenarios.
2. Create Data Visualizations: Students will apply their knowledge of data visualization tools to create a wide range of visualizations using Flourish, an open-source tool, and ArcGIS Pro, an industry-standard geospatial platform.
3. Understand Design Principles: Students will demonstrate a deep understanding of design principles for data visualization, including color theory, typography, and layout design, and will create aesthetically pleasing and informative visualizations that adhere to best practices.
4. Craft Data Narratives: Students will synthesize multiple visualizations to craft compelling narratives that effectively communicate insights and key messages to a target audience.
5. Evaluate Ethical Considerations: Students will critically evaluate data visualizations for bias and misleading practices, and address ethical concerns in both visualizations and data-driven narratives.

GEOG6300 - Geospatial Analysis with R - 3 - Credits

Course Overview

Course Prefix
GEOG

Course Number
6300

Department
Environment & Society

Dual-Listed Courses
GEOG5300 - Geospatial Analysis with R

Course Title
Geospatial Analysis with R

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
In this course, students consider what an increasingly democratic GIS might look like. They gain hands-on experience with tools and theories that aim to make GIS a more inclusive technology by working with spatial data in the open-source programming language R. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Course Learning Objectives

Course Learning Outcomes
1. Confidently interpret and manipulate the analytical tools used in geospatial analysis within the context of the powerful software R.
2. Broaden our ability to reason spatially and to formulate efficient coding thought.
3. Learn to create, summarize, interpret, and model spatial data in order solve spatial problems.
4. Improve visualizing skills through static and interactive maps, online dashboards using tmap, leaflet, Shiny.
5. Practice constructing autonomous and highly-technical problem-solving skills in the realm of the geospatial methods.

GEOG6400 - Natural Hazards and Society - 3 - Credits

Course Overview

Course Prefix
GEOG

Course Number
6400

Department
Environment & Society

Dual-Listed Courses
GEOG5400 - Natural Hazards and Society

Course Title
Natural Hazards and Society

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course examines how social and environmental factors work to shape risks posed by natural hazards. Content surveys different hazard types and integrates geospatial risk assessment, vulnerability, resilience, and mitigation planning. Additional coursework is required at the graduate level.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes
1. Learn fundamental principles in the social science of hazards, risk, and disasters, including research methods and current research findings.
2. Develop skills in written and oral expression in the context of hazards and disasters.
3. Acquire skills in working with others as a member of a team in the context of a community risk assessment and mitigation planning exercise.

GEOG6500 - Advanced Geographic Information Sciences (GIS) - 3 - Credits

Course Overview

Course Prefix
GEOG

Course Number
6500

Department
Environment & Society

Dual-Listed Courses
GEOG5500 - Advanced Geographic Information Sciences (GIS)

Course Title
Advanced Geographic Information Sciences (GIS)

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course prepares students for professional roles in environmental and natural resource management by building confidence with advanced GIS workflows, including complex morphometric and network analyses, raster modeling, professional cartography, and error assessment applied to real-world environmental challenges. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

GEOG6800 - GIS Advanced Individual Projects - 1 - 3 Credits

Course Overview

Course Prefix
GEOG

Course Number
6800

Department
Environment & Society

Course Title
GIS Advanced Individual Projects

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Students will undertake an independent research project that requires use of advanced GIS, geoprocessing and spatial analytical techniques. Students must arrange (in advance) supervision by a faculty member.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

Special Approval
Departmental Permission Required

Course Learning Objectives

Course Learning Outcomes

1. Design and execute an independent research or applied project that applies advanced GIS, geoprocessing, and spatial analytical techniques under faculty supervision.
2. Critically evaluate and communicate GIS methods, workflows, and results through appropriate scholarly or professional deliverables.

GEOG6805 - Introduction to Geospatial Artificial Intelligence: The Remote Sensing and GeoAI Frontier - 3 - Credits

Course Overview

Course Prefix
GEOG

Course Number
6805

Department
Environment & Society

Cross-Listed Courses
NR6805 - Introduction to Geospatial Artificial Intelligence: The Remote Sensing and GeoAI Frontier

Dual-Listed Courses
GEOG5805 - Introduction to Geospatial Artificial Intelligence: The Remote Sensing and GeoAI Frontier

Course Title
Introduction to Geospatial Artificial Intelligence: The Remote Sensing and GeoAI Frontier

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces the fundamental concepts of remote sensing and machine learning, providing students with hands-on experience in Python programming. Students learn to automate remote sensing data processing and train traditional machine learning models for practical geospatial artificial intelligence applications. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Other Enrollment Recommendations

GIS and Python experience is strongly recommended.

Course Learning Objectives

Course Learning Outcomes

1. Understanding GeoAI Fundamentals: Define and explain the fundamental concepts of GeoAI, including geospatial data, spatial analysis, and artificial intelligence.

2. Geospatial Data Processing with Python: Utilize Python for geospatial data manipulation and analysis. Apply Python libraries for tasks such as data loading, transformation, and visualization.
3. Integration of Geospatial and AI Technologies: Explore the integration of geospatial technologies with artificial intelligence (GIS, remote sensing, and machine learning).
4. Machine Learning for Geospatial Data: Explore machine learning algorithms applicable to geospatial data. Apply supervised and unsupervised machine learning algorithms to analyze and interpret spatial patterns in geospatial datasets, with a focus on classification techniques.
5. Hands-on Programming Skills: Develop practical programming skills using relevant programming languages and libraries for implementing GeoAI algorithms.

GEOG6815 - Insights from Above: Processing and Analyzing Drone Data - 1 - Credits

Course Overview

Course Prefix
GEOG

Course Number
6815

Department
Environment & Society

Cross-Listed Courses
NR6815 - Insights from Above: Processing and Analyzing Drone Data

Dual-Listed Courses
GEOG5815 - Insights from Above: Processing and Analyzing Drone Data

Course Title
Insights from Above: Processing and Analyzing Drone Data

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This comprehensive and hands-on course covers basic and advanced techniques for processing drone imagery. Students gain practical skills that can be applied to real-world scenarios in various industries. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Course Learning Objectives

Course Learning Outcomes

1. Drone Imagery: Importance of drone imagery processing in contemporary applications.
2. Basics of drone technology.
3. Camera settings and considerations for optimal image acquisition.
4. Possible hands-on collection exercise.
5. Basic image processing: Understanding image file formats and metadata in drone imagery.
6. Introduction to basic image processing techniques: image enhancement, color correction, and filtering.
7. Advanced image processing, corrections, and feature extraction.
8. Image stitching: Understanding significance of georeferencing: GPS, ground control points, and coordinate systems.

9. Basic Spatial Analysis with Drone Imagery: Spatial analysis techniques using georeferenced drone imagery.
10. Identifying and analyzing features in spatially referenced images.

GEOG6825 - Geospatial Artificial Intelligence, Ethics, & Society - 1 - Credits

Course Overview

Course Prefix
GEOG

Course Number
6825

Department
Environment & Society

Cross-Listed Courses
NR6825 - Geospatial Artificial Intelligence, Ethics, & Society

Dual-Listed Courses
GEOG5825 - Geospatial Artificial Intelligence, Ethics, & Society

Course Title
Geospatial Artificial Intelligence, Ethics, & Society

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course addresses emerging ethical, security, and privacy issues associated with rapid developments in spatial data technologies, including in geospatial artificial intelligence and remote sensing. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Other Enrollment Recommendations

GEOG6805 INTRODUCTION TO GEO AI or NR6805 INTRODUCTION TO GEO AI

Course Learning Objectives

Course Learning Outcomes

1. Ethical Issues: Bias and Fairness, Social Justice, Informed Consent, Ownership and Control.
2. Security Issues: Data Breaches, Location-based Attacks, Infrastructure Vulnerabilities, geospatial metadata exploitation.
3. Privacy Issues: Location privacy, De-anonymization risks, Smart City Surveillance, Community Privacy Concerns.

GEOG6835 - Geovisualization for Remote Sensing Applications - 1 - Credits

Course Overview

Course Prefix
GEOG

Course Number
6835

Department
Environment & Society

Cross-Listed Courses
NR6835 - Geovisualization for Remote Sensing Applications

Course Title
Geovisualization for Remote Sensing Applications

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides students with a comprehensive understanding of visualization techniques unique to remote sensing.

Credit Hours

Credit Hours Min:
1

Contact Hours

Contact Hours Min:
1

Billing Hours

Billing Hours Min:
1

Lecture Hours

Lecture Hours Min:
1

Other Enrollment Recommendations
Coursework or applied experience in remote sensing

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Importance of remote sensing visualizations in various fields.
2. Understanding the role of visualization in interpreting remote sensing data.
3. Introduction to visualization principles and techniques.
4. Image Enhancement Techniques.
5. Basic image enhancement techniques for improving the visual quality of remote sensing data.
6. Contrast stretching, histogram equalization, and other enhancement methods.
7. Color Mapping and False Color Composites.
8. Principles of color mapping in remote sensing.
9. Creating false color composites and their applications.
10. Multispectral and Hyperspectral Visualization.
11. Visualization techniques for multispectral and hyperspectral remote sensing data.
12. Exploring the spectral characteristics of different materials.
13. LiDAR data visualization and terrain modeling.
14. Time-series Visualization.
15. Thermal Infrared Visualization.

GEOG6855 - Advanced Geospatial Artificial Intelligence - 3 - Credits

Course Overview

Course Prefix
GEOG

Course Number
6855

Department
Environment & Society

Cross-Listed Courses
NR6855 - Advanced Geospatial Artificial Intelligence

Course Title
Advanced Geospatial Artificial Intelligence

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course delves into the deep learning aspect of geospatial artificial intelligence (GeoAI), with strong emphasis on geospatial computer vision. Students gain hands-on experience with PyTorch in order to apply GeoAI principles for extracting valuable information from geospatial data.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Other Enrollment Recommendations
GIS and Python experience is strongly recommended.

Course Learning Objectives

Course Learning Outcomes
1. Introduction to Geospatial Deep Learning: Understand the principles and applications of deep learning in the context of geospatial data, including convolutional neural networks (CNNs) for image analysis.
2. Integration of Remote Sensing and GeoAI: Integrate remote sensing data with machine learning algorithms for geospatial analysis.
3. Develop models for land cover classification, change detection, and other applications.
4. Case Studies and Real-world Applications: Discuss real-world applications of GeoAI through case studies, exploring how these technologies are employed in fields such as environmental monitoring, urban planning, and disaster response.
5. Analyze and interpret real-world case studies applying GeoAI to address geospatial challenges.
6. Propose innovative solutions for new applications or problem domains.
7. Gain hands-on experience with industry-standard tools for remote sensing and GeoAI.
8. Develop practical skills relevant to employment in research or industry.
9. Emerging Trends in Remote Sensing and GeoAI: Stay informed about current and emerging trends in remote sensing and GeoAI.
10. Discuss potential future developments and their impact on research and industry.

GEOG6880 - Advanced Remote Sensing & GeoAI Internship - 2 - 3 Credits

Course Overview

Course Prefix
GEOG

Course Number
6880

Department
Environment & Society

Cross-Listed Courses
NR6880 - Advanced Remote Sensing & GeoAI Internship

Course Title
Advanced Remote Sensing & GeoAI Internship

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Internships in remote sensing and geospatial artificial intelligence (GeoAI) provide graduate students with work experience applying classroom skills to real-world problem-solving. Students secure the internship opportunity and work with a faculty supervisor to establish student-specific learning objectives.

Credit Hours

Credit Hours Min:
2

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
2

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
2

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
2

Lecture Hours Max:
3

Lecture Hours Operator:
TO

Special Approval

Instructor Permission

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Students will gain hands-on experience using industry standard tools and software while meeting the geospatial demands of our communities.

GEOG6890 - Advanced Project Design and Implementation for Remote Sensing & GeoAI - 1 - 3 Credits

Course Overview

Course Prefix
GEOG

Course Number
6890

Department
Environment & Society

Cross-Listed Courses
NR6890 - Advanced Project Design and Implementation for Remote Sensing & GeoAI

Course Title
Advanced Project Design and Implementation for Remote Sensing & GeoAI

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course serves as a culminating experience for the Applied Remote Sensing & GeoAI Post-Baccalaureate Certificate Program. Students plan, implement, and communicate the results of a project that employs remote sensing and geospatial artificial intelligence techniques.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

Special Approval
Instructor Permission

Course Learning Objectives

Course Learning Outcomes
1. Demonstrate the ability to select and apply appropriate remote sensing methods, such as image processing, classification, or change detection, to analyze geospatial data.
2. Demonstrate project management skills by creating a detailed plan, setting milestones, and managing resources effectively.
3. Successfully collect, organize, and preprocess remote sensing data, considering factors such as sensor characteristics, spatial resolution, and data quality.
4. Apply spatial analysis techniques to extract meaningful information from remote sensing data and interpret the findings to address the project's goals.
5. Demonstrate the ability to integrate diverse data types to enhance the comprehensiveness and accuracy of the remote sensing analysis.
6. Exhibit proficiency in using industry-standard remote sensing software and tools for tasks such as image processing, spatial analysis, and visualization.
7. Apply critical thinking skills to identify and overcome obstacles, adapting the analysis as needed to achieve meaningful results.
8. Develop clear and concise project documentation, reports, and presentations that effectively convey the purpose, methods, and results of the remote sensing analysis.
9. Demonstrate awareness of ethical considerations in remote sensing, ensuring responsible and respectful use of geospatial data.
10. Recognize the importance of staying informed about advancements in remote sensing technologies and methodologies, and exhibit adaptability in response to changing project requirements.

GEOG6900 - Graduate Special Topics - 1 - 4 Credits

Course Overview

Course Prefix
GEOG

Course Number
6900

Department
Environment & Society

Course Title
Graduate Special Topics

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course offers credit for special seminars beyond regularly scheduled courses.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
4

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
4

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
4

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
4

Lecture Hours Operator:
TO

No Requirements

GEOG6920 - Field Experiences in Development Geography - 1 - 6 Credits

Course Overview

Course Prefix
GEOG

Course Number
6920

Department
Environment & Society

Course Title
Field Experiences in Development Geography

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
Allows graduate students to carry out geography fieldwork in a developing country context, in consultation with departmental faculty.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
6

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
6

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
6

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
6

Lecture Hours Operator:
TO

Special Approval
Instructor permission

No Requirements

GEQI - - 3 - Credits

Course Overview

Course Prefix
GE

Course Number
QI

Department
General University

Grade Mode
Standard Letter

Repeat Status
RP

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

GEQL - - 3 - 4 Credits

Course Overview

Course Prefix
GE

Course Number
QL

Department
General University

Grade Mode
Standard Letter

Repeat Status
RP

Credit Hours

Credit Hours Min:
3

Credit Hours Max:
4

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
3

Contact Hours Max:
4

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
3

Billing Hours Max:
4

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
3

Lecture Hours Max:
4

Lecture Hours Operator:
TO

No Requirements

GERM1010 - German First Year I - 4 - Credits

Course Overview

Course Prefix
GERM

Course Number
1010

Department
World Languages and Cultures

Course Title
German First Year I

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Communicative competencies in the four language skills: speaking, listening, reading, and writing, with exposure to cultures and customs.

Credit Hours

Credit Hours
Min:
4

Contact Hours

Contact Hours
Min:
4

Billing Hours

Billing Hours
Min:
4

Lecture Hours

Lecture Hours
Min:
4

Other Enrollment Recommendations

Not open to those with more than one year high school German or equivalent

No Requirements

GERM1020 - German First Year II - 4 - Credits

Course Overview

Course Prefix
GERM

Course Number
1020

Department
World Languages and Cultures

Course Title
German First Year II

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Communicative competencies in the four language skills: speaking, listening, reading, and writing, with exposure to cultures and customs.

Credit Hours

Credit Hours
Min:
4

Contact Hours

Contact Hours
Min:
4

Billing Hours

Billing Hours
Min:
4

Lecture Hours

Lecture Hours
Min:
4

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- GERM1010 - German First Year I

OR at least one (but not more than two) years of German in high school or equivalent.

GERM1030 - Accelerated German First Year - 4 - Credits

Course Overview

Course Prefix
GERM

Course Number
1030

Department
World Languages and Cultures

Course Title
Accelerated German First Year

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This accelerated beginning German course equates to two semesters. Students develop communicative competencies in speaking, writing, listening, and reading, as well as cultural competence.

Credit Hours

Credit Hours Min:
4

Contact Hours

Contact Hours Min:
4

Billing Hours

Billing Hours Min:
4

Lecture Hours

Lecture Hours Min:
4

Course Learning Objectives

Course Learning Outcomes

1. Develop basic German language skills in all four areas: speaking, listening, reading, and writing.

2. Cultivate especially speaking proficiency through interactive learning activities.

3. Advance German language skills to the level required for continued progress at the next course level (USU German 2010 or 2030).

4. Reach the Novice High German language level on the ACTFL scale.

GERM1800 - German I Study Abroad - 1 - 8 Credits

Course Overview

Course Prefix
GERM

Course Number
1800

Department
World Languages and Cultures

Course Title
German I Study Abroad

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Intensive study in a German-speaking country, advancing proficiency in the four language skills and multicultural knowledge at the beginning level.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
8

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
8

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
8

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
8

Lecture Hours Operator:
TO

No Requirements

GERM2010 - German Second Year I - 4 - Credits

Course Overview

Course Prefix
GERM

Course Number
2010

Department
World Languages and Cultures

Course Title
German Second Year I

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Further development of first-year competencies with emphasis on language structure, vocabulary expansion, reading, writing, and conversation in the context of cross-cultural analysis.

Credit Hours

Credit Hours
Min:
4

Contact Hours

Contact Hours
Min:
4

Billing Hours

Billing Hours
Min:
4

Lecture Hours

Lecture Hours
Min:
4

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- GERM1020 - German First Year II

(or equivalent)

GERM2020 - German Second Year II - 4 - Credits

Course Overview

Course Prefix
GERM

Course Number
2020

Department
World Languages and Cultures

Course Title
German Second Year II

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Further development of first-year competencies with emphasis on language structure, vocabulary expansion, reading, writing, and conversation in the context of cross-cultural analysis.

Credit Hours

Credit Hours
Min:
4

Contact Hours

Contact Hours
Min:
4

Billing Hours

Billing Hours
Min:
4

Lecture Hours

Lecture Hours
Min:
4

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- GERM2010 - German Second Year I

(or equivalent)

GERM2030 - Accelerated German Second Year - 4 - Credits

Course Overview

Course Prefix
GERM

Course Number
2030

Department
World Languages and Cultures

Course Title
Accelerated German Second Year

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This accelerated intermediate German course equates to two semesters. Students deepen communicative competencies in speaking, listening, reading, and writing, as well as cultural learning.

Credit Hours

Credit Hours
Min:
4

Contact Hours

Contact Hours
Min:
4

Billing Hours

Billing Hours
Min:
4

Lecture Hours

Lecture Hours
Min:
4

Other Enrollment Recommendations
Beginning German instruction (equivalent of German First Year)

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Fulfill ANY of the following requirements:

Option 1

Complete ALL of the following Courses:

- GERM1010 - German First Year I
- GERM1020 - German First Year II

OR

Option 2

Complete ALL of the following Courses:

- GERM1030 - Accelerated German First Year

OR

Option 3

Fulfilled by exam
World Languages & Cultures Proficiency Test with a minimum score of 370.

Course Learning Objectives

Course Learning Outcomes
1. Acquire intermediate German language skills in all four areas: speaking, listening, reading, and writing.

2. Develop communication fluency through interactive learning activities.

3. Deepen cultural literacy and immersion in contemporary German discourses.

4. Advance German language skills to Intermediate High level on the ACTFL scale (USU German 3000-level or 4000-level courses).

GERM2550 - German Civilization - 3 - Credits

Course Overview

Course Prefix
GERM

Course Number
2550

Department
World Languages and Cultures

Course Title
German Civilization

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Covers the most important developments in German-speaking countries from the High Middle Ages to the present. Deals with political, social, literary, historical, and artistic expressions of an emerging culture. Taught in English.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

GERM2570 - Contemporary Germany - 3 - Credits

Course Overview

Course Prefix
GERM

Course Number
2570

Department
World Languages and Cultures

Course Title
Contemporary Germany

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Covers the most important elements of contemporary German culture in its literary, social, and artistic manifestations, and the political and historical dimensions of agents of change. Taught in English.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

GERM2800 - German II Study Abroad - 1 - 8 Credits

Course Overview

Course Prefix
GERM

Course Number
2800

Department
World Languages and Cultures

Course Title
German II Study Abroad

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Intensive study in a German-speaking country, advancing proficiency in the four language skills and multicultural knowledge at the second-year level. Repeatable for credit.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
8

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
8

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
8

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
8

Lecture Hours Operator:
TO

No Requirements

GERM2880 - Individual Readings - 1 - 4 Credits

Course Overview

Course Prefix
GERM

Course Number
2880

Department
World Languages and Cultures

Course Title
Individual Readings

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Individual study of selected readings in German.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
4

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
4

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
4

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
4

Lecture Hours Operator:
TO

Special Approval

Instructor permission

No Requirements

GERM2988 - Special Problems - 1 - 3 Credits

Course Overview

Course Prefix
GERM

Course Number
2988

Department
World Languages and Cultures

Course Title
Special Problems

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
An elective course intended for advanced students. Students will work individually with the instructor to develop reading, writing, listening and speaking skills. Emphasis will be on advanced grammar and conversation. German culture will also be emphasized. Significant reading and work outside of class are required.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

Special Approval

Instructor permission

No Requirements

GERM3000 - Introduction to German Studies (DHA) - 3 - Credits

Course Overview

Course Prefix
GERM

Course Number
3000

Department
World Languages and Cultures

Course Title
Introduction to German Studies (DHA)

General Education Attribute
DHA

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Introduction to the discipline of German Studies (history, literature, the arts, philosophy, science, economics, politics, etc.), addressing information resources, research methods, student career goals, and practice. Advances oral and written language proficiency. Taught in German.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Fulfill ANY of the following requirements:

Coursework

Complete ALL of the following Courses:

- GERM2020 - German Second Year II

OR

Exam

Language Proficiency Exam

- USU World Languages & Cultures language proficiency testing score of 500+

GERM3040 - Advanced German Grammar & Culture (CI) - 3 - Credits

Course Overview

Course Prefix
GERM

Course Number
3040

Department
World Languages and Cultures

Course Title
Advanced German Grammar & Culture (CI)

General Education Attribute
CI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description

This course offers a thorough review of German grammar and style, combined with selected aspects of German culture. Rules of writing are applied to compositions with graded difficulty as well as oral presentations of contemporary cultural topics. Taught in German.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Fulfill ANY of the following requirements:

Coursework

Complete ALL of the following Courses:

- GERM2020 - German Second Year II

OR

Exam

Language Proficiency Exam

- USU World Languages & Cultures language proficiency testing score of 500+

GERM3050 - Advanced German Conversation (CI) - 3 - Credits

Course Overview

Course Prefix
GERM

Course Number
3050

Department
World Languages and Cultures

Course Title
Advanced German Conversation (CI)

General Education Attribute
CI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description

Deep dive into contemporary conversation and culture. Invites students to improve their listening and speaking skills and to expand their cultural awareness. Presentations on current topics (events, arts, politics, etc.) serve as springboards for general discussion and small group conversation.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Fulfill ANY of the following requirements:

Coursework

Complete ALL of the following Courses:

- GERM2020 - German Second Year II

OR

Exam

Language Proficiency Exam

- USU World Languages & Cultures language proficiency testing score of 500+

GERM3116 - Popular Culture in the German-Speaking World - 3 - Credits

Course Overview

Course Prefix
GERM

Course Number
3116

Department
World Languages and Cultures

Course Title
Popular Culture in the German-Speaking World

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course examines how German speakers view themselves and their communities. Exploring popular entertainment, festivals, music, and sports, students analyze different viewpoints and learn how global perspectives shape German cultures and identities, comparing them to their own culture.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Fulfilled by exam
AP German Language exam score of 3 or higher.

Course Learning Objectives

Course Learning Outcomes

1. Describe and analyze cultural products, practices and perspectives and their significance for contemporary German identities.

2. Reflect on cultural events and experiences using descriptive detail, connected

sentences and complex structures.

3. Formulate, compare and debate diverse cultural products, practices and perspectives with clarity and cohesion.

4. Create and publish a product demonstrating year-long learning on an aspect of contemporary German culture.

GERM3117 - Stories and Storytelling: Young Voices & Cultural Identity - 3 - Credits

Course Overview

Course Prefix
GERM

Course Number
3117

Department
World Languages and Cultures

Course Title
Stories and Storytelling: Young Voices & Cultural Identity

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students analyze literature, film, and popular media in German-speaking cultures to explore historical and contemporary issues relating to youth. Students talk in detail about events/experiences in various time frames and discuss complex cultural and historical issues.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Fulfilled by exam
AP German Language exam score of 3 or higher

Course Learning Objectives

Course Learning Outcomes
1. Identify, describe, and explain the historical, political, social, and artistic significance of German cultural products, practices, and perspectives.

2. Compare and contrast cultural similarities and differences between German-speaking cultures, and the learner's own cultures.

3. Describe and analyze a variety of culturally authentic products—literature, film, audio, paintings, music, and cultural texts—representing youth cultures and experiences in German-speaking contexts.

4. Argue and defend one's position on different cultural products from multiple perspectives, in order to develop critical thinking skills.

GERM3118 - Berlin: Monuments, Multiculturalism, and Memory - 3 - Credits

Course Overview

Course Prefix
GERM

Course Number
3118

Department
World Languages and Cultures

Course Title
Berlin: Monuments, Multiculturalism, and Memory

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
In this course, students analyze aspects of Berlin's history and culture as they have unfolded over the past three centuries. Students interpret works of literature, film, architecture, visual arts, and popular media that depict the changing role of Berlin.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Fulfilled by exam
High school students enrolled in this course need to have passed AP German with a score of 3 or higher (out of 5).

Course Learning Objectives

Course Learning Outcomes
1. Define and describe the German capital and its status as a hub of multiculturalism in the context of its historical, political, social, and cultural significance.

2. Compare similarities and differences between the multiple cultures found in Berlin and the learners' own culture(s).

3. Analyze a variety of monuments and authentic cultural products, including art, architecture, literature, film, music, and other cultural texts, representing Berlin's history and contemporary urban experiences.

4. Reflect on, describe and discuss multiple perspectives on how Berlin's past defines and informs the present.

GERM3300 - Contemporary German Speaking Cultures (DHA) - 3 - Credits

Course Overview

Course Prefix
GERM

Course Number
3300

Department
World Languages and Cultures

Course Title
Contemporary German Speaking Cultures (DHA)

General Education Attribute
DHA

Grade Mode
Standard Letter

Repeat Status
NR

Course Description

Multidisciplinary examination of current trends in contemporary cultures. Written, oral, visual, and electronic texts from the post-World War II period will be analyzed and placed in sociopolitical, economic, historical, and literary contexts. Emphasis on Germany as a multicultural society, and on related popular and minority cultural discourse. Interactive format. Taught in German.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Fulfill ANY of the following requirements:

Coursework

Complete ALL of the following Courses:

- GERM2020 - German Second Year II

OR

Exam

Language Proficiency Exam

- USU World Languages & Cultures language proficiency testing score of 500+

GERM3510 - Business German (CI) - 3 - Credits

Course Overview

Course Prefix
GERM

Course Number
3510

Department
World Languages and Cultures

Course Title
Business German (CI)

General Education Attribute
CI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description

Study of current German business and commercial practices, terminology, and business-related communications skills in a multi-disciplinary and global world context. Advances the four language skills. Taught in German.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Fulfill ANY of the following requirements:

Coursework

Complete ALL of the following Courses:

- GERM2020 - German Second Year II

OR

Exam

GERM3540 - Techniques in Translating German Texts (CI) - 3 - Credits

Course Overview

Course Prefix
GERM

Course Number
3540

Department
World Languages and Cultures

Course Title
Techniques in Translating German Texts (CI)

General Education Attribute
CI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description

Approaches to translation. Specialized vocabulary, reference materials, and aids. Translation theory. Practical exercises. Taught in German.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Fulfill ANY of the following requirements:

Coursework

Complete ALL of the following Courses:

- GERM2020 - German Second Year II

OR

Exam

Language Proficiency Exam

- USU World Languages & Cultures language proficiency testing score of 500+

GERM3550 - Cultural History of German Speaking Peoples (DHA) - 3 - Credits

Course Overview

Course Prefix
GERM

Course Number
3550

Department
World Languages and Cultures

Course Title
Cultural History of German Speaking Peoples (DHA)

General Education Attribute
DHA

Grade Mode
Standard Letter

Repeat Status
NR

Course Description

Overview and critical analysis of cultural, historical, and intellectual developments that have shaped the civilizations of German-speaking peoples from 800 A.D. until the end of World War II. Examination of written, oral, visual, and electronic texts integrated in the context of Western philosophy and humanist thought. Interactive format. Taught in German.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Fulfill ANY of the following requirements:

Coursework

Complete ALL of the following Courses:

- GERM2020 - German Second Year II

OR

Exam

Language Proficiency Exam

- USU World Languages & Cultures language proficiency testing score of 500+

GERM3600 - Classic German Art and Literature (DHA) - 3 - Credits

Course Overview

Course Prefix
GERM

Course Number
3600

Department
World Languages and Cultures

Course Title
Classic German Art and Literature (DHA)

General Education Attribute
DHA

Grade Mode
Standard Letter

Repeat Status
NR

Course Description

This course offers a learning journey that leads to selected cultural and literary landmarks in German-speaking cultures from the medieval period to the nineteenth century. Selected readings complement discussions of art, architecture, and music. Taught in German.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Fulfill ANY of the following requirements:

Coursework

Complete ALL of the following Courses:

- GERM2020 - German Second Year II

OR

Exam

Language Proficiency Exam

- USU World Languages & Cultures language proficiency testing score of 500+

GERM3610 - Contemporary German Art and Literature (DHA)9 - 3 - Credits

Course Overview

Course Prefix
GERM

Course Number
3610

Department
World Languages and Cultures

Course Title
Contemporary German Art and Literature (DHA)9

General Education Attribute
DHA

Grade Mode
Standard Letter

Repeat Status
NR

Course Description

Students learn about German culture from the last two-hundred years through the lens of literary and cultural texts. Examining landmarks of art, architecture, music, and literature, this course traces significant shifts in German-speaking societies and culture. Taught in German.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Fulfill ANY of the following requirements:

Coursework

Complete ALL of the following Courses:

- GERM2020 - German Second Year II

OR

Exam

Language Proficiency Exam

- USU World Languages & Cultures language proficiency testing score of 500+

GERM3750 - German Legends and Fairy Tales - 3 - Credits

Course Overview

Course Prefix
GERM

Course Number
3750

Department
World Languages and Cultures

Course Title
German Legends and Fairy Tales

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students analyze German fairy tales and legends through literature, film, and popular media. Exploring mythological, historical, political, and cultural contexts related to these narratives, students compare and contrast similarities and differences between the German-speaking context and their own.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Fulfill ANY of the following requirements:

Coursework

Complete ALL of the following Courses:

- GERM2020 - German Second Year II

OR

Exam

Language Proficiency Exam

- USU World Languages & Cultures language proficiency testing score of 500+

Course Learning Objectives

Course Learning Outcomes

1. Students compare and contrast cultural similarities and differences between German-speaking cultures, and their own cultures.

2. Students describe and critically analyze historical, political, social factors related to German fairy tales and Germanic mythology.

3. Students develop insights into concepts and contexts related to culturally specific narratives, products, and practices.

4. Students demonstrate advanced understanding of the cultural texts' origin, developments, and variants.

GERM3800 - German III Study Abroad - 1 - 8 Credits

Course Overview

Course Prefix
GERM

Course Number
3800

Department
World Languages and Cultures

Course Title
German III Study Abroad

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Intensive study in a German-speaking country, advancing proficiency in the four language skills and multicultural knowledge at the third-year level. Taught in German.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
8

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
8

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
8

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
8

Lecture Hours Operator:
TO

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Fulfill ANY of the following requirements:

Coursework

Complete ALL of the following Courses:

- GERM2020 - German Second Year II

OR

Exam

Language Proficiency Exam
Demonstration of equivalent proficiency through testing

GERM3880 - Individual Readings - 1 - 4 Credits

Course Overview

Course Prefix
GERM

Course Number
3880

Department
World Languages and Cultures

Course Title
Individual Readings

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Individual study of selected readings in German. Taught in German.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
4

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
4

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
4

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
4

Lecture Hours Operator:
TO

Special Approval
Instructor permission

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Fulfill ANY of the following requirements:

Coursework

Complete ALL of the following Courses:

- GERM2020 - German Second Year II

OR

Exam

Language Proficiency Exam

- USU World Languages & Cultures language proficiency testing score of 500+

GERM4200 - Applied German Linguistics and Phonetics - 3 - Credits

Course Overview

Course Prefix
GERM

Course Number
4200

Department
World Languages and Cultures

Course Title
Applied German Linguistics and Phonetics

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Discussion of syntactical and morphological problems of German, principles of language learning, and analysis of phonological and phonetic patterns. Taught in German.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Fulfill ANY of the following requirements:

Coursework

Complete ALL of the following Courses:

- GERM2020 - German Second Year II

OR

Exam

Language Proficiency Exam

- USU World Languages & Cultures language proficiency testing score of 500+

GERM4600 - Faust's Legacy - 3 - Credits

Course Overview

Course Prefix
GERM

Course Number
4600

Department
World Languages and Cultures

Course Title
Faust's Legacy

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Examination of the legendary figure of Faust through historical and contemporary perspectives. Analysis of the Faust theme and character as presented in literature, films, stage productions, and musicals. Taught in English.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- GERM2020 - German Second Year II

OR demonstration of equivalent proficiency through testing

GERM4610 - German Narratives - 3 - Credits

Course Overview

Course Prefix
GERM

Course Number
4610

Department
World Languages and Cultures

Course Title
German Narratives

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Readings from a wide range of narrative texts representing various historical periods. Focus on literary traditions within historical contexts. Examination of styles, motifs, and the theory of the novel. Taught in German.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Fulfill ANY of the following requirements:

Coursework

Complete ALL of the following Courses:

- GERM2020 - German Second Year II

OR

Exam

GERM4650 - Trends in Modern Germany (DHA) - 3 - Credits

Course Overview

Course Prefix
GERM

Course Number
4650

Department
World Languages and Cultures

Course Title
Trends in Modern Germany (DHA)

General Education Attribute
DHA

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students explore contemporary issues and current events in Germany. Analyzing political, social, artistic, and environmental perspectives through different media (news, popular media), students talk with nuance about complex cultural topics and share their viewpoints in discussions and writing. This course is taught in German.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Fulfill ANY of the following requirements:

Coursework

Complete ALL of the following Courses:

- GERM2020 - German Second Year II

OR

Exam

Language Proficiency Exam

- USU World Languages & Cultures language proficiency testing score of 500+

GERM4800 - German IV Study Abroad - 1 - 8 Credits

Course Overview

Course Prefix
GERM

Course Number
4800

Department
World Languages and Cultures

Course Title
German IV Study Abroad

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Intensive study in a German-speaking country, advancing proficiency in the four language skills and multicultural knowledge at the fourth-year level.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
8

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
8

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
8

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
8

Lecture Hours Operator:
TO

Simple Requisites

Prerequsite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- GERM2020 - German Second Year II

OR demonstration of equivalent proficiency through testing

GERM4880 - Individual Readings - 1 - 4 Credits

Course Overview

Course Prefix
GERM

Course Number
4880

Department
World Languages and Cultures

Course Title
Individual Readings

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Readings in technical, scientific, and literary German. Taught in German.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
4

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
4

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
4

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
4

Lecture Hours Operator:
TO

Special Approval

Instructor permission

GERM4900 - Special Topics - 3 - Credits

Course Overview

Course Prefix
GERM

Course Number
4900

Department
World Languages and Cultures

Course Title
Special Topics

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Selected critical topics and themes relating to German literature, culture, film, pedagogy, linguistics, and associated theories. Includes readings in English and German. Content determined by student need and interest. Taught in German.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Fulfill ANY of the following requirements:

Coursework

Complete ALL of the following Courses:

- GERM2020 - German Second Year II

OR

Exam

GERM4910 - German for Special Purposes - 3 - Credits

Course Overview

Course Prefix
GERM

Course Number
4910

Department
World Languages and Cultures

Course Title
German for Special Purposes

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Advances German communicative proficiency in the fields of business, science, and pedagogy. Promotes professional applications of German terminologies and procedures for science and commerce, as well as teaching methodology. Discipline-interactive projects advance the four language skills. Taught in German.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Fulfill ANY of the following requirements:

Coursework

Complete ALL of the following Courses:

- GERM2020 - German Second Year II

OR

Exam

Language Proficiency Exam

- USU World Languages & Cultures language proficiency testing score of 500+

GERM4920 - German Language Tutoring - 1 - Credits

Course Overview

Course Prefix
GERM

Course Number
4920

Department
World Languages and Cultures

Course Title
German Language Tutoring

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Allows students to develop tutoring skills by assisting professors in lower-division courses or fulfilling instructional duties for a comparable amount of time in the language laboratory, public schools, or similar activities with departmental approval. Taught in German.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Special Approval

Instructor permission

GERM6200 - German Linguistics and Phonetics - 3 - Credits

Course Overview

Course Prefix
GERM

Course Number
6200

Department
World Languages and Cultures

Course Title
German Linguistics and Phonetics

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Discussion of syntactical and morphological problems of German and principles of language learning. Phonological and phonetic patterns of the German language also discussed. Taught in German.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Fulfill ALL of the following requirements:

Required

Complete ALL of the following Courses:

- GERM2020 - German Second Year II

OR demonstrated proficiency through testing

AND

Required

Another 3000-level or higher GERM course

GRK1010 - Beginning Ancient Greek I - 5 - Credits

Course Overview

Course Prefix
GRK

Course Number
1010

Department
History, Cultures & Ideas

Course Title
Beginning Ancient Greek I

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Basics of Greek grammar and vocabulary. Beginning readings.

Credit Hours

Credit Hours
Min:
5

Contact Hours

Contact Hours
Min:
5

Billing Hours

Billing Hours
Min:
5

Lecture Hours

Lecture Hours
Min:
5

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- LATN1010 - Beginning Latin I
- LATN1020 - Beginning Latin II

GRK1020 - Beginning Ancient Greek II - 5 - Credits

Course Overview

Course Prefix
GRK

Course Number
1020

Department
History, Cultures & Ideas

Course Title
Beginning Ancient Greek II

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Intermediate concepts of Greek grammar and vocabulary. Intermediate readings.

Credit Hours

Credit Hours
Min:
5

Contact Hours

Contact Hours
Min:
5

Billing Hours

Billing Hours
Min:
5

Lecture Hours

Lecture Hours
Min:
5

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Earn a minimum grade of B in the following:

- GRK1010 - Beginning Ancient Greek I

GRK3300 - Intermediate Greek Prose - 3 - Credits

Course Overview

Course Prefix
GRK

Course Number
3300

Department
History, Cultures & Ideas

Course Title
Intermediate Greek Prose

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Readings in ancient Greek prose.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Earn a minimum grade of B in the following:

- GRK1020 - Beginning Ancient Greek II

GRK3330 - Intermediate Greek Poetry - 3 - Credits

Course Overview

Course Prefix
GRK

Course Number
3330

Department
History, Cultures & Ideas

Course Title
Intermediate Greek Poetry

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Readings in Greek poetry.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Earn a minimum grade of B in the following:

- GRK3300 - Intermediate Greek Prose

GRK4300 - Advanced Greek Readings - 3 - Credits

Course Overview

Course Prefix
GRK

Course Number
4300

Department
History, Cultures & Ideas

Course Title
Advanced Greek Readings

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Readings in Ancient Greek poetry and/or prose.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Earn a minimum grade of B in the following:

- GRK3300 - Intermediate Greek Prose
- GRK3330 - Intermediate Greek Poetry

GRK4930 - Directed Readings in Greek Poetry and Prose Authors - 1 - 3 Credits

Course Overview

Course Prefix
GRK

Course Number
4930

Department
History, Cultures & Ideas

Course Title
Directed Readings in Greek Poetry and Prose Authors

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Directed readings in advanced Greek poetry and prose authors.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Successful completion of at least three semesters of Greek

HDFS1010 - Balancing Work and Family (BSS) - 3 - Credits

Course Overview

Course Prefix
HDFS

Course Number
1010

Department
Human Development and Family Studies

Course Title
Balancing Work and Family (BSS)

General Education Attribute
BSS

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Introduces students to issues facing families trying to balance work with family responsibilities. Examines integration of work and family across areas of marriage and family relationships, financial management, and child development and parenting.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

HDFS1500 - Human Development Across the Lifespan (BSS) - 3 - Credits

Course Overview

Course Prefix
HDFS

Course Number
1500

Department
Human Development and Family Studies

Course Title
Human Development Across the Lifespan (BSS)

General Education Attribute
BSS

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Overview of human development across the lifespan, from conception to death.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

HDFS2000 - Careers in Human Development and Family Studies (HDFS) - 1 - Credits

Course Overview

Course Prefix
HDFS

Course Number
2000

Department
Human Development and Family Studies

Course Title
Careers in Human Development and Family Studies (HDFS)

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Career planning specific to Human Development and Family Studies (HDFS) including Human Development, Family Relations, and Family Finance. Students learn how their HDFS background can prepare them for many rewarding careers in a variety of fields, and how to make the most of their college experience.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

No Requirements

HDFS2100 - Family Resource Management (BSS) - 3 - Credits

Course Overview

Course Prefix
HDFS

Course Number
2100

Department
Human Development and Family Studies

Course Title
Family Resource Management (BSS)

General Education Attribute
BSS

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Explores the significance of values, goals, planning, and decision-making strategies in the development, management, and allocation of human, economic, and environmental resources

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

HDFS2200 - Special Topics in Human Development and Family Studies - 3 - Credits

Course Overview

Course Prefix
HDFS

Course Number
2200

Department
Human Development and Family Studies

Course Title
Special Topics in Human Development and Family Studies

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Introductory level course with varying topics each semester.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

HDFS2400 - Couple and Family Relationships (BSS) - 3 - Credits

Course Overview

Course Prefix
HDFS

Course Number
2400

Department
Human Development and Family Studies

Course Title
Couple and Family Relationships (BSS)

General Education Attribute
BSS

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Overview of couple and family relationships, including marriage, childbearing and rearing, intergenerational relationships, and alternative family forms.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

HDFS2450 - Consumer and Family Economic Issues (BSS) - 3 - Credits

Course Overview

Course Prefix
HDFS

Course Number
2450

Department
Human Development and Family Studies

Course Title
Consumer and Family Economic Issues (BSS)

General Education Attribute
BSS

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Content will cover issues that are related to the economic well-being of individuals, families, and consumers in the market place. Students will gain the knowledge and skills necessary to be an effective consumer in marketplace transactions.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

HDFS2600 - Seminar in Early Childhood Education - 2 - Credits

Course Overview

Course Prefix
HDFS

Course Number
2600

Department
Human Development and Family Studies

Course Title
Seminar in Early Childhood Education

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Orientation to the profession of early childhood education, current philosophies, teaching techniques, and approaches to curricula found in programs for young children.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Special Approval

Advisor permission

HDFS2605 - Early Childhood Education Practicum - 2 - Credits

Course Overview

Course Prefix
HDFS

Course Number
2605

Department
Human Development and Family Studies

Course Title
Early Childhood Education Practicum

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students experience early childhood education in action. In this practicum, students observe, plan, and lead activities with young children, developing teaching skills and professional confidence. Connect theory with practice and prepare to make a positive impact in early learning.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Special Approval

Advisor permission

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- HDFS2600 - Seminar in Early Childhood Education

(may be taken concurrently)

HDFS2660 - Parenting and Child Guidance - 3 - Credits

Course Overview

Course Prefix
HDFS

Course Number
2660

Department
Human Development and Family Studies

Course Title
Parenting and Child Guidance

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Review of parenting styles and child guidance philosophies with emphasis on principles and techniques. Child abuse will also be reviewed.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

HDFS3100 - Abuse and Neglect in Family Context - 3 - Credits

Course Overview

Course Prefix
HDFS

Course Number
3100

Department
Human Development and Family Studies

Course Title
Abuse and Neglect in Family Context

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Causes, treatment, and laws regarding family violence, including child abuse and neglect, partner abuse, and elder abuse.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Sophomore standing

HDFS3110 - Human Sexuality - 3 - Credits

Course Overview

Course Prefix
HDFS

Course Number
3110

Department
Human Development and Family Studies

Course Title
Human Sexuality

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Development and expression of human sexual values, attitudes, and behaviors in family and cultural contexts.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Sophomore standing

HDFS3130 - Research Methods (QI) - 3 - Credits

Course Overview

Course Prefix
HDFS

Course Number
3130

Department
Human Development and Family Studies

Course Title
Research Methods (QI)

General Education Attribute
QI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students learn common methodologies used in current family and human development research. Emphasis is placed on becoming a knowledgeable and informed consumer of research.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Admission to either the Human Development and Family Studies, or the Family Life Studies major

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Fulfill ALL of the following requirements:

Required

Complete at least 1 of the following courses:

- STAT1040 - Introduction to Statistics (QL)
- STAT1045 - Introduction to Statistics with Elements with Algebra (QL)
- STAT1080 - Foundations of Data Science (QL)

- STAT2000 - Statistical Methods (QI)

AND

Required

Complete at least 1 of the following courses:

- PSY3010 - Psychological Statistics (QI)
- SOC3120 - Social Statistics I (QI)

HDFS3210 - Families and Cultural Diversity (CI) - 3 - Credits

Course Overview

Course Prefix
HDFS

Course Number
3210

Department
Human Development and Family Studies

Course Title
Families and Cultural Diversity (CI)

General Education Attribute
CI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description

Students learn the similarities and differences in family patterns and functions in terms of race and ethnicity, gender, social class, and international development.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Admission to either the Human Development and Family Studies, or the Family Life Studies major

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Fulfill ALL of the following requirements:

Required

Complete ALL of the following Courses:

- HDFS1500 - Human Development Across the Lifespan (BSS)
- HDFS2400 - Couple and Family Relationships (BSS)

AND

Required

Complete at least 1 course in the following course sets:

- Communications Literacy (CL2) Course

HDFS3350 - Family Finance (DSS) - 3 - Credits

Course Overview

Course Prefix
HDFS

Course Number
3350

Department
Human Development and Family Studies

Course Title
Family Finance (DSS)

General Education Attribute
DSS

Grade Mode
Standard Letter

Repeat Status
NR

Course Description

Overview of financial topics including financial goals, record keeping, budgeting, saving, insurance, taxes, use of credit, credit reports, mortgages, investments, retirement, fraud, and financial planning.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

HDFS3450 - Consumer Credit Problems - 3 - Credits

Course Overview

Course Prefix
HDFS

Course Number
3450

Department
Human Development and Family Studies

Course Title
Consumer Credit Problems

Grade Mode
Standard Letter

Repeat Status
NR

Course Description

Consumer credit problems, debt reduction strategies, credit collection policies and practices, bankruptcy, and government assistance programs.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- HDFS3350 - Family Finance (DSS)

HDFS3500 - Infancy and Childhood - 3 - Credits

Course Overview

Course Prefix
HDFS

Course Number
3500

Department
Human Development and Family Studies

Course Title
Infancy and Childhood

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course reviews the development and growth of the child from conception to middle childhood. Students learn about physical, cognitive, social, and emotional elements of child development.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ANY of the following Courses:

- HDFS1500 - Human Development Across the Lifespan (BSS) **OR** PSY1100 - Lifespan Development

HDFS3540 - Adult Development and Aging - 3 - Credits

Course Overview

Course Prefix
HDFS

Course Number
3540

Department
Human Development and Family Studies

Course Title
Adult Development and Aging

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course is an interdisciplinary perspective on developmental issues in adulthood and old age. Students learn about biosocial, cognitive, and psychosocial changes in older adults in family, community, cultural, and socio-political contexts.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ANY of the following Courses:

- HDFS1500 - Human Development Across the Lifespan (BSS) **OR** PSY1100 - Lifespan Development

HDFS3550 - Infant Lab - 1 - Credits

Course Overview

Course Prefix
HDFS

Course Number
3550

Department
Human Development and Family Studies

Course Title
Infant Lab

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course consists of practical experience in a laboratory setting with children birth through 2 years.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Other Enrollment Recommendations
Complements the course content of HDFS 3500.

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ANY of the following Courses:

- HDFS1500 - Human Development Across the Lifespan (BSS)
  OR PSY1100 - Lifespan Development

(May be taken concurrently)

HDFS3560 - Human Development Lab - 1 - Credits

Course Overview

Course Prefix
HDFS

Course Number
3560

Department
Human Development and Family Studies

Course Title
Human Development Lab

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides students with practical experience in a working setting with individuals from infancy to aging adults. The lab supplements and complements the course content from the human development (HDFS) courses.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Registration Restrictions
Junior standing

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- HDFS1500 - Human Development Across the Lifespan (BSS)

HDFS3570 - Youth and Adolescence - 3 - Credits

Course Overview

Course Prefix
HDFS

Course Number
3570

Department
Human Development and Family Studies

Course Title
Youth and Adolescence

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Social, psychological, and physical aspects of childhood and adolescence in modern societies. Social and cultural expectations and influences on childhood and adolescents stemming from the family, peers, school, and the community.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Junior standing

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ANY of the following Courses:

- HDFS1500 - Human Development Across the Lifespan (BSS) **OR** PSY1100 - Lifespan Development

HDFS3700 - Mental Health Advocacy and Awareness - 3 - Credits

Course Overview

Course Prefix
HDFS

Course Number
3700

Department
Human Development and Family Studies

Cross-Listed Courses
PSY3700 - Mental Health Advocacy and Awareness

Course Title
Mental Health Advocacy and Awareness

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides introductory knowledge of issues to support individuals with mental health needs. The course includes the sociocultural history of mental health, current epidemiology to increase critical thinking skills, and development of skills to be effective advocates and responders.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

HDFS4220 - Family Crises and Interventions - 3 - Credits

Course Overview

Course Prefix
HDFS

Course Number
4220

Department
Human Development and Family Studies

Course Title
Family Crises and Interventions

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course examines normative and nonnormative stressors provoking individual and family crises with emphasis on domestic violence. It also covers principles and techniques for family interventions.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

HDFS4230 - Family and Social Policy - 3 - Credits

Course Overview

Course Prefix
HDFS

Course Number
4230

Department
Human Development and Family Studies

Course Title
Family and Social Policy

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers local, state, and federal policies with implications for individuals and families across the lifespan.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- HDFS2400 - Couple and Family Relationships (BSS)

HDFS4240 - Social and Family Gerontology - 3 - Credits

Course Overview

Course Prefix
HDFS

Course Number
4240

Department
Human Development and Family Studies

Course Title
Social and Family Gerontology

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
In this course, students learn about social, cultural, and family contexts of aging and intergenerational family relations later in life. Additionally students also learn about social policies and services affecting older adults and their families.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- HDFS1500 - Human Development Across the Lifespan (BSS)

HDFS4250 - Addictions and the Family - 3 - Credits

Course Overview

Course Prefix
HDFS

Course Number
4250

Department
Human Development and Family Studies

Course Title
Addictions and the Family

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course explores the impact that addictions have on the family function, interpersonal relationships, and domestic violence. It covers a number of addictions as well as the specific impact on the marital and parent-child relationship.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

HDFS4260 - Family Life Education Methods - 3 - Credits

Course Overview

Course Prefix
HDFS

Course Number
4260

Department
Human Development and Family Studies

Course Title
Family Life Education Methods

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This is an introductory course focused on theory, principles, and skills necessary to prepare, present, and evaluate family life education programs and workshops.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Fulfill ALL of the following requirements:

Required

Complete ANY of the following Courses:

- HDFS1500 - Human Development Across the Lifespan (BSS) **OR** PSY1100 - Lifespan Development

AND

Required

Complete ALL of the following Courses:

- HDFS2400 - Couple and Family Relationships (BSS)

HDFS4270 - Research in Human Development and Family Studies - 1 - 6 Credits

Course Overview

Course Prefix
HDFS

Course Number
4270

Department
Human Development and Family Studies

Course Title
Research in Human Development and Family Studies

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
The purpose of this course is to gain research experience in Human Development and Family Studies. This experience can include recruiting research participants; collecting, scoring, and entering data; compiling research materials; assisting with literature searches; and attending weekly lab meetings.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
6

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
6

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
6

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
6

Lecture Hours Operator:
TO

Special Approval
Advisor permission

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- HDFS3130 - Research Methods (QI)

HDFS4350 - Advanced Family Finance - 3 - Credits

Course Overview

Course Prefix
HDFS

Course Number
4350

Department
Human Development and Family Studies

Course Title
Advanced Family Finance

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students learn to manage personal and family financial resources to achieve goals relating to investments, retirement, and estate planning.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- HDFS3350 - Family Finance (DSS)

HDFS4420 - Motivation and Medication in Addiction Treatment/Recovery - 3 - Credits

Course Overview

Course Prefix
HDFS

Course Number
4420

Department
Human Development and Family Studies

Course Title
Motivation and Medication in Addiction Treatment/Recovery

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Integrative, developmentally informed overview of evidence-based psychosocial interventions for mental health and addiction treatment, emphasizing MI, CBT, SFBT, and biopsychosocial-spiritual approaches across the lifespan. Explores behavior change, engagement, recovery, and coordination with psychopharmacology and interdisciplinary care within family systems contexts.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Course Learning Objectives

Course Learning Outcomes
By the end of this course, students will be able to:

1. Integrate theory and practice by applying motivational and evidence-based psychosocial interventions to diverse mental health and addiction contexts.
2. Demonstrate competency in core skills of Motivational Interviewing, CBT, and Solution-Focused Brief Therapy through applied exercises and case analysis.
3. Critically evaluate treatment approaches for ethical, cultural, and developmental appropriateness within family and systemic contexts.
4. Explain the role of psychopharmacology in supporting psychosocial interventions and articulate strategies for interdisciplinary collaboration.
5. Develop comprehensive treatment plans that incorporate biopsychosocial-spiritual perspectives and promote recovery across the lifespan.

HDFS4460 - Financial Counseling and Coaching - 3 - Credits

Course Overview

Course Prefix
HDFS

Course Number
4460

Department
Human Development and Family Studies

Course Title

Financial Counseling and Coaching

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course consists of the development and application of financial counseling, financial coaching, and presentation skills. It includes the analysis of various financial problems and development of appropriate solutions and resources.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Admission to HDFS majors with a Family Finance Emphasis only

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- HDFS3350 - Family Finance (DSS)

HDFS4550 - Preschool Methods and Curriculum - 3 - Credits

Course Overview

Course Prefix
HDFS

Course Number
4550

Department
Human Development and Family Studies

Course Title
Preschool Methods and Curriculum

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students learn about use of materials, equipment, and activities in planning and implementing curricula for preschool children.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ANY of the following Courses:

- HDFS1500 - Human Development Across the Lifespan (BSS) **OR** PSY1100 - Lifespan Development

HDFS4830 - Senior Capstone Project - 1 - 6 Credits

Course Overview

Course Prefix
HDFS

Course Number
4830

Department
Human Development and Family Studies

Course Title
Senior Capstone Project

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Capstone course developing professional skills through research, teaching, and outreach relevant to Human Development and Family Studies. Students document development in a portfolio for final evaluation.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
6

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
6

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
6

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
6

Lecture Hours Operator:
TO

Special Approval

Advisor approval

HDFS4900 - Professional Development and Pre-Practicum (CI) - 3 - Credits

Course Overview

Course Prefix
HDFS

Course Number
4900

Department
Human Development and Family Studies

Course Title
Professional Development and Pre-Practicum (CI)

General Education Attribute
CI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course prepares students for the transition from the academic setting into the human services field, beginning with a practicum experience, equipping them with the skills necessary to be a successful professional.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Admission to HDFS majors only

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete at least 1 course in the following course sets:

- Communications Literacy (CL2) Course

HDFS4930 - Practicum in Mental Health - 1 - Credits

Course Overview

Course Prefix
HDFS

Course Number
4930

Department
Human Development and Family Studies

Cross-Listed Courses
PSY4930 - Practicum in Mental Health

Course Title
Practicum in Mental Health

Grade Mode
Temporary Standard Letter

Repeat Status
NR

Course Description
This course provides students a practical experience in a laboratory setting working in the mental health field.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

No Requirements

HDFS4940 - Gerontology Integration - 1 - Credits

Course Overview

Course Prefix
HDFS

Course Number
4940

Department
Human Development and Family Studies

Course Title
Gerontology Integration

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course is an integration of gerontology coursework and practicum. The written paper requires approval by the HDFS Gerontology Coordinator.

Credit Hours

Credit Hours Min:
1

Contact Hours

Contact Hours Min:
1

Billing Hours

Billing Hours Min:
1

Lecture Hours

Lecture Hours Min:
1

No Requirements

HDFS4950 - Research Practicum in Human Development and Family Studies - 1 - 12 Credits

Course Overview

Course Prefix
HDFS

Course Number
4950

Department
Human Development and Family Studies

Course Title
Research Practicum in Human Development and Family Studies

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course offers students a unique opportunity to gain hands-on experience in HDFS research. Students work with a faculty mentor to explore research interests, applying both HDFS content knowledge and appropriate methodologies to contribute to ongoing projects.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
12

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
12

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
12

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
12

Lecture Hours Operator:
TO

Registration Restrictions

- Admission to Human Development and Family Studies - BA, BS program.

Other Enrollment Recommendations

Completion of the practicum application

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- HDFS4900 - Professional Development and Pre-Practicum (CI)
- HDFS3130 - Research Methods (QI)

HDFS4960 - Practice Teaching in Child Development Laboratories - 3 - 6 Credits

Course Overview

Course Prefix
HDFS

Course Number
4960

Department
Human Development and Family Studies

Course Title
Practice Teaching in Child Development Laboratories

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Intensive teaching practicum in the Child Development Lab program. Students must sign up at least three full semesters in advance in FL 205.

Credit Hours

Credit Hours Min:
3

Credit Hours Max:
6

Credit Hours Operator:
OR

Contact Hours

Contact Hours Min:
3

Contact Hours Max:
6

Contact Hours Operator:
OR

Billing Hours

Billing Hours Min:
3

Billing Hours Max:
6

Billing Hours Operator:
OR

Lecture Hours

Lecture Hours Min:
3

Lecture Hours Max:
6

Lecture Hours Operator:
OR

Registration Restrictions
Junior standing

Special Approval
Department permission

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- HDFS4550 - Preschool Methods and Curriculum

HDFS4970 - Gerontology Practicum - 3 - Credits

Course Overview

Course Prefix
HDFS

Course Number
4970

Department
Human Development and Family Studies

Course Title
Gerontology Practicum

Grade Mode
Temporary Standard Letter

Repeat Status
NR

Course Description
This is a placement experience in gerontology settings with practical opportunities to apply theory, knowledge, and skills. Students must apply one semester in advance (by May 1st for Fall, October 1st for Spring, and February 1st for Summer).

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Registration Restrictions

Senior standing (90 earned credits)

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- HDFS3540 - Adult Development and Aging
- HDFS4240 - Social and Family Gerontology

HDFS4980 - Practicum in Human Development and Family Studies - 1 - 12 Credits

Course Overview

Course Prefix
HDFS

Course Number
4980

Department
Human Development and Family Studies

Course Title
Practicum in Human Development and Family Studies

Grade Mode
Temporary Standard Letter

Repeat Status
RP

Course Description
Practicum gives students hands-on experience working within the HDFS field. Students work in a setting of their choice to explore career interests. They use theories and principles learned to develop their professional skills in communication, teamwork, and problem-solving.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
12

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
12

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
12

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
12

Lecture Hours Operator:
TO

Repeatable for Credit:
99

Registration Restrictions

- Junior standing
- Enrollment limited to HDFS majors only

Other Enrollment Recommendations

Practicum Application Required

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- HDFS4900 - Professional Development and Pre-Practicum (CI)

Required credit

Complete the following:
22 HDFS credits.

HDFS4990 - Pre-Clinical Practicum in Human Development and Family Studies - 1 - 12 Credits

Course Overview

Course Prefix
HDFS

Course Number
4990

Department
Human Development and Family Studies

Course Title
Pre-Clinical Practicum in Human Development and Family Studies

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This practicum provides hands-on experience in clinical or addiction-focused settings. Students apply HDFS theories toward Pre-Clinical or Substance Use Disorder certificates, developing professional skills in communication, teamwork, and intervention while exploring career interests in counseling or recovery services.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
12

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
12

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
12

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
12

Lecture Hours Operator:
TO

Special Approval
Advisor permission

No Requirements

HDFS5330 - HUD Certification Lab - 1 - Credits

Course Overview

Course Prefix
HDFS

Course Number
5330

Department
Human Development and Family Studies

Course Title
HUD Certification Lab

Grade Mode
Pass/Fail

Repeat Status
NR

Course Description
This course allows students to learn and prepare to take the HUD Certification Exam through readings and lectures.

Credit Hours

Credit Hours Min:
1

Contact Hours

Contact Hours Min:
1

Billing Hours

Billing Hours Min:
1

Lecture Hours

Lecture Hours Min:
1

HDFS5340 - Housing Finance and Regulations - 3 - Credits

Course Overview

Course Prefix
HDFS

Course Number
5340

Department
Human Development and Family Studies

Course Title
Housing Finance and Regulations

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course is an exploration of the mortgage loan industry, with an in-depth examination of various lending products and procedures. Students study regulations affecting housing including Fair Housing, predatory lending, and mortgage default.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Registration Restrictions

Junior Standing

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- HDFS3350 - Family Finance (DSS)

HDFS5550 - Interdisciplinary Workshop - 1 - 3 Credits

Course Overview

Course Prefix
HDFS

Course Number
5550

Department
Human Development and Family Studies

Course Title
Interdisciplinary Workshop

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Students study a specific area of discipline that is not part of the department's regularly scheduled curriculum.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

HDFS5950 - Financial Counseling Practicum - 3 - Credits

Course Overview

Course Prefix
HDFS

Course Number
5950

Department
Human Development and Family Studies

Course Title
Financial Counseling Practicum

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Students apply knowledge by conducting one-on-one counseling sessions, observing other sessions, and teaching workshops. Students develop management, communication, and counseling skills.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Admission to HDFS majors with a Family Finance Emphasis only

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- HDFS4460 - Financial Counseling and Coaching
- HDFS5340 - Housing Finance and Regulations
- HDFS5330 - HUD Certification Lab

HDFS6010 - Family Research and Application - 3 - Credits

Course Overview

Course Prefix
HDFS

Course Number
6010

Department
Human Development and Family Studies

Dual-Listed Courses
HDFS7010 - Family Research and Application

Course Title
Family Research and Application

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course is an overview and critique of substantive areas of research in marriage and the family. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Admission to a graduate program in the Human Development and Family Studies Department

HDFS6020 - Human Development Research and Application - 3 - Credits

Course Overview

Course Prefix
HDFS

Course Number
6020

Department
Human Development and Family Studies

Dual-Listed Courses
HDFS7020 - Human Development Research and Application

Course Title
Human Development Research and Application

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course examines contemporary research and developmental issues. It highlights social development from both social-historical and social-change frameworks. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Admission to a graduate program in the Human Development and Family Studies Department

HDFS6031 - Research Methodology - 3 - Credits

Course Overview

Course Prefix
HDFS

Course Number
6031

Department
Human Development and Family Studies

Course Title
Research Methodology

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides an overview of methods for studying family relations and human development, including sampling, measurement, research design, and data analyses/interpretations.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- HDFS3130 - Research Methods (QI)

HDFS6040 - Economics and Financial Literacy in the Family - 3 - Credits

Course Overview

Course Prefix
HDFS

Course Number
6040

Department
Human Development and Family Studies

Course Title
Economics and Financial Literacy in the Family

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students examine contemporary research and current issues in economics and financial literacy in the family.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

HDFS6060 - Human Development Theories - 3 - Credits

Course Overview

Course Prefix
HDFS

Course Number
6060

Department
Human Development and Family Studies

Course Title
Human Development Theories

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides an overview of major developmental theories, including contributions from philosophical, personality, and learning theories. Students explore epistemology, ethology, and systems theories relating to human development.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Admission to a graduate program in the Human Development and Family Studies Department

HDFS6070 - Family Theories - 3 - Credits

Course Overview

Course Prefix
HDFS

Course Number
6070

Department
Human Development and Family Studies

Course Title
Family Theories

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This is a critical review and assessment of theories in family research, along with the construction and application of family theory.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Admission to a graduate program in the Human Development and Family Studies Department

HDFS6100 - Meta-Analysis and Literature Review - 3 - Credits

Course Overview

Course Prefix
HDFS

Course Number
6100

Department
Human Development and Family Studies

Dual-Listed Courses
HDFS7100 - Meta-Analysis and Literature Review

Course Title
Meta-Analysis and Literature Review

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students are introduced to the concepts and skills needed to conduct literature reviews and meta-analyses in social science fields. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Other Enrollment Recommendations
A sound understanding of ANOVA and regression

No Requirements

HDFS6210 - Cultural Diversity in Families - 3 - Credits

Course Overview

Course Prefix
HDFS

Course Number
6210

Department
Human Development and Family Studies

Dual-Listed Courses
HDFS7210 - Cultural Diversity in Families

Course Title
Cultural Diversity in Families

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers selected issues related to family patterns and functions associated with ethnicity, gender, and social class, as well as additional topics related to the expertise of the instructor.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

HDFS6220 - Interpersonal Family Relationships - 3 - Credits

Course Overview

Course Prefix
HDFS

Course Number
6220

Department
Human Development and Family Studies

Dual-Listed Courses
HDFS7220 - Interpersonal Family Relationships

Course Title
Interpersonal Family Relationships

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
In accordance with expertise of instructor, covers selected interpersonal issues in intimate and family relations.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

HDFS6230 - Family and Social Policy - 3 - Credits

Course Overview

Course Prefix
HDFS

Course Number
6230

Department
Human Development and Family Studies

Dual-Listed Courses
HDFS7230 - Family and Social Policy

Course Title
Family and Social Policy

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
In accordance with expertise of instructor, covers issues and implications of local, state, and federal policies relating to individuals and families across the lifespan.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

HDFS6240 - Race, Gender, and Social Justice - 3 - Credits

Course Overview

Course Prefix
HDFS

Course Number
6240

Department
Human Development and Family Studies

Dual-Listed Courses
HDFS7240 - Race, Gender, and Social Justice

Course Title
Race, Gender, and Social Justice

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course examines critical social theories and their impact on human development and family processes within contemporary society, promoting fair and equitable resources, opportunities, and rights for all individuals and groups. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

HDFS6300 - Ethical Systemic Practice Seminar - 1 - Credits

Course Overview

Course Prefix
HDFS

Course Number
6300

Department
Human Development and Family Studies

Course Title
Ethical Systemic Practice Seminar

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
In this online seminar, students explore therapy as a moral and ethical endeavor. Participants receive foundational training in models and processes of ethical decision-making to prepare for professional practice.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Course Learning Objectives

Course Learning Outcomes

1. The primary goal is for students to develop a preliminary understanding of ethical systemic practice, focusing on a commitment to high ethical standards in systemic therapy.

HDFS6305 - Systemic Assessment and Diagnosis Seminar - 1 - Credits

Course Overview

Course Prefix
HDFS

Course Number
6305

Department
Human Development and Family Studies

Course Title
Systemic Assessment and Diagnosis Seminar

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This online seminar introduces effective assessment and diagnosis of client concerns. Students will learn to prioritize cultural context when understanding and treating complex individual and relational issues.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Course Learning Objectives

Course Learning Outcomes

1. The primary goal is for students to develop a preliminary understanding of systemic diagnosis and assessment, focusing on competence in assessment, diagnosis, treatment, and client management.

HDFS6310 - Introduction to Systemic Family Theory and Practice - 3 - Credits

Course Overview

Course Prefix
HDFS

Course Number
6310

Department
Human Development and Family Studies

Course Title
Introduction to Systemic Family Theory and Practice

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course is an overview of marriage and family therapy models and essential MFT therapy skills. It includes the historical development of marriage and family therapy as a profession and a practice.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Graduate standing in the Human Development and Family Studies department

No Requirements

HDFS6320 - Theories and Models of Systemic Family Therapy - 3 - Credits

Course Overview

Course Prefix
HDFS

Course Number
6320

Department
Human Development and Family Studies

Course Title
Theories and Models of Systemic Family Therapy

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers epistemological and philosophical directions of marriage and family therapy, beginning with early applications of general systems theories and cybernetics through constructivist and postmodern frameworks.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

HDFS6325 - Gender and Diversity in Systemic Family Therapy - 3 - Credits

Course Overview

Course Prefix
HDFS

Course Number
6325

Department
Human Development and Family Studies

Course Title
Gender and Diversity in Systemic Family Therapy

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course examines issues of gender, ethnicity, culture, sexual orientation, and other contextual factors as they relate to marriage and family therapy. Students learn to respond in a culturally sensitive, non-sexist, and non-prejudicial manner to the families and individuals they serve professionally.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

HDFS6330 - Couple and Sex Therapy - 3 - Credits

Course Overview

Course Prefix
HDFS

Course Number
6330

Department
Human Development and Family Studies

Course Title
Couple and Sex Therapy

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers the investigation and development of skills essential for couple and sex therapy for the practicing therapist.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Admission to the Human Development and Family Studies or Marriage and Family Therapy master's degree program

HDFS6340 - Collaborative Health Care and Psychopharmacology - 3 - Credits

Course Overview

Course Prefix
HDFS

Course Number
6340

Department
Human Development and Family Studies

Course Title
Collaborative Health Care and Psychopharmacology

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides students with an understanding of collaborative health care and psychopharmacology. The overall objective is to help therapists utilize the biopsychosocial-spiritual model to work within the health care system to more effectively advocate for their clients and effectively work with medical personnel.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

HDFS6350 - Treating Addictions, Trauma, and Violence in Couples and Families - 3 - Credits

Course Overview

Course Prefix
HDFS

Course Number
6350

Department
Human Development and Family Studies

Course Title
Treating Addictions, Trauma, and Violence in Couples and Families

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course develops clinical skills to work with families confronted with addictions and/or interpersonal violence. Overall objectives include ensuring the physical and emotional safety of clients as well as the impact of addictions on the family system during treatment.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

HDFS6355 - Child and Family Play Therapy - 3 - Credits

Course Overview

Course Prefix
HDFS

Course Number
6355

Department
Human Development and Family Studies

Course Title
Child and Family Play Therapy

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course is designed to educate students on the theories and concepts behind child and family therapy and provides evidence-based methods for working with children. The overall objective is to help therapists integrate effective therapy methods for children into their existing frameworks of family therapy.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

HDFS6360 - Ethical and Professional Development in Systemic Family Therapy - 3 - Credits

Course Overview

Course Prefix
HDFS

Course Number
6360

Department
Human Development and Family Studies

Course Title
Ethical and Professional Development in Systemic Family Therapy

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students learn about ethical, legal, and professional issues in marriage and family therapy.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

HDFS6370 - Psychopathology and Systemic Assessment - 3 - Credits

Course Overview

Course Prefix
HDFS

Course Number
6370

Department
Human Development and Family Studies

Course Title
Psychopathology and Systemic Assessment

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides students with the ability to assess and accurately diagnose individual psychopathology. Students effectively utilize individual, couple, and family assessments to assist in diagnosis and treatment.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

HDFS6380 - Applying Scholarly Research and Systemic Family Treatment - 3 - Credits

Course Overview

Course Prefix
HDFS

Course Number
6380

Department
Human Development and Family Studies

Course Title
Applying Scholarly Research and Systemic Family Treatment

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Students examine contemporary research issues in marriage and family therapy.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

HDFS6390 - Practicum in Systemic Family Therapy - 1 - 8 Credits

Course Overview

Course Prefix
HDFS

Course Number
6390

Department
Human Development and Family Studies

Dual-Listed Courses
HDFS7390 - Practicum in Systemic Family Therapy

Course Title
Practicum in Systemic Family Therapy

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This is a supervised clinical experience course in marriage and family therapy.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
8

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
8

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
8

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
8

Lecture Hours Operator:
TO

Registration Restrictions
Graduate standing in the Human Development and Family Studies department

No Requirements

HDFS6400 - Readings and Conference - 1 - 6 Credits

Course Overview

Course Prefix
HDFS

Course Number
6400

Department
Human Development and Family Studies

Course Title
Readings and Conference

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course consists of the directed independent study of topics preselected by faculty and students.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
6

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
6

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
6

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
6

Lecture Hours Operator:
TO

Special Approval
Instructor Permission

No Requirements

HDFS6420 - Housing Policy and Issues - 3 - Credits

Course Overview

Course Prefix
HDFS

Course Number
6420

Department
Human Development and Family Studies

Course Title
Housing Policy and Issues

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students learn about housing market forces and housing policies at the local, state, national, and international levels.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

HDFS6500 - Master of Human Development and Family Studies Capstone - 3 - Credits

Course Overview

Course Prefix
HDFS

Course Number
6500

Department
Human Development and Family Studies

Course Title
Master of Human Development and Family Studies Capstone

Grade Mode
Pass/Fail

Repeat Status
NR

Course Description
Students apply human development and family studies knowledge and skills in a supervised setting, as arranged by the program advisor.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Admission to the Master of Human Development and Family Studies - MHDFS program

No Requirements

HDFS6510 - Development in Infancy - 3 - Credits

Course Overview

Course Prefix
HDFS

Course Number
6510

Department
Human Development and Family Studies

Dual-Listed Courses
HDFS7510 - Development in Infancy

Course Title
Development in Infancy

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers the developmental period from birth to age three and the major developmental domains of physical, neurological, perception, cognition, language, emotion, and social development. Additional topics are discussed relating to the expertise of the instructor. Additional coursework is required for those enrolled in the PhD level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

HDFS6520 - Development in Childhood - 3 - Credits

Course Overview

Course Prefix
HDFS

Course Number
6520

Department
Human Development and Family Studies

Dual-Listed Courses
HDFS7520 - Development in Childhood

Course Title
Development in Childhood

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers the developmental period from age 3 to about age 12. It focuses on major developmental domains of physical, cognitive, and emotional/social development across context related to the expertise of the instructor. Additional coursework is required for those enrolled in the PhD level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

HDFS6530 - Development in Adolescence - 3 - Credits

Course Overview

Course Prefix
HDFS

Course Number
6530

Department
Human Development and Family Studies

Dual-Listed Courses
HDFS7530 - Development in Adolescence

Course Title
Development in Adolescence

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers the developmental period from age 12 to about age 20. The focus is on major developmental domains associated with adolescence, including physical, cognitive, and emotional/social development across context related to the expertise of the instructor. Additional coursework is required for those enrolled in the PhD level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

HDFS6540 - Adulthood and Aging - 3 - Credits

Course Overview

Course Prefix
HDFS

Course Number
6540

Department
Human Development and Family Studies

Dual-Listed Courses
HDFS7540 - Adulthood and Aging

Course Title
Adulthood and Aging

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This is a graduate seminar exploring various theories and empirical applications in young adulthood, middle adulthood, and late life. Classic studies, as well as cutting-edge research span topics and developmental methodology central to the study of adulthood.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

HDFS6900 - Topical Seminar in Human Development and Family Studies - 1 - 3 Credits

Course Overview

Course Prefix
HDFS

Course Number
6900

Department
Human Development and Family Studies

Dual-Listed Courses
HDFS7900 -
Topical Seminar in Human Development and Family Studies

Course Title
Topical Seminar in Human Development and Family Studies

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course covers selected issues in human development and family studies.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

No Requirements

HDFS6910 - Parenting - 3 - Credits

Course Overview

Course Prefix
HDFS

Course Number
6910

Department
Human Development and Family Studies

Dual-Listed Courses
HDFS7910 - Parenting

Course Title
Parenting

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers the topic of parenting from perspectives of human development, family relations, and consumer science. Specific topics are selected within each of these perspectives. Additional coursework is required for those enrolled in the PhD level course.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

HDFS6920 - Aging - 3 - Credits

Course Overview

Course Prefix
HDFS

Course Number
6920

Department
Human Development and Family Studies

Dual-Listed Courses
HDFS7920 - Aging

Course Title
Aging

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course explores research on aging from three perspectives: individual, marital/family relations, and family financial/economic issues. Students apply gerontology research to solve problems from each perspective.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

HDFS6960 - HDFS Graduate Orientation - 1 - Credits

Course Overview

Course Prefix
HDFS

Course Number
6960

Department
Human Development and Family Studies

Course Title
HDFS Graduate Orientation

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides students with an introduction to the Department of Human Development and Family Studies' graduate program. Specifically, it focuses on students developing an understanding of the curricular, research, and teaching expectations associated with effective matriculation in the graduate program.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

No Requirements

HDFS6961 - HDFS Teaching Assistantship Orientation - 1 - Credits

Course Overview

Course Prefix
HDFS

Course Number
6961

Department
Human Development and Family Studies

Course Title
HDFS Teaching Assistantship Orientation

Grade Mode
Pass/Fail

Repeat Status
NR

Course Description
This course provides students with an introduction to becoming a teaching assistant in a university classroom. Specifically, it focuses on students developing an understanding of the roles, expectations, responsibilities, strategies, and ethics associated with effective instruction in the university setting.

Credit Hours

Credit Hours Min:
1

Contact Hours

Contact Hours Min:
1

Billing Hours

Billing Hours Min:
1

Lecture Hours

Lecture Hours Min:
1

No Requirements

HDFS6970 - Thesis Research - 1 - 6 Credits

Course Overview

Course Prefix
HDFS

Course Number
6970

Department
Human Development and Family Studies

Course Title
Thesis Research

Grade Mode
Temporary Pass/Fail

Repeat Status
RP

Course Description
This course consists of research for a master's thesis, arranged with the advisor.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
6

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
6

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
6

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
6

Lecture Hours Operator:
TO

No Requirements

HDFS6980 - Master of Human Development and Family Studies Practicum - 1 - 9 Credits

Course Overview

Course Prefix
HDFS

Course Number
6980

Department
Human Development and Family Studies

Course Title
Master of Human Development and Family Studies Practicum

Grade Mode
Temporary Pass/Fail

Repeat Status
RP

Course Description
This course consists of the application of family and human development skills and knowledge in a supervised setting as arranged by the advisor.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
9

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
9

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
9

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
9

Lecture Hours Operator:
TO

Special Approval
Advisor permission

No Requirements

HDFS6990 - Continuing Graduate Advisement - 1 - 9 Credits

Course Overview

Course Prefix
HDFS

Course Number
6990

Department
Human Development and Family Studies

Course Title
Continuing Graduate Advisement

Grade Mode
Temporary Pass/Fail

Repeat Status
RP

Course Description
This course consists of continuing registration to complete thesis requirements.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
9

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
9

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
9

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
9

Lecture Hours Operator:
TO

HDFS7010 - Family Research and Application - 3 - Credits

Course Overview

Course Prefix
HDFS

Course Number
7010

Department
Human Development and Family Studies

Dual-Listed Courses
HDFS6010 - Family Research and Application

Course Title
Family Research and Application

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course is an overview and critique of substantive areas of research in marriage and the family. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Admission to a graduate program in the Human Development and Family Studies Department

No Requirements

HDFS7020 - Human Development Research and Application - 3 - Credits

Course Overview

Course Prefix
HDFS

Course Number
7020

Department
Human Development and Family Studies

Dual-Listed Courses
HDFS6020 - Human Development Research and Application

Course Title
Human Development Research and Application

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course examines contemporary research and developmental issues. It highlights social development from both social-historical and social-change frameworks. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Admission to a graduate program in the Human Development and Family Studies Department

No Requirements

HDFS7032 - Multivariate and Dyadic Data Analysis in Human Development and Family Studies - 3 - Credits

Course Overview

Course Prefix
HDFS

Course Number
7032

Department
Human Development and Family Studies

Course Title
Multivariate and Dyadic Data Analysis in Human Development and Family Studies

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides an introduction to common multivariate statistical analyses, including dyadic methods and approaches, and the statistical software used to conduct them, with an emphasis on applications of these approaches in family and developmental sciences.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete at least 1 of the following courses:

- EDUC7610 - Regression Analysis
  OR PSY7610 - Regression Analysis

HDFS7033 - Dyadic and Longitudinal Data - 3 - Credits

Course Overview

Course Prefix
HDFS

Course Number
7033

Department
Human Development and Family Studies

Course Title
Dyadic and Longitudinal Data

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Understand the concepts related to Structural Equation Modeling (SEM), and Hierarchical Linear Modeling (HLM). There will be a specific emphasis on understanding and applying methods of working with dyadic and longitudinal data. Students will specify their own models and analyze the data using related software.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Fulfill ALL of the following requirements:

Required

Complete at least 1 of the following courses:

- EDUC6600 - Statistical Foundations
  OR PSY6600 - Statistical Foundations

AND

Required

Complete at least 1 of the following courses:

- EDUC7610 - Regression Analysis
  OR PSY7610 - Regression Analysis

HDFS7034 - Extant/Secondary Data Analysis - 3 - Credits

Course Overview

Course Prefix
HDFS

Course Number
7034

Department
Human Development and Family Studies

Course Title
Extant/Secondary Data Analysis

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
In this course, students learn to locate and download secondary data sets, use codebooks to identify variables, select subpopulations of participants from extant data sets, and select variables from extant data.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ANY of the following Courses:

- EDUC6600 - Statistical Foundations
  OR PSY6600 - Statistical Foundations

HDFS7060 - Research/Theory Human Development - 3 - Credits

Course Overview

Course Prefix
HDFS

Course Number
7060

Department
Human Development and Family Studies

Course Title
Research/Theory Human Development

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course consists of the critical review of research and theories in human development.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- HDFS6060 - Human Development Theories

HDFS7070 - Advanced Research/Theory in Family Relations - 3 - Credits

Course Overview

Course Prefix
HDFS

Course Number
7070

Department
Human Development and Family Studies

Course Title
Advanced Research/Theory in Family Relations

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course consists of a critical review of research and theories in marriage and family relationships.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- HDFS6070 - Family Theories

HDFS7080 - Professional Development - 3 - Credits

Course Overview

Course Prefix
HDFS

Course Number
7080

Department
Human Development and Family Studies

Course Title
Professional Development

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This is a capstone course for graduate students, emphasizing issues related to professional development (e.g., grant writing, publishing, vitae development, interview skills, developing a research agenda, networking, ethics, professional conduct, teaching, etc.).

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

HDFS7100 - Meta-Analysis and Literature Review - 3 - Credits

Course Overview

Course Prefix
HDFS

Course Number
7100

Department
Human Development and Family Studies

Dual-Listed Courses
HDFS6100 - Meta-Analysis and Literature Review

Course Title
Meta-Analysis and Literature Review

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students are introduced to the concepts and skills needed to conduct literature reviews and meta-analyses in social science fields. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Other Enrollment Recommendations
A sound understanding of ANOVA and regression

No Requirements

HDFS7210 - Cultural Diversity in Families - 3 - Credits

Course Overview

Course Prefix
HDFS

Course Number
7210

Department
Human Development and Family Studies

Dual-Listed Courses
HDFS6210 - Cultural Diversity in Families

Course Title
Cultural Diversity in Families

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers selected issues related to family patterns and functions associated with ethnicity, gender, and social class, as well as additional topics related to the expertise of the instructor.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

HDFS7220 - Interpersonal Family Relationships - 3 - Credits

Course Overview

Course Prefix
HDFS

Course Number
7220

Department
Human Development and Family Studies

Dual-Listed Courses
HDFS6220 - Interpersonal Family Relationships

Course Title
Interpersonal Family Relationships

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
In accordance with the expertise of the instructor, this course covers selected interpersonal issues in intimate and family relations.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

HDFS7230 - Family and Social Policy - 3 - Credits

Course Overview

Course Prefix
HDFS

Course Number
7230

Department
Human Development and Family Studies

Dual-Listed Courses
HDFS6230 - Family and Social Policy

Course Title
Family and Social Policy

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
In accordance with the expertise of the instructor, this course covers issues and implications of local, state, and federal policies relating to individuals and families across the lifespan.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

HDFS7240 - Race, Gender, and Social Justice - 3 - Credits

Course Overview

Course Prefix
HDFS

Course Number
7240

Department
Human Development and Family Studies

Dual-Listed Courses
HDFS6240 - Race, Gender, and Social Justice

Course Title
Race, Gender, and Social Justice

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course examines critical social theories and their impact on human development and family processes within contemporary society, promoting fair and equitable resources, opportunities, and rights for all individuals and groups. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

HDFS7300 - Advanced Theories in Marriage and Family Therapy - 3 - Credits

Course Overview

Course Prefix
HDFS

Course Number
7300

Department
Human Development and Family Studies

Course Title
Advanced Theories in Marriage and Family Therapy

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course enhances understanding within the following clinical competencies: empirically-supported models and interventions; diverse families, cultural issues, and personal blind spots; and developing clinically relevant and research-anchored specializations.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Special Approval

Instructor permission

HDFS7310 - Contemporary Issues in Marriage and Family Therapy - 3 - Credits

Course Overview

Course Prefix
HDFS

Course Number
7310

Department
Human Development and Family Studies

Course Title
Contemporary Issues in Marriage and Family Therapy

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This doctoral level courses will facilitate professional development for MFTs, including ethical models and their application; professional practices and applications to contemporary problems; and family law and policy for MFTs.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Special Approval

Instructor permission

No Requirements

HDFS7320 - Foundations of Marriage and Family Therapy Education - 3 - Credits

Course Overview

Course Prefix
HDFS

Course Number
7320

Department
Human Development and Family Studies

Course Title
Foundations of Marriage and Family Therapy Education

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course focuses on relational/systemic education, supervision, and MFT consultation. During this course students develop a working philosophy of each of the core aspects of MFT education and create a personal academic portfolio.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Special Approval

Instructor permission

No Requirements

HDFS7330 - Neuropsychology of Interpersonal Relationships - 3 - Credits

Course Overview

Course Prefix
HDFS

Course Number
7330

Department
Human Development and Family Studies

Course Title
Neuropsychology of Interpersonal Relationships

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces brain structures and functions in the context of relationships. The triune brain, attachment, and polyvagal theories are learned and integrated with students' field(s) of study. Advancing theory, clinical practice, and/or social policy is also discussed and practiced.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Special Approval
Instructor permission

No Requirements

Course Learning Objectives

Course Learning Outcomes
1. Understand important theories regarding the brain and relationships including the Triune Brain, Polyvagal, and Attachment theories.

2. Demonstrate how these theories can be integrated with and applied to students' current areas of emphasis/fields of study.

3. Understand more about the Mind-Body connection and its' relevance to relationships.

4. Enhance critical thinking skills regarding research questions, hypotheses, methods and analysis, interpretation of results, and dissemination.

5. Develop and complete a research project based on relevant theory(ies) that advances academic theory, clinical practice, and/or social policy.

HDFS7390 - Practicum in Systemic Family Therapy - 1 - 8 Credits

Course Overview

Course Prefix
HDFS

Course Number
7390

Department
Human Development and Family Studies

Dual-Listed Courses
HDFS6390 - Practicum in Systemic Family Therapy

Course Title
Practicum in Systemic Family Therapy

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This is a supervised clinical experience course in marriage and family therapy. Additionalcoursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
8

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
8

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
8

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
8

Lecture Hours Operator:
TO

Registration Restrictions
Graduate standing in the Human Development and Family Studies department

No Requirements

HDFS7510 - Development in Infancy - 3 - Credits

Course Overview

Course Prefix
HDFS

Course Number
7510

Department
Human Development and Family Studies

Dual-Listed Courses
HDFS6510 - Development in Infancy

Course Title
Development in Infancy

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers the developmental period from birth to age three and the major developmental domains of physical, neurological, perception, cognition, language, emotion, and social development. Additional topics are discussed relating to the expertise of the instructor. Additional coursework is required for those enrolled in the PhD level course.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

HDFS7520 - Development in Childhood - 3 - Credits

Course Overview

Course Prefix
HDFS

Course Number
7520

Department
Human Development and Family Studies

Dual-Listed Courses
HDFS6520 - Development in Childhood

Course Title
Development in Childhood

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers the developmental period from age 3 to about age 12. It focuses on major developmental domains of physical, cognitive, and emotional/social development across context related to the expertise of the instructor. Additional coursework is required for those enrolled in the PhD level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

HDFS7530 - Development in Adolescence - 3 - Credits

Course Overview

Course Prefix
HDFS

Course Number
7530

Department
Human Development and Family Studies

Dual-Listed Courses
HDFS6530 - Development in Adolescence

Course Title
Development in Adolescence

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers the developmental period from age 12 to about age 20. The focus is on major developmental domains associated with adolescence, including physical, cognitive, and emotional/social development across context related to the expertise of the instructor. Additional coursework is required for those enrolled in the PhD level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

HDFS7540 - Adulthood and Aging - 3 - Credits

Course Overview

Course Prefix
HDFS

Course Number
7540

Department
Human Development and Family Studies

Dual-Listed Courses
HDFS6540 - Adulthood and Aging

Course Title
Adulthood and Aging

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This is a graduate seminar exploring various theories and empirical applications in young adulthood, middle adulthood, and late life. Classic studies, as well as cutting-edge research span topics and developmental methodology central to the study of adulthood.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

HDFS7900 - Topical Seminar in Human Development and Family Studies - 1 - 3 Credits

Course Overview

Course Prefix
HDFS

Course Number
7900

Department
Human Development and Family Studies

Dual-Listed Courses
HDFS6900 - Topical Seminar in Human Development and Family Studies

Course Title

Topical Seminar in Human Development and Family Studies

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Students learn about selected issues for advanced professionals in human development and family studies.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

No Requirements

HDFS7910 - Parenting - 3 - Credits

Course Overview

Course Prefix
HDFS

Course Number
7910

Department
Human Development and Family Studies

Dual-Listed Courses
HDFS6910 - Parenting

Course Title
Parenting

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers the topic of parenting from perspectives of human development, family relations, and consumer science. Specific topics are selected within each of these perspectives. Additional coursework is required for those enrolled in the PhD level course.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

HDFS7920 - Aging - 3 - Credits

Course Overview

Course Prefix
HDFS

Course Number
7920

Department
Human Development and Family Studies

Dual-Listed Courses
HDFS6920 - Aging

Course Title
Aging

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course explores research on aging from three perspectives: individual, marital/family relations, and family financial/economic issues. It applies gerontology research to solve problems from each perspective.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

HDFS7950 - Marriage and Family Therapy Internship - 1 - 6 Credits

Course Overview

Course Prefix
HDFS

Course Number
7950

Department
Human Development and Family Studies

Course Title
Marriage and Family Therapy Internship

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
The MFT Internship enriches curriculum by providing PhD students a 9-month experiential learning opportunity. It allows them to integrate previous learning with practical opportunities in research, teaching, clinical work, and/or any other MFT-related scholarly activities that enhance professional development.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
6

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
6

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
6

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
6

Lecture Hours Operator:
TO

Registration Restrictions

Graduate standing in the Human Development and Family Studies department

No Requirements

Course Learning Objectives

Course Learning Outcomes

Course Learning Outcomes

1. Increasing competence in research, teaching, and/or clinical work.

2. Professional integration of their course content with practical professional experience.

3. Engaging in hands-on experiences that will further enhance their professional development.

HDFS7970 - Dissertation Research - 1 - 9 Credits

Course Overview

Course Prefix
HDFS

Course Number
7970

Department
Human Development and Family Studies

Course Title
Dissertation Research

Grade Mode
Temporary Pass/Fail

Repeat Status
RP

Course Description
This course consists of research for a dissertation, as arranged with an advisor. .

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
9

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
9

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
9

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
9

Lecture Hours Operator:
TO

No Requirements

HDFS7980 - Graduate Research Practicum - 1 - 9 Credits

Course Overview

Course Prefix
HDFS

Course Number
7980

Department
Human Development and Family Studies

Course Title
Graduate Research Practicum

Grade Mode
Temporary Pass/Fail

Repeat Status
RP

Course Description
This course consists of the professional supervision of doctoral students, applying general principles from the study of research in family and human development.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
9

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
9

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
9

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
9

Lecture Hours Operator:
TO

Special Approval
Advisor permission

No Requirements

HDFS7990 - Continuing Graduate Advisement - 1 - 9 Credits

Course Overview

Course Prefix
HDFS

Course Number
7990

Department
Human Development and Family Studies

Course Title
Continuing Graduate Advisement

Grade Mode
Temporary Pass/Fail

Repeat Status
RP

Course Description
This course consists of continuing registration to complete dissertation requirements.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
9

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
9

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
9

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
9

Lecture Hours Operator:
TO

HEAL1006 - Health Careers Exploration - 2 - Credits

Course Overview

Course Prefix
HEAL

Course Number
1006

Department
Technology, Design & Technical Ed

Course Title
Health Careers Exploration

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course introduces students to various health-related careers and includes weekly presentations by health professionals. Students gain information on current program requirements and develop communication skills, interview techniques, and knowledge of present-day health care systems and delivery-of-care obstacles.

Credit Hours

Credit Hours Min:
2

Contact Hours

Contact Hours Min:
2

Billing Hours

Billing Hours Min:
2

Lecture Hours

Lecture Hours Min:
2

No Requirements

HEAL1008 - Medical Terminology - 2 - Credits

Course Overview

Course Prefix
HEAL

Course Number
1008

Department
Technology, Design & Technical Ed

Course Title
Medical Terminology

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides students with the building blocks of basic medical language. Such understanding will facilitate learning of scientific and medical principles encountered during more advanced career preparation. Relationship of word parts to their anatomical counterparts are studied. Rules for combining word parts into complete medical terms are stressed. Accurate pronunciation and spelling of word parts and complete terms are emphasized throughout the course.

Credit Hours

Credit Hours Min:
2

Contact Hours

Contact Hours Min:
2

Billing Hours

Billing Hours Min:
2

Lecture Hours

Lecture Hours Min:
2

No Requirements

HEAL1030 - Medical Assistant: Administrative Competencies - 4 - Credits

Course Overview

Course Prefix
HEAL

Course Number
1030

Department
Technology, Design & Technical Ed

Course Title
Medical Assistant: Administrative Competencies

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course prepares students for medical assistant administrative duties, introducing healthcare professions, ethics, safety, and office security. Students learn administrative procedures, insurance, coding, & billing, while developing communication, leadership, conflict resolution, and customer service skills essential for effective medical office management.

Credit Hours

Credit Hours Min:
4

Contact Hours

Contact Hours Min:
4

Billing Hours

Billing Hours Min:
4

Lecture Hours

Lecture Hours Min:
4

Registration Restrictions

Admission into the Medical Assistant - Technical Certificate Program

No Requirements

HEAL1035 - Medical Assistant: Administrative Competencies Lab - 3 - Credits

Course Overview

Course Prefix
HEAL

Course Number
1035

Department
Technology, Design & Technical Ed

Course Title
Medical Assistant: Administrative Competencies Lab

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students gain practical, competency-based skills for medical assistant administrative duties, covering medical assisting and health professions, office ethics, safety, and security, administrative procedures, health insurance, coding, and billing, while emphasizing communication, management, leadership, and customer service skills.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Admission to Medical Assistant - Technical Certificate program

No Requirements

HEAL1110 - Pharmacology for Health Professions - 3 - Credits

Course Overview

Course Prefix
HEAL

Course Number
1110

Department
Technology, Design & Technical Ed

Course Title
Pharmacology for Health Professions

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students integrate pharmacology knowledge into clinical practice, manage medication safety issues in patient care, and find needed additional drug information or legal requirements of medication prescribing and use. Information is conveyed through lecture and multimedia presentations.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Admission to Medical Assistant - Technical Certificate program

No Requirements

HEAL1500 - Anatomy and Physiology (BLS) - 4 - Credits

Course Overview

Course Prefix
HEAL

Course Number
1500

Department
Technology, Design & Technical Ed

Course Title
Anatomy and Physiology (BLS)

General Education Attribute
BLS

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students learn the structures and functions of major human organ systems.

Credit Hours

Credit Hours
Min:
4

Contact Hours

Contact Hours
Min:
4

Billing Hours

Billing Hours
Min:
4

Lecture Hours

Lecture Hours
Min:
4

Other Enrollment Recommendations
This course is not intended for Biology majors or for preparation for graduate programs in health professions.

No Requirements

HEAL1600 - Medical Assistant: Clinical Competencies - 6 - Credits

Course Overview

Course Prefix
HEAL

Course Number
1600

Department
Technology, Design & Technical Ed

Course Title
Medical Assistant: Clinical Competencies

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course focuses on knowledge necessary to perform clinical competencies as a medical assistant. It includes emergency procedures and first aid, therapeutic approach, integrated clinical procedures, diagnostic procedures, and laboratory procedures.

Credit Hours

Credit Hours
Min:
6

Contact Hours

Contact Hours
Min:
6

Billing Hours

Billing Hours
Min:
6

Lecture Hours

Lecture Hours
Min:
6

Registration Restrictions
Admission to the Medical Assistant - Technical Certificate Program

HEAL1700 - Medical Assistant Externship I - 1 - Credits

Course Overview

Course Prefix
HEAL

Course Number
1700

Department
Technology, Design & Technical Ed

Course Title
Medical Assistant Externship I

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course is designed to provide entry-level competencies for medical assistants. Placement in an ambulatory health care setting is required and students perform both administrative and clinical competencies as well as transdisciplinary competencies.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Registration Restrictions

Admission to the Medical Assistant - Technical Certificate program

HEAL1701 - Medical Assistant Externship II - 3 - Credits

Course Overview

Course Prefix
HEAL

Course Number
1701

Department
Technology, Design & Technical Ed

Course Title
Medical Assistant Externship II

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course is designed to provide entry-level competencies for medical assistants. Placement in an ambulatory health care setting is required and students perform both administrative and clinical competencies as well as transdisciplinary competencies.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Admission to the Medical Assistant - Certificate of Completion program

No Requirements

HEAL1900 - Diseases of the Human Body - 3 - Credits

Course Overview

Course Prefix
HEAL

Course Number
1900

Department
Technology, Design & Technical Ed

Course Title
Diseases of the Human Body

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students study common medical conditions, diseases, and the disease process, emphasizing documentation of symptoms and patient case management. Topics include diagnostic tests, treatment plans, client education, and methods to confirm patient understanding of their condition and prescribed care.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Admission to the Medical Assistant - Technical Certificate program

No Requirements

HEAL2000 - Global Health Practitioner Outreach Program - 3 - Credits

Course Overview

Course Prefix
HEAL

Course Number
2000

Department
Technology, Design & Technical Ed

Course Title
Global Health Practitioner Outreach Program

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course, offered to Utah State University Health Professions Program students, provides an alternative pathway to fulfill HP externship hours. Students engage in global health initiatives, delivering medical and dental care, medication, nutrition, clean water, and health education to underserved communities.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Admission to a Health Professions program

Simple Requisites

Prerequisite

Type
Prerequisite

Required

GPA of 2.0 and good standing in Health Professions program

HEAL2020 - Emergency First Response - 3 - Credits

Course Overview

Course Prefix
HEAL

Course Number
2020

Department
Technology, Design & Technical Ed

Course Title
Emergency First Response

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Designed to meet the skill requirements of students majoring in health related fields and for those working in fields requiring the individual to respond with first aid in the line of duty. Meets or exceeds American Red Cross standards for Emergency Response and CPR for the Professional Rescuer and standards for the Utah Emergency Medical Training Council First Responder Course.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

HEAL2977 - Cooperative Education - 1 - 3 Credits

Course Overview

Course Prefix
HEAL

Course Number
2977

Department
Technology, Design & Technical Ed

Course Title
Cooperative Education

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Provides supervised on-the-job training in health. Students meet with the instructor/coordinator periodically during the course to determine and evaluate learning objectives, hours to be worked and credit agreements.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

Special Approval

Instructor permission

No Requirements

HEAL3000 - Global Health Professions and Services - 3 - Credits

Course Overview

Course Prefix
HEAL

Course Number
3000

Department
Technology, Design & Technical Ed

Course Title
Global Health Professions and Services

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course explores global healthcare systems and practices through an immersive study abroad experience. This observational and knowledge-exchange experience fosters an appreciation for healthcare infrastructure, social determinants of health, and the role of healthcare professionals in international settings.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Course Learning Objectives

Course Learning Outcomes

1. Analyze global health professional roles and healthcare systems through observational learning.
2. Evaluate the impact of cultural, social, and economic factors on healthcare delivery in Nepal.
3. Compare international and U.S. health professions education, policies, and public health approaches.
4. Engage in discussions with healthcare professionals to understand global health challenges.
5. Reflect on personal and professional growth through structured debriefing and coursework.

HEP1200 - Community and Public Health Careers - 3 - Credits

Course Overview

Course Prefix
HEP

Course Number
1200

Department
Kinesiology and Health Science

Course Title
Community and Public Health Careers

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces students to community and public health careers while fostering career-ready skills. Students explore health systems, analyze social and environmental influences on health, and apply evidence-based strategies through research, communication, and applied projects to prepare for professional pathways.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Course Learning Objectives

Course Learning Outcomes

1. **Understand and describe** the history, purpose, and core features of community and public health careers, including essential services and their influence on modern health practices. (Strand 1: Standards 1 -4)
2. **Analyze and evaluate** how social, economic, and environmental factors --including Social Determinants of Health --shape health outcomes, access, quality, and equity across communities. (Strand 2: Standards 1 -2)
3. **Apply** public health concepts, research methods, and prevention strategies to interpret data, assess health challenges, and propose evidence-based interventions.
4. **Explore and create** connections between personal goals and career pathways in public health by demonstrating professional competencies such as communication, advocacy, ethics, and

collaboration across diverse health settings (e.g., schools, hospitals, health departments, government, non-profits). (Strand 4: Standards 1 -3)

HEP1500 - Introduction to Global Health (BSS) - 3 - Credits

Course Overview

Course Prefix
HEP

Course Number
1500

Department
Kinesiology and Health Science

Course Title
Introduction to Global Health (BSS)

General Education Attribute
BSS

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course presents global health issues through the examination of major determinants of health and disease that burden societies. Students explore the social, economic, political, cultural, and environmental factors that affect the health of populations globally.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Discuss the burden of disease in various regions of the world and the variations in disease incidence and prevalence both within and across countries and how the disease burden can be addressed in effective ways.
2. Discuss the multi-directional links between health and social and economic factors.
3. Identify and contrast the impact of political, socio-cultural, educational, economic, and environmental systems in both developed and developing nations in relation to health status.

4. Critically discuss the influence of poverty, educational attainment, cultural traditions, and the status of women on the health of diverse populations.
5. Describe how globalization has changed the patterns of the spread of disease and the methods needed to control disease.
6. Identify and critically discuss issues in the organization and delivery of public health and health care services and methods to address global health disparities and issues based on course concepts. Consider cost, efficacy, and sustainability of solutions.
7. Outline the determinants of health and risk factors for conditions of importance to global health.

HEP2000 - First Aid and Emergency Care - 2 - Credits

Course Overview

Course Prefix
HEP

Course Number
2000

Department
Kinesiology and Health Science

Course Title
First Aid and Emergency Care

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Provides instruction and practical experience for the development of first aid knowledge, skills, and personal judgment. Focuses on recognizing emergencies, activating EMS, and providing direct care.

Credit Hours

Credit Hours Min:
2

Contact Hours

Contact Hours Min:
2

Billing Hours

Billing Hours Min:
2

Lecture Hours

Lecture Hours Min:
2

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Respond to requests for information and aid regarding emergency care
2. Identify situations in which EMS should be summoned.
3. Demonstrate CPR & AED use for an adult, child, and infant.
4. Demonstrate how to provide first aid in a variety of scenarios.

HEP2300 - Cardiopulmonary Resuscitation - 1 - Credits

Course Overview

Course Prefix
HEP

Course Number
2300

Department
Kinesiology and Health Science

Course Title
Cardiopulmonary Resuscitation

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Techniques and skills of adult, child, and infant airway management and cardiopulmonary resuscitation for the lay person (one rescuer). Taught according to current standards.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Identify situations in which EMS should be summoned.
2. Demonstrate CPR & AED use for an adult, child, and infant.

HEP2500 - Health and Wellness - 2 - Credits

Course Overview

Course Prefix
HEP

Course Number
2500

Department
Kinesiology and Health Science

Course Title
Health and Wellness

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Designed to enable students to enhance personal wellness by gaining understanding about the social, physical, spiritual, and emotional dimensions of health, and by applying different strategies for improving personal health behaviors.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Identify and explain the key components of physical, emotional, social, intellectual, spiritual, and environmental wellness.
2. Analyze the impact of lifestyle choices (e.g., nutrition, physical activity, sleep, and substance use) on overall health and chronic disease prevention.
3. Evaluate credible sources of health information and apply evidence-based strategies to make informed personal wellness decisions.
4. Demonstrate practical skills in stress management, goal setting, and behavior change techniques to enhance personal well-being.
5. Assess personal health status using wellness assessments and develop a personalized wellness plan with realistic, measurable goals.
6. Discuss the influence of cultural, socioeconomic, and environmental factors on individual and community health outcomes.

HEP3000 - Drugs and Human Behavior - 3 - Credits

Course Overview

Course Prefix
HEP

Course Number
3000

Department
Kinesiology and Health Science

Course Title
Drugs and Human Behavior

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students evaluate the historical and modern use, misuse, and abuse of drugs in relation to current concepts of physical, social, and emotional wellness. Special emphasis on educational and community strategies for prevention of drug-related problems.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Understand factors that inform human involvement in drug use.
2. Understand the mechanism of drug addiction and their effect on health.
3. Explore controversial issues related to drugs.
4. Understand how drugs affect individuals and your community.
5. Explore community health prevention methods for a variety of drug-related issues.

HEP3200 - Consumer Health - 3 - Credits

Course Overview

Course Prefix
HEP

Course Number
3200

Department
Kinesiology and Health Science

Course Title
Consumer Health

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Focuses on helping students become discriminating consumers of health information, health products, and health services.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Evaluate the credibility of health information and media claims.
2. Analyze health products, services, and advertising for accuracy and safety.
3. Make informed decisions when selecting health professionals, facilities, and insurance.
4. Assess the safety and effectiveness of self-care practices and consumer health behaviors.
5. Critically appraise questionable or nonscientific health practices.
6. Make informed choices about nutrition, weight-management, and fitness services.
7. Explain how historical developments shape current consumer health practices.

HEP3400 - Stress Management - 3 - Credits

Course Overview

Course Prefix
HEP

Course Number
3400

Department
Kinesiology and Health Science

Course Title
Stress Management

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Concepts and principles of personal stress management, with special emphasis on effective stress management coping strategies, maximizing positive stress outcomes, and minimizing negative stress effects, to aid in obtaining and maintaining a balanced health homeostatic condition.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes
1. Recognize one's own personal stress level
2. Develop one's own resources to cope with daily stress
3. To learn and develop adaptive appraisals and coping strategies
4. To effectively incorporate these appraisals and coping strategies into everyday functioning and stress management programs

HEP3600 - Functions of Community & Public Health (CI) - 3 - Credits

Course Overview

Course Prefix
HEP

Course Number
3600

Department
Kinesiology and Health Science

Course Title
Functions of Community & Public Health (CI)

General Education Attribute
CI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course is an examination of the history and major functions of community and public health entities. Students also consider prevention strategies as applied to various health issues and populations of concern in the nation and community.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes
1. Understand the history and relevance of community and public health.
2. Identify the structure and function of public and community health-related organizations
3. Identify a philosophy of community and public health.
4. Apply demographic and epidemiological skills in the investigation, prevention and control of communicable and non-communicable diseases.
5. Identify how health is affected by air, water, food and the communities where people live.
6. Describe how community and public health efforts help to manage environmental pollutants, hazards and wastes.
7. Identify how health promotion planning and implementation is applied in communities.
8. Describe what a well-designed school health program looks like and does.

9. Distinguish between the different needs of specific populations and identify different ways of addressing those needs.
10. Identify and describe some of the health disparities that exist between race and ethnic groups and how they can be addressed.
11. Identify issues related to mental health & Alcohol, Tobacco and Other Drugs (ATOD).
12. Describe the organization and characteristics of the U.S. healthcare system(s) and how that differs from that of other countries.

HEP3700 - Introduction to Epidemiology for Health Educators - 3 - Credits

Course Overview

Course Prefix
HEP

Course Number
3700

Department
Kinesiology and Health Science

Course Title
Introduction to Epidemiology for Health Educators

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This class is an introductory epidemiology for students in health education. The primary goal for this class is to discuss fundamental knowledge and understandings of epidemiology as a health educator or health professional in the field.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Requried

One of any statistics classes

Course Learning Objectives

Course Learning Outcomes
1. Describe the core concepts, principles, and uses of epidemiology in public health practice.
2. Analyze population health trends using demographic transition concepts and key U.S. data.
3. Evaluate the validity, reliability, and quality of epidemiologic data, including morbidity and mortality measures.

4. Apply descriptive epidemiology to characterize disease patterns by person, place, and time.
5. Differentiate major epidemiologic study designs and identify when each is appropriately used.
6. Interpret public health data to inform evidence-based decisions in health education and population health.

HEP3800 - Health Care Systems and Administration - 3 - Credits

Course Overview

Course Prefix
HEP

Course Number
3800

Department
Kinesiology and Health Science

Course Title
Health Care Systems and Administration

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course explores the history, structure, and delivery of U.S. health care systems and examines the administrative functions of health services organizations. Topics include health policy, population health, access and quality, financing, workforce, legal and ethical issues, and organizational management.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ENGL2010 - Research and Argument Across Perspectives (CL2) **AND** HEP2500 - Health and Wellness

Course Learning Objectives

Course Learning Outcomes

1. Describe the historical development and organizational structure of the U.S. health care system, including key policies, stakeholders, and financing mechanisms.
2. Explain major models of health-care delivery and how they influence access,

quality, and cost of care.
3. Discuss how social, economic, and policy factors shape health disparities and compare approaches used in other countries to improve health outcomes.
4. Demonstrate an understanding of core concepts in health policy, economics, and population health by connecting them to current issues in U.S. health care.

HEP3900 - Social Marketing in Health Education - 3 - Credits

Course Overview

Course Prefix
HEP

Course Number
3900

Department
Kinesiology and Health Science

Course Title
Social Marketing in Health Education

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Explores social marketing techniques used in health promotion and examines the marketing process, which includes formative research, target audience analysis and segmentation, marketing mix, marketing strategies, pretesting, implementation, and evaluation.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Registration Restrictions

Admission to Public Health: Public Health Education and Promotion (BS), Health Education and Promotion: Community and Public Health (BS), or Health Education and Promotion: Health Science Emphasis majors only.

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- HEP3600 - Functions of Community & Public Health (CI)

Course Learning Objectives

Course Learning Outcomes

1. Use social marketing (SM) principles and employ market research (i.e. needs assessment) in order to design a health-focused SM campaign for a specified target audience.
2. Plan effective implementation and evaluation strategies for a proposed SM campaign.
3. Employ computer technology to develop effective media pieces to be used in a proposed SM campaign.
4. Identify funding and develop budgets to support a proposed SM campaign.
5. Complete a written proposal for a SM campaign.
6. Complete an oral proposal for a SM campaign.

HEP4000 - Health Services Administration - 3 - Credits

Course Overview

Course Prefix
HEP

Course Number
4000

Department
Kinesiology and Health Science

Course Title
Health Services Administration

Grade Mode
Standard Letter

Repeat Status
NR

Course Description

This course explores the management, general environment, types and structures of health services organizations and systems. The course also reviews the manager's role in ethical and legal concerns, problems solving, the "quality" environment, and marketing and allocating resources.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Describe the primary functions and responsibilities of health-services administrators within various health-care settings.
2. Explain the fundamental processes of administrative management, including budgeting, quality improvement, and resource coordination.
3. Identify key legal, ethical, and compliance standards that guide administrative decisions and protect patient rights.
4. Demonstrate effective communication and leadership skills in scenarios involving teamwork, motivation, and staff development within health-care organizations.

HEP4100 - Professional Development in Health Promotion - 3 - Credits

Course Overview

Course Prefix
HEP

Course Number
4100

Department
Kinesiology and Health Science

Course Title
Professional Development in Health Promotion

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Professional preparation course for health education majors. Primary emphasis on ethical issues, behavioral and sociological theories used in the profession, philosophical issues, technology, and health education methodologies.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- HEP2500 - Health and Wellness

Course Learning Objectives

Course Learning Outcomes
1. Describe the roles, responsibilities, and ethical standards of professionals working in community health settings. Identify major career pathways in community and public health, including roles in government, nonprofit, clinical, and advocacy settings.
2. Compare and contrast key theoretical models used in community health (e.g., Social Ecological Model, Health Belief Model, Transtheoretical Model) and explain their relevance to professional practice.
3. Analyze how personal values, interests, and skills align with various career opportunities in the community health field.
4. Evaluate the competencies and qualifications required for entry-level positions in community health and develop a strategy to build relevant experience.
5. Develop a professional portfolio that includes a résumé, cover letter, interview skills, and reflection on career goals in the field of community health and health science.
6. Reflect on personal strengths, values, and areas for growth in preparation for a career in community, public health or health science.

HEP4200 - Community-Based Program Planning, Implementation, and Evaluation - 3 - Credits

Course Overview

Course Prefix
HEP

Course Number
4200

Department
Kinesiology and Health Science

Cross-Listed Courses
RAM4200 - Community-Based Program Planning, Implementation, and Evaluation

Course Title
Community-Based Program Planning, Implementation, and Evaluation

General Education Attribute
QI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course develops knowledge and skills in planning, implementing, evaluating, and sustaining community-based health programs. Students design a program that addresses real community needs while gaining hands-on experience for professional roles in health promotion, program development, and community engagement.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete at least 1 of the following courses:

- MATH1030 - Quantitative Reasoning (QL)
- MATH1050 - College Algebra (QL)
- MATH1051 - Classical Algebra for Teachers (QL)
- STAT1040 - Introduction to Statistics (QL)
- STAT1045 - Introduction to Statistics with Elements with Algebra (QL)
- STAT1080 - Foundations of Data Science (QL)

Course Learning Objectives

Course Learning Outcomes
1. Compare and contrast various planning models and be able to apply them into community-based program planning
2. Recognize and utilize the role of knowledge, attitudes, and behaviors in the effectiveness of health promotion and community-based programming
3. Apply psychological and sociological theories to the development of programs
4. Identify sources of information for a needs assessment for the target population and collect information from these sources as part of a community needs assessment
5. Learn and apply various methods and tools to collect needs assessment data for various settings
6. Apply prominent methodologies to program planning
7. Develop an evidence based and community centered program
8. Create measurable program objectives based on your target population needs

HEP4205 - Program Management and Evaluation for Health Education - 3 - Credits

Course Overview

Course Prefix
HEP

Course Number
4205

Department
Kinesiology and Health Science

Cross-Listed Courses
RAM4205 - Program Management and Evaluation for Health Education

Course Title
Program Management and Evaluation for Health Education

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces students to the concepts and techniques of program implementation, management, evaluation and sustainability for health promotion programs in multiple settings. Students gain experience in these areas through active participation in a program based service learning project.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- HEP4200 - Community-Based Program Planning, Implementation, and Evaluation

Course Learning Objectives

Course Learning Outcomes
1. Implement and manage a well-planned community-based program using established processes, models, and phases
2. Overcome obstacles that may arise in the program implementation process
3. Create a budget for a health promotion program
4. Develop a marketing campaign to promote the success of a program
5. Engage in community organizing and building to facilitate program success
6. Understand the various forms of program evaluation and design
7. Evaluate community-based programs and interventions
8. Collect, analyze, and present original data related to programs and outcomes
9. Use data to justify and garner support and funding for quality community-based programs

HEP4250 - Advanced Cooperative Work Experience - 1 - 15 Credits

Course Overview

Course Prefix
HEP

Course Number
4250

Department
Kinesiology and Health Science

Course Title
Advanced Cooperative Work Experience

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
Professional-level cooperative education work experience as student advances toward completion of the program.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
15

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
15

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
15

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
15

Lecture Hours Operator:
TO

Special Approval
Instructor permission

No Requirements

HEP4400 - Community and Organizational Leadership, Policy, and Advocacy - 3 - Credits

Course Overview

Course Prefix
HEP

Course Number
4400

Department
Kinesiology and Health Science

Course Title
Community and Organizational Leadership, Policy, and Advocacy

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course develops knowledge and skills in leadership, policy, and advocacy for impact in communities and organizations. Students explore leadership models, refine their own style, and apply strategies that support personal growth, career development, and advancing community health and well-being.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- HEP2500 - Health and Wellness
- HEP3600 - Functions of Community & Public Health (CI)

Course Learning Objectives

Course Learning Outcomes

1. Identify and discuss the behavioral practices (patterns of action) of effective leaders
2.Identify and explain your personal leadership values, strengths, and weaknesses

3. Articulate your personal leadership style and a leadership development plan
4. Develop qualities, skills, and competencies to enhance your ability to lead yourself and others
5.Understand the importance of policy and advocacy related to health outcomes and disparities at multiple levels
6. Identify policy-level interventions that are effective in promoting healthy behaviors and social conditions
7. Understand how to advocate for programs, policy, and resources
8. Develop skills around communication, advocacy and leadership needed to be successful professionally.

HEP4600 - Health Science Internship - 1 - 3 Credits

Course Overview

Course Prefix
HEP

Course Number
4600

Department
Kinesiology and Health Science

Course Title
Health Science Internship

Grade Mode
Temporary Standard Letter

Repeat Status
RP

Course Description
This course provides supervised field experience in health science. Students apply classroom knowledge in professional settings, develop career-relevant skills, and engage in projects that advance health, wellness, and community well-being through practical, real-world practice.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

Special Approval
Advisor Permission Required

Other Enrollment Recommendations
Senior class standing recommended

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- HEP3600 - Functions of Community & Public Health (CI)
- HEP4100 - Professional Development in Health Promotion
- HEP4200 - Community-Based Program Planning, Implementation, and Evaluation

Course Learning Objectives

Course Learning Outcomes

1. Apply academic knowledge and skills in a supervised professional setting.
2. Demonstrate effective communication, professionalism, and collaboration in the workplace.
3. Reflect on their performance and experiences to identify strengths and areas for growth.
4. Evaluate the structure, function, and impact of the host organization in its field or community.

HEP4700 - Senior Thesis - 1 - 6 Credits

Course Overview

Course Prefix
HEP

Course Number
4700

Department
Kinesiology and Health Science

Course Title
Senior Thesis

Grade Mode
Standard Letter

Repeat Status
NR

Course Description

Thesis requirements include a literature review, primary data collection (e.g., interviews, surveys), and regular meetings with a faculty mentor for guidance and development.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
6

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
6

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
6

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
6

Lecture Hours Operator:
TO

Course Learning Objectives

Course Learning Outcomes

1. Design and carry out an independent, in-depth project in their area of academic or professional interest.
2. Engage with scholarly or professional literature to inform and support their work.
3. Produce a well-organized, original thesis or project that demonstrates critical

thinking, creativity, and academic rigor.
4. Present their work clearly and effectively to academic or professional audiences, both in writing and orally.

HEP4800 - Human Diseases - 3 - Credits

Course Overview

Course Prefix
HEP

Course Number
4800

Department
Kinesiology and Health Science

Course Title
Human Diseases

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course explores the body systems and common diseases that afflict them. Risk factors are identified with a focus on risk reduction and the implementation of health promotion strategies in order to prevent or intervene in the disease process.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes
1. Understand the mechanisms of disease development and defense and their effect on health.
2. Become familiar with diseases associated with each body system
3. Understand the burden of disease on individuals and communities
4. Gain an applied understanding of the relationship between modifiable risk factors and disease
5. Explore a variety of diseases associated with non-modifiable risk factors and their effect on individual and community health
6. Apply knowledge of human diseases to principles of prevention.

HEP5000 - Health Trends Across Communities (CI) - 3 - Credits

Course Overview

Course Prefix
HEP

Course Number
5000

Department
Kinesiology and Health Science

Course Title
Health Trends Across Communities (CI)

General Education Attribute
CI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course examines public health patterns across communities, exploring how history, location, education, income, and resources affect health outcomes. Students analyze differences in health trends, real-world influences on well-being, and efforts to improve results through education, outreach, and practical solutions.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
- Junior standing
- Admission to: Public Health - Health Promotion: health Science Emphasis - BS or Health Education and Promotion - Community and Public Health Emphasis - BS

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:
- ENGL2010 - Research and Argument Across Perspectives (CL2)
- HEP2500 - Health and Wellness

- HEP4100 - Professional Development in Health Promotion

Course Learning Objectives

Course Learning Outcomes

1. List and describe health equity frameworks and theories.
2. Identify and understand key terms related to health equity, apply these terms to health equity discussions.
3. Explore the magnitude, source, and prevention of health disparities for a variety of demographic groups.
4. Convey the impact of health disparities in the areas of mental/behavioral health, obesity, and chronic disease.
5. Apply evidence based strategies to advocate for political, social, or economic policies that will improve health equity in diverse populations.

HEP5250 - Global Health & Service Learning - 3 - Credits

Course Overview

Course Prefix
HEP

Course Number
5250

Department
Kinesiology and Health Science

Course Title
Global Health & Service Learning

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students engage in experiential learning through immersive study abroad projects, applying and evaluating global health and development concepts to create sustainable, community-driven impact worldwide.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Course Learning Objectives

Course Learning Outcomes

1. Explain foundational concepts in global health and their connection to international development.
2. Analyze global health challenges within the context of community needs and cultural environments.
3. Apply project management, communication, research, or planning skills to real-world global health initiatives.
4. Evaluate models and levels of service learning and their role in addressing societal needs.
5. Critically reflect on experiential learning activities to assess personal, academic, and professional growth.

HEP5400 - Prevention Strategies for Obesity and Disordered Eating - 3 - Credits

Course Overview

Course Prefix
HEP

Course Number
5400

Department
Kinesiology and Health Science

Course Title
Prevention Strategies for Obesity and Disordered Eating

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Promoting healthy behaviors using a "Health at Every Size" approach is the primary goal of the course. Evidence-based programs for obesity and disordered eating prevention is discussed. AdditIonally, students discuss on issues related to obesity and disordered eating (e.g., weight stigma, media literacy, bullying).

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Registration Restrictions
- Junior standing for undergraduate students
- Admission to: Health Education and Promotion - Community and Public health Emphasis - BS, or Public Health - Health Promotion: Health Science Emphasis - BS

Course Learning Objectives

Course Learning Outcomes
1. Describe, apply and compare at least 2 behavior change theories to the prevention of obesity and disordered eating.
2. Evaluate the relationship between weight related disorders and other complex factors that coincide with poor health outcomes.
3. Design a program to prevention obesity and disordered eating using evidence-based strategies discussed throughout the course.

HEP5700 - Special Topics in Health - 1 - 6 Credits

Course Overview

Course Prefix
HEP

Course Number
5700

Department
Kinesiology and Health Science

Course Title
Special Topics in Health

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
In-depth review and discussion of special topics in health. May be graded Pass/Fail, as determined by instructor or section.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
6

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
6

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
6

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
6

Lecture Hours Operator:
TO

Course Learning Objectives

Course Learning Outcomes
1. Analyze key concepts and current issues related to the special topic.
2. Apply relevant theories or methods to explore the topic in depth.
3. Critically evaluate diverse perspectives and evidence related to the subject matter.
4. Communicate insights and findings clearly through written and/or oral formats.

HEP5900 - Independent Study - 1 - 3 Credits

Course Overview

Course Prefix
HEP

Course Number
5900

Department
Kinesiology and Health Science

Course Title
Independent Study

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Independent Study

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

Special Approval
Instructor permission

Other Enrollment Recommendations
Check with major department for limitations on number of credits that can be counted for graduation

Course Learning Objectives

Course Learning Outcomes
1. Collaborate with a faculty mentor to define the scope and objectives of an independent inquiry or project.
2. Pursue self-directed learning or project work using relevant methods and resources.
3. Create a final product demonstrating understanding and application of the chosen topic or skill.
4. Reflect on their learning experience and engage in meaningful discussion with their mentor.

HEP5950 - Independent Research - 1 - 3 Credits

Course Overview

Course Prefix
HEP

Course Number
5950

Department
Kinesiology and Health Science

Course Title
Independent Research

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Independent Research

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

Special Approval
Instructor permission

Course Learning Objectives

Course Learning Outcomes

1. Develop a research question or hypothesis aligned with their academic interests.
2. Design and implement a research plan using appropriate methodologies under faculty supervision.
3. Analyze and interpret research findings using scholarly standards.
4. Produce a well-documented research report or paper communicating their results.

HEP6000 - Advanced Program Planning and Evaluation for Public Health - 3 - Credits

Course Overview

Course Prefix
HEP

Course Number
6000

Department
Kinesiology and Health Science

Course Title
Advanced Program Planning and Evaluation for Public Health

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
The focus of this course is on the application of techniques used to plan and evaluate public health interventions. Students develop skills in needs assessment, program planning, and evaluation by reading and discussing literature and working on assignments.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Registration Restrictions
Admission to the Master's of Public Health program

Special Approval
Instructor permission

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Explain the role of theory and appropriately apply a theoretical perspective to guide program planning and evaluation.
2. Discuss the role of basic elements in public health programming and planning including needs assessment, goals, objectives, activities, budget, timeline, implementation plan, and evaluation plan.
3. Develop a knowledge base to identify and select an appropriate method for program evaluation. Develop an evaluation plan in conjunction with program plan.

HEP6010 - Communication for Public Health - 3 - Credits

Course Overview

Course Prefix
HEP

Course Number
6010

Department
Kinesiology and Health Science

Course Title
Communication for Public Health

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces the fundamentals of public health communication including design, implementation and evaluation. Emphasis is placed on learning how to effectively communicate to public health stakeholders. Culturally competent health communication is discussed throughout.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Registration Restrictions
Admission to the Master's of Public Health program

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Apply foundational theories and models of health communication to analyze factors influencing health behaviors and outcomes.
2. Design culturally competent and audience-centered communication strategies using appropriate channels, media, and message framing techniques.
3. Develop a comprehensive health communication plan that integrates research, message development, implementation, and evaluation components.
4. Evaluate the effectiveness of public health communication campaigns using

HEP6020 - Introduction to Biostatistics and Epidemiology - 3 - Credits

Course Overview

Course Prefix
HEP

Course Number
6020

Department
Kinesiology and Health Science

Course Title
Introduction to Biostatistics and Epidemiology

Grade Mode
Standard Letter

Repeat Status
NR

Course Description

This course introduces students to biostatistical and epidemiological principles and concepts with focused emphasis on public health application. It covers techniques most commonly employed to investigate public health issues. Students work with public health data using the statistical package SPSS.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Registration Restrictions

Admission to Health Education and Promotion Master of Public Health program.

Other Enrollment Recommendations

1. Explain different types of data collection methods and illustrate when to use them in public health data generation.
2. Apply descriptive and inferential statistics to analyze numeric quantitative and non-numeric quanlitative response variables.
3. Review and interpret statistical method(s) presented in public health and related literature.
4. Apply statistical program(s) to analyze public health and epidemiological datasets, interpret computer outputs, and evaluate them for implications to public health contexts.

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Pretest
Students must pass the pretest with at least 70% or higher at least three weeks prior to the course start date. Pretest is good for one year.

HEP6050 - Foundations of Public Health - 3 - Credits

Course Overview

Course Prefix
HEP

Course Number
6050

Department
Kinesiology and Health Science

Course Title
Foundations of Public Health

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
The course provides an introduction to fundamental principles, concepts, theories and tools used in public health in order to promote the health of populations.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Admission to the Health Education and Promotion Master of Public Health program.

Course Learning Objectives

Course Learning Outcomes

1. Explain the history, core functions, and essential services of public health, and how they have evolved to address contemporary health challenges.
2. Analyze the role of social, behavioral, environmental, and biological factors in shaping population health and contributing to health disparities.
3. Apply applying evidence-based public health principles to support the prevention and management of public health issues.
4. Interpret basic epidemiological and biostatistical data to inform evidence-based public health decision-making.
5. Evaluate the impact of public health policies, systems, and structures on population health outcomes, with attention to equity and ethics.
6. Demonstrate systems thinking by identifying interconnections among public health disciplines and stakeholders in addressing complex health issues.

HEP6120 - Foundations of Global Health - 3 - Credits

Course Overview

Course Prefix
HEP

Course Number
6120

Department
Kinesiology and Health Science

Course Title
Foundations of Global Health

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides an introduction to health promotion practice within a global health context.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Admission to Health Education and Promotion Master of Public Health program.

Course Learning Objectives

Course Learning Outcomes

1. Explain the major characteristics, principles, and themes that guide global health promotion and practice.
2. Analyze global health priorities and frameworks for measuring progress toward equity and sustainable development.
3. Evaluate the influence of culture, behavior, and social determinants on health beliefs, practices, and outcomes across global contexts.
4. Propose strategies for strengthening global health systems and infrastructure through policy, collaboration, and capacity building.
5. Design evidence-based approaches for implementing and evaluating global health programs in diverse settings.

HEP6150 - Global Maternal and Child Health - 3 - Credits

Course Overview

Course Prefix
HEP

Course Number
6150

Department
Kinesiology and Health Science

Course Title
Global Maternal and Child Health

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
The course applies comparative methods of inquiry to understand public health challenges that have a significant impact on the health of women and children as they occur and are managed in countries across income and development levels.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Admission to Health Education and Promotion Master of Public Health program.

Course Learning Objectives

Course Learning Outcomes

1. Explain how globalization, economic development, and structural inequities shape maternal and child health challenges and outcomes across diverse global contexts.
2. Analyze global and country-specific demographic, epidemiologic, and nutrition transitions and their implications for health outcomes and health promotion priorities.
3. Assess key maternal and child health indicators and recognize the complexities of measurement, data quality, and monitoring in resource-variable settings.
4. Evaluate how health systems, policy environments, and broader sociopolitical contexts interact to influence maternal and child health outcomes worldwide.
5. Design and propose evidence-informed strategies for health promotion, policy, and program development that address global maternal and child health challenges.

HEP6200 - Health Administration, Organizations, and Systems - 3 - Credits

Course Overview

Course Prefix
HEP

Course Number
6200

Department
Kinesiology and Health Science

Course Title
Health Administration, Organizations, and Systems

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course overviews management processes for public health professionals; basic principles of resource management; comparison of organization, structure, and function of health care, public health, and regulatory systems; and the application of systems thinking tools to public health issues.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Registration Restrictions
Admission to Health Education and Promotion Master of Public Health program.

Course Learning Objectives

Course Learning Outcomes
1. Describe the organization, structure, and regulatory mechanisms of the U.S. healthcare and public health systems.
2. Analyze the strengths and weaknesses of the U.S. health and public health systems in comparison to other developed nations.
3. Apply principles of fiscal management to develop and justify an operational budget for a public health program.
4. Explain and apply a systems thinking approach to addressing complex public health challenges and improving population health outcomes.
5. Develop strategies for stakeholder engagement, coalition building, and partnership management to advance public health initiatives.
6. Demonstrate negotiation, mediation, and conflict resolution skills for navigating organizational and public health challenges.

HEP6250 - Graduate Cooperative Work Experience - 1 - 15 Credits

Course Overview

Course Prefix
HEP

Course Number
6250

Department
Kinesiology and Health Science

Course Title
Graduate Cooperative Work Experience

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Professional level of education work experience in a cooperative education position for graduate students.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
15

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
15

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
15

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
15

Lecture Hours Operator:
TO

Special Approval
Instructor permission

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Identify and execute a set of new or expanded skills, objectives, competencies and/or responsibilities in a healthcare, health education/promotion or public health workplace.
2. Complete a thorough written summary and assessment of the experience in written form.

HEP6350 - Social Determinants of Health - 3 - Credits

Course Overview

Course Prefix
HEP

Course Number
6350

Department
Kinesiology and Health Science

Course Title
Social Determinants of Health

Grade Mode
Standard Letter

Repeat Status
NR

Course Description

This course provides a foundational perspective to systematically analyze health topics. Students use the socio-ecological approach to comprehensively interpret the social determinants of health and summarize their meaning in the context of public and global health promotion efforts.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Registration Restrictions

Admission to the Health Education and Promotion Master of Public Health program.

Course Learning Objectives

Course Learning Outcomes

1. Apply the socioecological framework to analyze and interpret social determinants of health (SDH).
2. Identify and assess the potential mechanisms through which SDH impacts the health of individuals and populations.
3. Evaluate public health activities – program, policy, or advocacy – implemented to modify SDH and improve health outcomes.
4. Recommend strategies to address SDH and improve health of individuals and populations.

HEP6400 - Policy, Leadership, and Advocacy in Public Health - 3 - Credits

Course Overview

Course Prefix
HEP

Course Number
6400

Department
Kinesiology and Health Science

Course Title
Policy, Leadership, and Advocacy in Public Health

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course outlines leadership and advocacy strategies for the development and evaluation of evidence based public health policies intended to enhance health equity and improve the overall health of the public.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Admission to Health Education and Promotion Master of Public Health program.

Course Learning Objectives

Course Learning Outcomes
1. Explain the structure and processes of health policy development
2. Analyze the roles of government, interest groups, research, and social factors in shaping public health policy.
3. Apply ethical principles and evidence-based reasoning to the design and evaluation of population-based health policies.
4. Develop and communicate advocacy strategies and messages tailored to specific policy goals and audiences.

HEP6450 - Research Methods in Population Health - 3 - Credits

Course Overview

Course Prefix
HEP

Course Number
6450

Department
Kinesiology and Health Science

Course Title
Research Methods in Population Health

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides an intensive introduction to core concepts, principles, and techniques employed in the scientific health research process. Simultaneous application of this learning to assignments prepares students with competencies to develop and conduct their own health research.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Admission to Health Education and Promotion Master of Public Health program.

Course Learning Objectives

Course Learning Outcomes
1. Design a rapid review protocol and apply it to synthesize and report findings from peer-reviewed public health research.
2. Write a literature review in the rapid review format.
3. Assess geographic features and variations that characterize public health outcomes.
4. Read information from a thematic map and summarize implications to public health promotion.

HEP6550 - Qualitative Methods for Public Health - 3 - Credits

Course Overview

Course Prefix
HEP

Course Number
6550

Department
Kinesiology and Health Science

Course Title
Qualitative Methods for Public Health

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This Public Health course covers common qualitative research methods, focusing on theory, efficacy, and practical skills like formulating questions, choosing data collection methods, managing participant relationships, and analyzing and presenting data.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Admission to Health Education and Promotion Master of Public Health program.

Course Learning Objectives

Course Learning Outcomes

1. Develop a qualitative research proposal, including research questions, sampling strategies, data collection methods (e.g., interviews, focus groups, observations), and ethical considerations.
2. Demonstrate proficiency in collecting and managing qualitative data using appropriate techniques and tools (e.g., transcription, coding software).
3. Analyze qualitative data using thematic analysis or other appropriate analytic approaches, and interpret findings in relation to public health practice and theory.
4. Critically evaluate published qualitative research for methodological rigor, ethical soundness, and relevance to public health practice and policy.
5. Develop a professional qualitative report for stakeholders, with actionable recommendations

HEP6600 - Practicum in Health Promotion - 3 - Credits

Course Overview

Course Prefix
HEP

Course Number
6600

Department
Kinesiology and Health Science

Course Title
Practicum in Health Promotion

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course consists of supervised student participation in a health promotion project.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Admission to Health Education and Promotion Master of Public Health program.

Special Approval

Instructor permission

Course Learning Objectives

Course Learning Outcomes

1. Communicate public health findings effectively to academic, policy, and/or community audiences through written, oral, and/or visual formats.
2. Demonstrate leadership, collaboration, and project management skills in coordinating a public health project or study.
3. Reflect on personal leadership style, professional growth, and readiness for advanced public health practice.
4. Design and execute a methodologically sound research study or applied project using appropriate qualitative, quantitative, or mixed methods.

HEP6670 - Principles of Grant Writing in Public Health - 3 - Credits

Course Overview

Course Prefix
HEP

Course Number
6670

Department
Kinesiology and Health Science

Course Title
Principles of Grant Writing in Public Health

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course will provide students within the Master of Public Health Program with the background necessary to identify potential funding opportunities (federal and private sources) and to develop a competitive funding proposal as well as basic program management techniques.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Understand the fundamental components of a grant proposal such as the abstract or summary, background and significance, specific aims/goals and objectives, project design and methods, sustainability, assessment/evaluation plan, broader impacts, dissemination, budget, budget justification, budget management, and cover letter as well as the overall grant submission process.
2. Compare and contrast historical and contemporary evaluation paradigms, theories, and approaches.
3. Use appropriate strategies and techniques for locating available funding opportunities.
4. Use appropriate techniques and skills to develop competitive grant proposals.
5. Prepare a complete grant proposal to an agency of their choice including a full budget.

HEP6700 - Special Topics in Health - 1 - 6 Credits

Course Overview

Course Prefix
HEP

Course Number
6700

Department
Kinesiology and Health Science

Course Title
Special Topics in Health

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
In-depth review and discussion of special topics in health.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
6

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
6

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
6

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
6

Lecture Hours Operator:
TO

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Analyze key concepts and current issues related to the special topic.
2. Apply relevant theories or methods to explore the topic in depth.
3. Critically evaluate diverse perspectives and evidence related to the subject matter.
4. Communicate insights and findings clearly through written and/or oral formats.

HEP6800 - Health Behavior - 3 - Credits

Course Overview

Course Prefix
HEP

Course Number
6800

Department
Kinesiology and Health Science

Course Title
Health Behavior

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course explores current theoretical perspectives in relation to health behaviors. Students critically examine theories and models of health behavior. The focus is on the practical application of health behavior concepts in planning and implementing health promotional interventions.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Admission to Health Education and Promotion Master of Public Health program.

Course Learning Objectives

Course Learning Outcomes

1. Apply behavior theory concepts/constructs to the design or implementation of health promotion programs or interventions

HEP6850 - Capstone in Public Health - 3 - Credits

Course Overview

Course Prefix
HEP

Course Number
6850

Department
Kinesiology and Health Science

Course Title
Capstone in Public Health

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides a culminating, integrative curricular experience for students enrolled in USU's Master of Public Health program during their last semester prior to graduation.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Admission to Health Education and Promotion Master of Public Health program.

Special Approval
Instructor Permission

Course Learning Objectives

Course Learning Outcomes

1. Develop a clear and feasible research question, hypothesis, or project objective addressing a priority public health issue.
2. Produce a professional capstone report or manuscript that demonstrates scholarly rigor and public health relevance.
3. Analyze and interpret data to generate evidence-informed conclusions and recommendations.
4. Integrate knowledge from the five core areas of public health — epidemiology, biostatistics, social and behavioral sciences, environmental health, and health policy and management — to address a complex public health issue.

HEP6900 - Independent Study - 1 - 3 Credits

Course Overview

Course Prefix
HEP

Course Number
6900

Department
Kinesiology and Health Science

Course Title
Independent Study

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Students conduct independent projects under the direction of one or more professors. This course provides students with the opportunity for individualized study.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

Special Approval
Instructor permission

No Requirements

Course Learning Objectives

Course Learning Outcomes
1. Collaborate with a faculty mentor to define the scope and objectives of an independent inquiry or project.
2. Pursue self-directed learning or project work using relevant methods and resources.
3. Create a final product demonstrating understanding and application of the chosen topic or skill.
4. Reflect on their learning experience and engage in meaningful discussion with their mentor.

HEP6950 - Independent Research - 1 - 3 Credits

Course Overview

Course Prefix
HEP

Course Number
6950

Department
Kinesiology and Health Science

Course Title
Independent Research

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course allows graduate students to pursue personal research interests by formalizing an independent project under the guidance of a graduate professor.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

Special Approval

Instructor permission

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Develop a research question or hypothesis aligned with their academic interests.
2. Design and implement a research plan using appropriate methodologies under faculty supervision.
3. Analyze and interpret research findings using scholarly standards.
4. Produce a well-documented research report or paper communicating their results.

HEP6990 - Continuing Graduate Advisement - 1 - 12 Credits

Course Overview

Course Prefix
HEP

Course Number
6990

Department
Kinesiology and Health Science

Course Title
Continuing Graduate Advisement

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
This course provides graduate students with continued support and advisement. It is usually taken following completion of all coursework required for the degree.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
12

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
12

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
12

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
12

Lecture Hours Operator:
TO

No Requirements

HETR1610 - General Maintenance - 4 - Credits

Course Overview

Course Prefix
HETR

Course Number
1610

Department
Technology, Design & Technical Ed

Course Title
General Maintenance

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students will learn field troubleshooting on a variety of equipment including engines, transmissions, final drives, and electrical/battery systems. Safety training will be emphasized in all aspects of general maintenance.

Credit Hours

Credit Hours Min:
4

Contact Hours

Contact Hours Min:
4

Billing Hours

Billing Hours Min:
4

Lecture Hours

Lecture Hours Min:
4

No Requirements

HETR1620 - Front End Loader Operation - 2 - Credits

Course Overview

Course Prefix
HETR

Course Number
1620

Department
Technology, Design & Technical Ed

Course Title
Front End Loader Operation

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students will learn theory and practical operation of a front end loader, and related pieces of equipment. Students will demonstrate all phases of operation from pre-shift to post-shift inspections, safety operation, truck loading, rough grading excavation, fueling, lubrication, and field troubleshooting.

Credit Hours

Credit Hours Min:
2

Contact Hours

Contact Hours Min:
2

Billing Hours

Billing Hours Min:
2

Lecture Hours

Lecture Hours Min:
2

No Requirements

HETR1630 - Tractor Loader Backhoe Operation - 2 - Credits

Course Overview

Course Prefix
HETR

Course Number
1630

Department
Technology, Design & Technical Ed

Course Title
Tractor Loader Backhoe Operation

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students will learn theory and practical operation of tractor loader backhoe. Students will demonstrate competence in trenching, hazardous digging, demolition, truck loading, and grading. Field troubleshooting lubrication, general maintenance, and special emphasis on safety and hazard awareness.

Credit Hours

Credit Hours Min:
2

Contact Hours

Contact Hours Min:
2

Billing Hours

Billing Hours Min:
2

Lecture Hours

Lecture Hours Min:
2

No Requirements

HETR1640 - Hydraulic Excavator Operation - 2 - Credits

Course Overview

Course Prefix
HETR

Course Number
1640

Department
Technology, Design & Technical Ed

Course Title
Hydraulic Excavator Operation

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Teaches safe operation and maintenance of hydraulic excavators, including standard and telescoping models. Students learn basic earthwork techniques, digging, truck loading, tramming, quick couplers, and trench boxes, while emphasizing safety awareness and preventive maintenance practices.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Other Enrollment Recommendations

Basic reading, writing, and math skills

No Requirements

HETR1650 - Motor Grader Operation - 2 - Credits

Course Overview

Course Prefix
HETR

Course Number
1650

Department
Technology, Design & Technical Ed

Course Title
Motor Grader Operation

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students will learn theory and practical operation of a motor grader. Students will demonstrate competence in pre-shift and post-shift inspections, finish grading, road maintenance, snow removal, safety roading, grade stake reading, field troubleshooting, lubrication, and basic maintenance.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

No Requirements

HETR1660 - Dozer Operation - 2 - Credits

Course Overview

Course Prefix
HETR

Course Number
1660

Department
Technology, Design & Technical Ed

Course Title
Dozer Operation

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students will learn theory and practical operation of a dozer. Students will demonstrate competence in pre-shift and post-shift inspections. Students will also show competence in safe operation, excavation demolition, slot dozing, road building, push cat and cutting grade, fueling, lubrication, and field troubleshooting.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

No Requirements

HETR1670 - Fork Lift Operation - 2 - Credits

Course Overview

Course Prefix
HETR

Course Number
1670

Department
Technology, Design & Technical Ed

Course Title
Fork Lift Operation

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides knowledge required for forklift certification, including pre-operation inspections, capacity and stability, safe operation, and maintenance. Students practice load handling, stacking, pedestrian awareness, and operating forklifts safely in narrow aisles and restricted work environments.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Other Enrollment Recommendations

Basic Reading, Writing, & Math

No Requirements

HETR2750 - Advanced Trailering Techniques - 2 - Credits

Course Overview

Course Prefix
HETR

Course Number
2750

Department
Technology, Design & Technical Ed

Course Title
Advanced Trailering Techniques

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students demonstrate proficiency with pre-inspection, coupling/uncoupling, and the safe operation of belly dump trailers and doubles.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Other Enrollment Recommendations

A current Class A CDL can also fulfill this prerequisite. Please see advisor for details

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- HETR2790 - Behind the Wheel

may be taken concurrently

HETR2760 - Dump and Trailering - 2 - Credits

Course Overview

Course Prefix
HETR

Course Number
2760

Department
Technology, Design & Technical Ed

Course Title
Dump and Trailering

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students will learn theory and practical operation of a dump truck and drop deck low-boy trailer, the safest way to load and lash each piece of equipment for transport, P.T.O. operation, overhead hazards, safe backing, fueling, lubrication, chain and boomer safety, tire care, and safety.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

No Requirements

HETR2770 - Laws and Regulations - 4 - Credits

Course Overview

Course Prefix
HETR

Course Number
2770

Department
Technology, Design & Technical Ed

Course Title
Laws and Regulations

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Theory course which describes laws and regulations, defensive driving, principles of haulage and operation of equipment, safety procedures, and preparation for examination. This course, along with HETR 2780 and HETR 2790 , is intended to prepare students for their Commercial Driver's License (CDL) and employment in the trucking industry. Intended to provide the material and experience necessary to pass the written exam for the class A Commercial Drivers License.

Credit Hours

Credit Hours Min:
4

Contact Hours

Contact Hours Min:
4

Billing Hours

Billing Hours Min:
4

Lecture Hours

Lecture Hours Min:
4

No Requirements

HETR2780 - Maintenance - 3 - Credits

Course Overview

Course Prefix
HETR

Course Number
2780

Department
Technology, Design & Technical Ed

Course Title
Maintenance

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers lubrication, fluid, tire, wheel, and electrical maintenance, driving observation, and safety-based testing. Along with HETR 2770 and HETR 2790, it prepares students for Commercial Driver's License (CDL) certification and employment in the trucking industry.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

HETR2790 - Behind the Wheel - 6 - Credits

Course Overview

Course Prefix
HETR

Course Number
2790

Department
Technology, Design & Technical Ed

Course Title
Behind the Wheel

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Covers on- and off-highway driving procedures, loaded and unloaded operation, turning, backing, braking, shifting, traffic laws, inspections, and safety practices. Along with HETR 2770 and HETR 2780, this course prepares students for Commercial Driver's License (CDL) certification and trucking industry employment.

Credit Hours

Credit Hours Min:
6

Contact Hours

Contact Hours Min:
6

Billing Hours

Billing Hours Min:
6

Lecture Hours

Lecture Hours Min:
6

No Requirements

HETR2977 - Internship Education Experiences - 1 - 3 Credits

Course Overview

Course Prefix
HETR

Course Number
2977

Department
Technology, Design & Technical Ed

Course Title
Internship Education Experiences

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Provides supervised on-the-job training in heavy/equipment and trucking. The student meets with the instructor/internship coordinator periodically during the course to determine and evaluate learning objectives, hours to be worked and credit agreements.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

Special Approval

Instructor permission

No Requirements

HETR2988 - Special Problems - 1 - 3 Credits

Course Overview

Course Prefix
HETR

Course Number
2988

Department
Technology, Design & Technical Ed

Course Title
Special Problems

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Individual work approved by the instructor. Time and credit to be arranged.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

No Requirements

HIST1100 - European History to 1500 (BHU) - 3 - Credits

Course Overview

Course Prefix
HIST

Course Number
1100

Department
History, Cultures & Ideas

Course Title
European History to 1500 (BHU)

General Education Attribute
BHU

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides a survey of institutions and developments of early and medieval European History from its Mediterranean origins to the beginning of the early modern period.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

HIST1110 - European History from 1500 (BHU) - 3 - Credits

Course Overview

Course Prefix
HIST

Course Number
1110

Department
History, Cultures & Ideas

Course Title
European History from 1500 (BHU)

General Education Attribute
BHU

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides a survey of the institutions and developments in European History from 1500 to the present, with an emphasis on Europe's interaction with the world.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

HIST1120 - Building English Vocabulary: The Latin and Greek Element in English - 3 - Credits

Course Overview

Course Prefix
HIST

Course Number
1120

Department
History, Cultures & Ideas

Cross-Listed Courses
CLAS1120 - Building English Vocabulary: The Latin and Greek Element in English

Course Title
Building English Vocabulary: The Latin and Greek Element in English

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Survey of classical word roots in English, with a view to enhancing students' comprehension of English vocabulary and its Indo-European heritage.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

HIST1500 - Pre-Modern World (BHU) - 3 - Credits

Course Overview

Course Prefix
HIST

Course Number
1500

Department
History, Cultures & Ideas

Course Title
Pre-Modern World (BHU)

General Education Attribute
BHU

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Surveys pre-Nineteenth Century cultural and economic interactions in important zones of exchange. Regional focus determined by instructor. Themes may include: trade, religious conversion, migration, slavery, warfare, and other types of cross-cultural exchange.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

HIST1510 - The Modern World (BHU) - 3 - Credits

Course Overview

Course Prefix
HIST

Course Number
1510

Department
History, Cultures & Ideas

Course Title
The Modern World (BHU)

General Education Attribute
BHU

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Survey of world history from the beginning of the nineteenth century to the present.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

HIST1600 - American Cultures in Film - 3 - Credits

Course Overview

Course Prefix
HIST

Course Number
1600

Department
History, Cultures & Ideas

Course Title
American Cultures in Film

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides an introduction to major ethnic groups in America and their treatment in recent feature films.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

HIST1700 - American History (BAI) - 3 - Credits

Course Overview

Course Prefix
HIST

Course Number
1700

Department
History, Cultures & Ideas

Course Title
American History (BAI)

General Education Attribute
BAI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course examines United States history with an emphasis on the nation's economic, political, social, and cultural institutions and is primarily designed for non-majors.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

HIST2010 - Special Topics Seminar - 3 - Credits

Course Overview

Course Prefix
HIST

Course Number
2010

Department
History, Cultures & Ideas

Course Title
Special Topics Seminar

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Study of special cross-cultural topics, including Imperial Paris, British India, Slavery in America, and Ute History.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

HIST2018 - Introduction to Native American History and Culture (BSS) - 3 - Credits

Course Overview

Course Prefix
HIST

Course Number
2018

Department
History, Cultures & Ideas

Cross-Listed Courses
ANTH2018 - Introduction to Native American History and Culture (BSS)

Course Title
Introduction to Native American History and Culture (BSS)

General Education Attribute
BSS

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides a broad overview of the historical and contemporary issues experienced by Native American communities. Students engage with these issues through scholarly articles, podcasts, literature, film, and oral history.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

HIST2210 - Introduction to Folklore (BHU) - 3 - Credits

Course Overview

Course Prefix
HIST

Course Number
2210

Department
History, Cultures & Ideas

Cross-Listed Courses
ANTH2210 - Introduction to Folklore (BHU), ENGL2210 - Introduction to Folklore (BHU)

Course Title
Introduction to Folklore (BHU)

General Education Attribute
BHU

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Introduction to major genres of folklore (folk narrative, custom, folk music and song, vernacular architecture and arts), folk groups (regional, ethnic, occupational, familial), and basic folklore research method (collecting and archiving).

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

HIST2300 - Introduction to the History of Modern Science - 3 - Credits

Course Overview

Course Prefix
HIST

Course Number
2300

Department
History, Cultures & Ideas

Course Title
Introduction to the History of Modern Science

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces the history of modern science in Europe and North America, from the Enlightenment to the mid-twentieth century. Students gain understanding in scientific theories and practices on their own terms and as products of their own contexts.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Course Learning Objectives

Course Learning Outcomes

1. Recognize that knowledge of the past, even seemingly simple facts such as what constitutes water, or who discovered oxygen, are in fact the product of widely accepted arguments by historians.
2. Situate scientific activity, personae, and theories in historical context and place current developments in science in historical perspective.
3. Make historical claims based on provided primary sources, formulate an argument about competing accounts of the “same” historical event and make judgments about the use of evidence and argument.
4. Coherently and convincingly communicate how and why science changes, as well as analyze the variety of places and practices through which scientific activity takes place at any given time.

HIST2700 - United States to 1877 (BAI) - 3 - Credits

Course Overview

Course Prefix
HIST

Course Number
2700

Department
History, Cultures & Ideas

Course Title
United States to 1877 (BAI)

General Education Attribute
BAI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Survey of the development of American society, economy, culture, and politics to 1877.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

HIST2710 - United States 1877-Present (BAI) - 3 - Credits

Course Overview

Course Prefix
HIST

Course Number
2710

Department
History, Cultures & Ideas

Course Title
United States 1877-Present (BAI)

General Education Attribute
BAI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Survey of the development of American society, economy, culture, and politics since 1877.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

HIST2720 - Survey of American Folklore - 3 - Credits

Course Overview

Course Prefix
HIST

Course Number
2720

Department
History, Cultures & Ideas

Cross-Listed Courses
ANTH2720 - Survey of American Folklore, ENGL2720 - Survey of American Folklore

Course Title
Survey of American Folklore

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Principal ethnic, regional, and occupational folk groups in America. Relations between folklore and American history, literature, and society. Key genres in American folklore (narrative, art, song, etc.) and their role in American culture.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

HIST2730 - Writing about Indigenous Histories and Cultures (CL2) - 3 - Credits

Course Overview

Course Prefix
HIST

Course Number
2730

Department
History, Cultures & Ideas

Course Title
Writing about Indigenous Histories and Cultures (CL2)

General Education Attribute
CL2

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces students to the fundamentals of researching and writing about indigenous communities. It is designed for students interested in working in Native American communities and writing for various audiences about Native American issues.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete at least 1 course in the following course sets:

- Communications Literacy (CL1) Course

May be fulfilled through coursework or examination.

HIST2988 - Special Problems - 1 - 3 Credits

Course Overview

Course Prefix
HIST

Course Number
2988

Department
History, Cultures & Ideas

Course Title
Special Problems

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Individual work approved by instructor. Time and credit to be arranged.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

No Requirements

HIST3000 - History Research Methods - 3 - Credits

Course Overview

Course Prefix
HIST

Course Number
3000

Department
History, Cultures & Ideas

Course Title
History Research Methods

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This foundational course for history majors includes scanning historical literature; identifying and articulating a historical problem; finding, synthesizing, and analyzing the problem's most relevant historical literature; and outlining the problem's significance with applicable methods and primary sources in a research proposal. This course is preparatory to HIST 4990.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Two HIST courses with a grade of C or better, excluding HIST 1700.

HIST3005 - Sport: A Global History - 3 - Credits

Course Overview

Course Prefix
HIST

Course Number
3005

Department
History, Cultures & Ideas

Course Title
Sport: A Global History

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course investigates themes in modern global history through the lens of sport. Students consider economics, nationalism, war, and international social debates while also working on a public history project about USU's sport history.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

HIST3010 - Introduction to Buddhism (DHA) - 3 - Credits

Course Overview

Course Prefix
HIST

Course Number
3010

Department
History, Cultures & Ideas

Cross-Listed Courses
RELS3010 - Introduction to Buddhism (DHA)

Course Title
Introduction to Buddhism (DHA)

General Education Attribute
DHA

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
General survey of historical development, basic doctrine, and practice of Hinayana and Mahayana Buddhism.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

HIST3020 - Introduction to Hinduism (DHA) - 3 - Credits

Course Overview

Course Prefix
HIST

Course Number
3020

Department
History, Cultures & Ideas

Cross-Listed Courses
RELS3020 - Introduction to Hinduism (DHA)

Course Title
Introduction to Hinduism (DHA)

General Education Attribute
DHA

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Surveys history, doctrinal developments, and sociological concerns of Hinduism from the Vedic Period through the Modern Period. Focuses primarily on Hindu religious thought as applied to Hindu life through various modes of religious action.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

HIST3030 - Introduction to Islam (DHA) - 3 - Credits

Course Overview

Course Prefix
HIST

Course Number
3030

Department
History, Cultures & Ideas

Cross-Listed Courses
RELS3030 - Introduction to Islam (DHA)

Course Title
Introduction to Islam (DHA)

General Education Attribute
DHA

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course focuses on the core beliefs, historical practices, scriptures and sentiments that have defined historically Muslim communities. In addition, the course examines the spiritual dimensions, theological discourses and historical traditions of Islam.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

HIST3040 - The History of Sexuality - 3 - Credits

Course Overview

Course Prefix
HIST

Course Number
3040

Department
History, Cultures & Ideas

Cross-Listed Courses
SOC3040 - The History of Sexuality

Course Title
The History of Sexuality

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course focuses on histories of sexuality in the United States. It explores why sexuality has been central to American culture. Lectures and readings specifically cover sexual politics, sexual regulation, sex and popular culture, and the historical development of sexual identities.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

HIST3045 - Family History and Genealogy - 3 - Credits

Course Overview

Course Prefix
HIST

Course Number
3045

Department
History, Cultures & Ideas

Course Title
Family History and Genealogy

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Introduction to family history, emphasizing the research process, document analysis, and major record types for research. Designed for students with interest in heritage, culture, history, anthropology, or human relationships.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Course Learning Objectives

Course Learning Outcomes

1. This course is designed to teach students the standards of genealogical research and ethics,

2. To familiarize students with the best genealogical websites and repositories,

3. To get students comfortable with searching genealogical records and analyzing them to form sound conclusions.

HIST3060 - Introduction to Judaism (DHA) - 3 - Credits

Course Overview

Course Prefix
HIST

Course Number
3060

Department
History, Cultures & Ideas

Cross-Listed Courses
RELS3060 - Introduction to Judaism (DHA)

Course Title
Introduction to Judaism (DHA)

General Education Attribute
DHA

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides a multidisciplinary survey of Judaism from its Biblical origins to modern times, including an introduction to its sacred texts, religious practices, and social dimensions.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

HIST3070 - Digital Folklore (DHA) - 3 - Credits

Course Overview

Course Prefix
HIST

Course Number
3070

Department
History, Cultures & Ideas

Cross-Listed Courses
ENGL3070 - Digital Folklore (DHA)

Course Title
Digital Folklore (DHA)

General Education Attribute
DHA

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
In-depth consideration of a rapidly emerging area of folklore studies: digital culture. Explores folklore in a digital context, folk groups and communities developed via communication technologies, and virtual ethnography.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

HIST3080 - Mormonism and the American Religious Experience (DHA) - 3 - Credits

Course Overview

Course Prefix
HIST

Course Number
3080

Department
History, Cultures & Ideas

Cross-Listed Courses
RELS3080 - Mormonism and the American Religious Experience (DHA)

Course Title
Mormonism and the American Religious Experience (DHA)

General Education Attribute
DHA

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students consider the history of Mormonism in the context of American religious history, including the history of religious groups that trace their origins to Joseph Smith, but focusing on the history of the Church of Jesus Christ of Latter-day Saints.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

HIST3095 - Technology and Society - 3 - Credits

Course Overview

Course Prefix
HIST

Course Number
3095

Department
History, Cultures & Ideas

Course Title
Technology and Society

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course investigates how technology shaped human society – from stone tools and windmills to railroads and the internet. Analyzing such, we explore dynamic relationships between technological systems and the social, political, religious, artistic, and economic worlds in which they emerged.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Other Enrollment Recommendations
Pairs well with HIST4000 TECHNOLOGY AND WORK.

Course Learning Objectives

Course Learning Outcomes
1. Apply historical thinking skills to technological innovation.
2. Examine who benefitted, who was harmed, and what broader economic, cultural, or social purposes these technologies were designed to serve.
3. Explore fundamental concepts associated with sociopolitical and environmental impacts of technological innovation.
4. Construct both written and oral analytical arguments that showcase the historical continuity of the implications of technology on society.
5. Draw on historical case studies to critically participate contemporary debates about technology and society.

HIST3110 - Ancient Near East (DHA/CI) - 3 - Credits

Course Overview

Course Prefix
HIST

Course Number
3110

Department
History, Cultures & Ideas

Course Title
Ancient Near East (DHA/CI)

General Education Attribute
CI, DHA

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Survey of history and civilization of ancient Mesopotamia, Egypt, and Israel, from prehistory to 500 B.C. Writing intensive.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete at least 1 course in the following course sets:

- Communications Literacy (CL2) Course

HIST3125 - Religion & Science: Examining a Complex History of Interaction - 3 - Credits

Course Overview

Course Prefix
HIST

Course Number
3125

Department
History, Cultures & Ideas

Cross-Listed Courses
RELS3125 - Religion & Science: Examining a Complex History of Interaction

Course Title
Religion & Science: Examining a Complex History of Interaction

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course is a historical study of the relationship between religion and science. Students explore evolving definitions of science and religion, important figures during the early modern period, and the emergence of modern science and religion in the 19th-20th centuries.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Describe your understanding of the categories of religion and science, and the roles they play within your nation, state, community and personal life.

2. Recognize the historical construction of the categories of religion and science with the United States and Europe, keeping in mind the contingency, or non-inevitability, of events as they unfolded.

3. Analyze and describe the way religion has been conceptualized in the last five-hundred years, how this categorization of human activity affects the present, and the implications of it being projected backwards into the past.

4. Analyze and describe the ways science has been described in history, and how this historic representation is changing based on reappraisals of historical fact, understanding as to how events occurred, and the implications for our understanding of history.

HIST3130 - Greek History (DHA/CI) - 3 - Credits

Course Overview

Course Prefix
HIST

Course Number
3130

Department
History, Cultures & Ideas

Course Title
Greek History (DHA/CI)

General Education Attribute
CI, DHA

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
History of Greece from Neolithic period to modern times. Special emphasis on politics, art, literature, and civilization. Writing intensive.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete at least 1 course in the following course sets:

- Communications Literacy (CL2) Course

HIST3150 - Roman History (CI) - 3 - Credits

Course Overview

Course Prefix
HIST

Course Number
3150

Department
History, Cultures & Ideas

Course Title
Roman History (CI)

General Education Attribute
CI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
History of Rome from Neolithic era to fall of the Western Empire. Special emphasis on politics, art, literature, and civilization. Writing intensive.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete at least 1 course in the following course sets:

- Communications Literacy (CL2) Course

HIST3160 - Classical Drama and Society - 3 - Credits

Course Overview

Course Prefix
HIST

Course Number
3160

Department
History, Cultures & Ideas

Cross-Listed Courses
CLAS3160 - Classical Drama and Society

Course Title
Classical Drama and Society

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Review and analysis of the nature and function of ancient Greek and Roman drama in its theatrical, historical, and social context. Focuses on the major dramatists of classical antiquity.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete at least 1 course in the following course sets:

- Communications Literacy (CL2) Course

HIST3170 - Descent and Return: Ancient Views of Hades and the Afterlife - 3 - Credits

Course Overview

Course Prefix
HIST

Course Number
3170

Department
History, Cultures & Ideas

Cross-Listed Courses
CLAS3170 - Descent and Return: Ancient Views of Hades and the Afterlife, RELS3170 - Descent and Return: Ancient Views of Hades and the Afterlife

Course Title
Descent and Return: Ancient Views of Hades and the Afterlife

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course will focus on classical views of Hades and the afterlife, paying special attention to the gods and heroes, such as Persephone, Odysseus, Orpheus, and Aeneas, who were able to make the journey down into Hades while alive and then return back to the upper world. We will also discuss the historical background to the works and related religious and literary themes.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

HIST3210 - Classical Mythology - 3 - Credits

Course Overview

Course Prefix
HIST

Course Number
3210

Department
History, Cultures & Ideas

Cross-Listed Courses
ARTH3210 - Classical Mythology, CLAS3210 - Classical Mythology, ENGL3210 - Classical Mythology, RELS3210 - Classical Mythology

Course Title
Classical Mythology

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces major myths of the Classical world and explores how these myths serve as keys to understanding the documents and arts of Classical civilization.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

HIST3220 - Medieval European Civilization, 500-1500 (DHA/CI) - 3 - Credits

Course Overview

Course Prefix
HIST

Course Number
3220

Department
History, Cultures & Ideas

Cross-Listed Courses
RELS3220 - Medieval European Civilization, 500-1500 (DHA/CI)

Course Title
Medieval European Civilization, 500-1500 (DHA/CI)

General Education Attribute
CI, DHA

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Provides students with overview of major themes in medieval European history from 500 to 1500 A.D. Also introduces major historiographical problems related to this period. Writing intensive and document based.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete at least 1 course in the following course sets:

- Communications Literacy (CL2) Course

HIST3225 - Medieval Britain, 500-1500 (DHA) - 3 - Credits

Course Overview

Course Prefix
HIST

Course Number
3225

Department
History, Cultures & Ideas

Course Title
Medieval Britain, 500-1500 (DHA)

General Education Attribute
DHA

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Focuses on changes to English politics, religion and society brought on by the Anglo-Saxon and Viking invasions, Norman Conquest, Black Death and Wars of the Roses. Particular emphasis is given to the development of the common law and Parliament.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

HIST3226 - Six Wives of Henry VIII: Queenship and Power in Tudor England - 3 - Credits

Course Overview

Course Prefix
HIST

Course Number
3226

Department
History, Cultures & Ideas

Course Title
Six Wives of Henry VIII: Queenship and Power in Tudor England

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students study Tudor England from the perspective of the six wives of Henry VIII. Themes include gender, diplomacy, marriage, education, fashion, popular culture, food, witchcraft, and daily life at a royal court.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Course Learning Objectives

Course Learning Outcomes
1. Demonstrate competency or mastery of knowledge of history connected to gender and queenship in sixteenth century England.

2. Develop critical thinking skills through assessing the biases and motivations revealed in primary and secondary sources and by evaluating debates among historians.

3. Refine oral and written communication skills through discussion sessions, class presentations, and regular writing practice.

HIST3230 - Early Modern Europe (DHA) - 3 - Credits

Course Overview

Course Prefix
HIST

Course Number
3230

Department
History, Cultures & Ideas

Course Title
Early Modern Europe (DHA)

General Education Attribute
DHA

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Explores major themes of early modern European history, such as secularization, the rise of the nation state, the Reformation, and the birth of capitalism. Introduces major historiographical issues of the period. Reading and writing intensive.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete at least 1 course in the following course sets:

- Communications Literacy (CL2) Course

HIST3240 - Modern Europe - 3 - Credits

Course Overview

Course Prefix
HIST

Course Number
3240

Department
History, Cultures & Ideas

Course Title
Modern Europe

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course explores major themes of modern European history, including revolution, war, industrialization, and imperialism.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

HIST3250 - Renaissance Europe 1300 to 1520 (DHA/CI) - 3 - Credits

Course Overview

Course Prefix
HIST

Course Number
3250

Department
History, Cultures & Ideas

Course Title
Renaissance Europe 1300 to 1520 (DHA/CI)

General Education Attribute
CI, DHA

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Emphasizing writing and primary sources, covers significant changes in Europe in government, society, and intellectual life caused by the Black Death, the humanist revolution in arts and literature, and the centralizing efforts of popes and monarchs

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

HIST3260 - Fire and Blood: The Mongol World Empire - 3 - Credits

Course Overview

Course Prefix
HIST

Course Number
3260

Department
History, Cultures & Ideas

Course Title
Fire and Blood: The Mongol World Empire

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course explores the Mongol Empire's rise from 13th-15th centuries and its impact on global history. Delve into social, military, cultural, and political history, examining interactions between nomadic and settled societies through primary sources and diverse secondary scholarly perspectives.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

HIST3270 - The Crusades (DHA) - 3 - Credits

Course Overview

Course Prefix
HIST

Course Number
3270

Department
History, Cultures & Ideas

Cross-Listed Courses
RELS3270 - The Crusades (DHA)

Course Title
The Crusades (DHA)

General Education Attribute
DHA

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course follows the evolution of the concept of holy war in Europe, western Asia and North Africa from the European campaigns to Jerusalem in the 1000s CE to the expansion of Muscovite and Ottoman empires in the 1500s.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

HIST3290 - Studying the New Testament - 3 - Credits

Course Overview

Course Prefix
HIST

Course Number
3290

Department
History, Cultures & Ideas

Cross-Listed Courses
CLAS3290 -
Studying the New Testament, RELS3290 - Studying the New Testament

Course Title
Studying the New Testament

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides students a scholarly introduction to the collection of writings known as the New Testament. In addition to reading the biblical texts themselves, the course is intended to introduce students to literary-historical methods of biblical research and scholarship.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

HIST3320 - Tsarist Russia - 3 - Credits

Course Overview

Course Prefix
HIST

Course Number
3320

Department
History, Cultures & Ideas

Course Title
Tsarist Russia

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Political, economic, and cultural development of Russian people to 1917. Writing and computer intensive.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

HIST3330 - Modern Russia and the Soviet Experiment - 3 - Credits

Course Overview

Course Prefix
HIST

Course Number
3330

Department
History, Cultures & Ideas

Course Title
Modern Russia and the Soviet Experiment

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Beginning with the Russian Revolution, surveys political, cultural, and economic history of the Soviet Union and the regional states emerging in its wake. Writing and computer intensive.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

HIST3340 - Holocaust History and Memory (DHA) - 3 - Credits

Course Overview

Course Prefix
HIST

Course Number
3340

Department
History, Cultures & Ideas

Course Title
Holocaust History and Memory (DHA)

General Education Attribute
DHA

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course examines the history of the Holocaust, focusing on the history of antisemitism, the rise of the Nazi Party, issues of gender, collaboration, and resistance, and the Holocaust in memory and popular culture, among various other themes.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

HIST3350 - War in the Age of Cinema: Anglo-American Film and the Two World Wars (DHA) - 3 - Credits

Course Overview

Course Prefix
HIST

Course Number
3350

Department
History, Cultures & Ideas

Course Title
War in the Age of Cinema: Anglo-American Film and the Two World Wars (DHA)

General Education Attribute
DHA

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course investigates war films as a main cinematic genre and how the ability to film war came of age with the invention of total war in the twentieth century. It explores films made during and about the world wars.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

HIST3390 - Objects of War - 3 - Credits

Course Overview

Course Prefix
HIST

Course Number
3390

Department
History, Cultures & Ideas

Cross-Listed Courses
ANTH3390 - Objects of War

Course Title
Objects of War

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This interdisciplinary course focuses on the history and material culture of modern war, especially the World Wars and the Vietnam War. In addition to studying these conflicts, students will help with outreach to digitally collect wartime objects and object stories.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Demonstrate familiarity with the basic facts concerning twentieth-century wars and with some of the representative cultural and material expressions of these wars.

2. Develop capacity to locate appropriate and accurate research materials.

3. Develop interpersonal communication skills with public audience.

4. Master basic skills including opportunities to practice: Distinguishing between historical primary and secondary sources, Effective written presentation of historical questions and sources, Effective oral communication through discussions and presentations, Competence engaging with multimedia and digital forums for communicating evidence.

5. Demonstrate familiarity with the differing experiences and interpretations of the wars of the twentieth-century and some of their legacies.

HIST3400 - History of the Ottoman Empire - 3 - Credits

Course Overview

Course Prefix
HIST

Course Number
3400

Department
History, Cultures & Ideas

Cross-Listed Courses
RELS3400 - History of the Ottoman Empire

Course Title
History of the Ottoman Empire

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers the Ottoman Empire (1300-1924), tracing its evolution from a small Anatolian "beylik" to a global powerhouse. It examines Byzantine, Turkic, and Islamic influences, exploring state formation, cultural identity, and decline narratives through primary sources and multimedia resources.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Course Learning Objectives

Course Learning Outcomes

1. Students will gain broad knowledge of the history of the Ottoman Empire and its impact on the societies in the Middle East, Balkans, and eastern Europe (ca. 1300-1900).

2. Students will compare experiences across different eras and regions within the Ottoman domains to identify enduring historical issues.

3. Students will construct well-reasoned arguments based on primary and secondary sources in Ottoman historical writing.

4. Students will analyze how religious values (Muslim and Christian) and institutions shaped Ottoman culture and governance.

HIST3410 - The Modern Middle East - 3 - Credits

Course Overview

Course Prefix
HIST

Course Number
3410

Department
History, Cultures & Ideas

Cross-Listed Courses
RELS3410 - The Modern Middle East

Course Title
The Modern Middle East

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course investigates the social, economic, cultural, and political developments in the Middle East since World War I. Topics include interactions with the West, modernity and globalization, orientalism, Islamic reform, nationalism and communism, and the rise of extremism.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

HIST3430 - History of Ancient Religions - 3 - Credits

Course Overview

Course Prefix
HIST

Course Number
3430

Department
History, Cultures & Ideas

Cross-Listed Courses
RELS3430 - History of Ancient Religions

Course Title
History of Ancient Religions

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students learn the intellectual and cultural history of religion and the dominant academic methods used for evaluating them. To that end, the course is an examination of the academic methodology, religious literature, and Greek, Judaic, Chinese, and Indian intellectual history.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

HIST3440 - Muslims and Jews: Medieval and Modern Encounters - 3 - Credits

Course Overview

Course Prefix
HIST

Course Number
3440

Department
History, Cultures & Ideas

Cross-Listed Courses
RELS3440 - Muslims and Jews: Medieval and Modern Encounters

Course Title
Muslims and Jews: Medieval and Modern Encounters

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course explores historical interactions between Muslims and Jews, from the Middle Ages to modern times, focusing on the Arab world and the Iberian Peninsula. Includes religious, legal, and cultural topics, as well as the Israel-Palestine conflict, with interest in peacebuilding.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes
1. To evaluate debates among historians in regard to Jewish-Muslim interaction in the medieval and modern Middle East.

2. To apply appropriate methods of research and argumentation to questions concerning the encounter of Judaism and Islam.

3. To analyze key primary and secondary sources to differentiate between historical facts and historical interpretations.

4. To write critically about the complex nature of past experiences to explain how Jews and Muslims have existed and coexisted in particular historical periods.

HIST3450 - Asian Gender History - 3 - Credits

Course Overview

Course Prefix
HIST

Course Number
3450

Department
History, Cultures & Ideas

Course Title
Asian Gender History

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This thematically-organized course examines gender roles, marriage, childrearing, and sexuality in the Middle East, South Asia, Central Asia, and East Asia.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

HIST3456 - History of South Asia (DHA) - 3 - Credits

Course Overview

Course Prefix
HIST

Course Number
3456

Department
History, Cultures & Ideas

Cross-Listed Courses
RELS3456 - History of South Asia (DHA)

Course Title
History of South Asia (DHA)

General Education Attribute
DHA

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course surveys the subcontinental history of South Asia from the emergence of civilization along the Indus Valley to the "Global War on Terrorism." It includes special emphasis on the development of the modern states of South Asia.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

HIST3460 - Comparative Asian History (DHA) - 3 - Credits

Course Overview

Course Prefix
HIST

Course Number
3460

Department
History, Cultures & Ideas

Course Title
Comparative Asian History (DHA)

General Education Attribute
DHA

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course surveys the history of the Asian continent, analyzing common patterns in the cultures of West, South, Southeast, and East Asia.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

HIST3470 - Religion and Politics in South Asia - 3 - Credits

Course Overview

Course Prefix
HIST

Course Number
3470

Department
History, Cultures & Ideas

Cross-Listed Courses
RELS3470 - Religion and Politics in South Asia

Course Title
Religion and Politics in South Asia

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course offers an introduction to South Asian religio-political history combined with an examination of how religion and politics intersect in India and Pakistan, with a focus on the 19th and 20th centuries.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

HIST3482 - Ancient China to 1800 (DHA) - 3 - Credits

Course Overview

Course Prefix
HIST

Course Number
3482

Department
History, Cultures & Ideas

Cross-Listed Courses
RELS3482 - Ancient China to 1800 (DHA)

Course Title
Ancient China to 1800 (DHA)

General Education Attribute
DHA

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course traces the emergence of political states within China and their eventual unification into a single empire, an institution that persisted for millennia. The development of literature, religion, philosophy, and material culture in Chinese society all played a role in shaping the character of what became China today.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

HIST3483 - Modern China 1800 to present (DHA) - 3 - Credits

Course Overview

Course Prefix
HIST

Course Number
3483

Department
History, Cultures & Ideas

Course Title
Modern China 1800 to present (DHA)

General Education Attribute
DHA

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course examines the dramatic clash of Chinese and Western cultures that spawned China's search for a modern identity. Conclude course with discussion of China's current challenges and future prospects.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

HIST3510 - Africa and the World (DHA) - 3 - Credits

Course Overview

Course Prefix
HIST

Course Number
3510

Department
History, Cultures & Ideas

Course Title
Africa and the World (DHA)

General Education Attribute
DHA

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Explores foundation of Africa's contemporary problems. Surveys Africa's history of interactions with Asia and Europe. In addition to writing several short essays covering readings and films, students investigate an aspect of cultural, political, or economic interaction and prepare a short research paper.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

HIST3520 - Law and the Making of the Modern World - 3 - Credits

Course Overview

Course Prefix
HIST

Course Number
3520

Department
History, Cultures & Ideas

Course Title
Law and the Making of the Modern World

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course examines how legal systems shaped major developments in global history, including empire, slavery, revolution, industrialization, rights, and globalization. Students analyze legal texts and cases to understand how law structured power and how people used law to pursue claims.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Course Learning Objectives

Course Learning Outcomes
Students will be able to:

1. Explain how law shaped major historical processes, including empire, slavery, revolution, industrialization, nation-building, and globalization.
2. Interpret legal documents as historical sources, including codes, court cases, petitions, and constitutions.
3. Compare legal developments across regions and examine how legal ideas moved and adapted over time.
4. Analyze how ordinary people used law to challenge inequality, assert rights, and negotiate authority.
5. Write clear, evidence-based essays using both primary and secondary sources.

6. Engage in informed discussion about the historical roots of modern legal systems.

HIST3530 - African Environmental History (DHA) - 3 - Credits

Course Overview

Course Prefix
HIST

Course Number
3530

Department
History, Cultures & Ideas

Course Title
African Environmental History (DHA)

General Education Attribute
DHA

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Surveys changing historical relationship between Africans and their physical environment. Readings cover ecological change in arid, savanna, rain forest, and montane environments. Students also survey and evaluate the methods and sources used by environmental historians to explain environmental stress, degradation, and rehabilitation.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

HIST3550 - Culture of East Asia (DHA) - 3 - Credits

Course Overview

Course Prefix
HIST

Course Number
3550

Department
History, Cultures & Ideas

Course Title
Culture of East Asia (DHA)

General Education Attribute
DHA

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students explore the historical cultures of three East Asian countries: China, Japan and Korea. Students gain an understanding of these cultures through readings, activities, video materials, writing, and discussions. Topics include: customs, traditions, beliefs, historical events, and more.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

HIST3560 - Modern East Asia (DHA) - 3 - Credits

Course Overview

Course Prefix
HIST

Course Number
3560

Department
History, Cultures & Ideas

Course Title
Modern East Asia (DHA)

General Education Attribute
DHA

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course examines how the United States helped shape East Asia in the nineteenth and twentieth centuries. The course concludes with current affairs in the region and the evolving relationships between East Asian countries and the United States.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

HIST3580 - Israeli-Palestinian Conflict: Past, Present, and Everyday Life - 3 - Credits

Course Overview

Course Prefix
HIST

Course Number
3580

Department
History, Cultures & Ideas

Cross-Listed Courses
LANG3580 - Israeli-Palestinian Conflict: Past, Present, and Everyday Life

Course Title
Israeli-Palestinian Conflict: Past, Present, and Everyday Life

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course offers a comprehensive exploration of the Israel-Palestine conflict, with a specific focus on its contemporary aspects and the impacts on everyday life. It focuses on the historical roots and the current realities of this complex and enduring conflict.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Course Learning Objectives

Course Learning Outcomes
1. Understand the historical background and contemporary dynamics of the Israel-Palestine conflict.

2. Analyze diverse perspectives and narratives through critical reading of texts and media.

3. Reflect on the human experiences and cultural impacts of the conflict.

4. Develop analytical and critical thinking skills through engagement with course materials.

5. Write clear, well-structured essays and arguments on topics related to the conflict.

6. Deliver persuasive and well-researched presentations on peace attempts in the region.

HIST3600 - The Engineer in the World - 2 - Credits

Course Overview

Course Prefix
HIST

Course Number
3600

Department
History, Cultures & Ideas

Course Title
The Engineer in the World

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers the long history of engineers as professionals and policymakers. Students learn the historical context of the profession, technological innovation, and the future of engineering while considering the social, cultural, and economic effects of engineering on societies.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Other Enrollment Recommendations

Engineering students encouraged to take the course but course is open to everyone.

Course Learning Objectives

Course Learning Outcomes

1. Apply historical thinking skills to scientific inquiry and technological innovation.
2. Explore fundamental concepts associated with sociopolitical and environmental impacts of engineering as a profession.
3. Demonstrate an understanding of how engineers shape policy and community development.
4. Construct both written and oral analytical arguments that showcase the historical continuity of the implications of engineering our built and social environments.
5. Communicate research to scholarly, industry, and general audiences.

HIST3615 - Latinx History - 3 - Credits

Course Overview

Course Prefix
HIST

Course Number
3615

Department
History, Cultures & Ideas

Course Title
Latinx History

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This class examines experiences of Latinx peoples throughout the nineteenth, twentieth, and twenty-first centuries. It traces the migration of people from Latin American backgrounds to the US and the evolution of different movements that they created within the nation.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

HIST3620 - History of Colonial Latin America (DHA) - 3 - Credits

Course Overview

Course Prefix
HIST

Course Number
3620

Department
History, Cultures & Ideas

Course Title
History of Colonial Latin America (DHA)

General Education Attribute
DHA

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Surveys art, culture, religion, and social organization of the Aztecs, Incas, and Mayas, and of the European dominated post-conquest. Introduces students to major historiographical problems in the field.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete at least 1 course in the following course sets:

- Communications Literacy (CL2) Course

HIST3630 - History of Modern Latin America - 3 - Credits

Course Overview

Course Prefix
HIST

Course Number
3630

Department
History, Cultures & Ideas

Course Title
History of Modern Latin America

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Introduces history and historiography of Latin America from the wars of independence to the contemporary era. Writing intensive.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

HIST3660 - History of Mexico (DHA) - 3 - Credits

Course Overview

Course Prefix
HIST

Course Number
3660

Department
History, Cultures & Ideas

Course Title
History of Mexico (DHA)

General Education Attribute
DHA

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Surveys Mexico from the rise of indigenous states to the present, with special emphasis on indigenous culture, colonialism, independence, the U.S.-Mexican War, the French Intervention, the Mexican Revolution, political reform, everyday life, globalization, and border issues.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete at least 1 course in the following course sets:

- Communications Literacy (CL2) Course

HIST3670 - Slavery in the Atlantic World (CI) - 3 - Credits

Course Overview

Course Prefix
HIST

Course Number
3670

Department
History, Cultures & Ideas

Course Title
Slavery in the Atlantic World (CI)

General Education Attribute
CI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Examines slavery in the Americas from the Atlantic perspective (including Africa and Europe) from the Fifteenth Century until abolition, with special emphasis on the slave trade, the plantation system, daily life, slavery and race, resistance, the Haitian Revolution, and abolition in the Americas.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete at least 1 course in the following course sets:

- Communications Literacy (CL2) Course

HIST3690 - Food History of the Americas - 3 - Credits

Course Overview

Course Prefix
HIST

Course Number
3690

Department
History, Cultures & Ideas

Course Title
Food History of the Americas

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course explores the history of food in the Americas, North and South, focusing on corn, cacao, potatoes, sugar, and cattle, while also using food as a lens to understand the broader history of the New World.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Course Learning Objectives

Course Learning Outcomes
1. Establishing basic historical knowledge concerning the history of the Americas, from the pre-colonial era to the present, using food as an historical lens.

2. Introducing historical thinking by emphasizing the uniqueness and difference of the past, the complexity of past experience, and why food culture changed over time and how these changes affected society and economies. The course also introduces students to the problematic nature of the historical record, and how this leads to debates among historians about the meaning of food culture.

3. Improving the development of critical thinking and reading, especially through the examination of primary sources, and introducing research skills, such as finding scholarly information in the library and marshaling evidence from primary sources. The course expects students to improve their abilities to make historical arguments, both in the numerous papers and class discussion. The course will introduce students to working in historical archives.

HIST3700 - Regional Folklore (DHA) - 3 - Credits

Course Overview

Course Prefix
HIST

Course Number
3700

Department
History, Cultures & Ideas

Course Title
Regional Folklore (DHA)

General Education Attribute
DHA

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Study of folklore and folklife as they relate to regional cultures.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

HIST3710 - Topics in Folklore (CI) - 3 - Credits

Course Overview

Course Prefix
HIST

Course Number
3710

Department
History, Cultures & Ideas

Cross-Listed Courses
ANTH3710 - Topics in Folklore (CI), ENGL3710 - Topics in Folklore (CI), RELS3710 - Topics in Folklore (CI)

Course Title
Topics in Folklore (CI)

General Education Attribute
CI

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course includes issues, problems, and methodologies in folklore study. The focus and instructor are variable.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

HIST3720 - Colonial America - 3 - Credits

Course Overview

Course Prefix
HIST

Course Number
3720

Department
History, Cultures & Ideas

Course Title
Colonial America

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course examines the North American Colonies, emphasizing British experience, from their founding to 1763. Students approach major issues of interpreting America's beginnings.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

HIST3730 - American Revolutionary Era - 3 - Credits

Course Overview

Course Prefix
HIST

Course Number
3730

Department
History, Cultures & Ideas

Course Title
American Revolutionary Era

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course examines the era of the American Revolution, from 1760-1800, and includes an examination of political, social, ideological, and racial changes occurring in North America. Students also consider the historical memory of the American Revolution.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

HIST3740 - Young Empire: United States, 1790s to 1840s - 3 - Credits

Course Overview

Course Prefix
HIST

Course Number
3740

Department
History, Cultures & Ideas

Course Title
Young Empire: United States, 1790s to 1840s

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This writing-intensive course examines the history of the United States and its empire up to the US-Mexico War. In addition to gaining knowledge of the subject, students develop skills in critical thinking, historical research, and writing.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete at least 1 course in the following course sets:

- Communications Literacy (CL2) Course

HIST3750 - Civil War and Reconstruction - 3 - Credits

Course Overview

Course Prefix
HIST

Course Number
3750

Department
History, Cultures & Ideas

Course Title
Civil War and Reconstruction

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course addresses the causes of the Civil War, the war itself, and the war's aftermath—Reconstruction. In the course, students analyze the transformative nature of the American Civil War era. They consider the war's impact on questions of citizenship, politics, economics, and culture.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete at least 1 course in the following course sets:

- Communications Literacy (CL2) Course

HIST3751 - Trials of Gilded Age America 1877-1900 (DHA/CI) - 3 - Credits

Course Overview

Course Prefix
HIST

Course Number
3751

Department
History, Cultures & Ideas

Course Title
Trials of Gilded Age America 1877-1900 (DHA/CI)

General Education Attribute
CI, DHA

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
An in-depth examination of Gilded Age America, using high-profile murder cases as a means of understanding the era's socio-economic, cultural, and political changes.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

HIST3760 - The United States, 1900-1945 (DHA/CI) - 3 - Credits

Course Overview

Course Prefix
HIST

Course Number
3760

Department
History, Cultures & Ideas

Course Title
The United States, 1900-1945 (DHA/CI)

General Education Attribute
CI, DHA

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
The course examines how the lives of the American people changed between the 1890s and 1945 as a result of such things as new technology and media, Prohibition, the Great Depression, and the World Wars.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete at least 1 course in the following course sets:

- Communications Literacy (CL2) Course

HIST3765 - Native Americans in Film (DHA) - 3 - Credits

Course Overview

Course Prefix
HIST

Course Number
3765

Department
History, Cultures & Ideas

Course Title
Native Americans in Film (DHA)

General Education Attribute
DHA

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces students to the history of Native Americans in cinema. Students learn how Native Americans were portrayed in movies as well as the history of Native Americans as actors, screenwriters, directors, and consultants in film production.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes
1. Be conversant on the history of how Native Americans were portrayed in film and how Native Americans took part in the film industry.

2. Be able to talk about films and tv programs as they relate to and reflect specific historical moments and cultural discourses.

3. Communicate original arguments orally and in writing.

4. Use credible sources to answer questions about art, culture, and history.

HIST3770 - Contemporary America: World War II to the Cold War - 3 - Credits

Course Overview

Course Prefix
HIST

Course Number
3770

Department
History, Cultures & Ideas

Course Title
Contemporary America: World War II to the Cold War

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers domestic and foreign policies of the United States from World War II through the Cold War (1941-1991). Topics may include foreign policy and domestic political, social, and cultural movements. Students develop research skills relevant to historical study.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

HIST3780 - History of American Education (DSS) - 3 - Credits

Course Overview

Course Prefix
HIST

Course Number
3780

Department
History, Cultures & Ideas

Cross-Listed Courses
TEAL3780 - History of American Education (DSS)

Course Title
History of American Education (DSS)

General Education Attribute
DSS

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course examines the historical foundations, structures, and expansion of educational systems in the United States from the colonial era to the present. Students trace the evolution of important themes and engage with scholarly material on the history of education.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

HIST3830 - The History of Yoga - 3 - Credits

Course Overview

Course Prefix
HIST

Course Number
3830

Department
History, Cultures & Ideas

Cross-Listed Courses
ENGL3830 - The History of Yoga, KIN3830 - The History of Yoga, RELS3830 - The History of Yoga

Course Title
The History of Yoga

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course explores the history of yoga from its origins in Indian prehistory to the variety of philosophies and practices that have evolved throughout the world. Students study ancient and modern texts on yoga and broader philosophy and theory.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

HIST3840 - The Modern American West (DHA) - 3 - Credits

Course Overview

Course Prefix
HIST

Course Number
3840

Department
History, Cultures & Ideas

Course Title
The Modern American West (DHA)

General Education Attribute
DHA

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Considers emerging scholarly literature about the American West in the twentieth century, with attention to economic, environmental, and demographic questions.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

HIST3850 - History of Utah (DHA/CI) - 3 - Credits

Course Overview

Course Prefix
HIST

Course Number
3850

Department
History, Cultures & Ideas

Course Title
History of Utah (DHA/CI)

General Education Attribute
CI, DHA

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Prehistory to the present. Examines environment and peoples of Utah, emphasizing use of primary documents to view and interpret Utah's past. Reading and writing intensive.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete at least 1 course in the following course sets:

- Communications Literacy (CL2) Course

HIST3900 - Science and Technology in World History (DSC) - 3 - Credits

Course Overview

Course Prefix
HIST

Course Number
3900

Department
History, Cultures & Ideas

Course Title
Science and Technology in World History (DSC)

General Education Attribute
DSC

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Explores the nature of scientific and technological change. Employs historical approach as the means for exploring the relationships between science, technology, and human values. Investigates how science and technology have shaped economic, political, military, societal, environmental, and cultural life.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete at least 1 course in the following course sets:

- Communications Literacy (CL2) Course

HIST3910 - Health, Disease, and Medicine in North America (DHA) - 3 - Credits

Course Overview

Course Prefix
HIST

Course Number
3910

Department
History, Cultures & Ideas

Course Title
Health, Disease, and Medicine in North America (DHA)

General Education Attribute
DHA

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students study the social and cultural history of medicine in North America from the fifteenth to the twentieth century. Subjects include colonial epidemics, slavery and reproduction, eugenics, public health, environmental disease, and psychiatry.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

HIST3920 - History of Native American Business and Entrepreneurship (CI) - 3 - Credits

Course Overview

Course Prefix
HIST

Course Number
3920

Department
History, Cultures & Ideas

Course Title
History of Native American Business and Entrepreneurship (CI)

General Education Attribute
CI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course explores the history of Native Americans as traders and businesspeople from the pre-Columbian period to the 21st century. We examine the colonial impact on Native economies and business strategies, and the philosophies Native Americans developed in response.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes
1. Be conversant on the history of commerce and business-building in Native American communities in the past and the present.

2. Understand how the events of the past centuries have shaped Native Americans' economic situation today.

3. Improve their written and oral communication and critical analysis skills.

4. Develop their skills in using the formats and conventions for writing in the history field.

HIST3930 - The Great American Road Trip - 3 - Credits

Course Overview

Course Prefix
HIST

Course Number
3930

Department
History, Cultures & Ideas

Course Title
The Great American Road Trip

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course examines the symbolic relevance of the “road trip” in American culture through investigating America’s highway infrastructure. The course explores American ideals (freedom, democracy, happiness), historical consequences (environmental, political, and cultural), and current infrastructure debates.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes
1. There will be a range of assessments (including formal writing activities, discussion board posts, oral presentations, and final projects) that will adhere to standard grading rubrics.

HIST3950 - Environmental History (DHA/CI) - 3 - Credits

Course Overview

Course Prefix
HIST

Course Number
3950

Department
History, Cultures & Ideas

Course Title
Environmental History (DHA/CI)

General Education Attribute
CI, DHA

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Surveys writings from a relatively new genre of historical scholarship that attempts to explain the relationship between human society and the natural world. Readings focus on North America, but students also have opportunity to survey materials from the non-Western world. Course is reading and writing intensive, and requires students to conduct a research project in which they construct the history of a particular landscape.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

HIST4000 - Technology and Work - 3 - Credits

Course Overview

Course Prefix
HIST

Course Number
4000

Department
History, Cultures & Ideas

Course Title
Technology and Work

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Public conversations about technology and work seem to have been conducted with fervor. Such concerns are by no means new. Students uncover how new technologies have transformed work and the people who work over the past two centuries.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Other Enrollment Recommendations
It would pair well with HIST3095 TECHNOLOGY AND SOCIETY.

Course Learning Objectives

Course Learning Outcomes

1. Demonstrate an understanding how technology and work influence men, women, children, people with disabilities, and racial and ethnic minorities.
2. Examine who benefitted, who was harmed, and what broader economic, cultural, or social purposes these technologies were designed to serve.
3. Recognize how and why certain kinds of work are made invisible, discuss how the promise of new technology can function as a political salve, and consider the social implications of novel forms of labor.
4. Understand how work within the “tech” industry itself, examining how the industry created a powerful vision of itself populated by particular kinds of work and workers.

5. Draw on historical case studies to critically participate contemporary debates about technology and work.

HIST4015 - Buddhism and the West - 3 - Credits

Course Overview

Course Prefix
HIST

Course Number
4015

Department
History, Cultures & Ideas

Cross-Listed Courses
RELS4015 - Buddhism and the West

Course Title
Buddhism and the West

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This is a one-semester introduction to Buddhism in the Western world for nonspecialists in Buddhism. It focuses on the development of Buddhism as a Western religious phenomenon. It presents interpretive, historical introduction to Buddhism in the West.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

HIST4020 - Public History - 3 - Credits

Course Overview

Course Prefix
HIST

Course Number
4020

Department
History, Cultures & Ideas

Course Title
Public History

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This is a readings intensive course designed to introduce students to the principle texts informing current public history thought as it relates to the primary fields of public history practice (museums, archives, cultural resource management/historic preservation).

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

HIST4150 - Japan, Europe, and the Early Modern World - 3 - Credits

Course Overview

Course Prefix
HIST

Course Number
4150

Department
History, Cultures & Ideas

Course Title
Japan, Europe, and the Early Modern World

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Provides a comparative view of encounters between the societies of Early Modern Europe and Tokugawa Japan.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

HIST4230 - The History of Christianity in the West (DHA/CI) - 3 - Credits

Course Overview

Course Prefix
HIST

Course Number
4230

Department
History, Cultures & Ideas

Cross-Listed Courses
RELS4230 - The History of Christianity in the West (DHA/CI)

Course Title
The History of Christianity in the West (DHA/CI)

General Education Attribute
CI, DHA

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Introduces students to history of Christian spirituality, asking how Christianity has been lived and how it has shaped lives over two thousand years. Uses original sources to introduce both the history and the historiographical problems surrounding the Christian religion. Writing intensive.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

HIST4250 - The Reformation in Britain: 1450-1688 - 3 - Credits

Course Overview

Course Prefix
HIST

Course Number
4250

Department
History, Cultures & Ideas

Course Title
The Reformation in Britain: 1450-1688

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Focuses on major research questions in the field of early modern studies. Explores causes and consequences of English Reformation and British Civil War. Writing and research intensive.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

HIST4251 - The Tudors, 1485-1603 (DHA) - 3 - Credits

Course Overview

Course Prefix
HIST

Course Number
4251

Department
History, Cultures & Ideas

Course Title
The Tudors, 1485-1603 (DHA)

General Education Attribute
DHA

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Examines important changes in government, religion, economics and the social world during the reign of the Tudor dynasty in England (1485-1603). Students will use primary source documents to examine these changes over time.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

HIST4260 - Witches, Workers, & Wives: Gender and Family in Early Modern Europe and America (DHA) - 3 - Credits

Course Overview

Course Prefix
HIST

Course Number
4260

Department
History, Cultures & Ideas

Course Title
Witches, Workers, & Wives: Gender and Family in Early Modern Europe and America (DHA)

General Education Attribute
DHA

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course analyzes the social, religious, political, and cultural factors that shaped experiences of gender, sexuality, and families in the Atlantic world, whether as workers, wives, mothers, criminals, political subjects, peasants, or even witches.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

HIST4290 - Europe and the French Revolution, 1700-1815 - 3 - Credits

Course Overview

Course Prefix
HIST

Course Number
4290

Department
History, Cultures & Ideas

Course Title
Europe and the French Revolution, 1700-1815

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Examines causes and consequences of the French Revolution, introducing students to major themes in its interpretation.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

HIST4310 - History of Nationalism - 3 - Credits

Course Overview

Course Prefix
HIST

Course Number
4310

Department
History, Cultures & Ideas

Course Title
History of Nationalism

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Examines development of nationalism. Addresses different theories of nationalism, and then tests these theories with various case studies. Emphasizes research and writing.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

HIST4350 - Greek Intellectual History - 3 - Credits

Course Overview

Course Prefix
HIST

Course Number
4350

Department
History, Cultures & Ideas

Cross-Listed Courses
RELS4350 - Greek Intellectual History

Course Title
Greek Intellectual History

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Through reading and discussing Greek literature and philosophy, attempts to understand the major Greek philosophers, in the context of the major literary authors of the period and contemporary political developments.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- CLAS3210 - Classical Mythology

HIST4390 - European Imperialism - 3 - Credits

Course Overview

Course Prefix
HIST

Course Number
4390

Department
History, Cultures & Ideas

Course Title
European Imperialism

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Survey of European Imperialism in the nineteenth and twentieth century world. Themes include the political, social, and cultural impact of European expansion as well as the responses to this phenomenon by indigenous people.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Any of the following requirements

Type
Prerequisite

Required

Complete ANY of the following Courses:

- HIST1050 - Foundations of Western Civilization: Modern
- HIST1100 - European History to 1500 (BHU)

HIST4510 - American Metropolis: Cities and Suburbs in United States History (DHA) - 3 - Credits

Course Overview

Course Prefix
HIST

Course Number
4510

Department
History, Cultures & Ideas

Course Title
American Metropolis: Cities and Suburbs in United States History (DHA)

General Education Attribute
DHA

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Examines the history of communities, cities, and suburbs in American history, from the Colonial era to the present. Explores how forces, including immigration, economic growth, and technological change, shaped American cities. Also examines subjects connected to urban history, including architectural history, as well as the history of landscape architecture and urban planning.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

HIST4540 - Gender, Violence, and Non-violence - 3 - Credits

Course Overview

Course Prefix
HIST

Course Number
4540

Department
History, Cultures & Ideas

Course Title
Gender, Violence, and Non-violence

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course uses an intersectional understanding of gender to investigate violence in a variety of historical contexts (including wars) and the non-violent movements that arose in response to them.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

HIST4550 - Women and Gender in America (DHA/CI) - 3 - Credits

Course Overview

Course Prefix
HIST

Course Number
4550

Department
History, Cultures & Ideas

Course Title
Women and Gender in America (DHA/CI)

General Education Attribute
CI, DHA

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This writing intensive course draws on film, primary documents, and readings to trace the history of women, emphasizing race, class, and gender influences of each era.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

HIST4555 - Women in Buddhism - 3 - Credits

Course Overview

Course Prefix
HIST

Course Number
4555

Department
History, Cultures & Ideas

Cross-Listed Courses
RELS4555 - Women in Buddhism

Course Title
Women in Buddhism

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course explores the historical, textual, and social questions relevant to the status of women in the Buddhist world ranging from the time of Buddhism's origins in South Asia to the present day.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

HIST4560 - Women in Islam (DHA) - 3 - Credits

Course Overview

Course Prefix
HIST

Course Number
4560

Department
History, Cultures & Ideas

Cross-Listed Courses
RELS4560 - Women in Islam (DHA)

Course Title
Women in Islam (DHA)

General Education Attribute
DHA

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Within a religious and historical framework, it explores topics such as gender and social roles, women's rights, veiling and dress, female circumcisions, arranged marriages, education, employment, parenting, honor killings, and politics in the lives of Islamic women. A basic knowledge of Islam is recommended before enrolling.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

HIST4565 - Medieval Islam (DHA) - 3 - Credits

Course Overview

Course Prefix
HIST

Course Number
4565

Department
History, Cultures & Ideas

Cross-Listed Courses
RELS4565 - Medieval Islam (DHA)

Course Title
Medieval Islam (DHA)

General Education Attribute
DHA

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course focuses on the history of the Islamic world to the 1400s, beginning in sixth-century Arabia and ending with the conversion of the western Mongol states to Islam and the rise of the Ottoman Empire.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

HIST4566 - Global Faces of Islam (DHA) - 3 - Credits

Course Overview

Course Prefix
HIST

Course Number
4566

Department
History, Cultures & Ideas

Cross-Listed Courses
RELS4566 - Global Faces of Islam (DHA)

Course Title
Global Faces of Islam (DHA)

General Education Attribute
DHA

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces students to the modern and contemporary Islamic world. Students examine how colonialism, imperialism, industrialization, capitalism, decolonization, and mass media have shaped what it means to be Muslim and how Muslims envision themselves within a globalized world.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

HIST4567 - Slavery in the Islamic World - 3 - Credits

Course Overview

Course Prefix
HIST

Course Number
4567

Department
History, Cultures & Ideas

Cross-Listed Courses
RELS4567 - Slavery in the Islamic World

Course Title
Slavery in the Islamic World

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course explores the social, political, cultural, legal, and economic dimensions of slavery in the history of the Islamic world (600-1600). The course allows students to outline the establishment, growth, and evolution of slavery in the Muslim world.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Becoming familiar with slavery in a global context, and to analyze the comparative dimensions that made slavery in the Islamic world different.

2. To analyze the different forms of the institutions of slavery, clientage, and concubinage in Islamic History.

3. Developing the reading skills necessary to navigate primary source materials and engage critically with secondary scholarship.

4. To practice critical thinking skills to view topics through several lenses to avoid misconceptions and biases based on one's own values and judgements.

HIST4600 - The History of the American West (DHA/CI) - 3 - Credits

Course Overview

Course Prefix
HIST

Course Number
4600

Department
History, Cultures & Ideas

Course Title
The History of the American West (DHA/CI, DHA CI)

General Education Attribute

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Traces major themes in nineteenth century history of the land between the Mississippi River and the Pacific Coast. In a writing intensive course, students use primary documents and secondary materials to discover the race, class, and gender issues that shaped the American West.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

HIST4610 - Themes and Methods in Economic History - 3 - Credits

Course Overview

Course Prefix
HIST

Course Number
4610

Department
History, Cultures & Ideas

Course Title
Themes and Methods in Economic History

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Themes and methods in economic history, drawing on various societies and time periods. Designed to prepare future historians to work in their field.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete at least 1 course in the following course sets:

- Quantitative Literacy (QL) Course

(through coursework or examination)

HIST4625 - The History of Natural Disasters (DHA) - 3 - Credits

Course Overview

Course Prefix
HIST

Course Number
4625

Department
History, Cultures & Ideas

Course Title
The History of Natural Disasters (DHA)

General Education Attribute
DHA

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides a historical overview of natural disasters, including their causes and effects. It gives special attention to the human role in disasters, from choices made in planning, building, and preparedness to divergent and inequitable risks borne by different groups within society.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

HIST4630 - History of the Southwest Borderlands (DHA) - 3 - Credits

Course Overview

Course Prefix
HIST

Course Number
4630

Department
History, Cultures & Ideas

Course Title
History of the Southwest Borderlands (DHA)

General Education Attribute
DHA

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Reading-intensive and writing-intensive course, examining the historical experiences of Mexican Americans, from prior to the U.S. annexation of Northern Mexico in 1848 to the present. Special emphasis given to immigration and migration, labor, gender, race and ethnicity, and the social and cultural evolution of Mexican Americans within American society.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

HIST4640 - Studies in the American West (CI) - 3 - Credits

Course Overview

Course Prefix
HIST

Course Number
4640

Department
History, Cultures & Ideas

Course Title
Studies in the American West (CI)

General Education Attribute
CI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This is an interdisciplinary course in American Studies exploring the region of the West through the analysis of literary texts, historical sources, and socio-cultural materials.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

HIST4650 - Women and Gender in the US West - 3 - Credits

Course Overview

Course Prefix
HIST

Course Number
4650

Department
History, Cultures & Ideas

Course Title
Women and Gender in the US West

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course will examine the interconnected histories of women in the US West, exploring how gender, race and class shaped their experiences. Moving from pre-contact through the mid twentieth century, students will explore how colonialism and migrations impacted the lives of diverse groups of women, including but not limited to their family lives, how they made a living and the types of communities they built.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

HIST4660 - Work and Migration in North American History (DHA) - 3 - Credits

Course Overview

Course Prefix
HIST

Course Number
4660

Department
History, Cultures & Ideas

Course Title
Work and Migration in North American History (DHA)

General Education Attribute
DHA

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
From 1400 to the present, this course explores the global economic changes that inspired diverse workers to migrate to (and within) North America. Students study changes in the character of work and the ways workers struggled to improve working conditions.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

HIST4700 - Folk Material Culture (DHA) - 3 - Credits

Course Overview

Course Prefix
HIST

Course Number
4700

Department
History, Cultures & Ideas

Cross-Listed Courses
ENGL4700 - Folk Material Culture (DHA)

Course Title
Folk Material Culture (DHA)

General Education Attribute
DHA

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Study of folk objects and their connections with culture and history.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

HIST4710 - American Indian History - 3 - Credits

Course Overview

Course Prefix
HIST

Course Number
4710

Department
History, Cultures & Ideas

Course Title
American Indian History

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Prehistory to the present. Emphasizes ethnohistory and the Western U.S., focusing on intercultural contacts, subsistence and environmental change, and contemporary political and economic issues, while analyzing primary documents and secondary readings.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

HIST4711 - Northern Ute History (DHA) - 3 - Credits

Course Overview

Course Prefix
HIST

Course Number
4711

Department
History, Cultures & Ideas

Course Title
Northern Ute History (DHA)

General Education Attribute
DHA

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course will cover the history of the Northern Utes from the earliest records up to the present. Historical analysis and methodology will also be taught and specific assignments given to assist each student understand methodology from within the context of Ute History.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

HIST4720 - The Civil Rights Movement (DHA/CI) - 3 - Credits

Course Overview

Course Prefix
HIST

Course Number
4720

Department
History, Cultures & Ideas

Course Title
The Civil Rights Movement (DHA/CI)

General Education Attribute
CI, DHA

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Traces struggle of black Americans for equality since emancipation, with emphasis on the post-World War II period. Focuses on the individuals and social trends that laid the groundwork for change by the mid-Twentieth Century.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Course Sets:

- Communications Literacy (CL2) Course

HIST4730 - History of Black America (CI) - 3 - Credits

Course Overview

Course Prefix
HIST

Course Number
4730

Department
History, Cultures & Ideas

Cross-Listed Courses
RELS4730 - History of Black America (CI)

Course Title
History of Black America (CI)

General Education Attribute
CI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Study of African-American experience from slavery to freedom, as well as the difficult quest for democracy and equality in contemporary America. Includes both creative and research writing components.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

HIST4750 - Advanced Folklore Workshop: Fife Conference - 3 - Credits

Course Overview

Course Prefix
HIST

Course Number
4750

Department
History, Cultures & Ideas

Cross-Listed Courses
ENGL4750 - Advanced Folklore Workshop: Fife Conference

Course Title
Advanced Folklore Workshop: Fife Conference

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Focuses on one theme or topic in folklore, and offers lectures from nationally prominent scholars in the area. Taught during one week, every day and all day.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

HIST4760 - America in the 1960s (DHA) - 3 - Credits

Course Overview

Course Prefix
HIST

Course Number
4760

Department
History, Cultures & Ideas

Course Title
America in the 1960s (DHA)

General Education Attribute
DHA

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides an in-depth examination of the period in United States history referred to as the "Long Sixties" (1954-1974) with an emphasis on intellectual and cultural events, domestic politics, and foreign policy.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

HIST4790 - American Religious History - 3 - Credits

Course Overview

Course Prefix
HIST

Course Number
4790

Department
History, Cultures & Ideas

Cross-Listed Courses
RELS4790 - American Religious History

Course Title
American Religious History

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Varieties of American religious experience from settlement to the present.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

HIST4810 - American Military History - 3 - Credits

Course Overview

Course Prefix
HIST

Course Number
4810

Department
History, Cultures & Ideas

Cross-Listed Courses
MSL4810 - American Military History

Course Title
American Military History

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers evolution of the military in American history and society from 1775 to the present.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

HIST4815 - World War I: A Global Conflict (DHA) - 3 - Credits

Course Overview

Course Prefix
HIST

Course Number
4815

Department
History, Cultures & Ideas

Course Title
World War I: A Global Conflict (DHA)

General Education Attribute
DHA

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Dubbed "The War to End All Wars," the First World War was a modern event that transformed societies around the world and which helped redraw the lines of a nation and empire. The course will examine the origins of the war, its global fronts, and its consequences.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

HIST4820 - World War II in Europe - 3 - Credits

Course Overview

Course Prefix
HIST

Course Number
4820

Department
History, Cultures & Ideas

Course Title
World War II in Europe

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Focuses exclusively on World War II developments in the ETO. That is, the efforts of the Allied forces, mainly the United States, Britain, the Soviet Union, Free France, Canada, and resistance fighters and British Commonwealth soldiers against the expansion and occupation of most of Eurasia by Nazi Germany and/or Fascist Italy. Covers the chronology of 1939 to 1945. Included in the course's scope is the Holocaust.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

HIST4821 - World War II in Asia (DHA) - 3 - Credits

Course Overview

Course Prefix
HIST

Course Number
4821

Department
History, Cultures & Ideas

Course Title
World War II in Asia (DHA)

General Education Attribute
DHA

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
legacy of the Pacific War between the United States and Japan. Hostilities began when Japan attacked Pearl Harbor in 1941 and concluded in 1945 when Japanese civilians became victims of atomic warfare.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

HIST4822 - The Vietnam War (DHA) - 3 - Credits

Course Overview

Course Prefix
HIST

Course Number
4822

Department
History, Cultures & Ideas

Course Title
The Vietnam War (DHA)

General Education Attribute
DHA

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course examines the Vietnam War from multiple perspectives: American and Vietnamese experiences, policies, casualties, popular culture, and enduring legacies. It places the conflict within a global and historical context.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

HIST4825 - Historical Roots of the War on Terror (DHA) - 3 - Credits

Course Overview

Course Prefix
HIST

Course Number
4825

Department
History, Cultures & Ideas

Cross-Listed Courses
RELS4825 - Historical Roots of the War on Terror (DHA)

Course Title
Historical Roots of the War on Terror (DHA)

General Education Attribute
DHA

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course offers students a critical understanding of the historical roots of the global “War on Terror” by familiarizing them with the ideological underpinnings (both Islamic and Western) of the conflict, socio-economic factors, and the historical antecedents of modern-day terrorism.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

HIST4850 - Interpreting the Past for Teachers - 3 - Credits

Course Overview

Course Prefix
HIST

Course Number
4850

Department
History, Cultures & Ideas

Course Title
Interpreting the Past for Teachers

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Focuses on nonformal educational experiences open to secondary school students outside of the classroom. Interpretive modes examined include historical film, documentaries, living history programs, history fairs and festivals, and historical novels and magazines

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Admission to Teacher Education

HIST4860 - Teaching History - 3 - Credits

Course Overview

Course Prefix
HIST

Course Number
4860

Department
History, Cultures & Ideas

Course Title
Teaching History

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Designed to introduce history teaching majors to ethical and methodological issues arising in history classroom.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Special Approval
Advisor or instructor permission

No Requirements

HIST4870 - Teaching World History: Themes, Approaches, and Materials - 3 - Credits

Course Overview

Course Prefix
HIST

Course Number
4870

Department
History, Cultures & Ideas

Course Title
Teaching World History: Themes, Approaches, and Materials

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces students to a number of approaches to the study and teaching of world history. Students survey theoretical and pedagogical literature, then assemble a course package, which is presented to their peers.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Registration Restrictions
Admission to the History Teaching major or minor program

Special Approval
Instructor or advisor permission required

HIST4880 - History Workshop: Special Topics - 1 - 3 Credits

Course Overview

Course Prefix
HIST

Course Number
4880

Department
History, Cultures & Ideas

Course Title
History Workshop: Special Topics

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Focuses on a theme or topic in history. Check with major department for limitations on number of credits that can be counted for graduation.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

No Requirements

HIST4885 - ST: History and Visual Media - 3 - Credits

Course Overview

Course Prefix
HIST

Course Number
4885

Department
History, Cultures & Ideas

Course Title
ST: History and Visual Media

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Examines the ways in which visual media - particularly modern electronic formats such as film and television shaped past human experience and subsequently reflect or misrepresent it.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

HIST4890 - Cold War in Asia (DHA) - 3 - Credits

Course Overview

Course Prefix
HIST

Course Number
4890

Department
History, Cultures & Ideas

Course Title
Cold War in Asia (DHA)

General Education Attribute
DHA

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Explores history of the Cold War conflicts in Korea and Vietnam, from Asian and American perspectives. Students ascertain the economic, political, military, environmental, diplomatic, psychological, and demographic implications of these conflicts for the U.S., as well as for the Asians involved.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

HIST4891 - Cold War: Vietnam and Afghanistan (DHA) - 3 - Credits

Course Overview

Course Prefix
HIST

Course Number
4891

Department
History, Cultures & Ideas

Course Title
Cold War: Vietnam and Afghanistan (DHA)

General Education Attribute
DHA

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Focuses on the later stages of the Cold War in Asia, 1961-1991, in Vietnam and Afghanistan.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

HIST4910 - Special Studies in History - 3 - Credits

Course Overview

Course Prefix
HIST

Course Number
4910

Department
History, Cultures & Ideas

Course Title
Special Studies in History

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Examination of special areas and themes in history.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

HIST4930 - Directed Readings - 1 - 3 Credits

Course Overview

Course Prefix
HIST

Course Number
4930

Department
History, Cultures & Ideas

Course Title
Directed Readings

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Directed readings in any special historical field. For each credit granted, minimum of four books must be read.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

Special Approval

Instructor permission

No Requirements

HIST4940 - Historical Internship - 1 - 3 Credits

Course Overview

Course Prefix
HIST

Course Number
4940

Department
History, Cultures & Ideas

Course Title
Historical Internship

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Directed internship involving participation in a historical research or cultural management project.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

No Requirements

HIST4945 - Archives Management/Archives Internship - 1 - 3 Credits

Course Overview

Course Prefix
HIST

Course Number
4945

Department
History, Cultures & Ideas

Dual-Listed Courses
HIST6840 - Archives Management/Archives Internship

Course Title
Archives Management/Archives Internship

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course examines archival practices in the real world and discusses how archival institutions interact with the public in general and with historians in particular. The instructor uses materials held in USU Special Collections and Archives to teach this course. Additional work is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

No Requirements

HIST4990 - Undergraduate Research Capstone (CI) - 3 - Credits

Course Overview

Course Prefix
HIST

Course Number
4990

Department
History, Cultures & Ideas

Course Title
Undergraduate Research Capstone (CI)

General Education Attribute
CI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Senior history seminar emphasizing historiographical literacy, research, and writing skills in relation to a specific historical topic.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Registration Restrictions
Senior standing

Special Approval

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Earn a minimum grade of C+ in the following:

- HIST3000 - History Research Methods

HIST5690 - American Studies Capstone Seminar (CI) - 3 - Credits

Course Overview

Course Prefix
HIST

Course Number
5690

Department
History, Cultures & Ideas

Cross-Listed Courses
ENGL5690 - American Studies Capstone Seminar (CI)

Course Title
American Studies Capstone Seminar (CI)

General Education Attribute
CI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Required for students majoring in American Studies. Enables students to synthesize American Studies theory and methods with interdisciplinary cognate courses. Supports senior thesis design and writing, allowing topics to reflect individual programs of study.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

HIST5700 - Folk Narrative - 3 - Credits

Course Overview

Course Prefix
HIST

Course Number
5700

Department
History, Cultures & Ideas

Cross-Listed Courses
ANTH5700 - Folk Narrative, ENGL5700 - Folk Narrative

Course Title
Folk Narrative

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Forms and functions of folk narrative genres: myth, legend, folktale, memorate, and ballad.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete at least 1 course in the following course sets:

- Communications Literacy (CL2) Course

Required

Completion of a 3000-level Course in the following prefixes:

- ANTH
- ENGL
- HIST

HIST6000 - Historical Methods and Research - 3 - Credits

Course Overview

Course Prefix
HIST

Course Number
6000

Department
History, Cultures & Ideas

Course Title
Historical Methods and Research

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Introduction to the historical profession, emphasizing research and writing skills, as well as the critical assessment of scholarly works. Should be taken at beginning of student's graduate program. Required for history master's students.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

HIST6010 - History and Theory - 3 - Credits

Course Overview

Course Prefix
HIST

Course Number
6010

Department
History, Cultures & Ideas

Course Title
History and Theory

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Examination of major works that have influenced the theory and practice of historical writing.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Other Enrollment Recommendations

History masters students are required to complete HIST6010 HISTORY AND THEORY, HIST6020 PUBLIC HISTORY, or another theory-enriched course.

No Requirements

HIST6020 - Public History - 3 - Credits

Course Overview

Course Prefix
HIST

Course Number
6020

Department
History, Cultures & Ideas

Course Title
Public History

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This is a readings intensive course designed to introduce students to the principle texts informing current public history thought as it relates to the primary fields of public history practice (museums, archives, cultural resource management/historic preservation).

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

HIST6030 - Research Seminar - 3 - Credits

Course Overview

Course Prefix
HIST

Course Number
6030

Department
History, Cultures & Ideas

Course Title
Research Seminar

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Research in primary sources for graduate students.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

HIST6100 - Special Topics: Ancient History - 3 - Credits

Course Overview

Course Prefix
HIST

Course Number
6100

Department
History, Cultures & Ideas

Course Title
Special Topics: Ancient History

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Intensive readings and group discussions of selected topics in ancient history.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

HIST6130 - Special Topics: Early Modern European History - 3 - Credits

Course Overview

Course Prefix
HIST

Course Number
6130

Department
History, Cultures & Ideas

Course Title
Special Topics: Early Modern European History

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Intensive readings and group discussions of selected topics in early modern European history.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

HIST6160 - Special Topics: Modern European History - 3 - Credits

Course Overview

Course Prefix
HIST

Course Number
6160

Department
History, Cultures & Ideas

Course Title
Special Topics: Modern European History

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Intensive readings and group discussions of selected topics in modern European history.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

HIST6165 - The History of Total War - 3 - Credits

Course Overview

Course Prefix
HIST

Course Number
6165

Department
History, Cultures & Ideas

Course Title
The History of Total War

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
What is total war? Is it a distinct kind of conflict? This course interrogates this concept via the history of the First and Second World Wars, their origins and legacies, including wars of colonization and decolonization.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Demonstrate familiarity with a range of methodologies for the study of total war.

2. Master basic historical skills including: Competence in Chicago citation style.

3. Competence in focused historical research.

4. Effective oral communication through discussions and presentations.

5. Persuasive written presentation of historical questions, sources, and methodologies.

6. Demonstrate familiarity with the historiography of total war (First and Second World Wars).

HIST6200 - Special Topics: Comparative World History - 3 - Credits

Course Overview

Course Prefix
HIST

Course Number
6200

Department
History, Cultures & Ideas

Course Title
Special Topics: Comparative World History

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Intensive readings and group discussions of selected topics in comparative world history.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

HIST6230 - Special Topics: Middle Eastern History - 3 - Credits

Course Overview

Course Prefix
HIST

Course Number
6230

Department
History, Cultures & Ideas

Course Title
Special Topics: Middle Eastern History

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Intensive readings and group discussions of selected topics in middle eastern history.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

HIST6260 - Special Topics: Asian History - 3 - Credits

Course Overview

Course Prefix
HIST

Course Number
6260

Department
History, Cultures & Ideas

Course Title
Special Topics: Asian History

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Intensive readings and group discussions of selected topics in Asian history.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

HIST6300 - Special Topics: African History - 3 - Credits

Course Overview

Course Prefix
HIST

Course Number
6300

Department
History, Cultures & Ideas

Course Title
Special Topics: African History

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Intensive readings and group discussions of selected topics in African history.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

HIST6330 - Special Topics: Latin American History - 3 - Credits

Course Overview

Course Prefix
HIST

Course Number
6330

Department
History, Cultures & Ideas

Course Title
Special Topics: Latin American History

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Intensive readings and group discussions of selected topics in Latin American history. .

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

HIST6400 - Special Topics: American History - 3 - Credits

Course Overview

Course Prefix
HIST

Course Number
6400

Department
History, Cultures & Ideas

Course Title
Special Topics: American History

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Intensive readings and group discussions of selected topics in American history.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

HIST6410 - Special Topics in Mormon History and Culture - 1 - 3 Credits

Course Overview

Course Prefix
HIST

Course Number
6410

Department
History, Cultures & Ideas

Course Title
Special Topics in Mormon History and Culture

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Intensive readings and group discussions of selected topics in Religious Studies.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

No Requirements

HIST6420 - Special Topics in Religious History - 3 - Credits

Course Overview

Course Prefix
HIST

Course Number
6420

Department
History, Cultures & Ideas

Course Title
Special Topics in Religious History

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Intensive reading and group discussions of selected topics in Religious History

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

HIST6430 - Special Topics: Western American History - 3 - Credits

Course Overview

Course Prefix
HIST

Course Number
6430

Department
History, Cultures & Ideas

Course Title
Special Topics: Western American History

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Intensive readings and group discussions of selected topics in Western American history.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

HIST6460 - Seminar in Environmental History - 3 - Credits

Course Overview

Course Prefix
HIST

Course Number
6460

Department
History, Cultures & Ideas

Course Title
Seminar in Environmental History

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Focuses on historical writings seeking to explain relationship between human society and nature. Many of assigned readings are set in the non-Western world.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

HIST6500 - Archiving Internship - 2 - 4 Credits

Course Overview

Course Prefix
HIST

Course Number
6500

Department
History, Cultures & Ideas

Course Title
Archiving Internship

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Directed internship at a regional archive. Internship should reflect eight to sixteen hours of work per week during the semester.

Credit Hours

Credit Hours Min:
2

Credit Hours Max:
4

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
2

Contact Hours Max:
4

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
2

Billing Hours Max:
4

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
2

Lecture Hours Max:
4

Lecture Hours Operator:
TO

No Requirements

HIST6520 - Editing Internship - 2 - Credits

Course Overview

Course Prefix
HIST

Course Number
6520

Department
History, Cultures & Ideas

Course Title
Editing Internship

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Training in requirements of editorial work in scholarly journals and books. Emphasis placed on editing techniques and mechanics of editorial work.

Credit Hours

Credit Hours Min:
2

Contact Hours

Contact Hours Min:
2

Billing Hours

Billing Hours Min:
2

Lecture Hours

Lecture Hours Min:
2

No Requirements

HIST6540 - Museum Internship - 2 - 4 Credits

Course Overview

Course Prefix
HIST

Course Number
6540

Department
History, Cultures & Ideas

Course Title
Museum Internship

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Directed internship at a regional museum. Internship should reflect eight to sixteen hours of work per week during the semester.

Credit Hours

Credit Hours Min:
2

Credit Hours Max:
4

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
2

Contact Hours Max:
4

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
2

Billing Hours Max:
4

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
2

Lecture Hours Max:
4

Lecture Hours Operator:
TO

No Requirements

HIST6560 - Professional Internship - 2 - 4 Credits

Course Overview

Course Prefix
HIST

Course Number
6560

Department
History, Cultures & Ideas

Course Title
Professional Internship

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Directed internship involving participation in a historical research project for a government agency, corporation, municipality, or some other entity.

Credit Hours

Credit Hours Min:
2

Credit Hours Max:
4

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
2

Contact Hours Max:
4

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
2

Billing Hours Max:
4

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
2

Lecture Hours Max:
4

Lecture Hours Operator:
TO

No Requirements

HIST6580 - Teaching Internship - 2 - Credits

Course Overview

Course Prefix
HIST

Course Number
6580

Department
History, Cultures & Ideas

Course Title
Teaching Internship

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Involves working with the teacher of an upper-division undergraduate course. Intern prepares, explains, and grades one of the written assignments in the course, as well as completing work required of the undergraduates.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

No Requirements

HIST6600 - Introduction to American Studies - 3 - Credits

Course Overview

Course Prefix
HIST

Course Number
6600

Department
History, Cultures & Ideas

Cross-Listed Courses
ENGL6600 - Introduction to American Studies

Course Title

Introduction to American Studies

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides an introduction to the field of American Studies and interdisciplinary scholarship.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

HIST6610 - Seminar on the American West - 3 - 4 Credits

Course Overview

Course Prefix
HIST

Course Number
6610

Department
History, Cultures & Ideas

Cross-Listed Courses
ENGL6610 - Seminar on the American West

Course Title
Seminar on the American West

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Readings and research on topics in the American West. Interdisciplinary focus suitable for graduate students in History and American Studies.

Credit Hours

Credit Hours Min:
3

Credit Hours Max:
4

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
3

Contact Hours Max:
4

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
3

Billing Hours Max:
4

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
3

Lecture Hours Max:
4

Lecture Hours Operator:
TO

No Requirements

HIST6620 - Seminar in Native American Studies - 3 - 4 Credits

Course Overview

Course Prefix
HIST

Course Number
6620

Department
History, Cultures & Ideas

Cross-Listed Courses
ENGL6620 - Seminar in Native American Studies

Course Title
Seminar in Native American Studies

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Readings and research on topics in Native American history and culture. Interdisciplinary focus suitable for graduate students in History and American Studies.

Credit Hours

Credit Hours Min:
3

Credit Hours Max:
4

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
3

Contact Hours Max:
4

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
3

Billing Hours Max:
4

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
3

Lecture Hours Max:
4

Lecture Hours Operator:
TO

No Requirements

HIST6630 - Studies in Film and Popular Culture - 3 - Credits

Course Overview

Course Prefix
HIST

Course Number
6630

Department
History, Cultures & Ideas

Cross-Listed Courses
ENGL6630 - Studies in Film and Popular Culture

Course Title
Studies in Film and Popular Culture

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Offered annually on a rotating basis by professors in folklore and English (Cultural Studies, Literature, British and Commonwealth). Topics and theoretical approaches vary, but the primary focus is on feature films.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

HIST6700 - Introduction to Folklore Studies - 3 - Credits

Course Overview

Course Prefix
HIST

Course Number
6700

Department
History, Cultures & Ideas

Course Title
Introduction to Folklore Studies

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides an introduction to folklore studies. It covers historical and contemporary theories, topics, and approaches.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

HIST6710 - Folklore, Landscape, and Place - 3 - Credits

Course Overview

Course Prefix
HIST

Course Number
6710

Department
History, Cultures & Ideas

Course Title
Folklore, Landscape, and Place

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Study of expressive culture in relation to space and place in social theory. Perspectives range from ideas about landscape and region to globalization.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

HIST6720 - Oral History and Fieldwork Methods - 3 - Credits

Course Overview

Course Prefix
HIST

Course Number
6720

Department
History, Cultures & Ideas

Course Title
Oral History and Fieldwork Methods

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers the basics of oral history and folklore fieldwork methods, including interviewing techniques, the writing of fieldnotes, participant observation, ethics, IRB, and other methods relevant to the fields of oral history and folklore.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

HIST6730 - Public Folklore - 3 - Credits

Course Overview

Course Prefix
HIST

Course Number
6730

Department
History, Cultures & Ideas

Course Title
Public Folklore

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Provides history and analysis of governmental involvement in protecting, promoting, and otherwise manipulating and utilizing cultural heritage.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

HIST6740 - Folk Narrative - 3 - Credits

Course Overview

Course Prefix
HIST

Course Number
6740

Department
History, Cultures & Ideas

Course Title
Folk Narrative

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Covers principal narrative genres in folk tradition (myth, tale, legend, ballad) and the basic theories for their analysis and discussion.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

HIST6750 - Advanced Folklore Workshop (the Fife Conference) - 3 - Credits

Course Overview

Course Prefix
HIST

Course Number
6750

Department
History, Cultures & Ideas

Course Title
Advanced Folklore Workshop (the Fife Conference)

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Intensive workshop focusing on a topic in folklore. Brings in nationally known experts as lecturers and discussants. Taught during one week, every day and all day.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

HIST6760 - Folk Art, Traditional Art, and Material Culture - 3 - Credits

Course Overview

Course Prefix
HIST

Course Number
6760

Department
History, Cultures & Ideas

Course Title
Folk Art, Traditional Art, and Material Culture

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course is a graduate level seminar. Course of study includes the history of the idea of folk art, contemporary and established questions pertaining to vernacular production, and an exploration and analysis of actual objects in relation to theory.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

HIST6770 - Seminar in Folklore and Folklife - 3 - Credits

Course Overview

Course Prefix
HIST

Course Number
6770

Department
History, Cultures & Ideas

Course Title
Seminar in Folklore and Folklife

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Conducts close, professional-level study of major areas of folklore and folklife research.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

HIST6800 - History of Books, Manuscripts, and Paleography - 3 - Credits

Course Overview

Course Prefix
HIST

Course Number
6800

Department
History, Cultures & Ideas

Course Title
History of Books, Manuscripts, and Paleography

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers the history of books and manuscripts, technology of writing, interpretation of hands, and mastery of abbreviations. This course is useful to any student working with old books or manuscripts and essential for those writing theses in premodern European or American history.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Graduate Level

No Requirements

HIST6820 - Writing Scholarly Reviews - 3 - Credits

Course Overview

Course Prefix
HIST

Course Number
6820

Department
History, Cultures & Ideas

Course Title
Writing Scholarly Reviews

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Prepares students for writing, editing, and publishing reviews in their chosen discipline. Taught by book review editors at Western American Literature and Western Historical Quarterly.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

HIST6840 - Archives Management/Archives Internship - 1 - 3 Credits

Course Overview

Course Prefix
HIST

Course Number
6840

Department
History, Cultures & Ideas

Dual-Listed Courses
HIST4945 - Archives Management/Archives Internship

Course Title
Archives Management/Archives Internship

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course examines archival practices in the real world and discusses how archival institutions interact with the public in general and with historians in particular. The instructor uses materials held in USU Special Collections and Archives to teach this course. Additional work is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

No Requirements

HIST6860 - Special Topics in Public History - 1 - 3 Credits

Course Overview

Course Prefix
HIST

Course Number
6860

Department
History, Cultures & Ideas

Course Title
Special Topics in Public History

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
HIST 6860 teaches specific skills historians will find useful in a variety of work and research situations. These skills may include oral history, small town museum management and operation, historic preservation, or digital history.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

No Requirements

HIST6880 - Special Topics: Advanced History Workshop - 1 - 3 Credits

Course Overview

Course Prefix
HIST

Course Number
6880

Department
History, Cultures & Ideas

Course Title
Special Topics: Advanced History Workshop

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
From teaching values of democracy in public school setting to writing publishable biographies, Department of History sponsors advanced credit workshops on a range of subjects.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

HIST6900 - Directed Studies - 1 - 3 Credits

Course Overview

Course Prefix
HIST

Course Number
6900

Department
History, Cultures & Ideas

Course Title
Directed Studies

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Directed readings in any special historical field. For each credit granted, a minimum of four books must be read.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

Special Approval

Instructor permission

No Requirements

HIST6970 - Thesis Research - 1 - 6 Credits

Course Overview

Course Prefix
HIST

Course Number
6970

Department
History, Cultures & Ideas

Course Title
Thesis Research

Grade Mode
Temporary Pass/Fail

Repeat Status
RP

Course Description
This course is designed for students preparing a master's degree thesis.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
6

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
6

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
6

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
6

Lecture Hours Operator:
TO

No Requirements

HIST6990 - Continuing Graduate Advisement - 1 - 6 Credits

Course Overview

Course Prefix
HIST

Course Number
6990

Department
History, Cultures & Ideas

Course Title
Continuing Graduate Advisement

Grade Mode
Temporary Pass/Fail

Repeat Status
RP

Course Description
This course provides graduate students with continued support and advisement. It is usually taken following completion of all coursework required for the degree.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
6

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
6

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
6

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
6

Lecture Hours Operator:
TO

No Requirements

HONR1300 - U.S. Institutions (H) (BAI) - 3 - Credits

Course Overview

Course Prefix
HONR

Course Number
1300

Department
Honors

Course Title
U.S. Institutions (H) (BAI)

General Education Attribute
BAI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Interdisciplinary course providing basic understanding of history, principles, form of government, and economic system of the United States. Open only to students enrolled in USU Honors Program.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Registration Restrictions

Admission to USU Honors Program

No Requirements

HONR1320 - Civilization: Humanities (H)(BHU) - 3 - Credits

Course Overview

Course Prefix
HONR

Course Number
1320

Department
Honors

Course Title
Civilization: Humanities (H)(BHU)

General Education Attribute
BHU

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Interdisciplinary course providing basic understanding of broad range of themes cutting across human history and continuing to be important in contemporary society. Covers both Western and non-Western civilization.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Admission to USU Honors Program

No Requirements

HONR1330 - Civilization: Creative Arts (H)(BCA) - 3 - Credits

Course Overview

Course Prefix
HONR

Course Number
1330

Department
Honors

Course Title
Civilization: Creative Arts (H)(BCA)

General Education Attribute
BCA

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Interdisciplinary course providing basic understanding of broad range of themes cutting across human history and continuing to be important in contemporary society. Covers both Western and non-Western civilization.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Admission to USU Honors Program

No Requirements

HONR1340 - Social Systems and Issues (H)(BSS) - 3 - Credits

Course Overview

Course Prefix
HONR

Course Number
1340

Department
Honors

Course Title
Social Systems and Issues (H)(BSS)

General Education Attribute
BSS

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Interdisciplinary course that considers how a society of self-interested individuals can live together in peace and harmony. Topic explored from perspectives of different disciplines.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Admission to USU Honors Program

No Requirements

HONR1350 - Integrated Life Science (H)(BLS) - 3 - Credits

Course Overview

Course Prefix
HONR

Course Number
1350

Department
Honors

Course Title
Integrated Life Science (H)(BLS)

General Education Attribute
BLS

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Interdisciplinary course focusing on basic concepts of life science. Demonstrates role of modeling, prediction, and observation in the process of scientific discovery, which occurs within an historical and social context.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

HONR1360 - Integrated Physical Science (H)(BPS) - 3 - Credits

Course Overview

Course Prefix
HONR

Course Number
1360

Department
Honors

Course Title
Integrated Physical Science (H)(BPS)

General Education Attribute
BPS

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Interdisciplinary course focusing on basic concepts of physical science, including structure of matter and magnitude and character of the forces of nature. Demonstrates role of modeling, prediction, and observation in the process of scientific discovery, which occurs within an historical and social context.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Admission to USU Honors Program

No Requirements

HONR1900 - Honors Associate Portfolio Preparation - 1 - Credits

Course Overview

Course Prefix
HONR

Course Number
1900

Department
Honors

Course Title
Honors Associate Portfolio Preparation

Grade Mode
Pass/Fail

Repeat Status
NR

Course Description
This course guides associate-degree-seeking Honors students in defining the structure and scope of their required Honors Capstone Portfolio. Students familiarize themselves with University Honors Program requirements, find a faculty mentor, and ultimately submit a proposed portfolio structure.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Registration Restrictions
Admission to the University Honors Program

Special Approval
Honors advisor approval

Course Learning Objectives

Course Learning Outcomes
1. Understand the importance of the Honors Capstone Portfolio in the Associate with Honors curriculum
2. Understand best practices for developing an academic portfolio for the purposes of professional development.
3. Develop a working knowledge of the Canvas application Portfolium, which all students will use to create their Honors Capstone Portfolio.
4. Create a basic portfolio structure for use in developing the final Honors Capstone Portfolio.

HONR2000 - Honors Workshop Series: Special Topics - 1 - 3 Credits

Course Overview

Course Prefix
HONR

Course Number
2000

Department
Honors

Course Title
Honors Workshop Series: Special Topics

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Themed workshop series that introduces honors students to specific topics and skillsets relevant across a range of majors and disciplines; may include guest speakers.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

Registration Restrictions

Admission to the HONORS Associates Degree or HONORS Program

No Requirements

HONR2100 - Research I: Introduction to Honors and Undergraduate Research - 1 - 3 Credits

Course Overview

Course Prefix
HONR

Course Number
2100

Department
Honors

Course Title
Research I: Introduction to Honors and Undergraduate Research

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Introduces honors students to research methods and skills in a particular discipline.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

Registration Restrictions

Admission to the HONORS Associates Degree or the HONORS program

No Requirements

HONR2200 - Research II: Honors Undergraduate Research Practicum - 1 - 3 Credits

Course Overview

Course Prefix
HONR

Course Number
2200

Department
Honors

Course Title
Research II: Honors Undergraduate Research Practicum

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Allows honors students to build upon research skills introduced in HONR 2100 or other relevant foundational research work in a particular discipline.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

Registration Restrictions

Admission to the HONORS Associates Degree or the HONORS program

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- HONR2100 - Research I: Introduction to Honors and Undergraduate Research

HONR2900 - Honors Associate Capstone Portfolio - 2 - Credits

Course Overview

Course Prefix
HONR

Course Number
2900

Department
Honors

Course Title
Honors Associate Capstone Portfolio

Grade Mode
Pass/Fail

Repeat Status
NR

Course Description
Honors students in an associate degree program enroll in this independent-study course in their final semester. They work with a faculty mentor to finalize and complete the Honors Capstone Portfolio, which is required to earn an associate degree with Honors.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Registration Restrictions
Admission to the Honors program

Special Approval
Honors Approval

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- HONR1900 - Honors Associate Portfolio Preparation

Course Learning Objectives

Course Learning Outcomes

· Think critically and reflectively about associate degree coursework by collecting and framing best academic work.

· Develop skill in communicating ideas clearly, effectively, and respectfully while collaborating with a faculty mentor.

· Create an electronic portfolio of best academic work, including all honors courses, experiential learning, and reflective writing.

· Write a meta-reflection on the personal and professional value of the honors student experience in an associate degree program.

HONR3010 - Special Topics: Life and Physical Sciences (DSC/QI/CI) - 3 - Credits

Course Overview

Course Prefix
HONR

Course Number
3010

Department
Honors

Course Title
Special Topics: Life and Physical Sciences (DSC/QI/CI)

General Education Attribute
CI, DSC, QI

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Focuses on basic scientific concepts and methods of inquiry used by scientists. Considers science from a broad perspective, showing how various disciplines are related. Typically, only two or three approved depth designations are offered in each term.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Admission to USU Honors Program

No Requirements

HONR3020 - Special Topics: Humanities/ Creative Arts (H) (CI/DHA) - 3 - Credits

Course Overview

Course Prefix
HONR

Course Number
3020

Department
Honors

Course Title
Special Topics: Humanities/Creative Arts (H) (CI/DHA)

General Education Attribute
CI, DHA

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Humanities section focuses on important historical and contemporary cultural themes, both Western and non-Western. Creative Arts section examines one or more art forms across cultures. Covers several forms of art. Students attend concerts, visit galleries, and attend theatrical performances.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Admission to USU Honors Program

No Requirements

HONR3030 - Special Topics: Social Sciences (H)(DSS/CI/QI) - 3 - Credits

Course Overview

Course Prefix
HONR

Course Number
3030

Department
Honors

Course Title
Special Topics: Social Sciences (H)(DSS/CI/QI)

General Education Attribute
CI, DSS, QI

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Examines one or more social institutions and asks how we live within these structures from the perspectives of different disciplines. Open only to students enrolled in USU Honors Program. Typically, only two or three approved depth designations are offered in each term.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Admission to USU Honors Program

No Requirements

HONR3035 - Experiential Learning: Special Topics - 1 - 3 Credits

Course Overview

Course Prefix
HONR

Course Number
3035

Department
Honors

Course Title
Experiential Learning: Special Topics

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Engages honors students in applied learning related to a specific topic or area of inquiry. May include place-based learning of any kind.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

Registration Restrictions
Admission to the HONORS program

No Requirements

HONR3070 - Honors Interdisciplinary Depth (DHA/DSC/DSS) - 3 - 6 Credits

Course Overview

Course Prefix
HONR

Course Number
3070

Department
Honors

Cross-Listed Courses
USU3070 - Interdisciplinary Depth (DHA/DSC/DSS)

Course Title
Honors Interdisciplinary Depth (DHA/DSC/DSS)

General Education Attribute
DHA, DSC, DSS

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Course may combine two or three depth categories (DHA, DSC, DSS) in a variable 3-6 credit course covering 1 - 2 semesters. Usually team-taught and may include service learning, fieldwork, or undergraduate research. Course fulfills one depth requirement per semester of student enrollment (up to two for a yearlong course).

Credit Hours

Credit Hours Min:
3

Credit Hours Max:
6

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
3

Contact Hours Max:
6

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
3

Billing Hours Max:
6

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
3

Lecture Hours Max:
6

Lecture Hours Operator:
TO

Registration Restrictions
Admission to USU Honors Program

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete at least 1 course in the following course sets:

- Quantitative Literacy (QL) Course
- Communications Literacy (CL1) Course
- Communications Literacy (CL2) Course

Also must meet breadth graduation requirements

HONR3071 - Honors Interdisciplinary Depth Part 1 (DHA/DSC/DSS) - 3 - Credits

Course Overview

Course Prefix
HONR

Course Number
3071

Department
Honors

Course Title
Honors Interdisciplinary Depth Part 1 (DHA/DSC/DSS)

General Education Attribute
DHA, DSC, DSS

Grade Mode
Standard Letter

Repeat Status
RP

Course Description

First half of a two-semester course sequence that combines two of three depth categories (DHA, DSC, DSS). Students must complete the second half of the course to achieve the depth designation.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Admission to USU Honors Program

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete at least 1 course in the following course sets:

- Quantitative Literacy (QL) Course
- Communications Literacy (CL1) Course
- Communications Literacy (CL2) Course

Also must meet breadth graduation requirements

HONR3072 - Honors Interdisciplinary Depth, Part 2 (DHA/DSC/DSS) - 3 - Credits

Course Overview

Course Prefix
HONR

Course Number
3072

Department
Honors

Course Title
Honors Interdisciplinary Depth, Part 2 (DHA/DSC/DSS)

General Education Attribute
DHA, DSC, DSS

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Second half of a two-semester course sequence that combines two of three depth categories (DHA, DSC, DSS). This half of the course bears the depth designation. Students are expected to take both semesters.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Admission to USU Honors Program

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete at least 1 course in the following course sets:

- Quantitative Literacy (QL) Course
- Communications Literacy (CL1) Course
- Communications Literacy (CL2) Course

Also must meet breadth graduation requirements

HONR3900 - Honors Capstone Preparation and Proposal - 1 - Credits

Course Overview

Course Prefix
HONR

Course Number
3900

Department
Honors

Course Title
Honors Capstone Preparation and Proposal

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
This course guides students as they define the topic and scope of their honors capstone projects. Students familiarize themselves with University Honors Program requirements, find a faculty mentor, and ultimately submit capstone project proposals.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Registration Restrictions
Admission to the University Honors Program and active, successive achievement of milestones for honors graduation

HONR4000 - Building on the Honors Book Lab - 1 - 3 Credits

Course Overview

Course Prefix
HONR

Course Number
4000

Department
Honors

Course Title
Building on the Honors Book Lab

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Deeper exploration of a topic initially raised in an Honors Book Lab.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

Registration Restrictions
Admission to the HONORS program

No Requirements

HONR4700 - Honors Fellows - 0.5 - Credits

Course Overview

Course Prefix
HONR

Course Number
4700

Department
Honors

Course Title
Honors Fellows

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Upper-division Honors students assist in leading Honors seminars and tutorials.

Credit Hours

Credit Hours Min:
0.5

Contact Hours

Contact Hours Min:
0.5

Billing Hours

Billing Hours Min:
0.5

Lecture Hours

Lecture Hours Min:
0.5

No Requirements

HONR4800 - Thesis/Project Seminar - 1 - Credits

Course Overview

Course Prefix
HONR

Course Number
4800

Department
Honors

Course Title
Thesis/Project Seminar

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Oral presentation and discussion of Honors senior theses/projects. Guest presentations focus on essential contrasts and similarities in "ways of knowing" among various academic specialties.

Credit Hours

Credit Hours Min:
1

Contact Hours

Contact Hours Min:
1

Billing Hours

Billing Hours Min:
1

Lecture Hours

Lecture Hours Min:
1

No Requirements

HONR4900 - Honors Thesis/Capstone (H)(CI) - 1 - 3 Credits

Course Overview

Course Prefix
HONR

Course Number
4900

Department
Honors

Course Title
Honors Thesis/Capstone (H)(CI)

General Education Attribute
CI

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
All honors students are required to submit a senior thesis/project for graduation with an honors degree. Thesis/project may be in any area of student's choice, prepared in cooperation with an advisor drawn from the faculty at large.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

No Requirements

IAD1700 - Seminar Series in Interior Architecture and Design - 1 - Credits

Course Overview

Course Prefix
IAD

Course Number
1700

Department
Art and Design

Course Title
Seminar Series in Interior Architecture and Design

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course employs weekly seminars to provide an orientation to the professional aspects of interior design. It includes exploration of related careers and professional societies. Outside speakers are invited to participate. The course is repeatable for up to eight credits.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Registration Restrictions

Admission to the Interior Architecture and Design major or pre-major

No Requirements

IAD1750 - Design in Everyday Living (BCA) - 3 - Credits

Course Overview

Course Prefix
IAD

Course Number
1750

Department
Art and Design

Course Title
Design in Everyday Living (BCA)

General Education Attribute
BCA

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Investigation of the basic elements and principles of design related to everyday living experiences and the practical application of relevant theory.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

IAD1760 - Rapid Visualization in Interior Architecture and Design - 3 - Credits

Course Overview

Course Prefix
IAD

Course Number
1760

Department
Art and Design

Course Title
Rapid Visualization in Interior Architecture and Design

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students develop and hone abilities in various types of rapid visualization in interior architecture and design.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

IAD1780 - History of Architecture, Interiors, and Furnishings II - 3 - Credits

Course Overview

Course Prefix
IAD

Course Number
1780

Department
Art and Design

Course Title
History of Architecture, Interiors, and Furnishings II

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course involves the identification of historical architectural styles and elements in interior furnishings and materials, dating from the Industrial Revolution to the present.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Admission to the Interior Architecture and Design - BIAD program or pre-program

No Requirements

IAD1790 - Foundations in Interior Architecture and Design - 3 - Credits

Course Overview

Course Prefix
IAD

Course Number
1790

Department
Art and Design

Course Title
Foundations in Interior Architecture and Design

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course explores basic philosophy of interior design. Students analyze design elements and principles when applied to interior spaces. The course includes evaluation of contemporary design theories as factors influencing design trends.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Admission to the Interior Architecture and Design major or pre-major

No Requirements

IAD2710 - Architectural Graphics I - 3 - Credits

Course Overview

Course Prefix
IAD

Course Number
2710

Department
Art and Design

Course Title
Architectural Graphics I

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Competency development in use of drafting tools, symbols, and techniques used in interior design presentation. Includes communication skills related to techniques and approaches to graphic presentations of interior design solutions: floor plans, elevations, sections, axonometrics, details, and dimensioning.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Bachelors of Interior Design (BID) majors only

No Requirements

IAD2720 - Architectural Graphics II - 3 - Credits

Course Overview

Course Prefix
IAD

Course Number
2720

Department
Art and Design

Course Title
Architectural Graphics II

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Introduction to three-dimensional drawing: isometric and perspective. Development of methods of rapid graphic communication techniques and approaches to complete professional presentations. Exploration of various types of media and presentation methods.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- IAD2710 - Architectural Graphics I

IAD2730 - Space Planning and Human Factors - 3 - Credits

Course Overview

Course Prefix
IAD

Course Number
2730

Department
Art and Design

Course Title
Space Planning and Human Factors

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course focuses on physical, psychological, and human factors influencing design of interior space. It includes research, programming, analysis, and design of residential and nonresidential spaces.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- IAD2710 - Architectural Graphics I

IAD2750 - Computer Aided Drafting and Design I - 3 - Credits

Course Overview

Course Prefix
IAD

Course Number
2750

Department
Art and Design

Course Title
Computer Aided Drafting and Design I

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Introduction to computer aided drafting and design for design students.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Bachelors of Interior Design (BID) majors only

No Requirements

IAD2760 - Computer Aided Drafting and Design II - 3 - Credits

Course Overview

Course Prefix
IAD

Course Number
2760

Department
Art and Design

Course Title
Computer Aided Drafting and Design II

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Advanced exploration and study of computer aided design, creative applications, and proficiencies.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Required

Type
Prerequisite

Required

Complete ALL of the following Courses:

- IAD2750 - Computer Aided Drafting and Design I

IAD2770 - History of Architecture, Interiors, and Furnishings I - 3 - Credits

Course Overview

Course Prefix
IAD

Course Number
2770

Department
Art and Design

Course Title
History of Architecture, Interiors, and Furnishings I

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Identification of historical architectural styles and elements in interior furnishings and materials, dating from Antiquity through the Renaissance, French, English and American periods up to the Industrial Revolution.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Admission to the Bachelor of Interior Design program

No Requirements

IAD2790 - Environmental Design for Interiors - 3 - Credits

Course Overview

Course Prefix
IAD

Course Number
2790

Department
Art and Design

Course Title
Environmental Design for Interiors

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students study global environmental issues and their impact on the design process, including the history, principles and theories of sustainability, life-cycle design practices, relevant green design terminology, and the LEED Green Building Rating System. LEED is an internationally recognized green building certification system.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Admission to Interior Architecture and Design - BIAD major

Special Approval

Advisor approval

No Requirements

IAD3710 - Pre-Internship in Interior Architecture and Design - 1 - Credits

Course Overview

Course Prefix
IAD

Course Number
3710

Department
Art and Design

Course Title
Pre-Internship in Interior Architecture and Design

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course prepares students for the Interior Design Advanced Internship course (IAD 4710), which includes designing a cover letter, resume, and portfolio.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Registration Restrictions

- Admission to the Interior Architecture and Design major
- Junior or senior class standing

No Requirements

IAD3730 - Interior Materials and Construction (QI) - 3 - Credits

Course Overview

Course Prefix
IAD

Course Number
3730

Department
Art and Design

Course Title
Interior Materials and Construction (QI)

General Education Attribute
QI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Identification of current interior materials; their characteristics, use, and care. Experience in specification estimation, workroom procedures, and development of a working resource file.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- IAD2730 - Space Planning and Human Factors

IAD3740 - Visual Communication in Interior Architecture and Design - 3 - Credits

Course Overview

Course Prefix
IAD

Course Number
3740

Department
Art and Design

Course Title
Visual Communication in Interior Architecture and Design

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces software specifically related to the discipline of interior design. Students learn computer techniques using personal computers and related peripherals.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Admission to the Interior Architecture and Design major

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- IAD3730 - Interior Materials and Construction (QI)
- IAD3760 - Commercial Design Studio

IAD3760 - Commercial Design Studio - 3 - Credits

Course Overview

Course Prefix
IAD

Course Number
3760

Department
Art and Design

Course Title
Commercial Design Studio

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Studio projects of various complexity and type, having commercial focus. May include hospitality, retail, medical, office, and other commercial and institutional design opportunities.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- IAD2730 - Space Planning and Human Factors

IAD3770 - Residential Design Studio - 3 - Credits

Course Overview

Course Prefix
IAD

Course Number
3770

Department
Art and Design

Course Title
Residential Design Studio

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Studio projects of various complexity and type, having residential focus. Analysis of various approaches to problem solving. Graphic and verbal presentation, emphasizing high-end design evaluation.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- IAD3760 - Commercial Design Studio

IAD3790 - Architectural Systems - 3 - Credits

Course Overview

Course Prefix
IAD

Course Number
3790

Department
Art and Design

Course Title
Architectural Systems

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Study of architectural systems in contemporary buildings. Investigation of construction drawings and their interpretation. Includes related codes and professional terminology.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Bachelors of Interior Design (BID) majors only

No Requirements

IAD4700 - Topics in Interior Architecture and Design - 3 - Credits

Course Overview

Course Prefix
IAD

Course Number
4700

Department
Art and Design

Course Title
Topics in Interior Architecture and Design

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course addresses current topics associated with interior design.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

- Admission to the Interior Architecture and Design - BIAD major
- Junior or senior class standing

No Requirements

IAD4710 - Internship in Interior Architecture and Design - 3 - Credits

Course Overview

Course Prefix
IAD

Course Number
4710

Department
Art and Design

Course Title
Internship in Interior Architecture and Design

Grade Mode
Temporary Standard Letter

Repeat Status
RP

Course Description
This course provides interior design experience in applying skills and knowledge in businesses and community agencies.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

- Admission to the Interior Architecture and Design - BIAD major
- Junior or senior class standing

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- IAD3710 - Pre-Internship in Interior Architecture and Design
- IAD3760 - Commercial Design Studio
- IAD3770 - Residential Design Studio

IAD4740 - Business and Professional Practices in Interior Architecture and Design (CI) - 3 - Credits

Course Overview

Course Prefix
IAD

Course Number
4740

Department
Art and Design

Course Title
Business and Professional Practices in Interior Architecture and Design (CI)

General Education Attribute
CI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides an overview of business practices and principles for interior design, including: salesmanship, marketing, client and trade relationships, establishing an interior design practice, and fee structure.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- IAD4710 - Internship in Interior Architecture and Design

IAD4750 - Senior Design Studio I - 3 - Credits

Course Overview

Course Prefix
IAD

Course Number
4750

Department
Art and Design

Course Title
Senior Design Studio I

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course entails interior design projects focusing on research, programming, schematics, space planning, project specifications, and presentation.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- IAD3770 - Residential Design Studio
- IAD4790 - Building Information Modeling in Interior Architecture and Design

IAD4760 - Senior Design Studio II - 3 - Credits

Course Overview

Course Prefix
IAD

Course Number
4760

Department
Art and Design

Course Title
Senior Design Studio II

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Interior design projects include finish selections, specifications, construction document development, and project presentation.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- IAD4750 - Senior Design Studio I

IAD4770 - Senior Exhibit - 1 - Credits

Course Overview

Course Prefix
IAD

Course Number
4770

Department
Art and Design

Course Title
Senior Exhibit

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Analysis and review of student work in preparation for formal exhibition.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- IAD4750 - Senior Design Studio I

IAD4780 - Interior Architecture and Design Travel Course - 1 - 9 Credits

Course Overview

Course Prefix
IAD

Course Number
4780

Department
Art and Design

Course Title
Interior Architecture and Design Travel Course

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Students engage in travel experiences geared toward the examination of design in various geographical locations, both within the United States and abroad.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
9

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
9

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
9

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
9

Lecture Hours Operator:
TO

No Requirements

IAD4790 - Building Information Modeling in Interior Architecture and Design - 3 - Credits

Course Overview

Course Prefix
IAD

Course Number
4790

Department
Art and Design

Dual-Listed Courses
IAD6760 - Building Information Modeling in Interior Architecture and Design

Course Title
Building Information Modeling in Interior Architecture and Design

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students produce a model of interior spaces using contemporary modeling software. Graduate students complete an animation in addition to the regular assignments. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- IAD2760 - Computer Aided Drafting and Design II

IAD4900 - Independent Study in Interior Architecture and Design - 1 - 5 Credits

Course Overview

Course Prefix
IAD

Course Number
4900

Department
Art and Design

Course Title
Independent Study in Interior Architecture and Design

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Students engage in focused independent activities and must identify a project or topic of interest and discuss with proposed instructor.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
5

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
5

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
5

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
5

Lecture Hours Operator:
TO

Registration Restrictions
Admission to the Interior Architecture and Design - BIAD major

Special Approval
Instructor permission

No Requirements

IAD4910 - Creative Projects - 1 - 4 Credits

Course Overview

Course Prefix
IAD

Course Number
4910

Department
Art and Design

Course Title
Creative Projects

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Creative project or practicum conducted under direction of faculty member. Topic may be initiated by student or faculty.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
4

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
4

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
4

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
4

Lecture Hours Operator:
TO

Registration Restrictions
Junior class standing

Special Approval
Instructor permission

No Requirements

IAD6700 - Graduate Topics in Interior Architecture and Design - 1 - 6 Credits

Course Overview

Course Prefix
IAD

Course Number
6700

Department
Art and Design

Course Title
Graduate Topics in Interior Architecture and Design

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Students engage in readings and research supporting an individual graduate thesis.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
6

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
6

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
6

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
6

Lecture Hours Operator:
TO

No Requirements

IAD6710 - Graduate Internship in Interior Architecture and Design - 1 - 3 Credits

Course Overview

Course Prefix
IAD

Course Number
6710

Department
Art and Design

Course Title
Graduate Internship in Interior Architecture and Design

Grade Mode
Temporary Standard Letter

Repeat Status
RP

Course Description
This course entails an advanced internship at a professional level, with increased complexity.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

Special Approval
Instructor permission

No Requirements

IAD6720 - Research Methods in Interior Architecture and Design - 3 - Credits

Course Overview

Course Prefix
IAD

Course Number
6720

Department
Art and Design

Course Title
Research Methods in Interior Architecture and Design

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students explore basic to advanced concepts contained in research as applicable to Interior Architecture and Design.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

IAD6730 - Interior Architecture and Design Graduate Studio - 1 - 6 Credits

Course Overview

Course Prefix
IAD

Course Number
6730

Department
Art and Design

Course Title
Interior Architecture and Design Graduate Studio

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course requires research, analysis, and production of a given subject area, including its final planning, design, and documentation. Students plan projects and execute them through individual initiatives and scheduled consultations with the instructor.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
6

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
6

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
6

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
6

Lecture Hours Operator:
TO

Registration Restrictions
Admission to the MFA program

Special Approval
Instructor permission

No Requirements

IAD6740 - Advanced Interior Architecture and Design Theory - 3 - Credits

Course Overview

Course Prefix
IAD

Course Number
6740

Department
Art and Design

Course Title
Advanced Interior Architecture and Design Theory

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course surveys the history of interior design theory from its architectural, decorative, and societal beginnings to the present. It requires analysis and application of critical thought.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Registration Restrictions

Admission to the MFA program

No Requirements

IAD6750 - Readings in Interior Architecture and Design - 1 - 3 Credits

Course Overview

Course Prefix
IAD

Course Number
6750

Department
Art and Design

Course Title
Readings in Interior Architecture and Design

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course includes readings about the creative process, post-occupancy evaluation, culture and environment, and design forecasting. It is repeatable for up to three credits.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

Registration Restrictions

Admission to the MFA program

No Requirements

IAD6760 - Building Information Modeling in Interior Architecture and Design - 3 - Credits

Course Overview

Course Prefix
IAD

Course Number
6760

Department
Art and Design

Dual-Listed Courses
IAD4790 - Building Information Modeling in Interior Architecture and Design

Course Title
Building Information Modeling in Interior Architecture and Design

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students produce a model of interior spaces using contemporary modeling software. Graduate students complete an animation in addition to the regular assignments. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Admission to the Master of Fine Arts program

Special Approval
Instructor permission

IAD6770 - Facilities Planning and Management - 3 - Credits

Course Overview

Course Prefix
IAD

Course Number
6770

Department
Art and Design

Course Title
Facilities Planning and Management

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Facilities management process in large-scale organizations. Formation of facilities policies, procedures, and standards. The facilities data base, space allocations, and management process.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

IAD6780 - Design Methodologies in Interior Architecture and Design - 3 - Credits

Course Overview

Course Prefix
IAD

Course Number
6780

Department
Art and Design

Course Title
Design Methodologies in Interior Architecture and Design

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students identify and define various design methodologies with regard to design solutions for interior environments.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Registration Restrictions

Admission to the MFA program

No Requirements

IAD6790 - Master's Seminar in Interior Architecture and Design - 1 - 6 Credits

Course Overview

Course Prefix
IAD

Course Number
6790

Department
Art and Design

Course Title
Master's Seminar in Interior Architecture and Design

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course provides a focused study of selected topics.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
6

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
6

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
6

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
6

Lecture Hours Operator:
TO

Registration Restrictions

Admission to the MFA program

No Requirements

IAD6900 - Special Problems - 1 - 3 Credits

Course Overview

Course Prefix
IAD

Course Number
6900

Department
Art and Design

Course Title
Special Problems

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Selected problems to meet individual student interests and areas of concentration.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

Registration Restrictions

Special Approval
Instructor permission

No Requirements

IAD6970 - Master's Thesis Research in Interior Architecture and Design - 1 - 6 Credits

Course Overview

Course Prefix
IAD

Course Number
6970

Department
Art and Design

Course Title
Master's Thesis Research in Interior Architecture and Design

Grade Mode
Temporary Pass/Fail

Repeat Status
RP

Course Description
This course is designed for students preparing a master’s degree thesis.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
6

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
6

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
6

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
6

Lecture Hours Operator:
TO

Registration Restrictions

Admission to the MFA program

No Requirements

IAD6990 - Continuing Graduate Advisement - 1 - 3 Credits

Course Overview

Course Prefix
IAD

Course Number
6990

Department
Art and Design

Course Title
Continuing Graduate Advisement

Grade Mode
Temporary Pass/Fail

Repeat Status
RP

Course Description
This course provides graduate students with continued support and advisement. It is usually taken following completion of all coursework required for the degree.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

No Requirements

IELI1900 - Intermediate Topics in ESL and U.S. Culture - 1 - 3 Credits

Course Overview

Course Prefix
IELI

Course Number
1900

Department
World Languages and Cultures

Course Title
Intermediate Topics in ESL and U.S. Culture

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
English as a Second Language study on specific topics or themes. Selected intermediate level language activities will be assigned to allow students to explore aspects of U.S. culture. This course is NOT part of the IELI core curriculum.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

No Requirements

IOGP4850 - Public Policy and Community Leadership - 1 - Credits

Course Overview

Course Prefix
IOGP

Course Number
4850

Department
School of Social Sciences

Cross-Listed Courses
POLS4850 - Public Policy and Community Leadership

Course Title
Public Policy and Community Leadership

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
This course introduces students to the challenges and opportunities faced by working professionals and citizens whose work involves leadership and/or diplomacy in a variety of issue areas and settings.

Credit Hours

Credit Hours Min:
1

Contact Hours

Contact Hours Min:
1

Billing Hours

Billing Hours Min:
1

Lecture Hours

Lecture Hours Min:
1

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete at least 1 of the following courses:

- CMST1330 - Introduction to Global Communication (BSS)
- CMST2110 - Interpersonal Communication (BHU)
- POLS1100 - United States Government and Politics (BAI)
- POLS2100 - Introduction to International Relations (BSS)
- POLS2200 - Comparative Politics (BSS)
- POLS2430 - Contemporary Geopolitics (BSS)

IOGP5900 - Government and Policy Internship Seminar - 3 - Credits

Course Overview

Course Prefix
IOGP

Course Number
5900

Department
School of Social Sciences

Course Title
Government and Policy Internship Seminar

Grade Mode
Pass/Fail

Repeat Status
NR

Course Description
A semester government and policy internship seminar in Washington, DC or in Salt Lake City, UT

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

IOGP5910 - Campaign Internship - 1 - 9 Credits

Course Overview

Course Prefix
IOGP

Course Number
5910

Department
School of Social Sciences

Course Title
Campaign Internship

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
A semester long campaign internship in Washington, DC or in Salt Lake City, UT

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
9

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
9

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
9

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
9

Lecture Hours Operator:
TO

IOGP5920 - Washington Internship - 1 - 9 Credits

Course Overview

Course Prefix
IOGP

Course Number
5920

Department
School of Social Sciences

Course Title
Washington Internship

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
A semester long internship in Washington, DC.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
9

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
9

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
9

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
9

Lecture Hours Operator:
TO

IOGP5930 - State and Local Government Internship - 0.5 - 9 Credits

Course Overview

Course Prefix
IOGP

Course Number
5930

Department
School of Social Sciences

Course Title
State and Local Government Internship

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
A semester long internship in either local or state government.

Credit Hours

Credit Hours Min:
0.5

Credit Hours Max:
9

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
0.5

Contact Hours Max:
9

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
0.5

Billing Hours Max:
9

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
0.5

Lecture Hours Max:
9

Lecture Hours Operator:
TO

IOGP5940 - Administrative Internship - 1 - 9 Credits

Course Overview

Course Prefix
IOGP

Course Number
5940

Department
School of Social Sciences

Course Title
Administrative Internship

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
A semester long internship in either local or state government

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
9

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
9

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
9

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
9

Lecture Hours Operator:
TO

IOGP5950 - International Internship - 1 - 9 Credits

Course Overview

Course Prefix
IOGP

Course Number
5950

Department
School of Social Sciences

Course Title
International Internship

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
A semester long international internship

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
9

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
9

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
9

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
9

Lecture Hours Operator:
TO

IS3700 - User Interface/User Experience Web Design - 3 - Credits

Course Overview

Course Prefix
IS

Course Number
3700

Department
Data Analytics & Information Systems

Course Title
User Interface/User Experience Web Design

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students learn to plan, design, develop, and maintain effective and compelling websites that follow current web standards and embody the principles of User Interface (UI) and User Experience (UX) design. Practical, skills-based learning focuses on HTML, CSS, and JavaScript.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- DATA2100 - Data and Information in Business
  OR OSS2450 - Spreadsheets and Databases

IS4250 - Data Analytics and Information Systems Internship - 1 - 3 Credits

Course Overview

Course Prefix
IS

Course Number
4250

Department
Data Analytics & Information Systems

Course Title
Data Analytics and Information Systems Internship

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
This course provides data analytics and information systems internship experience in a career-related position approved by the Department of Data Analytics and Information Systems. No more than three credits can be applied to fulfill major requirements.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

Special Approval
Instructor permission

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- DATA3330 - Database Management (Inactive)
- DATA3500 - Introduction to Python Programming (Inactive)

IS4950 - Senior Honors Thesis/Project - 3 - Credits

Course Overview

Course Prefix
IS

Course Number
4950

Department
Data Analytics & Information Systems

Course Title
Senior Honors Thesis/Project

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course consists of a creative project that will then be written up and presented as a Senior Thesis as required for an Honors Plan.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

IS5100 - Agile Tech Design and Development - 3 - Credits

Course Overview

Course Prefix
IS

Course Number
5100

Department
Data Analytics & Information Systems

Dual-Listed Courses
IS6100 - Agile Tech Design and Development

Course Title
Agile Tech Design and Development

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
In tech environments of rapid change and uncertainty the proven way to survive and thrive requires Agile principles and methods. This course immerses participants in Agile as they learn, practice and adapt their skills in planning, prioritizing and delivering projects. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- DATA3500 - Introduction to Python Programming (Inactive)
  OR CS1400 - Introduction to Computer Science--CS 1

IS5150 - Special Topics: New Technologies in Data Analytics and Information Systems - 1 - 3 Credits

Course Overview

Course Prefix
IS

Course Number
5150

Department
Data Analytics & Information Systems

Course Title
Special Topics: New Technologies in Data Analytics and Information Systems

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course introduces new technologies or methods not covered in regular courses. It is repeatable for credit only when students enroll for topics for which they have not previously received credit.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- DATA3330 - Database Management (Inactive)
- DATA3500 - Introduction to Python Programming (Inactive)

IS5170 - Applied Tech Innovation - 3 - Credits

Course Overview

Course Prefix
IS

Course Number
5170

Department
Data Analytics & Information Systems

Dual-Listed Courses
IS6170 - Applied Tech Innovation

Course Title
Applied Tech Innovation

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Applied Tech Innovation equips entrepreneurial-minded Aggies with the knowledge, skills, and mindset required to launch successful technology startups. It is ideal for individuals passionate about innovation, who desire to solve real-world problems, and who are driven to create impact through technology. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

IS5180 - Tech Innovation Implementation and Commercialization - 3 - Credits

Course Overview

Course Prefix
IS

Course Number
5180

Department
Data Analytics & Information Systems

Dual-Listed Courses
IS6180 - Tech Innovation Implementation and Commercialization

Course Title
Tech Innovation Implementation and Commercialization

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
The course focuses on implementing and monetizing innovations, moving beyond idea generation to resource gathering and commercialization. Students implement their innovation based on market feedback and attempt to commercially launch their technical product. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Special Approval
Instructor permission

Simple Requisites

Corequisite

Type
Corequisite

Required

Enroll in the following Courses:

- IS5181 - Tech Innovation Implementation and Commercialization Laboratory

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- IS5170 - Applied Tech Innovation

IS5181 - Tech Innovation Implementation and Commercialization Laboratory - 3 - Credits

Course Overview

Course Prefix
IS

Course Number
5181

Department
Data Analytics & Information Systems

Dual-Listed Courses

IS6181 - Tech Innovation Implementation and Commercialization Laboratory

Course Title

Tech Innovation Implementation and Commercialization Laboratory

Grade Mode
Standard Letter

Repeat Status
NR

Course Description

Students engage with target markets and customers outside the classroom to experiment with IT product concepts. They collect and implement feedback to refine their ideas, fostering real-world experience in developing, testing, and adapting products for market success. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Special Approval

Instructor permission

Simple Requisites

Corequisite

Type
Corequisite

Required

Enroll in the following Courses:

- IS5180 - Tech Innovation Implementation and Commercialization

IS5200 - Introduction to Cloud Computing - 3 - Credits

Course Overview

Course Prefix
IS

Course Number
5200

Department
Data Analytics & Information Systems

Dual-Listed Courses
IS6200 - Introduction to Cloud Computing

Course Title
Introduction to Cloud Computing

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides an introduction and overview of the fundamentals of cloud computing and the tools necessary for scalable, reliable, and secure deployment of cloud applications. Students are introduced to services and tools available from large cloud providers. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

IS5700 - User Interface/User Experience Web Design - 3 - Credits

Course Overview

Course Prefix
IS

Course Number
5700

Department
Data Analytics & Information Systems

Dual-Listed Courses
IS6700 - User Interface/User Experience Web Design

Course Title
User Interface/User Experience Web Design

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students learn to plan, design, develop, and maintain effective and compelling websites that follow current web standards and embody the principles of User Interface (UI) and User Experience (UX) design. Practical, skills-based learning focuses on HTML, CSS, and JavaScript. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Other Enrollment Recommendations
Prior coursework or experience with elementary programming and databases is recommended.

IS5750 - JavaScript for Web Development - 2 - Credits

Course Overview

Course Prefix
IS

Course Number
5750

Department
Data Analytics & Information Systems

Dual-Listed Courses
IS6750 - JavaScript for Web Development

Course Title
JavaScript for Web Development

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students learn the basics of JavaScript to create dynamic, interactive web content. This course covers essential programming concepts, Document Object Model (DOM) manipulation, and event handling, providing the skills needed to build user-friendly websites. No prior programming experience required. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

IS5770 - Advanced Server-Side Web Application Development - 3 - Credits

Course Overview

Course Prefix
IS

Course Number
5770

Department
Data Analytics & Information Systems

Dual-Listed Courses
IS6770 - Advanced Server-Side Web Application Development

Course Title
Advanced Server-Side Web Application Development

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students learn to design, develop, and deploy data-driven web applications using server-side JavaScript frameworks (Node.js). The course covers server-side application architecture, database implementation and connectivity, user authentication and security, session management, and REST API development. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Other Enrollment Recommendations
Completion of IS 5750 or prior introductory JavaScript experience is recommended.

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- DATA3300 - Introduction to Modern Data Analytics (QI)

AND IS5700 - User Interface/User Experience Web Design

Required

Complete ANY of the following Courses:

- DATA5500 - Python Programming for Analytics
  AND CS1400 - Introduction to Computer Science--CS 1

Course Learning Objectives

Course Learning Outcomes

Students successfully completing this course will be able to:

- Describe what Node.js is and why it is used
- Understand the major components of a server-side web application and how data is transmitted/received via the HTTP protocol
- Instantiate a web server and load files to the browser using Node.js native modules
- Understand and implement modular application design using the MVC architecture
- Use a web framework (Express.js) to route web request and implement application logic via middleware
- Create a data model with a database back-end and perform CRUD operations on the data
- Store and manage user data and implement user authentication
- Develop a RESTful API and consume data from other APIs
- Deploy a web application to production

IS5780 - Advanced Client-Side Web Application Development - 3 - Credits

Course Overview

Course Prefix
IS

Course Number
5780

Department
Data Analytics & Information Systems

Dual-Listed Courses

IS6780 - Advanced Client-Side Web Application Development

Course Title

Advanced Client-Side Web Application Development

Grade Mode
Standard Letter

Repeat Status
NR

Course Description

Students learn to design, develop, and deploy data-driven web applications using client-side JavaScript frameworks (React.js). The course focuses on component-based application architecture, database connectivity, and consumption of external API data. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- IS5770 - Advanced Server-Side Web Application Development

Course Learning Objectives

Course Learning Outcomes

Students successfully completing this course will be able to:

- Define what React.js is and why it is used
- Understand the major components of a client-side web application and how data is transmitted/received via the HTTP protocol
- Develop reusable user interface components that receive data and interact with other components
- Architect a modular interface that consists of composition of components
- Use CSS to style components
- Understand what state is and how to manage and update state
- Use asynchronous JavaScript calls to external API endpoints to retrieve and display data
- Deploy a web application to production

IS5800 - Networks - 3 - Credits

Course Overview

Course Prefix
IS

Course Number
5800

Department
Data Analytics & Information Systems

Dual-Listed Courses

IS6800 - Networks

Course Title

Networks

Grade Mode
Standard Letter

Repeat Status
NR

Course Description

Students master the essential principles by which the internet and data communication are made possible. They learn how to speak binary, phrase protocols, leverage layers, and build pi-hole. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

IS5810 - Introduction to Cybersecurity - 3 - Credits

Course Overview

Course Prefix
IS

Course Number
5810

Department
Data Analytics & Information Systems

Dual-Listed Courses
IS6810 - Introduction to Cybersecurity

Course Title
Introduction to Cybersecurity

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces students to the field of information security, with hands-on exercises in information, network, and physical security and real-world demonstrations of hardening and exploiting systems. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:
- DATA2100 - Data and Information in Business
- DATA5500 - Python Programming for Analytics
  OR CS1400 - Introduction to Computer Science--CS 1

Corequistes

Type
Corequisite

Required

Enroll in the following Courses:
- IS5800 - Networks

Course Learning Objectives

Course Learning Outcomes
Students completing this course will be able to:
1. Understand foundational principles of cybersecurity relevant to protecting information, systems, and physical assets.
2. Engage with introductory cybersecurity tools and practices through hands-on activities.
3. Discuss cybersecurity threats, risks, and safeguards and their significance in organizational and real-world contexts.

IS5820 - Cybersecurity Detection, Response, and Intelligence - 3 - Credits

Course Overview

Course Prefix
IS

Course Number
5820

Department
Data Analytics & Information Systems

Dual-Listed Courses
IS6820 - Cybersecurity Detection, Response, and Intelligence

Course Title
Cybersecurity Detection, Response, and Intelligence

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students use tools and techniques to secure and analyze large networks. Class sessions focus on hands-on labs to write intrusion detection rules (IDS), perform forensic investigation of hard drives, learn advanced packet analysis and learn techniques for penetration testing. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:
- IS5810 - Introduction to Cybersecurity

Corequisite

Type
Corequisite

Required

Enroll in the following Courses:
- DATA5300 - Database Management

IS5850 - Enterprise Security: Advanced Arithmancy Studies - 3 - Credits

Course Overview

Course Prefix
IS

Course Number
5850

Department
Data Analytics & Information Systems

Course Title
Enterprise Security: Advanced Arithmancy Studies

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course explores why networks no longer lie behind a corporate firewall, but now combine systems on-site, in the cloud and through software as a service. This course connects these strategies to protect a modern enterprise.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:
- IS5800 - Networks

IS5880 - Digital Forensics - 3 - Credits

Course Overview

Course Prefix
IS

Course Number
5880

Department
Data Analytics & Information Systems

Dual-Listed Courses
IS6880 - Digital Forensics

Course Title
Digital Forensics

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides a foundation in this branch of forensic science, encompassing the legal and technical aspects of the recovery and investigation of deleted and/or hidden data found in computers, smartphones, or even in the cloud, often in relation to computer crime. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

IS5885 - Cybersecurity Certification Preparation - 2 - Credits

Course Overview

Course Prefix
IS

Course Number
5885

Department
Data Analytics & Information Systems

Course Title
Cybersecurity Certification Preparation

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course reviews foundational cybersecurity concepts aligned with industry certification standards, reinforcing core security domains through guided review and scenario-based analysis to support applied understanding and readiness for professional cybersecurity certification exams.

Credit Hours

Credit Hours Min:
2

Contact Hours

Contact Hours Min:
2

Billing Hours

Billing Hours Min:
2

Lecture Hours

Lecture Hours Min:
2

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- IS5810 - Introduction to Cybersecurity

Course Learning Objectives

Course Learning Outcomes

Upon successful completion of this course, students should be able to:
1. Demonstrate readiness for industry cybersecurity certification exams by evaluating security principles, architectures, and operational practices in exam-style contexts and scenario-based contexts.

2. Apply foundational cybersecurity concepts across technical, operational, and risk-based perspectives to analyze security scenarios involving threats, vulnerabilities, and controls and recommend appropriate mitigation strategies.

IS5890 - Cybersecurity Competitions - 3 - Credits

Course Overview

Course Prefix
IS

Course Number
5890

Department
Data Analytics & Information Systems

Dual-Listed Courses
IS6890 - Cybersecurity Competitions

Course Title
Cybersecurity Competitions

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides students with experiential learning through structured participation in applied cybersecurity challenges. Students integrate technical knowledge, analytical reasoning, teamwork, and professional communication while engaging in authentic, competitive security environments. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- IS5810 - Introduction to Cybersecurity

Course Learning Objectives

Course Learning Outcomes

Upon successful completion of this course, students will be able to:

1. Apply cybersecurity concepts and tools to engage in and complete hands-on security challenges.
2. Collaborate effectively in team-based settings to support shared problem-solving and task completion.
3. Communicate technical information clearly and professionally appropriate to cybersecurity contexts.

IS5900 - Systems Design and Implementation (CI) - 3 - Credits

Course Overview

Course Prefix
IS

Course Number
5900

Department
Data Analytics & Information Systems

Course Title
Systems Design and Implementation (CI)

General Education Attribute
CI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description

Students work with a client to cover the entire systems development life cycle, from initiation of a project to final delivery of a functional system. They apply analysis, design, and project management concepts to the project.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Corequisite

Type
Corequisite

Required

Enroll in the following Courses:

- IS5910 - Systems Design Laboratory

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- DATA2100 - Data and Information in Business
- IS3800 - Cybersecurity I: Magical Theory (Inactive)
- DATA3500 - Introduction to Python Programming (Inactive)
  OR CS1400 - Introduction to Computer Science--CS 1

IS5910 - Systems Design Laboratory - 1 - Credits

Course Overview

Course Prefix
IS

Course Number
5910

Department
Data Analytics & Information Systems

Course Title
Systems Design Laboratory

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This is a required laboratory for IS 5900, allowing students to complete assigned team projects.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Simple Requisites

Corequisite

Type
Corequisite

Required

Enroll in the following Courses:

- IS5900 - Systems Design and Implementation (CI)

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- DATA2100 - Data and Information in Business

- DATA3330 - Database Management (Inactive)
- IS3800 - Cybersecurity I: Magical Theory (Inactive)
- DATA3500 - Introduction to Python Programming (Inactive) **OR** CS1400 - Introduction to Computer Science--CS 1

IS5950 - Independent Readings - 1 - 5 Credits

Course Overview

Course Prefix
IS

Course Number
5950

Department
Data Analytics & Information Systems

Course Title
Independent Readings

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course is designed for individual student projects as approved by the department.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
5

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
5

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
5

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
5

Lecture Hours Operator:
TO

IS6100 - Agile Tech Design and Development - 3 - Credits

Course Overview

Course Prefix
IS

Course Number
6100

Department
Data Analytics & Information Systems

Dual-Listed Courses
IS5100 - Agile Tech Design and Development

Course Title
Agile Tech Design and Development

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
In tech environments of rapid change and uncertainty the proven way to survive and thrive requires Agile principles and methods. This course immerses participants in Agile as they learn, practice and adapt their skills in planning, prioritizing and delivering projects. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Other Enrollment Recommendations

Prior programming experience is strongly recommended

No Requirements

IS6110 - Workshop - 1 - 3 Credits

Course Overview

Course Prefix
IS

Course Number
6110

Department
Data Analytics & Information Systems

Course Title
Workshop

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Intensive workshops.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

No Requirements

IS6170 - Applied Tech Innovation - 3 - Credits

Course Overview

Course Prefix
IS

Course Number
6170

Department
Data Analytics & Information Systems

Dual-Listed Courses
IS5170 - Applied Tech Innovation

Course Title
Applied Tech Innovation

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Applied Tech Innovation equips entrepreneurial-minded Aggies with the knowledge, skills, and mindset required to launch successful technology startups. It is ideal for individuals passionate about innovation, who desire to solve real-world problems, and who are driven to create impact through technology. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

IS6180 - Tech Innovation Implementation and Commercialization - 3 - Credits

Course Overview

Course Prefix
IS

Course Number
6180

Department
Data Analytics & Information Systems

Dual-Listed Courses
IS5180 - Tech Innovation Implementation and Commercialization

Course Title
Tech Innovation Implementation and Commercialization

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
The course focuses on implementing and monetizing innovations, moving beyond idea generation to resource gathering and commercialization. Students implement their innovation based on market feedback and attempt to commercially launch their technical product. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Special Approval
Instructor permission

Simple Requisites

Corequisite

Type
Corequisite

Required

Enroll in the following Courses:
- IS6181 - Tech Innovation Implementation and Commercialization Laboratory

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:
- IS6170 - Applied Tech Innovation

IS6181 - Tech Innovation Implementation and Commercialization Laboratory - 3 - Credits

Course Overview

Course Prefix
IS

Course Number
6181

Department
Data Analytics & Information Systems

Dual-Listed Courses
IS5181 - Tech Innovation Implementation and Commercialization Laboratory

Course Title
Tech Innovation Implementation and Commercialization Laboratory

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students engage with target markets and customers outside the classroom to experiment with IT product concepts. They collect and implement feedback to refine their ideas, fostering real-world experience in developing, testing, and adapting products for market success. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Special Approval
Instructor permission

Simple Requisites

Corequisite

Type
Corequisite

Required

Enroll in the following Courses:

- IS6180 - Tech Innovation Implementation and Commercialization

IS6200 - Introduction to Cloud Computing - 3 - Credits

Course Overview

Course Prefix
IS

Course Number
6200

Department
Data Analytics & Information Systems

Dual-Listed Courses
IS5200 - Introduction to Cloud Computing

Course Title
Introduction to Cloud Computing

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides an introduction and overview of the fundamentals of cloud computing and the tools necessary for scalable, reliable, and secure deployment of cloud applications. Students are introduced to services and tools available from large cloud providers. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

IS6250 - Graduate Internship - 1 - 6 Credits

Course Overview

Course Prefix
IS

Course Number
6250

Department
Data Analytics & Information Systems

Course Title
Graduate Internship

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Graduate-level internship in business, industry, or government position approved by department. Requires written learning objectives, performance evaluation, and a final internship written report. Requires 75 hours internship per 1 semester credit.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
6

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
6

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
6

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
6

Lecture Hours Operator:
TO

No Requirements

IS6510 - Information Systems Strategy - 2 - 3 Credits

Course Overview

Course Prefix
IS

Course Number
6510

Department
Data Analytics & Information Systems

Course Title
Information Systems Strategy

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Introduction to information systems at general management level. Includes strategic look at needs of an organization and how the function of information systems can help the organization become more effective.

Credit Hours

Credit Hours Min:
2

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
2

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
2

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
2

Lecture Hours Max:
3

Lecture Hours Operator:
TO

No Requirements

IS6610 - IS Strategy - 3 - Credits

Course Overview

Course Prefix
IS

Course Number
6610

Department
Data Analytics & Information Systems

Course Title
IS Strategy

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Designed for IT leaders, managers, directors, and aspiring CIOs responsible for enterprise and/or business unit information systems and technology.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ACCT2010 - Financial Accounting Principles
- FIN3400 - Corporate Finance (QI) (Inactive)
- STAT2300 - Business Statistics (QL)
- DATA3500 - Introduction to Python Programming (Inactive) **OR** CS1400 - Introduction to Computer Science--CS 1

IS6700 - User Interface/User Experience Web Design - 3 - Credits

Course Overview

Course Prefix
IS

Course Number
6700

Department
Data Analytics & Information Systems

Dual-Listed Courses
IS5700 - User Interface/User Experience Web Design

Course Title
User Interface/User Experience Web Design

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students learn to design, develop, and deploy data-driven web applications using server-side JavaScript frameworks (Node.js). The course covers server-side application architecture, database implementation and connectivity, user authentication and security, session management, and REST API development. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Other Enrollment Recommendations

Prior coursework or experience with elementary programming and databases is recommended.

IS6750 - JavaScript for Web Development - 2 - Credits

Course Overview

Course Prefix
IS

Course Number
6750

Department
Data Analytics & Information Systems

Dual-Listed Courses
IS5750 - JavaScript for Web Development

Course Title
JavaScript for Web Development

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students learn the basics of JavaScript to create dynamic, interactive web content. This course covers essential programming concepts, Document Object Model (DOM) manipulation, and event handling, providing the skills needed to build user-friendly websites. No prior programming experience required. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

IS6770 - Advanced Server-Side Web Application Development - 3 - Credits

Course Overview

Course Prefix
IS

Course Number
6770

Department
Data Analytics & Information Systems

Dual-Listed Courses
IS5770 - Advanced Server-Side Web Application Development

Course Title
Advanced Server-Side Web Application Development

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students learn to design, develop, and deploy data-driven web applications using server-side JavaScript frameworks (Node.js). The course covers server-side application architecture, database implementation and connectivity, user authentication and security, session management, and REST API development. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Other Enrollment Recommendations
Prior coursework or experience with introductory programming, web development, and JavaScript is strongly recommended.

Course Learning Objectives

Course Learning Outcomes
Students successfully completing this course will be able to:

- Describe what Node.js is and why it is used
- Understand the major components of a server-side web application and how data is transmitted/received via the HTTP protocol
- Instantiate a web server and load files to the browser using Node.js native modules

- Understand and implement modular application design using the MVC architecture
- Use a web framework (Express.js) to route web request and implement application logic via middleware
- Create a data model with a database back-end and perform CRUD operations on the data
- Store and manage user data and implement user authentication
- Develop a RESTful API and consume data from other APIs
- Deploy a web application to production

IS6780 - Advanced Client-Side Web Application Development - 3 - Credits

Course Overview

Course Prefix
IS

Course Number
6780

Department
Data Analytics & Information Systems

Dual-Listed Courses

IS5780 - Advanced Client-Side Web Application Development

Course Title

Advanced Client-Side Web Application Development

Grade Mode
Standard Letter

Repeat Status
NR

Course Description

Students learn to design, develop, and deploy data-driven web applications using client-side JavaScript frameworks (React.js). The course focuses on component-based application architecture, database connectivity, and consumption of external API data. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ANY of the following Courses:

- IS5770 - Advanced Server-Side Web Application Development **OR** IS6770 - Advanced Server-Side Web Application Development

Course Learning Objectives

Course Learning Outcomes

Students successfully completing this course will be able to:

- Define what React.js is and why it is used
- Understand the major components of a client-side web application and how data is transmitted/received via the HTTP protocol
- Develop reusable user interface components that receive data and interact with other components
- Architect a modular interface that consists of composition of components
- Use CSS to style components
- Understand what state is and how to manage and update state
- Use asynchronous JavaScript calls to external API endpoints to retrieve and display data
- Deploy a web application to production

IS6800 - Networks - 3 - Credits

Course Overview

Course Prefix
IS

Course Number
6800

Department
Data Analytics & Information Systems

Dual-Listed Courses

IS5800 - Networks

Course Title

Networks

Grade Mode
Standard Letter

Repeat Status
NR

Course Description

Students master the essential principles by which the internet and data communication are made possible. They learn how to speak binary, phrase protocols, leverage layers, and build pi-hole. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

IS6810 - Introduction to Cybersecurity - 3 - Credits

Course Overview

Course Prefix
IS

Course Number
6810

Department
Data Analytics & Information Systems

Dual-Listed Courses
IS5810 - Introduction to Cybersecurity

Course Title
Introduction to Cybersecurity

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces students to the field of information security, with hands-on exercises in information, network, and physical security and real-world demonstrations of hardening and exploiting systems. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Other Enrollment Recommendations
Students should have prior coursework or experience with introductory Python and database programming.

Simple Requisites

Corequisite

Type
Corequisite

Required

Enroll in the following Courses:
- IS5800 - Networks
  OR IS6800 - Networks

IS6820 - Cybersecurity Detection, Response, and Intelligence - 3 - Credits

Course Overview

Course Prefix
IS

Course Number
6820

Department
Data Analytics & Information Systems

Dual-Listed Courses
IS5820 - Cybersecurity Detection, Response, and Intelligence

Course Title
Cybersecurity Detection, Response, and Intelligence

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students use tools and techniques to secure and analyze large networks. Class sessions focus on hands-on labs to write intrusion detection rules (IDS), perform forensic investigation of hard drives, learn advanced packet analysis and learn techniques for penetration testing. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Other Enrollment Recommendations
Prior coursework in database programming.

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:
- IS5800 - Networks
  OR IS6800 - Networks

IS6880 - Digital Forensics - 3 - Credits

Course Overview

Course Prefix
IS

Course Number
6880

Department
Data Analytics & Information Systems

Dual-Listed Courses
IS5880 - Digital Forensics

Course Title
Digital Forensics

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides a foundation in this branch of forensic science, encompassing the legal and technical aspects of the recovery and investigation of deleted and/or hidden data found in computers, smartphones, or even in the cloud, often in relation to computer crime. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

IS6890 - Cybersecurity Competitions - 3 - Credits

Course Overview

Course Prefix
IS

Course Number
6890

Department
Data Analytics & Information Systems

Dual-Listed Courses
IS5890 - Cybersecurity Competitions

Course Title
Cybersecurity Competitions

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides students with experiential learning through structured participation in applied cybersecurity challenges. Students integrate technical knowledge, analytical reasoning, teamwork, and professional communication while engaging in authentic, competitive security environments. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequiste

Type
Prerequisite

Required

Complete ALL of the following Courses:

- IS6810 - Introduction to Cybersecurity
  OR IS5810 - Introduction to Cybersecurity

Course Learning Objectives

Course Learning Outcomes

Upon successful completion of this course, students will be able to:

1. Apply cybersecurity concepts and tools to engage in and **complete hands-on security challenges**.
2. **Collaborate effectively in team-based settings** to support shared problem-solving and task completion.
3. **Communicate technical information clearly** and professionally appropriate to cybersecurity contexts.

IS6950 - Independent Readings - 1 - 3 Credits

Course Overview

Course Prefix
IS

Course Number
6950

Department
Data Analytics & Information Systems

Course Title
Independent Readings

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Specialized projects for graduate students.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

No Requirements

ISELEC - Information Systems Elective Credit - 3 - Credits

Course Overview

Course Prefix
IS

Course Number
ELEC

Department
Data Analytics & Information Systems

Course Title
Information Systems Elective Credit

Grade Mode
Non-gradable

Repeat Status
NR

Course Description
This course is used for Degree Works Plans

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

ISTU2250 - Introductory Internship - 1 - 6 Credits

Course Overview

Course Prefix
ISTU

Course Number
2250

Department
General University

Course Title
Introductory Internship

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This internship course allows students to combine on-the-job career learning with related academic course work to complement the total educational experience. Students will be able to document projects completed and skills gained, thus demonstrating capabilities beyond the classroom.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
6

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
6

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
6

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
6

Lecture Hours Operator:
TO

No Requirements

ISTU3010 - Career Exploration and Design - 2 - Credits

Course Overview

Course Prefix
ISTU

Course Number
3010

Department
General University

Course Title
Career Exploration and Design

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students identify their values, interests, personalities, and strengths, and link them to career paths. Using a variety of activities and coaching, an alumni mentor works with each student helping them articulate key competencies and build a winning network.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Registration Restrictions

Admission to the Integrated Studies - BS major

ISTU4010 - Career Design and Planning - 1 - Credits

Course Overview

Course Prefix
ISTU

Course Number
4010

Department
General University

Course Title
Career Design and Planning

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students apply career search strategies customized for potential employers while developing and articulating competencies employers are seeking. Students prepare a career portfolio of effective documents, develop their LinkedIn profile, and network through fairs, employer information sessions, and mock interviews.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ISTU3010 - Career Exploration and Design

ISTU4250 - Advanced Internship - 1 - 6 Credits

Course Overview

Course Prefix
ISTU

Course Number
4250

Department
General University

Course Title
Advanced Internship

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This advanced internship course allows students to combine on-the-job career learning with related academic coursework to complement the total educational experience. Students document projects completed and skills gained, thus demonstrating capabilities beyond the classroom.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
6

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
6

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
6

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
6

Lecture Hours Operator:
TO

No Requirements

ITAL1010 - Italian First Year I - 4 - Credits

Course Overview

Course Prefix
ITAL

Course Number
1010

Department
World Languages and Cultures

Course Title
Italian First Year I

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Communicative competencies in the four language skills: speaking, listening, reading, and writing, with exposure to cultures and customs. Native speaker instructor. Self-study with tutorial assistance.

Credit Hours

Credit Hours Min:
4

Contact Hours

Contact Hours Min:
4

Billing Hours

Billing Hours Min:
4

Lecture Hours

Lecture Hours Min:
4

No Requirements

ITAL1020 - Italian First Year II - 4 - Credits

Course Overview

Course Prefix
ITAL

Course Number
1020

Department
World Languages and Cultures

Course Title
Italian First Year II

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Communicative competencies in the four language skills: speaking, listening, reading, and writing, with exposure to cultures and customs. Native speaker instructor. Self-study with tutorial assistance.

Credit Hours

Credit Hours
Min:
4

Contact Hours

Contact Hours
Min:
4

Billing Hours

Billing Hours
Min:
4

Lecture Hours

Lecture Hours
Min:
4

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ITAL1010 - Italian First Year I

or equivalent

ITAL2010 - Italian Second Year I - 4 - Credits

Course Overview

Course Prefix
ITAL

Course Number
2010

Department
World Languages and Cultures

Course Title
Italian Second Year I

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Second-year overview of speaking, listening, reading, and writing, with exposure to cultures and customs. Native speaker instructor. Self-study with tutorial assistance.

Credit Hours

Credit Hours
Min:
4

Contact Hours

Contact Hours
Min:
4

Billing Hours

Billing Hours
Min:
4

Lecture Hours

Lecture Hours
Min:
4

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ITAL1020 - Italian First Year II

or equivalent

ITAL2020 - Italian Second Year II - 4 - Credits

Course Overview

Course Prefix
ITAL

Course Number
2020

Department
World Languages and Cultures

Course Title
Italian Second Year II

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Second-year overview of speaking, listening, reading, and writing, with exposure to cultures and customs. Native speaker instructor. Self-study with tutorial assistance.

Credit Hours

Credit Hours Min:
4

Contact Hours

Contact Hours Min:
4

Billing Hours

Billing Hours Min:
4

Lecture Hours

Lecture Hours Min:
4

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ITAL2010 - Italian Second Year I

or equivalent

ITAL2988 - Special Problems - 1 - 3 Credits

Course Overview

Course Prefix
ITAL

Course Number
2988

Department
World Languages and Cultures

Course Title
Special Problems

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
An elective course intended for advanced students. Students will work individually with the instructor to develop reading, writing, listening and speaking skills. Emphasis will be on advanced grammar and conversation. Italian culture will also be emphasized. Significant reading and work outside of class are required.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

Special Approval

Instructor permission

No Requirements

ITDS4900 - Senior Thesis/Project - 3 - Credits

Course Overview

Course Prefix
ITDS

Course Number
4900

Department
College of Arts & Sciences

Course Title
Senior Thesis/Project

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students majoring in Interdisciplinary Studies are required to complete a 3-credit thesis or project as part of the major. The thesis or project must be either a research paper or a creative activity appropriate to the theme of the Interdisciplinary Studies major. Each student works with his or her faculty advisor to determine an appropriate topic of study or a project. The student and advisor outline the protocol and parameters of the thesis or project.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Special Approval

Instructor permission

No Requirements

ITLS1870 - Current Issues Seminar - 1 - 3 Credits

Course Overview

Course Prefix
ITLS

Course Number
1870

Department
Instructional Technology & Learning Sciences

Course Title
Current Issues Seminar

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
This course provides an examination of special topics in technology, design, and interactions. It is intended to be a vehicle for new or unique content not offered as part of the regular curriculum.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

No Requirements

ITLS2000 - HEDI Orientation - 1 - Credits

Course Overview

Course Prefix
ITLS

Course Number
2000

Department
Instructional Technology & Learning Sciences

Course Title
HEDI Orientation

Grade Mode
Pass/Fail

Repeat Status
NR

Course Description
This course provides an overview of the HEDI BS program. Students in this course learn to understand the main routes and emphases of the program and get proper advising according to their interests.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

ITLS2500 - Technology Enabled Instruction - 3 - Credits

Course Overview

Course Prefix
ITLS

Course Number
2500

Department
Instructional Technology & Learning Sciences

Course Title
Technology Enabled Instruction

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Future educators understand how to leverage technology in learning environments. This course teaches how technology integration and tools can transform learning, improve data-informed decisions, cultivate creativity and innovation, differentiate instruction, and improve collaboration and communication across all stakeholders.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Identify, Explain, and Demonstrate how technology and technology tools can enhance and deepen students learning.

2. Identify, Explain, and Demonstrate how technology and technology tools are used by students to achieve desired learning outcomes.

3. Identify, Explain, and Demonstrate how technology and technology tools can encourage student creativity and innovation.

4. Identify, Explain, and Demonstrate how technology and technology tools can improve collaboration and communication across all stakeholders.

5. Evaluate technology and technology tools for their ability to be used equitably and improve access for all.

6. Research, Analyze, and Select technology and technology tools that are appropriate for the different uses in a learning environment.

ITLS2890 - Work Experience Equivalent - 1 - 12 Credits

Course Overview

Course Prefix
ITLS

Course Number
2890

Department
Instructional Technology & Learning Sciences

Course Title
Work Experience Equivalent

Grade Mode
Pass/Fail

Repeat Status
NR

Course Description
This course provides credit for relevant work experience. It is approved by the department upon receipt of documentation of learned skills and pertinent experiences.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
12

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
12

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
12

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
12

Lecture Hours Operator:
TO

No Requirements

ITLS2900 - Independent Study - 1 - 4 Credits

Course Overview

Course Prefix
ITLS

Course Number
2900

Department
Instructional Technology & Learning Sciences

Course Title
Independent Study

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
Individually directed study and projects as determined by the student and advisor.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
4

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
4

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
4

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
4

Lecture Hours Operator:
TO

No Requirements

ITLS3110 - Design Perspectives and Processes I - 3 - Credits

Course Overview

Course Prefix
ITLS

Course Number
3110

Department
Instructional Technology & Learning Sciences

Course Title
Design Perspectives and Processes I

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers design thinking, a powerful process of problem-solving that begins with understanding unmet customer needs. Students learn the process for innovation that emerges from this insight, encompassing concept development, applied creativity, prototyping, and experimentation.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

ITLS3120 - Design Perspectives and Processes II - 3 - Credits

Course Overview

Course Prefix
ITLS

Course Number
3120

Department
Instructional Technology & Learning Sciences

Course Title
Design Perspectives and Processes II

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers an introduction to advanced issues in and critical perspectives of design. Students establish their own design philosophy by developing design practices and applying course material.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ITLS3110 - Design Perspectives and Processes I

ITLS3130 - How People Learn - 3 - Credits

Course Overview

Course Prefix
ITLS

Course Number
3130

Department
Instructional Technology & Learning Sciences

Course Title
How People Learn

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students learn how to design information in a way that leverages the ways in which people are motivated and the approaches by which they learn in our new information society.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

ITLS3310 - Information and Media Literacy - 3 - Credits

Course Overview

Course Prefix
ITLS

Course Number
3310

Department
Instructional Technology & Learning Sciences

Course Title
Information and Media Literacy

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students learn principled practices in developing skills to locate, evaluate, synthesize, and use information and learn responsibility in creating, using, and sharing information and media ethically.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

ITLS3350 - Introduction to Computational Thinking - 3 - Credits

Course Overview

Course Prefix
ITLS

Course Number
3350

Department
Instructional Technology & Learning Sciences

Course Title
Introduction to Computational Thinking

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces the fundamental concepts of structured programming and computational thinking. It provides a comprehensive introduction to programming for digital designers. This course assumes computer literacy.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

ITLS3500 - Introduction to Games Studies - 3 - Credits

Course Overview

Course Prefix
ITLS

Course Number
3500

Department
Instructional Technology & Learning Sciences

Course Title
Introduction to Games Studies

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides an introduction to the interdisciplinary study of games. Students will engage critically with games on multiple levels: through play, evaluation of play experiences, and reading about current research and theory from a variety of sources. No prior experience with games is required.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

ITLS3530 - Gaming, Technology, and Culture - 3 - Credits

Course Overview

Course Prefix
ITLS

Course Number
3530

Department
Instructional Technology & Learning Sciences

Course Title
Gaming, Technology, and Culture

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students learn how gaming and technology are culturally-patterned and learn to recognize who is included and excluded in the design and development of games and technologies. Students develop foundational understanding and explore relevant topics.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

ITLS3560 - Character and Level Design - 3 - Credits

Course Overview

Course Prefix
ITLS

Course Number
3560

Department
Instructional Technology & Learning Sciences

Course Title
Character and Level Design

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers basic concepts of video game level and character design. Students practice design implementation through modeling, skinning, rigging, animation, and lighting using 3D animation software and market-standard game engines.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

ITLS3575 - Special Topics in Game Studies - 3 - Credits

Course Overview

Course Prefix
ITLS

Course Number
3575

Department
Instructional Technology & Learning Sciences

Course Title
Special Topics in Game Studies

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course covers selected special topics related to Game Studies.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

ITLS3870 - Current Issues Seminar - 1 - 3 Credits

Course Overview

Course Prefix
ITLS

Course Number
3870

Department
Instructional Technology & Learning Sciences

Course Title
Current Issues Seminar

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
This course provides an examination of special topics in technology, design, and interactions. It is intended to be a vehicle for new or unique content not offered as part of the regular curriculum.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

No Requirements

ITLS4110 - Project and Product Management - 3 - Credits

Course Overview

Course Prefix
ITLS

Course Number
4110

Department
Instructional Technology & Learning Sciences

Course Title
Project and Product Management

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course teaches the fundamental principles of product management to strategically drive the development, market launch, and continual support and improvement of a company's products. The course also teaches the fundamentals and interactivity of project management to drive development processes.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

ITLS4160 - Measuring Learning and Performance - 3 - Credits

Course Overview

Course Prefix
ITLS

Course Number
4160

Department
Instructional Technology & Learning Sciences

Course Title
Measuring Learning and Performance

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students learn basic principles of effective measurement techniques, their development, and underlying theories. Topics include surveys, rubrics and tests for both formative and summative assessment. Classical test theory and item response theory are introduced, with an emphasis on practical application.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

ITLS4170 - AI-Powered Experience Design - 3 - Credits

Course Overview

Course Prefix
ITLS

Course Number
4170

Department
Instructional Technology & Learning Sciences

Course Title
AI-Powered Experience Design

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This Human Experience Design and Interaction (HEDI) course immerses non-programmers in generative artificial intelligence and its transformative applications in design and user interaction. Students learn foundational AI concepts and how generative AI differs from traditional rule-based or predictive AI.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Course Learning Objectives

Course Learning Outcomes

1. Differentiate between traditional AI and generative AI and explain how they work.
2. Apply prompt engineering techniques to generate text, image, audio, and video.
3. Analyze generative AI outputs to assess quality, bias, relevance, and creativity.
4. Create human-centered design solutions using generative AI tools.
5. Design automated workflows by integrating multiple AI tools using no-code platforms.
6. Evaluate ethical, societal, and UX implications of AI-enhanced design.
7. Reflect on their evolving understanding of AI in design through self-assessment.

ITLS4208 - Integrated Multimedia Production - 3 - Credits

Course Overview

Course Prefix
ITLS

Course Number
4208

Department
Instructional Technology & Learning Sciences

Course Title
Integrated Multimedia Production

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course teaches students to use current industry software suites and technology to complete integrated multimedia projects.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

ITLS4300 - Clinical Experience in School Library Media - 1 - Credits

Course Overview

Course Prefix
ITLS

Course Number
4300

Department
Instructional Technology & Learning Sciences

Course Title
Clinical Experience in School Library Media

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
School library media clinical observation experience. Students involved in observing management and assisting in middle and secondary library media centers, arranged by department.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Observation Hours
Minimum of 40 hours of observation experience.

ITLS4410 - Intro to eSports - 3 - Credits

Course Overview

Course Prefix
ITLS

Course Number
4410

Department
Instructional Technology & Learning Sciences

Course Title
Intro to eSports

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course is designed as an introduction to esports as a competitive and social practice. Course provides an overview of the activities of gamers and additional individual, technical, and social supports associated with the rise of esports fandom and competitive leagues.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

ITLS4420 - Developmental eSports - 2 - Credits

Course Overview

Course Prefix
ITLS

Course Number
4420

Department
Instructional Technology & Learning Sciences

Course Title
Developmental eSports

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
This course is designed for students seeking an understanding of and skill development in esports games. Skill development will occur through active participation in games with classmates as well as time spent watching expert game play.

Credit Hours

Credit Hours Min:
2

Contact Hours

Contact Hours Min:
2

Billing Hours

Billing Hours Min:
2

Lecture Hours

Lecture Hours Min:
2

No Requirements

ITLS4475 - Special Topics in Esports - 1 - 3 Credits

Course Overview

Course Prefix
ITLS

Course Number
4475

Department
Instructional Technology & Learning Sciences

Course Title
Special Topics in Esports

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course will cover selected special topics related to Esports.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

No Requirements

ITLS4890 - Work Experience Equivalent - 1 - 12 Credits

Course Overview

Course Prefix
ITLS

Course Number
4890

Department
Instructional Technology & Learning Sciences

Course Title
Work Experience Equivalent

Grade Mode
Pass/Fail

Repeat Status
NR

Course Description
This course provides credit for relevant work experience. It is approved by the department upon documented receipt of learned skills and pertinent experiences.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
12

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
12

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
12

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
12

Lecture Hours Operator:
TO

No Requirements

ITLS4900 - Independent Study - 1 - 4 Credits

Course Overview

Course Prefix
ITLS

Course Number
4900

Department
Instructional Technology & Learning Sciences

Course Title
Independent Study

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
This course includes individually-directed study and projects.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
4

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
4

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
4

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
4

Lecture Hours Operator:
TO

Special Approval
Permission of department

No Requirements

ITLS4910 - Undergraduate Research and Creative Opportunity - 1 - 3 Credits

Course Overview

Course Prefix
ITLS

Course Number
4910

Department
Instructional Technology & Learning Sciences

Course Title
Undergraduate Research and Creative Opportunity

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Cooperative process of discovery, investigation, research, or creativity between faculty and one or more students.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

No Requirements

ITLS4940 - Internship-Undergraduate - 1 - 6 Credits

Course Overview

Course Prefix
ITLS

Course Number
4940

Department
Instructional Technology & Learning Sciences

Course Title
Internship-Undergraduate

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
This course is an on-site experience in which students apply knowledge and skills in a work environment. It is the culminating experience for students in the BS program.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
6

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
6

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
6

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
6

Lecture Hours Operator:
TO

No Requirements

ITLS4960 - Senior Capstone Project - 1 - 3 Credits

Course Overview

Course Prefix
ITLS

Course Number
4960

Department
Instructional Technology & Learning Sciences

Course Title
Senior Capstone Project

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
Students develop a creative project documented in a formal proposal and organized in a plan of action. The final submission includes the approved proposal, a reflection paper, and final submission of the project.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

No Requirements

ITLS5000 - School Library Foundation and Learning - 3 - Credits

Course Overview

Course Prefix
ITLS

Course Number
5000

Department
Instructional Technology & Learning Sciences

Course Title
School Library Foundation and Learning

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course examines the role of the library in the school community. It investigates professional standards, explores learner development and diversity, and considers a variety of learning environments and management strategies.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

ITLS5015 - School Library Organization and Access - 3 - Credits

Course Overview

Course Prefix
ITLS

Course Number
5015

Department
Instructional Technology & Learning Sciences

Course Title
School Library Organization and Access

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course focuses on building, maintaining, and evaluating collections for library media programs. It covers policy development for selection, protecting intellectual freedom, and reviewing, evaluating, and maintaining materials in all formats.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

ITLS5025 - School Library Instruction and Assessment - 3 - Credits

Course Overview

Course Prefix
ITLS

Course Number
5025

Department
Instructional Technology & Learning Sciences

Course Title
School Library Instruction and Assessment

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course presents a wide variety of activities which are integral to a school library media program, including collaboration, reading guidance, instructional development, curriculum development, media skill instruction, and assessment strategies. It emphasizes collaboration within schools.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

ITLS5030 - School Library Literacy and Programs - 3 - Credits

Course Overview

Course Prefix
ITLS

Course Number
5030

Department
Instructional Technology & Learning Sciences

Course Title
School Library Literacy and Programs

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
The core topics for this course are information literacy, media literacy, and reading engagement. Additionally, reader advisory, reflective practice, and information seeking processing models are covered.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

ITLS5040 - School Library Leadership and Administration - 3 - Credits

Course Overview

Course Prefix
ITLS

Course Number
5040

Department
Instructional Technology & Learning Sciences

Course Title
School Library Leadership and Administration

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course includes study of professional learning, leadership and collaboration, advocacy, and ethical practice. Students define their role within a school setting and in relation to that of the principal and teachers.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

ITLS5090 - School Library Media Practicum - 1 - 6 Credits

Course Overview

Course Prefix
ITLS

Course Number
5090

Department
Instructional Technology & Learning Sciences

Course Title
School Library Media Practicum

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
Observation and guided field experience in a library media center under professional library media specialists and instructional technology professionals. Bridge of theory into practice. To receive graduate-level credit, students must fulfill additional requirements.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
6

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
6

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
6

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
6

Lecture Hours Operator:
TO

ITLS5130 - Data Visualization - 3 - Credits

Course Overview

Course Prefix
ITLS

Course Number
5130

Department
Instructional Technology & Learning Sciences

Dual-Listed Courses
ITLS6130 - Data Visualization

Course Title
Data Visualization

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides an overview of the nature of data visualization, and how people can apply its concepts to better understand data by exploring the impacts of existing data-informed decisions across multiple domains. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

ITLS5210 - Virtual Environment Development - 3 - Credits

Course Overview

Course Prefix
ITLS

Course Number
5210

Department
Instructional Technology & Learning Sciences

Dual-Listed Courses
ITLS6210 - Virtual Environment Development

Course Title
Virtual Environment Development

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students study game and virtual-environment development using modern game engines. Topics include fundamental programming concepts, such as variables and their types, code re-use, commenting code, and basic control structures.
Students spend time on game design, but focus on game development. Additional course work is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

ITLS5215 - Video and Audio Design and Production I - 3 - Credits

Course Overview

Course Prefix
ITLS

Course Number
5215

Department
Instructional Technology & Learning Sciences

Dual-Listed Courses
ITLS6215 - Video and Audio Design and Production I

Course Title
Video and Audio Design and Production I

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers fundamental theories and practice in design and development for camera and computer-based audio and video production, including recording, editing, and digitizing audio and video segments for education and training applications. Additional course work is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

ITLS5220 - Video and Audio Design and Production II - 3 - Credits

Course Overview

Course Prefix
ITLS

Course Number
5220

Department
Instructional Technology & Learning Sciences

Course Title
Video and Audio Design and Production II

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Advanced theories and practice in design and development for camera and computer-based audio and video production, including recording, editing, and digitizing audio and video segments for education and training applications.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ANY of the following Courses:

- ITLS5215 - Video and Audio Design and Production I
  OR ITLS6215 - Video and Audio Design and Production I

ITLS5225 - User Experience/User Interaction Design - 3 - Credits

Course Overview

Course Prefix
ITLS

Course Number
5225

Department
Instructional Technology & Learning Sciences

Dual-Listed Courses
ITLS6225 - User Experience/User Interaction Design

Course Title
User Experience/User Interaction Design

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course is a tools class aiming to provide an introduction to the field of UX/UI design. The course aims to give students the knowledge and skills to design user experience and interaction for multiple virtual experiences. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

ITLS5230 - Graphic Design and Production I - 3 - Credits

Course Overview

Course Prefix
ITLS

Course Number
5230

Department
Instructional Technology & Learning Sciences

Dual-Listed Courses
ITLS6230 - Graphic Design and Production I

Course Title
Graphic Design and Production I

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers fundamental practices of using the computer to design and produce a wide variety of instructional graphics. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

ITLS5240 - Graphic Design and Production II - 3 - Credits

Course Overview

Course Prefix
ITLS

Course Number
5240

Department
Instructional Technology & Learning Sciences

Dual-Listed Courses
ITLS6240 - Graphic Design and Production II

Course Title
Graphic Design and Production II

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers advanced practices of using the computer to design and produce a wide variety of instructional graphics and animations. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ANY of the following Courses:

- ITLS6230 - Graphic Design and Production I

ITLS5245 - eLearning Authoring Tools - 3 - Credits

Course Overview

Course Prefix
ITLS

Course Number
5245

Department
Instructional Technology & Learning Sciences

Dual-Listed Courses
ITLS6245 - eLearning Authoring Tools

Course Title
eLearning Authoring Tools

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers fundamental programming concepts in addition to fundamentals of the interactive multimedia environment. Students complete at least one fully-functional project for their portfolios. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

ITLS5250 - Artificial Intelligence for Learning and Design - 3 - Credits

Course Overview

Course Prefix
ITLS

Course Number
5250

Department
Instructional Technology & Learning Sciences

Course Title
Artificial Intelligence for Learning and Design

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course explores using Artificial Intelligence (AI) tools in educational settings, including trends, ethics, and practical applications for existing and emerging technologies.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

ITLS5255 - Designing Ethical Technologies - 3 - Credits

Course Overview

Course Prefix
ITLS

Course Number
5255

Department
Instructional Technology & Learning Sciences

Dual-Listed Courses
ITLS6255 - Designing Ethical Technologies

Course Title
Designing Ethical Technologies

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This class explores the responsibility of innovation with emerging technologies. Students develop design capacities for designing ethical technology for learning across contexts and cultures. Students also identify and enact their personal ethical convictions for the future of technology. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

ITLS5260 - Mobile Design and Development for Learning - 3 - Credits

Course Overview

Course Prefix
ITLS

Course Number
5260

Department
Instructional Technology & Learning Sciences

Dual-Listed Courses
ITLS6260 - Mobile Design and Development for Learning

Course Title
Mobile Design and Development for Learning

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students evaluate, design and build multiple mobile apps for educational purposes and learn fundamental programming concepts, such as variables, control structures, procedures, and cloud-based database implementation. To support mobile app design and development, students review design and learning concepts. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

ITLS5265 - Internet Design and Development - 3 - Credits

Course Overview

Course Prefix
ITLS

Course Number
5265

Department
Instructional Technology & Learning Sciences

Dual-Listed Courses
ITLS6265 - Internet Design and Development

Course Title
Internet Design and Development

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers web publishing, primarily using HTML (Hyper-Text Markup Language). Students explore current web technologies along with design, development, and evaluation. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

ITLS5270 - Digital Making and Learning - 3 - Credits

Course Overview

Course Prefix
ITLS

Course Number
5270

Department
Instructional Technology & Learning Sciences

Dual-Listed Courses
ITLS6270 - Digital Making and Learning

Course Title
Digital Making and Learning

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students use cutting-edge technologies alongside more traditional crafts to explore the basics of interactive computing. Additional coursework is required for those enrolled in the graduate-level course, including additional readings in theory and research.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

ITLS5275 - Multimedia Special Topic Studio I - 3 - Credits

Course Overview

Course Prefix
ITLS

Course Number
5275

Department
Instructional Technology & Learning Sciences

Dual-Listed Courses
ITLS6275 - Multimedia Special Topic Studio I

Course Title
Multimedia Special Topic Studio I

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course consists of selected special topics related to the development of multimedia products for instruction and training. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

ITLS5285 - Multimedia Special Topic Studio II - 3 - Credits

Course Overview

Course Prefix
ITLS

Course Number
5285

Department
Instructional Technology & Learning Sciences

Dual-Listed Courses
ITLS6285 - Multimedia Special Topic Studio II

Course Title
Multimedia Special Topic Studio II

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course consists of selected special topics related to the development of multimedia products for instruction and training. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

ITLS5320 - Writing for Design (CI) - 3 - Credits

Course Overview

Course Prefix
ITLS

Course Number
5320

Department
Instructional Technology & Learning Sciences

Dual-Listed Courses
ITLS6320 - Writing for Design

Course Title
Writing for Design (CI)

General Education Attribute
CI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students learn about user experience writing by developing a how-to guide for a software of their choice. Using human centered design, students create a how-to guide, and justify their design to the client in a paper and presentation. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

ITLS5500 - Integration and Innovation of Technology in Education - 3 - Credits

Course Overview

Course Prefix
ITLS

Course Number
5500

Department
Instructional Technology & Learning Sciences

Course Title
Integration and Innovation of Technology in Education

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Research and practice means to creatively and effectively integrate technology into teaching and learning, based on local and national standards. Develop methods and resources to implement standards using technologies pertinent to student's field of study. Produce a portfolio of artifacts.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

ITLS5700 - Special Topics - 1 - 3 Credits

Course Overview

Course Prefix
ITLS

Course Number
5700

Department
Instructional Technology & Learning Sciences

Course Title
Special Topics

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course consists of special topics that will correspond with the approved CE courses for ITLS.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

ITLS5750 - Instructional Technology Workshop - 1 - 4 Credits

Course Overview

Course Prefix
ITLS

Course Number
5750

Department
Instructional Technology & Learning Sciences

Course Title
Instructional Technology Workshop

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Special training and experience in latest concepts and innovations in instructional technology. Content changes to reflect most recent topics and problems facing the profession.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
4

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
4

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
4

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
4

Lecture Hours Operator:
TO

ITLS6130 - Data Visualization - 3 - Credits

Course Overview

Course Prefix
ITLS

Course Number
6130

Department
Instructional Technology & Learning Sciences

Dual-Listed Courses
ITLS5130 - Data Visualization

Course Title
Data Visualization

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides an overview of the nature of data visualization, and how people can apply its concepts to better understand data by exploring the impacts of existing data-informed decisions across multiple domains. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Course Learning Objectives

Course Learning Outcomes

1. Gaining a basic understanding of the subject (e.g., factual knowledge, methods, principles, generalizations, theories)
2. Learning to analyze and critically evaluate ideas, arguments, and points of view.
3. Learning appropriate methods for collecting, analyzing, and interpreting numerical information
4. Developing specific skills, competencies, and points of view needed by professionals in the field most closely related to this course

ITLS6210 - Virtual Environment Development - 3 - Credits

Course Overview

Course Prefix
ITLS

Course Number
6210

Department
Instructional Technology & Learning Sciences

Dual-Listed Courses
ITLS5210 - Virtual Environment Development

Course Title
Virtual Environment Development

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students study game and virtual-environment development using modern game engines. Topics include fundamental programming concepts, such as variables and their types, code re-use, commenting code, and basic control structures. Students spend time on game design, but the focus is on game development. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

ITLS6215 - Video and Audio Design and Production I - 3 - Credits

Course Overview

Course Prefix
ITLS

Course Number
6215

Department
Instructional Technology & Learning Sciences

Dual-Listed Courses
ITLS5215 - Video and Audio Design and Production I

Course Title
Video and Audio Design and Production I

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers fundamental theories and practice in design and development for camera and computer-based audio and video production, including recording, editing, and digitizing audio and video segments for education and training applications. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

ITLS6225 - User Experience/User Interaction Design - 3 - Credits

Course Overview

Course Prefix
ITLS

Course Number
6225

Department
Instructional Technology & Learning Sciences

Dual-Listed Courses
ITLS5225 - User Experience/User Interaction Design

Course Title
User Experience/User Interaction Design

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course is a tools class aiming to provide an introduction to the field of UX/UI design. The course aims to give students the knowledge and skills to design user experience and interaction for multiple virtual experiences. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

ITLS6230 - Graphic Design and Production I - 3 - Credits

Course Overview

Course Prefix
ITLS

Course Number
6230

Department
Instructional Technology & Learning Sciences

Dual-Listed Courses
ITLS5230 - Graphic Design and Production I

Course Title
Graphic Design and Production I

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers fundamental practices of using the computer to design and produce a wide variety of instructional graphics. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

ITLS6240 - Graphic Design and Production II - 3 - Credits

Course Overview

Course Prefix
ITLS

Course Number
6240

Department
Instructional Technology & Learning Sciences

Dual-Listed Courses
ITLS5240 - Graphic Design and Production II

Course Title
Graphic Design and Production II

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers advanced practices of using the computer to design and produce a wide variety of instructional graphics and animations. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ANY of the following Courses:

- ITLS5230 - Graphic Design and Production I
  OR ITLS6230 - Graphic Design and Production I

ITLS6245 - eLearning Authoring Tools - 3 - Credits

Course Overview

Course Prefix
ITLS

Course Number
6245

Department
Instructional Technology & Learning Sciences

Dual-Listed Courses
ITLS5245 - eLearning Authoring Tools

Course Title
eLearning Authoring Tools

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers fundamental programming concepts in addition to fundamentals of the interactive multimedia environment. Students finishing this course will have completed at least one fully-functional project for their portfolios. Additional course work is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

ITLS6250 - Artificial Intelligence for Learning and Design - 3 - Credits

Course Overview

Course Prefix
ITLS

Course Number
6250

Department
Instructional Technology & Learning Sciences

Course Title
Artificial Intelligence for Learning and Design

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course explores using Artificial Intelligence (AI) tools in educational settings, including trends, ethics, and practical applications for existing and emerging technologies.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

ITLS6255 - Designing Ethical Technologies - 3 - Credits

Course Overview

Course Prefix
ITLS

Course Number
6255

Department
Instructional Technology & Learning Sciences

Dual-Listed Courses
ITLS5255 - Designing Ethical Technologies

Course Title
Designing Ethical Technologies

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This class explores the responsibility of innovation with emerging technologies. Students develop design capacities for designing ethical technology for learning across contexts and cultures. Students also identify and enact their personal ethical convictions for the future of technology. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

ITLS6260 - Mobile Design and Development for Learning - 3 - Credits

Course Overview

Course Prefix
ITLS

Course Number
6260

Department
Instructional Technology & Learning Sciences

Dual-Listed Courses
ITLS5260 - Mobile Design and Development for Learning

Course Title
Mobile Design and Development for Learning

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students evaluate, design and build multiple mobile apps for educational purposes and learn fundamental programming concepts, such as variables, control structures, procedures, and cloud-based database implementation. To support mobile app design and development, students review design and learning concepts. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

ITLS6265 - Internet Design and Development - 3 - Credits

Course Overview

Course Prefix
ITLS

Course Number
6265

Department
Instructional Technology & Learning Sciences

Dual-Listed Courses
ITLS5265 - Internet Design and Development

Course Title
Internet Design and Development

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers web publishing, primarily using HTML (Hyper-Text Markup Language). Students explore current web technologies along with design, development, and evaluation. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

ITLS6270 - Digital Making and Learning - 3 - Credits

Course Overview

Course Prefix
ITLS

Course Number
6270

Department
Instructional Technology & Learning Sciences

Dual-Listed Courses
ITLS5270 - Digital Making and Learning

Course Title
Digital Making and Learning

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students use cutting-edge technologies alongside more traditional crafts to explore the basics of interactive computing. Additional coursework is required for those enrolled in the graduate-level course, including additional readings in theory and research.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

ITLS6275 - Multimedia Special Topic Studio I - 3 - Credits

Course Overview

Course Prefix
ITLS

Course Number
6275

Department
Instructional Technology & Learning Sciences

Dual-Listed Courses
ITLS5275 - Multimedia Special Topic Studio I

Course Title
Multimedia Special Topic Studio I

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course consists of selected special topics related to the development of multimedia products for instruction and training. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

ITLS6285 - Multimedia Special Topic Studio II - 3 - Credits

Course Overview

Course Prefix
ITLS

Course Number
6285

Department
Instructional Technology & Learning Sciences

Dual-Listed Courses
ITLS5285 - Multimedia Special Topic Studio II

Course Title
Multimedia Special Topic Studio II

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course consists of selected special topics related to the development of multimedia products for instruction and training. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

ITLS6300 - ITLS Orientation - 1 - Credits

Course Overview

Course Prefix
ITLS

Course Number
6300

Department
Instructional Technology & Learning Sciences

Course Title
ITLS Orientation

Grade Mode
Pass/Fail

Repeat Status
NR

Course Description
This course is geared toward assisting master's students in completing their degrees. It provides continuity from the first semester and encourages continued professional development in the discipline.

Credit Hours

Credit Hours Min:
1

Contact Hours

Contact Hours Min:
1

Billing Hours

Billing Hours Min:
1

Lecture Hours

Lecture Hours Min:
1

Registration Restrictions

Admission to the Instructional Technology and Learning Sciences (ITLS) department

No Requirements

ITLS6310 - Orientation to Instructional Technology & Learning Sciences for PhD Students - 1 - 2 Credits

Course Overview

Course Prefix
ITLS

Course Number
6310

Department
Instructional Technology & Learning Sciences

Course Title
Orientation to Instructional Technology & Learning Sciences for PhD Students

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Cohort-based orientation to the Instructional Technology & Learning Sciences (ITLS) doctoral program, students get to know each other, program faculty, and near-peer doctoral students while actively participating in a community of scholars.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
2

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
2

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
2

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
2

Lecture Hours Operator:
TO

Course Learning Objectives

Course Learning Outcomes

1. Students will start connecting with their cohort.

2. Students will be able to identify academic resources available to them in the ITLS doctoral program.

3. Students will learn about the expectations and requirements of the ITLS doctoral program.

4. Students will be able to identify a research topic of interest and find research articles via USU library.

5. Students will be able to summarize the research of ITLS faculty and provide examples of their work.

6. Students will be able to describe the components of a research talk and provide examples from the course.

ITLS6320 - Writing for Design - 3 - Credits

Course Overview

Course Prefix
ITLS

Course Number
6320

Department
Instructional Technology & Learning Sciences

Dual-Listed Courses

ITLS5320 - Writing for Design (CI)

Course Title

Writing for Design

Grade Mode
Standard Letter

Repeat Status
NR

Course Description

Students learn about user experience writing by developing a how-to guide for a software of their choice. Using human centered design, students create a how-to guide, and justify their design to the client in a paper and presentation. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

ITLS6390 - Transformative Uses of Technology for Learning - 3 - Credits

Course Overview

Course Prefix
ITLS

Course Number
6390

Department
Instructional Technology & Learning Sciences

Course Title
Transformative Uses of Technology for Learning

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Explores the critical role of technology as one tool in the transformation of education. Involves students in change-related projects in their local environment. Principles and practices of implementing innovations into real-world settings and evaluating their effectiveness.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Admission to the Instructional Technology and Learning Sciences (ITLS) department

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ITLS6540 - Learning Theory

ITLS6400 - Foundations of Instructional Coaching - 3 - Credits

Course Overview

Course Prefix
ITLS

Course Number
6400

Department
Instructional Technology & Learning Sciences

Cross-Listed Courses
TEAL6400 - Foundations of Instructional Coaching

Course Title
Foundations of Instructional Coaching

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course develops instructional coaching practices for educators. Topics covered include coaching models, interpersonal skills, evidence-based pedagogical approaches, data-informed decisions, and addressing the needs of diverse learners in a variety of settings.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Using current research-based instructional coaching practices. [e.g., primary literature will be used from the University of Kansas Center for Research on Learning, Uncommon Schools, Utah State Board of Education's documentation on instructional coaching and mentoring.]

2. To support educators in creating and accomplishing goals aligned with the vision and expectations of their organization.

3. To improve learner outcomes through building the capacity of the educators to use best practices to meet student needs.

4. To build trusting relationships through clear support and communication.

5. To demonstrate an ability to listen and communicate through asking probing and reflective questions.

6. To help educators gather, analyze, and use data to shift instructional decision making and practices.

7. To understand how to differentiate coaching for educators who work in a variety of educational settings.

ITLS6510 - Evaluation and Research - 3 - Credits

Course Overview

Course Prefix
ITLS

Course Number
6510

Department
Instructional Technology & Learning Sciences

Course Title
Evaluation and Research

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides an overview of evaluation and research paradigms and methodologies that might be used for needs assessment, product evaluation, validation, and research. Emphasis is placed on critical reading, analysis, and synthesis of published evaluation and research findings.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Admission to the Instructional Technology and Learning Sciences (ITLS) department

No Requirements

ITLS6515 - Evaluation and Assessment - 3 - Credits

Course Overview

Course Prefix
ITLS

Course Number
6515

Department
Instructional Technology & Learning Sciences

Course Title
Evaluation and Assessment

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course examines theories and implementation of both formative and summative evaluation of instruction. It includes expert and learner feedback, assessment, rapid prototyping, and cost analysis.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Admission to the Instructional Technology and Learning Sciences (ITLS) Department

No Requirements

ITLS6520 - Instructional Design I - 3 - Credits

Course Overview

Course Prefix
ITLS

Course Number
6520

Department
Instructional Technology & Learning Sciences

Course Title
Instructional Design I

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course examines key techniques in design of instruction. Students apply principles to specific design problems. The course introduces techniques for developing instructional products according to completed designs.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Admission to the Instructional Technology and Learning Sciences (ITLS) department

No Requirements

ITLS6530 - Instructional Design II - 3 - Credits

Course Overview

Course Prefix
ITLS

Course Number
6530

Department
Instructional Technology & Learning Sciences

Course Title
Instructional Design II

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course examines deepening complexity models of instructional design. It reviews research from cognitive psychology and instructional design to link theory and practice. Work products are fully developed instructional design documents explicitly linked to theory and evidence of effectiveness.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Admission to the Instructional Technology and Learning Sciences (ITLS) Department

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ITLS6520 - Instructional Design I

ITLS6535 - Design Thinking - 3 - Credits

Course Overview

Course Prefix
ITLS

Course Number
6535

Department
Instructional Technology & Learning Sciences

Course Title
Design Thinking

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course explores design thinking methods and approaches, and tools that support them. Topics include human-centered design, user experience, and user interface design; and tools include rapid prototyping, wire-framing, user testing, and collaborative design methodologies.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Admission to the Instructional Technology and Learning Sciences department

No Requirements

ITLS6540 - Learning Theory - 3 - Credits

Course Overview

Course Prefix
ITLS

Course Number
6540

Department
Instructional Technology & Learning Sciences

Course Title
Learning Theory

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides an overview of major theoretical perspectives that attempt to describe how learning works. It also explores some contemporary learning and learning environment issues of interest to Instructional Technologists and Learning Scientists.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Admission to the Instructional Technology and Learning Sciences (ITLS) Department

No Requirements

ITLS6545 - Socio-Cultural Learning Theory - 3 - Credits

Course Overview

Course Prefix
ITLS

Course Number
6545

Department
Instructional Technology & Learning Sciences

Dual-Listed Courses
ITLS7545 - Socio-Cultural Learning Theory

Course Title
Socio-Cultural Learning Theory

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course offers an opportunity for students to deepen their understanding of learning whether in academia, industry, or K12 education. Learning theories explored are dependent on instructor choice.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ANY of the following Courses:

- ITLS6540 - Learning Theory
  OR TEAL7310 - Teaching-Learning Foundations in Education

ITLS6560 - Project and Organizational Management - 3 - Credits

Course Overview

Course Prefix
ITLS

Course Number
6560

Department
Instructional Technology & Learning Sciences

Course Title
Project and Organizational Management

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course is designed to introduce students to project and organizational management aims and processes. Students are exposed to multiple perspectives and apply a perspective while managing an instructional design project.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Admission to the Instructional Technology and Learning Sciences department

No Requirements

ITLS6570 - Performance Systems - 3 - Credits

Course Overview

Course Prefix
ITLS

Course Number
6570

Department
Instructional Technology & Learning Sciences

Course Title
Performance Systems

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Application of theory, principles, and practice of organizational systems and human competence in designing performance support systems, job aids, and just-in-time instruction.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

ITLS6650 - Research Seminar - 1 - Credits

Course Overview

Course Prefix
ITLS

Course Number
6650

Department
Instructional Technology & Learning Sciences

Course Title
Research Seminar

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Provides opportunity for exchange of ideas by Instructional Technology master's students pursuing a Plan A option. Includes discussion of publications and products.

Credit Hours

Credit Hours Min:
1

Contact Hours

Contact Hours Min:
1

Billing Hours

Billing Hours Min:
1

Lecture Hours

Lecture Hours Min:
1

No Requirements

ITLS6700 - Special Topics - 1 - 3 Credits

Course Overview

Course Prefix
ITLS

Course Number
6700

Department
Instructional Technology & Learning Sciences

Course Title
Special Topics

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course consists of special topics that will correspond with the approved CE courses for ITLS.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

No Requirements

ITLS6720 - Instructional Technology in Adult Education - 3 - Credits

Course Overview

Course Prefix
ITLS

Course Number
6720

Department
Instructional Technology & Learning Sciences

Course Title
Instructional Technology in Adult Education

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Application of theory, principles, and practice of instructional technology in providing instruction to adult learners.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

ITLS6730 - Games and Learning - 3 - Credits

Course Overview

Course Prefix
ITLS

Course Number
6730

Department
Instructional Technology & Learning Sciences

Course Title
Games and Learning

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides an overview of the research on games and learning. Drawing on research from education, psychology, and game studies, students examine the history of video games, research on gameplay and players, and the role of design in play and learning.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

ITLS6750 - Instructional Technology Workshop - 1 - 4 Credits

Course Overview

Course Prefix
ITLS

Course Number
6750

Department
Instructional Technology & Learning Sciences

Course Title
Instructional Technology Workshop

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Special training and experience in the latest concepts and innovations in instructional technology. Content changes reflecting the most recent topics and problems facing the profession.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
4

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
4

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
4

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
4

Lecture Hours Operator:
TO

No Requirements

ITLS6760 - Grant and Proposal Writing - 3 - Credits

Course Overview

Course Prefix
ITLS

Course Number
6760

Department
Instructional Technology & Learning Sciences

Course Title
Grant and Proposal Writing

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course in an introduction to the many facets of grant and proposal writing. Students respond to an actual RFP, submit to the requisite agency, and reflectively critique other proposals.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

ITLS6770 - Practicum in the Improvement of Instruction - 1 - 4 Credits

Course Overview

Course Prefix
ITLS

Course Number
6770

Department
Instructional Technology & Learning Sciences

Course Title
Practicum in the Improvement of Instruction

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
A field-based program focused upon characteristics of effective teaching methodologies, teaching performance, curriculum decision making, value guidelines, and the characteristics of the learner.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
4

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
4

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
4

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
4

Lecture Hours Operator:
TO

No Requirements

ITLS6870 - Current Issues Seminar - 1 - 3 Credits

Course Overview

Course Prefix
ITLS

Course Number
6870

Department
Instructional Technology & Learning Sciences

Course Title
Current Issues Seminar

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course allows exploration of new cutting-edge topics in the field. Topics vary and are announced the semester prior to registration. Topics may be theory or practice based.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

No Requirements

ITLS6900 - Independent Study - 1 - 6 Credits

Course Overview

Course Prefix
ITLS

Course Number
6900

Department
Instructional Technology & Learning Sciences

Course Title
Independent Study

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
Individually directed study and projects.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
6

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
6

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
6

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
6

Lecture Hours Operator:
TO

Special Approval

Permission of department

No Requirements

ITLS6910 - Independent Research - 1 - 6 Credits

Course Overview

Course Prefix
ITLS

Course Number
6910

Department
Instructional Technology & Learning Sciences

Course Title
Independent Research

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
Individually directed research.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
6

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
6

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
6

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
6

Lecture Hours Operator:
TO

Special Approval
Permission of department

No Requirements

ITLS6940 - Internship - 1 - 6 Credits

Course Overview

Course Prefix
ITLS

Course Number
6940

Department
Instructional Technology & Learning Sciences

Course Title
Internship

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
An on-site experience in which the student applies knowledge and skills in a work environment. Used as culminating experience for the MS or MEd, Plan C.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
6

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
6

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
6

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
6

Lecture Hours Operator:
TO

No Requirements

ITLS6960 - Creative Project - 1 - 6 Credits

Course Overview

Course Prefix
ITLS

Course Number
6960

Department
Instructional Technology & Learning Sciences

Course Title
Creative Project

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
Individual experience in instructional product development. May be used as the culminating experience for the MEd and MS Plan C.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
6

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
6

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
6

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
6

Lecture Hours Operator:
TO

No Requirements

ITLS6970 - Thesis - 1 - 6 Credits

Course Overview

Course Prefix
ITLS

Course Number
6970

Department
Instructional Technology & Learning Sciences

Course Title
Thesis

Grade Mode
Temporary Pass/Fail

Repeat Status
RP

Course Description
Individual work in MS thesis and Plan B report writing with guidance and criticism.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
6

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
6

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
6

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
6

Lecture Hours Operator:
TO

No Requirements

ITLS6990 - Continuing Graduate Advisement - 1 - 8 Credits

Course Overview

Course Prefix
ITLS

Course Number
6990

Department
Instructional Technology & Learning Sciences

Course Title
Continuing Graduate Advisement

Grade Mode
Temporary Pass/Fail

Repeat Status
RP

Course Description
Allows students access to faculty and facilities to complete graduate thesis, project, and papers.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
8

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
8

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
8

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
8

Lecture Hours Operator:
TO

No Requirements

ITLS7000 - Pro-seminar I in Instructional Technology - 3 - Credits

Course Overview

Course Prefix
ITLS

Course Number
7000

Department
Instructional Technology & Learning Sciences

Course Title
Pro-seminar I in Instructional Technology

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Lectures and discussions on advanced topics in instructional technology and related disciplines. Required for Instructional Technology EdS and PhD students.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Registration Restrictions

Admission to PhD program in Instructional Technology and Learning Sciences ***or*** EdS program in Instructional Technology

No Requirements

ITLS7011 - Introduction to Theories and Methods of Instructional Technology and Learning Sciences I - 3 - Credits

Course Overview

Course Prefix
ITLS

Course Number
7011

Department
Instructional Technology & Learning Sciences

Course Title
Introduction to Theories and Methods of Instructional Technology and Learning Sciences I

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides a broad overview of major theoretical perspectives that attempt to describe how learning works. Implications for design and research are discussed.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Students will be able to describe and distinguish different prominent theories of learning and the key characteristics of each theory, its processes and mechanisms, including how it frames learning.

2. Students will be able to compare and contrast key characteristics of different theories of learning, including the behaviorist, cognitivist, and sociocultural paradigms of learning.

3. Students will be able to interpret how a theory of learning's key characteristics influences/shapes designs for learning.

4. Students will be able to interpret how a theory of learning's key characteristics influences how researchers study it (what methods they use).

5. Students will be able to describe how these theories relate to their own experiences as a learner and educator.

ITLS7015 - Introduction to Theories and Methods of Instructional Technology and Learning Sciences II - 3 - Credits

Course Overview

Course Prefix
ITLS

Course Number
7015

Department
Instructional Technology & Learning Sciences

Course Title
Introduction to Theories and Methods of Instructional Technology and Learning Sciences II

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides a broad overview of how theories of learning have been applied to the design of learning environments and the methods used to research learning across different learning contexts.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ITLS7011 - Introduction to Theories and Methods of Instructional Technology and Learning Sciences I

Course Learning Objectives

Course Learning Outcomes

1. Students will be able to describe and distinguish how different prominent theories of learning are embedded in designs for and of learning.

2. Students will be able to compare and contrast approaches for measuring learning.

3. Students will be able to interpret how a theory of learning's key characteristics influences/shapes designs for learning.

4. Students will be able to interpret how a theory of learning's key characteristics influences how researchers study it (what methods they use).

ITLS7021 - Conducting a Literature Review - 3 - Credits

Course Overview

Course Prefix
ITLS

Course Number
7021

Department
Instructional Technology & Learning Sciences

Course Title
Conducting a Literature Review

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course prepares students on how to read, evaluate, and then synthesize research articles with an emphasis on the research methods.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ITLS7011 - Introduction to Theories and Methods of Instructional Technology and Learning Sciences I

Course Learning Objectives

Course Learning Outcomes

1. Students will be able to review and assess research articles critically.

2. Students will be able to carry out a systematic search of literature.

3. Students will be able to distinguish qualitative from quantitative research on the basis of key features.

4. Students will be able to describe how theory influences research methods.

ITLS7025 - Foundations In Instructional Technology and Learning Sciences - 3 - Credits

Course Overview

Course Prefix
ITLS

Course Number
7025

Department
Instructional Technology & Learning Sciences

Course Title
Foundations In Instructional Technology and Learning Sciences

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students develop an understanding of the foundational debates in instructional technology and learning sciences that have shaped the evolution of the field. Students examine underlying assumptions, methodological perspectives, and the structure of scholarly arguments as used in the field.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ITLS7011 - Introduction to Theories and Methods of Instructional Technology and Learning Sciences I
- ITLS7015 - Introduction to Theories and Methods of Instructional Technology and Learning Sciences II
- ITLS7021 - Conducting a Literature Review

ITLS7150 - Advanced Seminar in Instructional Technology - 3 - Credits

Course Overview

Course Prefix
ITLS

Course Number
7150

Department
Instructional Technology & Learning Sciences

Course Title
Advanced Seminar in Instructional Technology

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
In-depth study of various topics including learning theory, instructional design, instructional theory, instructional development tools, production techniques, and instructional applications in different cultures. Specific topics for each semester will be announced.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

ITLS7340 - Building Community Partnerships in Research Contexts - 3 - Credits

Course Overview

Course Prefix
ITLS

Course Number
7340

Department
Instructional Technology & Learning Sciences

Course Title
Building Community Partnerships in Research Contexts

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers the cultivation of authentic, equitable, and sustainable partnerships across all lines of research inquiry. Students explore foundational theories and critical considerations of partnership building and learn practical skills for sharing this work through publications, presentations, and community outputs.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

ITLS7350 - Ethnography - 3 - Credits

Course Overview

Course Prefix
ITLS

Course Number
7350

Department
Instructional Technology & Learning Sciences

Course Title
Ethnography

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers advanced research methods in ethnography. Students conceptualize questions about the world in addition to collecting methods for doing research, and engage with both the “looking” and “seeing” aspects of ethnography.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

ITLS7360 - Design Based Research - 3 - Credits

Course Overview

Course Prefix
ITLS

Course Number
7360

Department
Instructional Technology & Learning Sciences

Course Title
Design Based Research

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students learn and apply Design-Based Research and Design-Based Implementation Research methodologies. Students explore these methodologies to organize research and improvement efforts in education, and engage with scholarly work and complete design workshops.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Course Learning Objectives

Course Learning Outcomes

1. Understand the epistemological stances from which DBR and DBIR emerge and how these perspectives play out in methodological choices.

2. Draw lessons from other DBR and DBIR projects and related scholarship that arose from these projects, to apply to one’s own research.

3. Workshop different methodological approaches and strategies that have been developed in the field.

4. Develop one’s own research proposal that utilizes DBR or DBIR as a core approach.

ITLS7450 - Internship in Program Evaluation - 1 - 4 Credits

Course Overview

Course Prefix
ITLS

Course Number
7450

Department
Instructional Technology & Learning Sciences

Course Title
Internship in Program Evaluation

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
Experience in practical aspects of program evaluation through planned, supervised evaluation project. Participation must be approved by student's supervisory committee.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
4

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
4

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
4

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
4

Lecture Hours Operator:
TO

No Requirements

ITLS7460 - Internship in Research - 1 - 4 Credits

Course Overview

Course Prefix
ITLS

Course Number
7460

Department
Instructional Technology & Learning Sciences

Course Title
Internship in Research

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
Experience in conducting research through planned, supervised evaluation project. Participation must be approved by student's supervisory committee.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
4

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
4

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
4

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
4

Lecture Hours Operator:
TO

No Requirements

ITLS7545 - Socio-Cultural Learning Theory - 3 - Credits

Course Overview

Course Prefix
ITLS

Course Number
7545

Department
Instructional Technology & Learning Sciences

Dual-Listed Courses
ITLS6545 - Socio-Cultural Learning Theory

Course Title
Socio-Cultural Learning Theory

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course offers an opportunity for students to deepen their understanding of learning whether in academia, industry, or K12 education. Learning theories explored are dependent on instructor choice.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ANY of the following Courses:

- ITLS6540 - Learning Theory
  OR TEAL7310 - Teaching-Learning Foundations in Education

ITLS7820 - Practicum in Instructional Technology - 2 - Credits

Course Overview

Course Prefix
ITLS

Course Number
7820

Department
Instructional Technology & Learning Sciences

Course Title
Practicum in Instructional Technology

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
Requires four practica selected from the following: funding proposal, product/ research, review product development, evaluation, empirical investigation, and teaching.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Registration Restrictions
Admission to Instructional Technology EdS and PhD students only

Special Approval
Instructor permission

No Requirements

ITLS7870 - Current Issues Seminar - 1 - 3 Credits

Course Overview

Course Prefix
ITLS

Course Number
7870

Department
Instructional Technology & Learning Sciences

Course Title
Current Issues Seminar

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course allows exploration of new cutting edge topics in the field. Topics vary and are announced the semester prior to registration. Topics may be theory or practice based.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

No Requirements

ITLS7900 - Independent Study - 1 - 6 Credits

Course Overview

Course Prefix
ITLS

Course Number
7900

Department
Instructional Technology & Learning Sciences

Course Title
Independent Study

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
Individually directed study and projects.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
6

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
6

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
6

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
6

Lecture Hours Operator:
TO

Special Approval

Permission of department

No Requirements

ITLS7910 - Independent Research - 1 - 6 Credits

Course Overview

Course Prefix
ITLS

Course Number
7910

Department
Instructional Technology & Learning Sciences

Course Title
Independent Research

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
Provides for individually directed research.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
6

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
6

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
6

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
6

Lecture Hours Operator:
TO

Special Approval

Permission of department

No Requirements

ITLS7960 - Practicum, Educational Specialist - 1 - 9 Credits

Course Overview

Course Prefix
ITLS

Course Number
7960

Department
Instructional Technology & Learning Sciences

Course Title
Practicum, Educational Specialist

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
Culminating project/externship in partial fulfillment of the Educational Specialist degree.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
9

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
9

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
9

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
9

Lecture Hours Operator:
TO

No Requirements

ITLS7970 - Dissertation - 1 - 18 Credits

Course Overview

Course Prefix
ITLS

Course Number
7970

Department
Instructional Technology & Learning Sciences

Course Title
Dissertation

Grade Mode
Temporary Pass/Fail

Repeat Status
RP

Course Description
Individual work on research problems in the PhD program.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
18

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
18

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
18

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
18

Lecture Hours Operator:
TO

No Requirements

ITLS7990 - Continuing Graduate Advisement - 1 - 9 Credits

Course Overview

Course Prefix
ITLS

Course Number
7990

Department
Instructional Technology & Learning Sciences

Course Title
Continuing Graduate Advisement

Grade Mode
Temporary Pass/Fail

Repeat Status
RP

Course Description
Allows graduate students access to faculty and facilities to complete graduate dissertation.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
9

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
9

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
9

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
9

Lecture Hours Operator:
TO

No Requirements

JAPN1010 - Japanese First Year I - 4 - Credits

Course Overview

Course Prefix
JAPN

Course Number
1010

Department
World Languages and Cultures

Course Title
Japanese First Year I

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
First course in beginning Japanese. Proficiency in the recognition of the basic Japanese sound system by learning Hiragana and Katakana. Communicative mastery of sentences having polite and plain forms of verbs, adjectives, and copula. Exposure to Japanese culture and customs.

Credit Hours

Credit Hours
Min:
4

Contact Hours

Contact Hours
Min:
4

Billing Hours

Billing Hours
Min:
4

Lecture Hours

Lecture Hours
Min:
4

JAPN1020 - Japanese First Year II - 4 - Credits

Course Overview

Course Prefix
JAPN

Course Number
1020

Department
World Languages and Cultures

Course Title
Japanese First Year II

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This is the second course in beginning Japanese. Introduction to the basic 100 Kanji. Mastery of more complicated sentences, including conditional temporal, volitional, and potential expressions. Exposure to Japanese culture and customs.

Credit Hours

Credit Hours
Min:
4

Contact Hours

Contact Hours
Min:
4

Billing Hours

Billing Hours
Min:
4

Lecture Hours

Lecture Hours
Min:
4

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Earn a minimum grade of C- in the following:

- JAPN1010 - Japanese First Year I

Exam

Language Proficiency Exam

- USU World Languages and Cultures Language Proficiency Placement test score of 320-369

JAPN2010 - Japanese Second Year I - 4 - Credits

Course Overview

Course Prefix
JAPN

Course Number
2010

Department
World Languages and Cultures

Course Title
Japanese Second Year I

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students gain proficiency in reading and writing 150 additional Kanji. Mastery of grammar topics such as: passive, causative, passive causative, and giving/receiving expressions. Introduction to honorific/humble expression. Exposure to Japanese culture and customs.

Credit Hours

Credit Hours Min:
4

Contact Hours

Contact Hours Min:
4

Billing Hours

Billing Hours Min:
4

Lecture Hours

Lecture Hours Min:
4

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Fulfill ANY of the following requirements:

Coursework

Earn a minimum grade of C- in the following:

- JAPN1020 - Japanese First Year II

OR

Exam

Language Proficiency Exam

- USU World Languages and Cultures Language Proficiency Placement test score of 370-439

JAPN2020 - Japanese Second Year II - 4 - Credits

Course Overview

Course Prefix
JAPN

Course Number
2020

Department
World Languages and Cultures

Course Title
Japanese Second Year II

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students develop proficiency in reading 150 additional Kanji and writing 200 additional Kanji. Mastery of frequently used idioms and expressions. Further exposure to authentic reading materials, and to Japanese culture and customs. Competency in writing short essays.

Credit Hours

Credit Hours Min:
4

Contact Hours

Contact Hours Min:
4

Billing Hours

Billing Hours Min:
4

Lecture Hours

Lecture Hours Min:
4

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Fulfill ANY of the following requirements:

Coursework

Earn a minimum grade of C- in the following:

- JAPN2010 - Japanese Second Year I

OR

Exam

Language Proficiency Exam

- USU World Languages and Cultures Language Proficiency Placement test score of 440-499

JAPN2988 - Special Problems - 1 - 3 Credits

Course Overview

Course Prefix
JAPN

Course Number
2988

Department
World Languages and Cultures

Course Title
Special Problems

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
An elective course intended for advanced students. Students will work individually with the instructor to develop reading, writing, listening and speaking skills. Emphasis will be on advanced grammar and conversation. Japanese culture will also be emphasized. Significant reading and work outside of class are required.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

Special Approval

Instructor permission

No Requirements

JAPN3000 - Gateway to Upper-Division Japanese - 4 - Credits

Course Overview

Course Prefix
JAPN

Course Number
3000

Department
World Languages and Cultures

Course Title
Gateway to Upper-Division Japanese

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course prepares students for Japanese Third Year I. Using grammar and vocabulary learned throughout the lower-division courses, students learn to research, discuss, and present in Japanese. Critical and reflective thinking skills are practiced through various topics and activities.

Credit Hours

Credit Hours Min:
4

Contact Hours

Contact Hours Min:
4

Billing Hours

Billing Hours Min:
4

Lecture Hours

Lecture Hours Min:
4

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Fulfill ANY of the following requirements:

Coursework

Complete ALL of the following Courses:

- JAPN2020 - Japanese Second Year II

OR

Exam

Language Proficiency Exam

- USU World Languages and Cultures Language Proficiency Placement test score of 500

JAPN3010 - Japanese Third Year I - 4 - Credits

Course Overview

Course Prefix
JAPN

Course Number
3010

Department
World Languages and Cultures

Course Title
Japanese Third Year I

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
First segment of the third-year Japanese reading/writing course. Proficiency in reading and writing an additional 500 Kanji.

Credit Hours

Credit Hours
Min:
4

Contact Hours

Contact Hours
Min:
4

Billing Hours

Billing Hours
Min:
4

Lecture Hours

Lecture Hours
Min:
4

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Fulfill ANY of the following requirements:

Coursework

Complete ALL of the following Courses:

- JAPN2020 - Japanese Second Year II

OR

Exam

Language Proficiency Exam

- USU World Languages and Cultures Language Proficiency Placement test score of 500+

JAPN3020 - Japanese Third Year II - 4 - Credits

Course Overview

Course Prefix
JAPN

Course Number
3020

Department
World Languages and Cultures

Course Title
Japanese Third Year II

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course is a second segment of the third-year Japanese reading/writing course. Proficiency in reading and writing an additional 500 Kanji.

Credit Hours

Credit Hours
Min:
4

Contact Hours

Contact Hours
Min:
4

Billing Hours

Billing Hours
Min:
4

Lecture Hours

Lecture Hours
Min:
4

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Fulfill ANY of the following requirements:

Coursework

Complete ALL of the following Courses:

- JAPN3010 - Japanese Third Year I

OR

Exam

Language Proficiency Exam

- USU World Languages and Cultures Language Proficiency Placement test score of 600

Exam

Language Proficiency Exam

- USU World Languages and Cultures Language Proficiency Placement test score of 600

JAPN3050 - Japanese Calligraphy - 1 - Credits

Course Overview

Course Prefix
JAPN

Course Number
3050

Department
World Languages and Cultures

Cross-Listed Courses
ART3050 - Japanese Calligraphy

Course Title
Japanese Calligraphy

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Study of Japanese writing system through practicing the art of calligraphy.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

No Requirements

JAPN3060 - Japanese Communication - 3 - Credits

Course Overview

Course Prefix
JAPN

Course Number
3060

Department
World Languages and Cultures

Course Title
Japanese Communication

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students enhance their communication skills in Japanese through diverse speaking activities and virtual exchanges, while also developing autonomy by setting and achieving personal learning goals.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- JAPN2020 - Japanese Second Year II

Course Learning Objectives

Course Learning Outcomes

1. Through a variety of speaking activities, students will understand how to improve their oral proficiency in Japanese and apply these skills to work towards achieving an intermediate level of proficiency.
2. Students will develop the ability to take charge of their learning by setting personal goals, creating methods to achieve them, and evaluating their progress to become autonomous learners.
3. Through virtual exchanges with students from Japanese elementary and high schools, as well as with students studying Japanese at other universities in the U.S., students will develop communication skills in Japanese that differ from those gained through face-to-face classroom conversations.

JAPN3070 - Introduction to Japanese Culture and Society - 1 - Credits

Course Overview

Course Prefix
JAPN

Course Number
3070

Department
World Languages and Cultures

Course Title
Introduction to Japanese Culture and Society

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces key aspects of Japanese culture and society to foster intercultural awareness. Designed for travelers and curious learners, it requires no prior knowledge of Japanese and explores traditions, etiquette, pop culture, and daily life in Japan.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Course Learning Objectives

Course Learning Outcomes

1. Students will identify key elements of Japanese culture and society, including customs, traditions, and social norms, to build foundational cultural knowledge.
2. Students will compare Japanese cultural practices with those of the students' own cultures to develop intercultural awareness and sensitivity.
3. Students will apply culturally appropriate behaviors and communication strategies in hypothetical travel scenarios to prepare for respectful and meaningful engagement in Japan.

JAPN3080 - Japanese Service Learning - 3 - Credits

Course Overview

Course Prefix
JAPN

Course Number
3080

Department
World Languages and Cultures

Course Title
Japanese Service Learning

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
In this course, students explore Japanese culture, history, and society, create and deliver lessons for K-12 students, and reflect on their teaching experiences to foster cultural appreciation and develop educational skills.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Japanese - Minor

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- JAPN1020 - Japanese First Year II

Course Learning Objectives

Course Learning Outcomes

1. Students will analyze and evaluate Japanese culture, history, and societal norms, comparing and contrasting these aspects with their own culture to foster a greater appreciation for cultural diversity.
2. Students will create and deliver engaging mini-lessons/workshops on Japan-related topics, applying skills in lesson planning, public speaking, and classroom management tailored to different K-12 age groups.
3. Students will engage with K-12 institutions and reflect on their teaching experiences, understanding the impact of their lessons on both the students and themselves.

JAPN3090 - Introduction to Japanese Literature - 3 - Credits

Course Overview

Course Prefix
JAPN

Course Number
3090

Department
World Languages and Cultures

Course Title
Introduction to Japanese Literature

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course will introduce students to a variety of forms and styles of Japanese literary works.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

JAPN3100 - Readings in Contemporary Japanese Culture - 3 - Credits

Course Overview

Course Prefix
JAPN

Course Number
3100

Department
World Languages and Cultures

Course Title
Readings in Contemporary Japanese Culture

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course is an introduction to contemporary Japanese culture through readings from news media and authentic other source materials. Students develop reading skills and cultural competencies.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- JAPN3010 - Japanese Third Year I

JAPN3150 - Tadoku: Extensive Reading in Japanese - 1 - Credits

Course Overview

Course Prefix
JAPN

Course Number
3150

Department
World Languages and Cultures

Course Title
Tadoku: Extensive Reading in Japanese

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces Tadoku, a Japanese extensive reading method, guiding students to select appropriate texts, reflect on reading habits, and develop personalized reading plans to build vocabulary, fluency, skills, and enjoyment.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Special Approval

Other Enrollment Recommendations

Japanese - Minor

Simple Requisites

Prerequisite

Type
Completion Requirement

Required

Fulfill ANY of the following requirements:

Coursework

Complete ALL of the following Courses:

- JAPN1010 - Japanese First Year I

(may be taken concurrently)

OR

Exam

Language Proficiency Exam

- USU World Language and Cultures Language Proficiency Placement test score of 320-369

Course Learning Objectives

Course Learning Outcomes

1. Students will apply the core principles of Tadoku by selecting appropriate reading materials and engaging in independent reading without translation aids.
2. Students will analyze their reading habits and evaluate their progress based on enjoyment, comprehension, and reading volume rather than test scores.
3. Students will create a personalized Tadoku reading plan and maintain a journal to document their reading experiences and vocabulary growth.

JAPN3300 - Interdisciplinary Project in Japan - 1 - Credits

Course Overview

Course Prefix
JAPN

Course Number
3300

Department
World Languages and Cultures

Course Title
Interdisciplinary Project in Japan

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This student-centered, project-based course applies project-based language learning principles, enabling students to use Japanese in real-world projects while integrating knowledge and skills from their majors or minors through interdisciplinary collaboration.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Special Approval

Instructor Permission

Course Learning Objectives

Course Learning Outcomes

1. Students will apply Japanese language skills in real-world, project-based contexts by integrating knowledge and skills from their academic majors or minors.
2. Students will analyze the dynamics of interdisciplinary collaboration, evaluate the effectiveness of their language use and teamwork, and consider how their own academic background can contribute meaningfully to the success of group projects.
3. Students will design, develop, and present a final project in Japanese that demonstrates their ability to synthesize language proficiency with disciplinary expertise to address real-world issues through collaborative inquiry.

JAPN3510 - Japanese for the Business Environment - 3 - Credits

Course Overview

Course Prefix
JAPN

Course Number
3510

Department
World Languages and Cultures

Course Title
Japanese for the Business Environment

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students learn mastery of technical terms related to Japanese business and its environment. Communicative competency in contemporary Japanese society.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- JAPN3010 - Japanese Third Year I

JAPN3560 - Studies in Japanese Film - 3 - Credits

Course Overview

Course Prefix
JAPN

Course Number
3560

Department
World Languages and Cultures

Course Title
Studies in Japanese Film

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Offers an introduction to the historical and theoretical study of Japanese cinema. Course screenings include some of the films made by well-known directors during the 1960s and 1970s, as well as the cutting-edge of contemporary films.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

JAPN4200 - Introduction to Japanese Linguistics - 3 - Credits

Course Overview

Course Prefix
JAPN

Course Number
4200

Department
World Languages and Cultures

Course Title
Introduction to Japanese Linguistics

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students explore key aspects of Japanese linguistics, including phonetics, semantics, syntax, and pragmatics in a bilingual setting with class taught in both English and Japanese.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Fulfill ANY of the following requirements:

Coursework

Complete ALL of the following Courses:

- JAPN2020 - Japanese Second Year II

OR

Exam

Language Proficiency Exam

- USU World Language and Cultures Language Proficiency test score of 500+

Course Learning Objectives

Course Learning Outcomes

1. Students will be able to deepen their understanding of key aspects of the Japanese language by revisiting previously studied material from various perspectives, including phonetics, semantics, syntax, and pragmatics.

2. Students will be able to gain insights into the characteristics of Japanese and other languages by comparing Japanese with other familiar languages, enhancing their overall language awareness.

3. Students will be able to apply the principles of Japanese linguistics to scientifically analyze their own use of the language, thereby improving their proficiency.

4. Students will be able to understand the diversity of the Japanese language by examining regional, gender, and age-related variations, encouraging them to critically evaluate the standardized norms associated with Japanese.

JAPN4250 - Internship/Coop - 3 - 9 Credits

Course Overview

Course Prefix
JAPN

Course Number
4250

Department
World Languages and Cultures

Course Title
Internship/Coop

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Cooperative education through internship programs provided by companies in Japan. Intended for students participating in the U.S.-Japan internship program.

Credit Hours

Credit Hours Min:
3

Credit Hours Max:
9

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
3

Contact Hours Max:
9

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
3

Billing Hours Max:
9

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
3

Lecture Hours Max:
9

Lecture Hours Operator:
TO

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- JAPN3010 - Japanese Third Year I

- JAPN3020 - Japanese Third Year II
- JAPN3510 - Japanese for the Business Environment

JAPN4800 - Japanese Education System - Study Abroad - 3 - Credits

Course Overview

Course Prefix
JAPN

Course Number
4800

Department
World Languages and Cultures

Course Title
Japanese Education System - Study Abroad

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
In this course, students compare Japanese and US educational systems, analyze Japanese cultural norms, and apply their language skills in Japan through experiential learning to identify strengths and areas for improvement, enhancing their critical thinking and language proficiency.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- JAPN1020 - Japanese First Year II

JAPN4920 - Japanese Language Tutoring - 1 - Credits

Course Overview

Course Prefix
JAPN

Course Number
4920

Department
World Languages and Cultures

Course Title
Japanese Language Tutoring

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Allows students to develop tutoring skills by assisting professors in lower-division courses or fulfilling instructional duties for a comparable amount of time in the language laboratory, public schools, or similar activities with departmental approval.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Special Approval

Instructor permission

No Requirements

JCOM1040 - Newspaper Production I - 3 - Credits

Course Overview

Course Prefix
JCOM

Course Number
1040

Department
Communication & Media

Course Title
Newspaper Production I

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers writing, research, layout and design, and photography of the USU Eastern campus newspaper, "The Eagle." Students learn how to interview, research, prepare news, viewpoints, features, and sports, in preparation for entering the print and digital communication field.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

JCOM1050 - Newspaper Production II - 3 - Credits

Course Overview

Course Prefix
JCOM

Course Number
1050

Department
Communication & Media

Course Title
Newspaper Production II

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers writing, research, layout and design, and photography of the USU Eastern campus newspaper, "The Eagle." Students learn how to interview, research, prepare news, viewpoints, features, and sports, in preparation for entering the print and digital communication field.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

JCOM1130 - Media Writing - 3 - Credits

Course Overview

Course Prefix
JCOM

Course Number
1130

Department
Communication & Media

Course Title
Media Writing

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers skills and techniques of writing for the news media. News values, philosophy, ethics, sourcing and real-world practice are explored. The course includes news-gathering and interviewing experience under deadline pressures.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete at least 1 course in the following course sets:

- Communications Literacy (CL1) Course

(may be fulfilled through coursework or examination)

JCOM1500 - Introduction to Mass Communication (BSS) - 3 - Credits

Course Overview

Course Prefix
JCOM

Course Number
1500

Department
Communication & Media

Course Title
Introduction to Mass Communication (BSS)

General Education Attribute
BSS

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
History, philosophy, structures, and functions of the mass media (newspapers, magazines, TV and radio, advertising, and public relations) and their intersection with other social institutions. Media economics and the impacts of new technologies on media institutions and society.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

JCOM1510 - Introduction to Broadcasting - 3 - Credits

Course Overview

Course Prefix
JCOM

Course Number
1510

Department
Communication & Media

Course Title
Introduction to Broadcasting

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Overview of the radio-television-cable industry with emphases to include history, technological innovations, programming practices, the business structure of the industry, and possible career paths available.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

JCOM1560 - Radio Production I - 3 - Credits

Course Overview

Course Prefix
JCOM

Course Number
1560

Department
Communication & Media

Course Title
Radio Production I

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students study various forms of podcast and radio content, and conceive of, produce, and broadcast their own content, learning to apply professional standards to the interviewing, storytelling, and producing processes.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

JCOM1660 - Introduction to Television - 3 - Credits

Course Overview

Course Prefix
JCOM

Course Number
1660

Department
Communication & Media

Course Title
Introduction to Television

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Study of the fundamentals of television production including design, shooting, editing, lighting techniques, and an examination of the technological underpinnings of the industry.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

JCOM1720 - Writing for Broadcast - 3 - Credits

Course Overview

Course Prefix
JCOM

Course Number
1720

Department
Communication & Media

Course Title
Writing for Broadcast

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Writing factual and fictional materials for broadcast media. Assignments include news, commercials, public service announcements, interviews, documentaries and other types of scripts. Students will be taught proper script formats for both radio and television writing.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- JCOM1560 - Radio Production I
- JCOM1660 - Introduction to Television

JCOM1800 - Communication Graphics - 3 - Credits

Course Overview

Course Prefix
JCOM

Course Number
1800

Department
Communication & Media

Course Title
Communication Graphics

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Introduction into the design of communication projects with special emphasis on creative typography, computer-assisted layout and design as well as publication techniques.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

JCOM1870 - Radio Production II - 3 - Credits

Course Overview

Course Prefix
JCOM

Course Number
1870

Department
Communication & Media

Course Title
Radio Production II

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course has practical, hands-on training experience in radio operations and production. Students fulfill various tasks associated with the operation of the campus radio station. Students produce promotional spots and underwriting and work regularly scheduled board shifts.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Developing specific skills, competencies, and points of view needed by professionals in the field most closely related to this course.

2. Acquiring skills in working with others as a member of a team.

3. Developing skills in expressing self orally and in writing.

JCOM2010 - Media Literacy (BSS) - 3 - Credits

Course Overview

Course Prefix
JCOM

Course Number
2010

Department
Communication & Media

Course Title
Media Literacy (BSS)

General Education Attribute
BSS

Grade Mode
Standard Letter

Repeat Status
NR

Course Description

This course includes exploration of the cultural forces that shape media messaging through instruction in digital investigation techniques; training in fact-checking; discussions of bias, influence, and complexity; and the study of media-cultivated conversations about race, class, gender, sexuality, and ability.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete at least 1 course in the following course sets:

- Communications Literacy (CL1) Course

(may be fulfilled through coursework or examination)

JCOM2020 - Communication Research Methods (QI) - 3 - Credits

Course Overview

Course Prefix
JCOM

Course Number
2020

Department
Communication & Media

Course Title
Communication Research Methods (QI)

General Education Attribute
QI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description

This course covers research methods used in the mass communication field with practical application of quantitative information within journalism and public relations. This course emphasizes using numbers to help audiences make sense of issues and events.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Earn a minimum grade of C+ in the following:

- JCOM1500 - Introduction to Mass Communication (BSS) **OR** JCOM2010 - Media Literacy (BSS)

Required

Complete at least 1 of the following courses:

- STAT1040 - Introduction to Statistics (QL)
- STAT1045 - Introduction to Statistics with Elements with Algebra (QL)
- STAT1080 - Foundations of Data Science (QL)
- STAT2000 - Statistical Methods (QI)

- STAT2300 - Business Statistics (QL)

OR AP STAT with a test score of 3 or higher

JCOM2030 - Multimedia Bootcamp - 4 - Credits

Course Overview

Course Prefix
JCOM

Course Number
2030

Department
Communication & Media

Course Title
Multimedia Bootcamp

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course teaches the basics of digital multimedia skills. Students learn audio recording and radio storytelling, photography, photo editing, and video recording, editing, and storytelling. Outstanding student work may be published on local radio, television, and websites.

Credit Hours

Credit Hours
Min:
4

Contact Hours

Contact Hours
Min:
4

Billing Hours

Billing Hours
Min:
4

Lecture Hours

Lecture Hours
Min:
4

JCOM2040 - Live Studio and Field Video Production - 2 - Credits

Course Overview

Course Prefix
JCOM

Course Number
2040

Department
Communication & Media

Course Title
Live Studio and Field Video Production

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course teaches essential skills for live video production, including operating studio cameras, setting up lighting, directing, audio mixing, running teleprompters, and technical directing. Additionally, students gain experience shooting promos, teases, and planning field productions for editing after on-location shoots.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Course Learning Objectives

Course Learning Outcomes

1. Get students video experience on a live field production and with production equipment.

2. Get more students working with real world equipment earlier in their college experience.

JCOM2070 - Newspaper Production - 3 - Credits

Course Overview

Course Prefix
JCOM

Course Number
2070

Department
Communication & Media

Course Title
Newspaper Production

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers writing, research, layout and design, and photography of the USU Eastern campus newspaper, "The Eagle." Students learn how to interview, research, prepare news, viewpoints, features, and sports, in preparation for entering the print and digital communication field.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

JCOM2080 - Newspaper Production IV - 3 - Credits

Course Overview

Course Prefix
JCOM

Course Number
2080

Department
Communication & Media

Course Title
Newspaper Production IV

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers writing, research, layout and design, and photography of the USU Eastern campus newspaper, "The Eagle." Students learn how to interview, research, prepare news, viewpoints, features, and sports, in preparation for entering the print and digital communication field.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

JCOM2160 - Introduction to Online Journalism - 3 - Credits

Course Overview

Course Prefix
JCOM

Course Number
2160

Department
Communication & Media

Course Title
Introduction to Online Journalism

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Use of interactive computer networks, databases, and other electronic resources. Development of personal web pages for portfolio building. Practice in information evaluation for news gathering.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Earn a minimum grade of C+ in the following:

- JCOM1130 - Media Writing
- JCOM1500 - Introduction to Mass Communication (BSS)
- JCOM2010 - Media Literacy (BSS)

JCOM2180 - Beginning Photojournalism - 3 - Credits

Course Overview

Course Prefix
JCOM

Course Number
2180

Department
Communication & Media

Course Title
Beginning Photojournalism

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students learn to tell journalistic stories with photographic images through practical, hands-on assignments. Emphasis is placed on technical skills while producing compelling, truthful, and ethical photographs. Students are expected to have a DSLR and a basic understanding of its operation.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

JCOM2220 - Introduction to Video Media - 3 - Credits

Course Overview

Course Prefix
JCOM

Course Number
2220

Department
Communication & Media

Course Title
Introduction to Video Media

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides an introduction to the theories and practice of video production and functions in broadcasting and the electronic mass media, including concepts, techniques, and impacts of various video approaches.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

JCOM2300 - Introduction to Public Relations - 3 - Credits

Course Overview

Course Prefix
JCOM

Course Number
2300

Department
Communication & Media

Course Title
Introduction to Public Relations

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course surveys the theories and practice of public relations in a variety of business, corporate, governmental, and nonprofit organizational settings. It also includes elements of promoting organizational messages and communicating with various publics.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

JCOM2400 - Introduction to Social Media - 3 - Credits

Course Overview

Course Prefix
JCOM

Course Number
2400

Department
Communication & Media

Course Title
Introduction to Social Media

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course addresses the history of social media platforms, the theoretical foundations for persuasion, message creation, and community building, and the ethical responsibilities of public communication. Students learn to analyze audiences across platforms and decide on the strongest messaging.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

JCOM2560 - Radio Production III - 1 - 3 Credits

Course Overview

Course Prefix
JCOM

Course Number
2560

Department
Communication & Media

Course Title
Radio Production III

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course has practical, hands-on training experience in radio operations and production. Students fulfill various tasks associated with the operation of the campus radio station. Students produce promotional spots and underwriting and work regularly scheduled board shifts.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- JCOM1560 - Radio Production I

JCOM2660 - Television Practicum - 1 - 3 Credits

Course Overview

Course Prefix
JCOM

Course Number
2660

Department
Communication & Media

Course Title
Television Practicum

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Advanced study in television production. The course is project based. Projects are determined by the needs of USU-Eastern, or available outside clients.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

JCOM2870 - Radio Production IV - 3 - Credits

Course Overview

Course Prefix
JCOM

Course Number
2870

Department
Communication & Media

Course Title
Radio Production IV

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course has practical, hands-on training experience in radio operations and production. Students fulfill various tasks associated with the operation of the campus radio station. Students produce promotional spots and underwriting and work regularly scheduled board shifts.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes
1. Developing specific skills, competencies, and points of view needed by professionals in the field most closely related to this course.

2. Acquiring skills in working with others as a member of a team.

3. Developing skills in expressing self orally and in writing.

JCOM2977 - Cooperative Education - 1 - 3 Credits

Course Overview

Course Prefix
JCOM

Course Number
2977

Department
Communication & Media

Course Title
Cooperative Education

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Provides supervised on-the-job training and experience in communication areas. Students establish learning objectives, hours to be worked, and a credit agreement with the faculty/coordinator at the beginning of the semester. Students then meet periodically with the faculty/coordinator to review progress.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

Special Approval
Instructor permission

No Requirements

JCOM2988 - Special Problems - 1 - 3 Credits

Course Overview

Course Prefix
JCOM

Course Number
2988

Department
Communication & Media

Course Title
Special Problems

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Individual work to be approved by instructor. Time and credit to be arranged.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

No Requirements

JCOM3030 - Corporate Communication - 3 - Credits

Course Overview

Course Prefix
JCOM

Course Number
3030

Department
Communication & Media

Course Title
Corporate Communication

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Communications and public relations professionals must have solid interpersonal, small group, public speaking and organizational communications skills to be effective in whatever organizational structure they find themselves in. They must also know how to lead, coach, and train their internal and external clients to be better communicators within their own organizations. This class was developed to give students an opportunity to learn and apply basic skills in those areas.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

JCOM3040 - Sports Multimedia - 3 - Credits

Course Overview

Course Prefix
JCOM

Course Number
3040

Department
Communication & Media

Course Title
Sports Multimedia

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course examines the role of digital media, social media, and analytics in sports. Students develop multimedia campaigns, analyze case studies, and use data to optimize performance, gaining skills to engage fans, promote brands, and drive revenue through strategic communication.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Course Learning Objectives

Course Learning Outcomes
1. Students will learn how to create and manage social media campaigns that engage sports fans, promote teams, athletes, and events, and build brand loyalty across platforms like Instagram, X, and TikTok.

2. Students will explore the principles of sports advertising, learning to design targeted digital ads and communication strategies that align with brand objectives and maximize fan engagement.

3. Students will learn to use data analytics tools to track fan engagement, evaluate the success of digital campaigns, and make data-driven decisions that optimize marketing and communication strategies.

4. Students will explore how sports organizations use digital platforms to raise funds, focusing on crowdfunding, online sponsorships, and community-driven fundraising efforts while creating strategies for effective campaigns.

5. Through hands-on projects, students will design and produce multimedia content—such as video, graphics, and written content—tailored for websites, apps, and social media to promote sports brands, events, and athletes.

JCOM3050 - Technical and Professional Communication Principles (CI) - 3 - Credits

Course Overview

Course Prefix
JCOM

Course Number
3050

Department
Communication & Media

Cross-Listed Courses
ASTE3050 - Technical and Professional Communication Principles (CI)

Course Title
Technical and Professional Communication Principles (CI)

General Education Attribute
CI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Technical communication principles and practices used in the workplace. Emphasizes technical writing of reports and correspondence using electronic information retrieval and presentation.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete at least 1 course in the following course sets:

- Communications Literacy (CL2) Course

JCOM3090 - Graphic Design in Agriculture and Media Industries - 3 - Credits

Course Overview

Course Prefix
JCOM

Course Number
3090

Department
Communication & Media

Cross-Listed Courses
ASTE3090 - Graphic Design in Agriculture and Media Industries

Course Title
Graphic Design in Agriculture and Media Industries

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Prepares students to be proficient in elements of design, graphic art production, photo editing, and image composition techniques used in agricultural communications and journalism fields.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

JCOM3100 - Reporting Public Affairs (CI) - 3 - Credits

Course Overview

Course Prefix
JCOM

Course Number
3100

Department
Communication & Media

Course Title
Reporting Public Affairs (CI)

General Education Attribute
CI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Emphasizes development of advanced reporting, newsgathering, interviewing, and writing skills.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Earn a minimum grade of C+ in the following:

- JCOM1130 - Media Writing
- JCOM1500 - Introduction to Mass Communication (BSS)
- JCOM2010 - Media Literacy (BSS)

JCOM3110 - Feature Writing (CI) - 3 - Credits

Course Overview

Course Prefix
JCOM

Course Number
3110

Department
Communication & Media

Course Title
Feature Writing (CI)

General Education Attribute
CI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This intensive feature-writing course emphasizes the research, writing, editing, and marketing of articles for magazines, newspapers, online sites, and other publications.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

JCOM3120 - Editing and Design (CI) - 3 - Credits

Course Overview

Course Prefix
JCOM

Course Number
3120

Department
Communication & Media

Course Title
Editing and Design (CI)

General Education Attribute
CI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students practice copyediting, proofreading, and electronic editing for a variety of publications, learning to apply style guides, design principles, and creativity to the content production process.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Other Enrollment Recommendations
JCOM1130 MEDIA WRITING

JCOM3140 - Opinion Writing (DSS) - 3 - Credits

Course Overview

Course Prefix
JCOM

Course Number
3140

Department
Communication & Media

Course Title
Opinion Writing (DSS)

General Education Attribute
DSS

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Study and practice of persuasive editorial and opinion writing for the mass media.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

JCOM3200 - Writing for Electronic Media - 3 - Credits

Course Overview

Course Prefix
JCOM

Course Number
3200

Department
Communication & Media

Course Title
Writing for Electronic Media

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Theory and practice of reporting public affairs for broadcast and electronic media. Emphasizes news gathering, understanding local political structures, news and feature writing, interviewing, media law, ethics, and cultural sensitivity.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Completed Course

Type
Prerequisite

Required

Earn a minimum grade of C+ in the following:

- JCOM1130 - Media Writing
- JCOM1500 - Introduction to Mass Communication (BSS)
- JCOM2010 - Media Literacy (BSS)

JCOM3310 - Writing for Public Relations (CI) - 3 - Credits

Course Overview

Course Prefix
JCOM

Course Number
3310

Department
Communication & Media

Course Title
Writing for Public Relations (CI)

General Education Attribute
CI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers the theory and practice of information-gathering for public relations, including basic news releases, features, speeches, annual reports, newsletters and brochures, broadcasting, and other forms. It emphasizes advanced news-gathering techniques, interviewing, media law, ethics, and cultural sensitivity.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Earn a minimum grade of C+ in the following:

- JCOM1130 - Media Writing
- JCOM1500 - Introduction to Mass Communication (BSS)
- JCOM2010 - Media Literacy (BSS)
- JCOM2300 - Introduction to Public Relations

(JCOM 2300 may be taken concurrently)

JCOM3320 - Strategic Research Methods in Public Relations (DSS) - 3 - Credits

Course Overview

Course Prefix
JCOM

Course Number
3320

Department
Communication & Media

Course Title
Strategic Research Methods in Public Relations (DSS)

General Education Attribute
DSS

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers qualitative research methods standard to real-life applications in public relations problems and campaigns, including focus groups, case analysis, and strategic assessments.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Earn a minimum grade of C in the following:

- JCOM2020 - Communication Research Methods (QI)
- JCOM2300 - Introduction to Public Relations
- JCOM3310 - Writing for Public Relations (CI)

JCOM3410 - Film as Cultural Communication (DSS) - 3 - Credits

Course Overview

Course Prefix
JCOM

Course Number
3410

Department
Communication & Media

Course Title
Film as Cultural Communication (DSS)

General Education Attribute
DSS

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Analysis of the economic, ideological, political, and cultural constraints influencing film content.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

JCOM3560 - Podcasting - 3 - Credits

Course Overview

Course Prefix
JCOM

Course Number
3560

Department
Communication & Media

Course Title
Podcasting

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This class is designed for fans of narrative podcasts who have a lot of passion, but little to no practical experience in audio. Students learn how to plan, record, edit, and mix audio.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes
1. Developing specific skills, competencies, and points of view needed by professionals in the field.

2. Developing skills and expressing self orally and in writing.

3. Acquiring skills in working with others as a member of a team.

4. Developing creative capacities in a storytelling format.

JCOM4010 - Mass Communication Ethics (DSS) - 3 - Credits

Course Overview

Course Prefix
JCOM

Course Number
4010

Department
Communication & Media

Course Title
Mass Communication Ethics (DSS)

General Education Attribute
DSS

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Study of ethical systems and philosophies and their applications to the practice of mass communication.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

JCOM4020 - Mass Media and Society (DSS) - 3 - Credits

Course Overview

Course Prefix
JCOM

Course Number
4020

Department
Communication & Media

Course Title
Mass Media and Society (DSS)

General Education Attribute
DSS

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Study of theories and practice of the impact of mass media in conjunction with other social institutions: political, social, cultural, ideological, economic, and religious.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

JCOM4030 - Mass Media Law (DSS) - 3 - Credits

Course Overview

Course Prefix
JCOM

Course Number
4030

Department
Communication & Media

Course Title
Mass Media Law (DSS)

General Education Attribute
DSS

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
The course examines media rights of free expression and both the history and applicability of First Amendment protections. The course discusses the structure and functioning of the U.S. court system, defamation, trademark, copyright, access to information, and other related topics. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Sophomore standing

Special Approval
Instructor permission

No Requirements

JCOM4040 - Social Media Content Development - 3 - Credits

Course Overview

Course Prefix
JCOM

Course Number
4040

Department
Communication & Media

Course Title
Social Media Content Development

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course prepares students to run professional social media accounts through immersion in cross-platform storytelling. Students learn social media tools and use research, videography, graphic design, and writing skills to create messages for social media platforms.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Earn a minimum grade of C in the following:

- JCOM2030 - Multimedia Bootcamp

JCOM4090 - Website Design in Agricultural Communications - 3 - Credits

Course Overview

Course Prefix
JCOM

Course Number
4090

Department
Communication & Media

Cross-Listed Courses
ASTE4090 - Website Design in Agricultural Communications

Course Title
Website Design in Agricultural Communications

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course promotes a basic understanding of web design principles, color theory, typography, coding, and user experience development to create a live responsive personal portfolio website or a website for a client.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Other Enrollment Recommendations
ASTE3090 GRAPH DESIGN AG MEDIA INDUSTR ***or*** JCOM3090 GRAPH DESIGN AG MEDIA INDUSTR

Course Learning Objectives

Course Learning Outcomes
1. Demonstrate effective website planning and design using appropriate software.

2. Evaluate websites based on usability, accessibility, color, and design principles.

3. Describe techniques to improve search engine optimization.

4. Demonstrate the correct use of formats, color mode, and resolution when creating or using graphics for the web.

5. Demonstrate website planning and design using Adobe Creative Cloud software and WordPress.org.

6. Plan and write content for a website.

7. Use the fundamentals of HTML and CSS to develop web pages.

8. Develop responsive websites using WordPress.org.

9. Critique and evaluate elements of websites.

JCOM4100 - Hard News Café - 3 - Credits

Course Overview

Course Prefix
JCOM

Course Number
4100

Department
Communication & Media

Course Title
Hard News Café

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Advanced reporting and writing for student news website. Includes advanced reporting techniques, photojournalism, and posting of news reports and materials to interactive website.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Earn a minimum grade of C in the following:
- JCOM3110 - Feature Writing (CI)

JCOM4105 - Sports Literacy - 3 - Credits

Course Overview

Course Prefix
JCOM

Course Number
4105

Department
Communication & Media

Course Title
Sports Literacy

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course fosters critical engagement with sports' cultural, social, and economic significance. It promotes informed decision-making, teamwork, and ethical communication. It ensures effective leadership and helps address societal issues like equity, diversity, and sustainability within the $500 billion global industry.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Course Learning Objectives

Course Learning Outcomes
1. Understand the Economic and Cultural Impact of Sports: Students will analyze the global economic value of sports, its role as a $500 billion industry, and how sports shape and reflect cultural values across various societies.

2. Develop Critical Media Literacy in Sports: Students will learn to critically assess how sports are represented in TV, social media, and digital platforms, understanding the influence of media narratives, sponsorships, and fan engagement.

3. Enhance Communication Skills in Sports Contexts- Students will develop skills in writing and speaking about sports, whether through reporting, analysis, or content creation and will learn how to convey complex sports concepts to a broad audience.

4. Foster Personal and Professional Growth through Sports Values: Students will reflect on how sports values like teamwork, leadership, and perseverance apply to both personal development and professional roles in the sports industry.

5. Investigate Global Trends in Sports: Students will examine emerging trends such as sports technology, globalization of sports leagues, and the growing importance of eSports, as well as how these trends are reshaping the sports landscape.

6. Explore the Intersection of Sports and Society: Students will examine how sports intersect with social issues such as race, gender, and politics and how these factors influence participation, representation, and public perception.

7. Evaluate Ethical Issues in Sports: Students will explore ethical dilemmas related to sportsmanship, doping, commercialization, and media integrity, learning to make informed and ethical decisions.

JCOM4110 - Investigative Journalism (CI) - 3 - Credits

Course Overview

Course Prefix
JCOM

Course Number
4110

Department
Communication & Media

Course Title
Investigative Journalism (CI)

General Education Attribute
CI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students learn the investigative reporting process, including techniques for finding sources, acquiring public records, and interviewing. The course also discusses specific ways to investigate topics ranging from government to business and the environment, and how to ensure accuracy, transparency, and impact.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Other Enrollment Recommendations
JCOM3100 REPORTING PUBLIC AFFAIRS (CI)

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- JCOM1130 - Media Writing

JCOM4120 - Sports Reporting (CI) - 3 - Credits

Course Overview

Course Prefix
JCOM

Course Number
4120

Department
Communication & Media

Course Title
Sports Reporting (CI)

General Education Attribute
CI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
In this course, students learn and apply fundamental journalistic principles and ethics to the subject of sports, discuss the shifting role of sports journalism in society, and create content to professional standards.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

JCOM4130 - Immersive Crisis Communication - 3 - Credits

Course Overview

Course Prefix
JCOM

Course Number
4130

Department
Communication & Media

Course Title
Immersive Crisis Communication

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students study the role of mass communication during times of crisis and put into practice the skills and techniques necessary to communicate in times of stress, mental fatigue, emotional distress and physical exhaustion.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

JCOM4140 - Sports Broadcasting - 2 - Credits

Course Overview

Course Prefix
JCOM

Course Number
4140

Department
Communication & Media

Course Title
Sports Broadcasting

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces sports broadcasting, focusing on real-time skills like live event coverage, play-by-play, sideline reporting, and post-game analysis. Students gain hands-on experience with technical aspects such as camera operation, editing, and audio production while learning industry ethics.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Course Learning Objectives

Course Learning Outcomes

1. Students will learn to deliver clear, accurate, and entertaining live commentary, capturing the excitement and details of the game while effectively working with co-commentators.

2. Students will become familiar with camera operation, sound engineering, and editing tools and understand how to create polished and professional broadcast content for TV, radio, and digital platforms.

3. Students will practice sideline reporting, post-game interviews, and in-depth sports journalism, learning to ask insightful questions and present information concisely and engagingly.

4. Students will explore the ethical dilemmas unique to sports media, including issues like athlete privacy, fairness in coverage, and the impact of broadcasting on sports integrity.

5. Through hands-on projects, students will participate in live event broadcasting, developing their ability to work under pressure and adapt quickly in a live, on-air environment.

JCOM4150 - Advanced Digital Photojournalism - 3 - Credits

Course Overview

Course Prefix
JCOM

Course Number
4150

Department
Communication & Media

Course Title
Advanced Digital Photojournalism

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
The course explores the ethical practices of photojournalism and its use in print and electronic media. The bulk of the course is spent shooting weekly assignments to refine students' technical and creative skills. The midterm and final are documentary photo projects. Students will compile a final photojournalism portfolio.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Earn a minimum grade of C in the following:

- JCOM2180 - Beginning Photojournalism

JCOM4210 - Newscast I (CI) - 6 - Credits

Course Overview

Course Prefix
JCOM

Course Number
4210

Department
Communication & Media

Course Title
Newscast I (CI)

General Education Attribute
CI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Basics of electronic newsgathering and writing for electronic news media. Use of electronic video equipment for creation of on-air newscast and other visual news materials.

Credit Hours

Credit Hours Min:
6

Contact Hours

Contact Hours Min:
6

Billing Hours

Billing Hours Min:
6

Lecture Hours

Lecture Hours Min:
6

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Earn a minimum grade of C in the following:

- JCOM2020 - Communication Research Methods (QI)
- JCOM2220 - Introduction to Video Media
- JCOM3200 - Writing for Electronic Media

JCOM4220 - Newscast II (CI) - 6 - Credits

Course Overview

Course Prefix
JCOM

Course Number
4220

Department
Communication & Media

Course Title
Newscast II (CI)

General Education Attribute
CI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Newsroom organization and practice in electronic and video news production, including directing and producing, writing for video news, use of studio equipment, use of video production equipment, staff management, and control room operations.

Credit Hours

Credit Hours
Min:
6

Contact Hours

Contact Hours
Min:
6

Billing Hours

Billing Hours
Min:
6

Lecture Hours

Lecture Hours
Min:
6

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Earn a minimum grade of C in the following:

- JCOM3200 - Writing for Electronic Media
- JCOM4210 - Newscast I (CI)

JCOM4230 - Corporate Video - 3 - Credits

Course Overview

Course Prefix
JCOM

Course Number
4230

Department
Communication & Media

Course Title
Corporate Video

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course involves project-based lab work in studio-video productions for real-world clients. Students use video field equipment and production facilities, and complete video packages.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Earn a minimum grade of C+ in the following:

- JCOM1130 - Media Writing
- JCOM1500 - Introduction to Mass Communication (BSS)
- JCOM2010 - Media Literacy (BSS)

Required

Earn a minimum grade of C in the following:

- JCOM2020 - Communication Research Methods (QI)
- JCOM2220 - Introduction to Video Media

JCOM4300 - Integrated Marketing Communication - 3 - Credits

Course Overview

Course Prefix
JCOM

Course Number
4300

Department
Communication & Media

Course Title
Integrated Marketing Communication

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students are introduced to the strategic marketing communications process, including consumer research, market segmentation, brand positioning, communications messages, and media decisions. Course activities focus on branding, advertising, digital marketing, and public relations.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

JCOM4340 - Event Planning and Manager Communications - 3 - Credits

Course Overview

Course Prefix
JCOM

Course Number
4340

Department
Communication & Media

Course Title
Event Planning and Manager Communications

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course helps students become proficient in four important communication functions: public speaking; speech and presentation development; event and meeting management; and leader communications coaching. By the end, participants should be effective at managing face-to-face communications for an organization.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Earn a minimum grade of C+ in the following:

- JCOM1130 - Media Writing

Required

Earn a minimum grade of C in the following:

- JCOM2300 - Introduction to Public Relations

JCOM4400 - Mass Media Criticism - 3 - Credits

Course Overview

Course Prefix
JCOM

Course Number
4400

Department
Communication & Media

Dual-Listed Courses
JCOM6400 - Mass Media Criticism

Course Title
Mass Media Criticism

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Critical analysis of mass media content, emphasizing the media's social, cultural, and political impacts. Use of advanced research techniques.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

JCOM4410 - Gender and the Mass Media - 3 - Credits

Course Overview

Course Prefix
JCOM

Course Number
4410

Department
Communication & Media

Course Title
Gender and the Mass Media

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course examines the nature of gender-based images in a variety of mass media, from advertising to magazines, television, and film. It examines the analysis of gender stereotypes and portrayals in news and entertainment media, along with resulting social impacts. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

JCOM4500 - Projects in Communication - 1 - 5 Credits

Course Overview

Course Prefix
JCOM

Course Number
4500

Department
Communication & Media

Course Title
Projects in Communication

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Individualized directed study in communication topics, based upon student proposal to instructor.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
5

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
5

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
5

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
5

Lecture Hours Operator:
TO

Special Approval
Instructor permission

Other Enrollment Recommendations
JCOM 2030

JCOM4510 - Communication Internship - 1 - 3 Credits

Course Overview

Course Prefix
JCOM

Course Number
4510

Department
Communication & Media

Course Title
Communication Internship

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Supervised, real-world training and practice in communication work places, including news and business environments.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

Special Approval
Instructor permission

No Requirements

JCOM4520 - Senior Thesis - 1 - 3 Credits

Course Overview

Course Prefix
JCOM

Course Number
4520

Department
Communication & Media

Course Title
Senior Thesis

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students plan and execute an in-depth research paper or project, as approved by the instructor, culminating in a formal public presentation.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

No Requirements

JCOM4530 - Special Topics in Communication - 3 - Credits

Course Overview

Course Prefix
JCOM

Course Number
4530

Department
Communication & Media

Course Title
Special Topics in Communication

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Advanced study in specialized communication topic areas.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

JCOM4750 - Special Topics: Advanced Writing for Professional Communicators - 3 - Credits

Course Overview

Course Prefix
JCOM

Course Number
4750

Department
Communication & Media

Course Title
Special Topics: Advanced Writing for Professional Communicators

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course provides advanced study in writing for professional communicators. The course focus (i.e., "Writing about Pop Culture," "Writing for Gaming Media," etc.) is selected by the instructor of record and made available for student consideration ahead of registration.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

JCOM4760 - Special Topics: Advanced Critical Thought in Media - 3 - Credits

Course Overview

Course Prefix
JCOM

Course Number
4760

Department
Communication & Media

Course Title
Special Topics: Advanced Critical Thought in Media

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course explores topics at the intersection of media and society. The course focus (i.e., "Privilege and Discrimination in Media," "Evolution of Media Ethics in the 21st Century," etc.) is selected by the instructor and made available for student consideration ahead of registration.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

JCOM4770 - Special Topics: Advanced Professional Experiences in Media - 3 - Credits

Course Overview

Course Prefix
JCOM

Course Number
4770

Department
Communication & Media

Course Title
Special Topics: Advanced Professional Experiences in Media

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course provides advanced focused training in professional media. The course focus (i.e., "Reporting on Crime and Corrections," "Broadcasting in Conflict Zones," etc.) is selected by the instructor of record and made available for student consideration ahead of registration.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

JCOM5010 - Mass Media Historiography - 3 - Credits

Course Overview

Course Prefix
JCOM

Course Number
5010

Department
Communication & Media

Dual-Listed Courses
JCOM6010 - Mass Media Historiography

Course Title
Mass Media Historiography

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Survey of the history and development of the mass media, and their influence on other social institutions. Theory and practice of historical research, with heavy emphasis on use of databases, archival, and other primary sources to conduct original historical research.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

JCOM5020 - Mass Communication Theory - 3 - Credits

Course Overview

Course Prefix
JCOM

Course Number
5020

Department
Communication & Media

Dual-Listed Courses
JCOM6020 - Mass Communication Theory

Course Title
Mass Communication Theory

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Advanced study of major mass communication theories and issues, and their evidence in case studies. Application of theory to significant societal problems.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

JCOM5030 - International Communications Problems - 3 - Credits

Course Overview

Course Prefix
JCOM

Course Number
5030

Department
Communication & Media

Dual-Listed Courses
JCOM6030 - International Communications Problems

Course Title
International Communications Problems

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Study of mass communication influences and effects within and between nations. Systems and techniques of mass communication as functions of national identity and development.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

JCOM5040 - Social-Media, Philanthropy and Advocacy - 3 - Credits

Course Overview

Course Prefix
JCOM

Course Number
5040

Department
Communication & Media

Course Title
Social-Media, Philanthropy and Advocacy

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course is appropriate for students who want to work with religious/non-profit organizations to design, fundraise, implement and evaluate social justice campaigns. It equips students with knowledge of how to utilize social media in their advocacy and fundraising initiatives.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

JCOM5110 - Literary Journalism (CI) - 3 - Credits

Course Overview

Course Prefix
JCOM

Course Number
5110

Department
Communication & Media

Dual-Listed Courses
JCOM6110 - Literary Journalism

Course Title
Literary Journalism (CI)

General Education Attribute
CI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
In-depth analysis and practice of literary and stylistic elements of long-form journalistic and other nonfiction writers.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

JCOM5140 - Science Communication - 3 - Credits

Course Overview

Course Prefix
JCOM

Course Number
5140

Department
Communication & Media

Course Title
Science Communication

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students research real-world research and discovery, interview experts, analyze evidence, and produce publishable work intended for both targeted and general audiences, with an emphasis on accuracy, clarity, accessibility, and impact.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Course Learning Objectives

Course Learning Outcomes

1. By the end of this course, students will be able to:
2. Research complex scientific topics using primary sources, data, and expert interviews.
3. Translate scientific evidence into accurate, engaging stories for public audiences.
4. Conduct and ethically document interviews with scientists, stakeholders, and affected communities.
5. Evaluate the credibility, limitations, and uncertainty of scientific claims and data.
6. Apply principles of clarity, narrative structure, and audience awareness to science communication.
7. Revise and edit work through iterative feedback to improve accuracy, coherence, and impact.
8. Demonstrate professional standards of verification, transparency, and attribution in published work.

JCOM5210 - Website Design and Production - 3 - Credits

Course Overview

Course Prefix
JCOM

Course Number
5210

Department
Communication & Media

Dual-Listed Courses
JCOM6210 - Website Design and Production

Course Title
Website Design and Production

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Principles and practice of planning, designing, and programming professional Web pages, including Internet communication analysis and planning, graphic design, and development using industry-standard programming languages and design applications.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Special Approval
Instructor permission

JCOM5220 - Advanced Video Production - 3 - Credits

Course Overview

Course Prefix
JCOM

Course Number
5220

Department
Communication & Media

Dual-Listed Courses
JCOM6220 - Advanced Video Production

Course Title
Advanced Video Production

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Training and practice in advanced techniques of video production, including computer graphics generation, nonlinear video editing, and other specialized professional techniques for electronic video materials.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Earn a minimum grade of C in the following:

- JCOM4220 - Newscast II (CI)
  OR JCOM4230 - Corporate Video

JCOM5230 - Advanced Video Documentary Production - 3 - Credits

Course Overview

Course Prefix
JCOM

Course Number
5230

Department
Communication & Media

Dual-Listed Courses
JCOM6300 - Case Studies in Public Relations

Course Title
Advanced Video Documentary Production

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course covers the advanced production of long-form video productions and packages, including writing scripts, directing and production, control room applications, and advanced video production techniques. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Earn a minimum grade of C in the following:

- JCOM2220 - Introduction to Video Media
  OR JCOM2030 - Multimedia Bootcamp

JCOM5300 - Case Studies in Public Relations (CI) - 3 - Credits

Course Overview

Course Prefix
JCOM

Course Number
5300

Department
Communication & Media

Dual-Listed Courses
JCOM6300 - Case Studies in Public Relations

Course Title
Case Studies in Public Relations (CI)

General Education Attribute
CI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers advanced study and practice in public relations cases, processes, techniques, campaigns, and marketing communications strategies. It also addresses the analysis of approaches to corporate reputation issues, organizational positioning, and use of mass media strategies. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisites

Type
Prerequisite

Required

Complete ALL of the following Courses:

- JCOM1130 - Media Writing
- JCOM2300 - Introduction to Public Relations

JCOM5310 - Mass Media Management - 3 - Credits

Course Overview

Course Prefix
JCOM

Course Number
5310

Department
Communication & Media

Dual-Listed Courses
JCOM6310 - Mass Media Management

Course Title
Mass Media Management

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Examines theories, methods, and practice of management of mass media businesses, including personnel, marketing, and market positioning.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Special Approval

Instructor permission

JCOM5320 - Public Relations Agency - 3 - Credits

Course Overview

Course Prefix
JCOM

Course Number
5320

Department
Communication & Media

Dual-Listed Courses
JCOM6320 - Public Relations Agency

Course Title
Public Relations Agency

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Advanced hands-on experience in real-world workings of professional public relations agency, including client communications needs analysis, communications planning, strategies, market positioning, publicity, and campaign execution.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Special Approval
Instructor permission

JCOM5400 - Social Media Strategy, Analytics & Artificial Intelligence - 3 - Credits

Course Overview

Course Prefix
JCOM

Course Number
5400

Department
Communication & Media

Course Title
Social Media Strategy, Analytics & Artificial Intelligence

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students learn to use social media analytics and AI to draw insights about organizations and audiences, produce actionable, data-driven recommendations, and guide strategy. Students gain experience measuring campaign performance, optimizing for discovery, building dashboards, and interpreting social media data.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

JCOM5410 - Social Media & Public Health Campaigns - 3 - Credits

Course Overview

Course Prefix
JCOM

Course Number
5410

Department
Communication & Media

Dual-Listed Courses
JCOM6060 - Social Media & Public Health Campaigns

Course Title
Social Media & Public Health Campaigns

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This is for students who want to use social media and other emerging media technologies to curtail the spread of diseases. Students will identify, create and evaluate a social media campaign designed to improve global health challenges of their choice. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

JCOM5420 - The Mass Media and Politics - 3 - Credits

Course Overview

Course Prefix
JCOM

Course Number
5420

Department
Communication & Media

Cross-Listed Courses
POLS5420 - The Mass Media and Politics

Dual-Listed Courses
JCOM6420 - The Mass Media and Politics

Course Title
The Mass Media and Politics

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course examines the role of the mass media in the political process. It also includes the examination of political advertising, news coverage, polling, opinion formation strategies, and politicians' use of new media technologies. Additional coursework required for graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Junior standing

JCOM6000 - Introduction to Graduate Study in Mass Communication - 3 - Credits

Course Overview

Course Prefix
JCOM

Course Number
6000

Department
Communication & Media

Course Title
Introduction to Graduate Study in Mass Communication

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Overview of mass communication theories and research methodologies designed to prepare the student for the graduate course of study and to assist in planning research agenda.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

JCOM6010 - Mass Media Historiography - 3 - Credits

Course Overview

Course Prefix
JCOM

Course Number
6010

Department
Communication & Media

Dual-Listed Courses
JCOM5010 - Mass Media Historiography

Course Title
Mass Media Historiography

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Survey of the history and development of the mass media, and their influence on other social institutions. Theory and practice of historical research, with heavy emphasis on use of databases, archival, and other primary sources to conduct original historical research.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

JCOM6020 - Mass Communication Theory - 3 - Credits

Course Overview

Course Prefix
JCOM

Course Number
6020

Department
Communication & Media

Dual-Listed Courses
JCOM5020 - Mass Communication Theory

Course Title
Mass Communication Theory

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Advanced study of major mass communication theories and issues, and their evidence in case studies. Application of theory to significant societal problems.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

JCOM6030 - International Communications Problems - 3 - Credits

Course Overview

Course Prefix
JCOM

Course Number
6030

Department
Communication & Media

Dual-Listed Courses
JCOM5030 - International Communications Problems

Course Title
International Communications Problems

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Study of mass communication influences and effects within and between nations. Systems and techniques of mass communication as functions of national identity and development..

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

JCOM6040 - Seminar in Mass Media Research Methods - 3 - Credits

Course Overview

Course Prefix
JCOM

Course Number
6040

Department
Communication & Media

Course Title
Seminar in Mass Media Research Methods

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course is an introduction to the major theoretical perspectives and methodologies in mass communication research.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

JCOM6050 - Seminar in Mass Media Issues and Problems - 3 - Credits

Course Overview

Course Prefix
JCOM

Course Number
6050

Department
Communication & Media

Course Title
Seminar in Mass Media Issues and Problems

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course is a variable topic seminar concerning research of issues and problems in mass media principles and practice.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

JCOM6060 - Social Media & Public Health Campaigns - 3 - Credits

Course Overview

Course Prefix
JCOM

Course Number
6060

Department
Communication & Media

Dual-Listed Courses
JCOM5410 - Social Media & Public Health Campaigns

Course Title
Social Media & Public Health Campaigns

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This is for students who want to use social media and other emerging media technologies to curtail the spread of diseases. Students identify, create and evaluate a social media campaign designed to improve global health challenges of their choice. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

JCOM6110 - Literary Journalism - 3 - Credits

Course Overview

Course Prefix
JCOM

Course Number
6110

Department
Communication & Media

Dual-Listed Courses
JCOM5110 - Literary Journalism (CI)

Course Title
Literary Journalism

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
In-depth analysis and practice of literary and stylistic elements of long-form journalistic and other nonfiction writers.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

JCOM6210 - Website Design and Production - 3 - Credits

Course Overview

Course Prefix
JCOM

Course Number
6210

Department
Communication & Media

Dual-Listed Courses
JCOM5210 - Website Design and Production

Course Title
Website Design and Production

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Principles and practice of planning, designing, and programming professional Web pages, including Internet communication analysis and planning, graphic design, and development using industry-standard programming languages and design applications.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Special Approval

Instructor permission

No Requirements

JCOM6220 - Advanced Video Production - 3 - Credits

Course Overview

Course Prefix
JCOM

Course Number
6220

Department
Communication & Media

Dual-Listed Courses
JCOM5220 - Advanced Video Production

Course Title
Advanced Video Production

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Training and practice in advanced techniques of video production, including computer graphics generation, nonlinear video editing, and other specialized professional techniques for electronic video materials.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Earn a minimum grade of C in the following:

- JCOM4220 - Newscast II (CI)
  OR JCOM4230 - Corporate Video

JCOM6230 - Advanced Video Documentary Production - 3 - Credits

Course Overview

Course Prefix
JCOM

Course Number
6230

Department
Communication & Media

Dual-Listed Courses
JCOM5230 - Advanced Video Documentary Production

Course Title
Advanced Video Documentary Production

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course covers the advanced production of long-form video productions and packages, including writing scripts, directing and production, control room applications, and advanced video production techniques. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Earn a minimum grade of C in the following:

- JCOM2220 - Introduction to Video Media
  OR JCOM2030 - Multimedia Bootcamp

JCOM6300 - Case Studies in Public Relations - 3 - Credits

Course Overview

Course Prefix
JCOM

Course Number
6300

Department
Communication & Media

Dual-Listed Courses
JCOM5300 - Case Studies in Public Relations (CI)

Course Title
Case Studies in Public Relations

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers advanced study and practice in public relations cases, processes, techniques, campaigns, and marketing communications strategies. It also addresses the analysis of approaches to corporate reputation issues, organizational positioning, and use of mass media strategies. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- JCOM1130 - Media Writing
- JCOM2300 - Introduction to Public Relations

JCOM6310 - Mass Media Management - 3 - Credits

Course Overview

Course Prefix
JCOM

Course Number
6310

Department
Communication & Media

Dual-Listed Courses
JCOM5310 - Mass Media Management

Course Title
Mass Media Management

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Examines theories, methods, and practice of management of mass media businesses, including personnel, marketing, and market positioning.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Special Approval

Instructor permission

No Requirements

JCOM6320 - Public Relations Agency - 3 - Credits

Course Overview

Course Prefix
JCOM

Course Number
6320

Department
Communication & Media

Dual-Listed Courses
JCOM5320 - Public Relations Agency

Course Title
Public Relations Agency

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Advanced hands-on experience in real-world workings of professional public relations agency, including client communications needs analysis, communications planning, strategies, market positioning, publicity, and campaign execution.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Special Approval

Instructor permission

No Requirements

JCOM6400 - Mass Media Criticism - 3 - Credits

Course Overview

Course Prefix
JCOM

Course Number
6400

Department
Communication & Media

Dual-Listed Courses
JCOM4400 - Mass Media Criticism

Course Title
Mass Media Criticism

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Critical analysis of mass media content, emphasizing the media's social, cultural, and political impacts. Use of advanced research techniques.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Special Approval
Instructor Permisison

No Requirements

JCOM6410 - Gender and the Mass Media - 3 - Credits

Course Overview

Course Prefix
JCOM

Course Number
6410

Department
Communication & Media

Dual-Listed Courses
JCOM4410 - Gender and the Mass Media

Course Title
Gender and the Mass Media

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course examines the nature of gender-based images in a variety of mass media, from advertising to magazines, television, and film. It examines the analysis of gender stereotypes and portrayals in news and entertainment media, along with resulting social impacts. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

JCOM6420 - The Mass Media and Politics - 3 - Credits

Course Overview

Course Prefix
JCOM

Course Number
6420

Department
Communication & Media

Cross-Listed Courses
POLS6420 - The Mass Media and Politics

Dual-Listed Courses
JCOM5420 - The Mass Media and Politics

Course Title
The Mass Media and Politics

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course examines the role of the mass media in the political process. It also includes the examination of political advertising, news coverage, polling, opinion formation strategies, and politicians' use of new media technologies. Additional coursework required for graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

JCOM6430 - Mass Media Law - 3 - Credits

Course Overview

Course Prefix
JCOM

Course Number
6430

Department
Communication & Media

Course Title
Mass Media Law

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
A comprehensive exploration of mass communication law. The course examines media rights of free expression and both the history and applicability of First Amendment protections. The course discusses the structure and functioning of the U.S. court system, defamation, trademark, copyright, access to information, and other related topics and themes.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

JCOM6440 - Mass Communication Ethics - 3 - Credits

Course Overview

Course Prefix
JCOM

Course Number
6440

Department
Communication & Media

Course Title
Mass Communication Ethics

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Study of ethical systems and philosophies and their applications to the practice of mass communication.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

JCOM6500 - Special Projects in Mass Communication Research and Practice - 1 - 3 Credits

Course Overview

Course Prefix
JCOM

Course Number
6500

Department
Communication & Media

Course Title
Special Projects in Mass Communication Research and Practice

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Directed study into specified research or real-world problems in the mass media and mass communication industries.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

Special Approval

Departmental permission

No Requirements

JCOM6510 - Directed Readings in Mass Communication - 1 - 12 Credits

Course Overview

Course Prefix
JCOM

Course Number
6510

Department
Communication & Media

Course Title
Directed Readings in Mass Communication

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Directed readings, tutorial or experiential learning/project in mass communication.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
12

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
12

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
12

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
12

Lecture Hours Operator:
TO

Special Approval

- Instructor permission
- Department head approval

No Requirements

JCOM6600 - Internship - 1 - 6 Credits

Course Overview

Course Prefix
JCOM

Course Number
6600

Department
Communication & Media

Course Title
Internship

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Supervised training in selected communication work places.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
6

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
6

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
6

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
6

Lecture Hours Operator:
TO

Special Approval

Permission of graduate supervisory committee

No Requirements

JCOM6970 - Thesis Research - 1 - 3 Credits

Course Overview

Course Prefix
JCOM

Course Number
6970

Department
Communication & Media

Course Title
Thesis Research

Grade Mode
Temporary Pass/Fail

Repeat Status
RP

Course Description
This course is designed for students preparing a master's degree thesis.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

Registration Restrictions

Departmental permission

No Requirements

JCOM6990 - Continuing Graduate Advisement - 1 - 3 Credits

Course Overview

Course Prefix
JCOM

Course Number
6990

Department
Communication & Media

Course Title
Continuing Graduate Advisement

Grade Mode
Temporary Pass/Fail

Repeat Status
RP

Course Description
This course provides graduate students with continued support and advisement. It is usually taken following completion of all coursework required for the degree.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

Registration Restrictions

Departmental permission

No Requirements

KIN1000 - Designing Your Future in Health, Fitness, and Recreation - 2 - Credits

Course Overview

Course Prefix
KIN

Course Number
1000

Department
Kinesiology and Health Science

Course Title
Designing Your Future in Health, Fitness, and Recreation

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course helps students begin seeing themselves as future professionals. Using life design frameworks, students discover how majors in kinesiology and recreation administration prepare them for impactful careers promoting health, wellness, and quality of life through movement and recreation.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Course Learning Objectives

Course Learning Outcomes

By the end of this course, students will be able to:

1. Identify and describe a range of professional opportunities within kinesiology, health science, and recreation administration, and explain how each field contributes to individual and community well-being.
2. Apply life design and career development principles to articulate how personal interests, values, and strengths align with potential academic majors and career paths.
3. Demonstrate an emerging sense of professional identity by reflecting on the roles, expectations, and ethical foundations of practitioners in health, fitness, and recreation-related careers.
4. Create an individualized plan that connects coursework, experiential learning, and campus resources to long-term educational and career goal.

KIN1500 - Basics of Human Anatomy and Physiology for Applied Sciences - 3 - Credits

Course Overview

Course Prefix
KIN

Course Number
1500

Department
Kinesiology and Health Science

Cross-Listed Courses
SHS1500 - Basics of Human Anatomy and Physiology for Applied Sciences

Course Title
Basics of Human Anatomy and Physiology for Applied Sciences

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Introduction to human anatomy and physiology, focusing on body systems, their functions in daily life, and applied science fields. Emphasis on the relationship between structure, function, and health. Does not fulfill requirements for biology or pre-health majors (including nursing).

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Course Learning Objectives

Course Learning Outcomes

Course Objectives: Upon completion of this course, the student will be able to:

1. Define the basic concepts of anatomy and physiology.

2. Demonstrate understanding of cell structure and function.

3. Identify basic characteristics of each body system and how they work together as a whole

4. Differentiate between the following organ systems of the body and their various functions

• Integumentary

• Skeletal

- Muscular
- Lymphatic
- Respiratory
- Urinary
- Nervous
- Endocrine
- Circulatory
- Digestive
- Reproductive (male & female)
- Pregnancy and Human Development

KIN2000 - Introduction to Kinesiology - 2 - Credits

Course Overview

Course Prefix
KIN

Course Number
2000

Department
Kinesiology and Health Science

Course Title
Introduction to Kinesiology

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course acquaints kinesiology students with four areas of kinesiology: the department, with respect to the University and the College of Education and Human Services; the history of kinesiology; the effects of sociology on kinesiology; and future employment opportunities in the fields of kinesiology.

Credit Hours

Credit Hours Min:
2

Contact Hours

Contact Hours Min:
2

Billing Hours

Billing Hours Min:
2

Lecture Hours

Lecture Hours Min:
2

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Describe the historical development of kinesiology and its relationship to broader health, fitness, and educational disciplines.
2. Analyze sociological influences on kinesiology, including how societal factors affect the practice and study of the discipline.
3. Identify and evaluate potential career paths and professional opportunities within kinesiology and related fields.
4. Articulate the interdisciplinary nature of kinesiology, connecting concepts across anatomy, physiology, biomechanics, and exercise science.

KIN2020 - Introduction to Physical Therapy - 2 - Credits

Course Overview

Course Prefix
KIN

Course Number
2020

Department
Kinesiology and Health Science

Course Title
Introduction to Physical Therapy

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Introduces prephysical therapy students to the discipline of physical therapy and familiarizes them with its associated spectrum of opportunities and responsibilities.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Describe the field of physical therapy, including its practice settings and specialty areas.
2. Define key physical therapy terminology and concepts.
3. Identify the roles of professionals within the physical therapy health care team.
4. Explain common dysfunctions and disorders encountered in physical therapy practice.
5. Summarize requirements for admission to physical therapy programs and understand the current job market.
6. Recognize professional and legislative frameworks, including the role of the American Physical Therapy Association (APTA) and relevant policy issues.

KIN2050 - Sport Rules and Regulations of the Utah High School Athletic Association - 1 - Credits

Course Overview

Course Prefix
KIN

Course Number
2050

Department
Kinesiology and Health Science

Course Title
Sport Rules and Regulations of the Utah High School Athletic Association

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Knowledge of the rules and mechanics of officiating all Utah high school sports.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Understand the Core Rules and Regulations of Utah High School Sports: Students will be able to identify and explain fundamental rules and regulations governing all Utah high school sports as outlined by the UHSAA and NFHS.
2. Analyze the Mechanics of Officiating: Students will learn and evaluate basic mechanics of officiating across various sports used in high school sports officiating.
3. Evaluate Sport-Specific Rule Variations: Students will compare and contrast the rule variations that may exist between different sports, understanding how these differences impact the role of an official.
4. Develop and Implement a Personal Officiating Philosophy: Students will construct a personal philosophy of officiating that incorporates knowledge of rules, ethical considerations, and best practices in high school sports.

KIN2100 - Skills 1 (Swimming, Volleyball, Football) - 1 - Credits

Course Overview

Course Prefix
KIN

Course Number
2100

Department
Kinesiology and Health Science

Course Title
Skills 1 (Swimming, Volleyball, Football)

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Provides physical education majors and minors with the knowledge, skills, practice, and understanding of swimming, volleyball, and football needed for successful participation. Exposes students to a variety of teaching methods for these three sports.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Demonstrate proper techniques and skills in selected physical activities/sports.
2. Analyze and provide feedback on movement and skill execution.
3. Teach and model strategies and tactics relevant to the sport.
4. Adapt activities for diverse learners.
5. Participate actively and model positive attitudes and sportsmanship.

KIN2200 - Skills 2 (Lifetime Activities) - 1 - Credits

Course Overview

Course Prefix
KIN

Course Number
2200

Department
Kinesiology and Health Science

Course Title
Skills 2 (Lifetime Activities)

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Provides physical education majors and minors with the knowledge, skills, practice, and understanding of lifetime activities needed for successful participation. Exposes students to a variety of teaching methods for these activities.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Demonstrate proper techniques and skills in selected physical activities/sports.
2. Analyze and provide feedback on movement and skill execution.
3. Teach and model strategies and tactics relevant to the sport.
4. Adapt activities for diverse learners.
5. Participate actively and model positive attitudes and sportsmanship.

KIN2300 - Skills 3 (Softball, Basketball, Soccer) - 1 - Credits

Course Overview

Course Prefix
KIN

Course Number
2300

Department
Kinesiology and Health Science

Course Title
Skills 3 (Softball, Basketball, Soccer)

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Provides physical education majors and minors with the knowledge, skills, practice, and understanding of softball, basketball, and soccer needed for successful participation. Exposes students to a variety of teaching methods for these three sports.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Demonstrate proper techniques and skills in selected physical activities/sports.
2. Analyze and provide feedback on movement and skill execution.
3. Teach and model strategies and tactics relevant to the sport.
4. Adapt activities for diverse learners.
5. Participate actively and model positive attitudes and sportsmanship.

KIN2400 - Skills 4 (Tennis, Badminton, Track and Field) - 1 - Credits

Course Overview

Course Prefix
KIN

Course Number
2400

Department
Kinesiology and Health Science

Course Title
Skills 4 (Tennis, Badminton, Track and Field)

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Provides physical education majors and minors with the knowledge, skills, practice, and understanding of tennis, badminton, and track and field needed for successful participation. Exposes students to a variety of teaching methods for these three sports.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Demonstrate proper techniques and skills in selected physical activities/sports.
2. Analyze and provide feedback on movement and skill execution.
3. Teach and model strategies and tactics relevant to the sport.
4. Adapt activities for diverse learners.
5. Participate actively and model positive attitudes and sportsmanship.

KIN2710 - Introduction to Athletic Training - 3 - Credits

Course Overview

Course Prefix
KIN

Course Number
2710

Department
Kinesiology and Health Science

Course Title
Introduction to Athletic Training

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Introductory course in the field of athletic training for students interested in physical therapy, coaching, or training and physical education fields. Course includes lecture. demonstrations, and laboratory experience in basic first aid and CPR principles, injury prevention, evaluation and treatment of injuries with emphasis on protective taping.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Other Enrollment Recommendations
First Aid training is recommended

No Requirements

Course Learning Objectives

Course Learning Outcomes
1. Describe the field of athletic training and its relevance to sports medicine, physical therapy, coaching, and physical education.
2. Demonstrate basic first aid and CPR skills in line with accepted safety standards.
3. Apply principles of injury prevention to support athlete safety and performance.
4. Perform basic evaluation and treatment of injuries, including protective taping techniques.
5. Integrate knowledge from lecture, demonstration, and laboratory experiences to respond appropriately in athletic training scenarios.

KIN3000 - Principles of Health and Fitness - 3 - Credits

Course Overview

Course Prefix
KIN

Course Number
3000

Department
Kinesiology and Health Science

Course Title
Principles of Health and Fitness

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Through an interdisciplinary approach including exercise physiology, principles of conditioning, and nutrition, students study physical activity, nutrition, and relaxation. Students learn to understand and develop exercise programs and prescriptions involving lifestyles that maintain health and fitness and reinforce habitual exercise.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes
1. Explain foundational concepts in exercise physiology, nutrition, and conditioning as they relate to overall health and fitness.
2. Assess individual health and fitness needs using established principles and metrics.
3. Design safe and effective exercise programs tailored to various populations and fitness levels.
4. Apply principles of nutrition and lifestyle management to support physical activity, wellness, and habitual exercise.
5. Demonstrate knowledge of relaxation and recovery techniques and their role in

KIN3010 - Yoga Technique I - 3 - Credits

Course Overview

Course Prefix
KIN

Course Number
3010

Department
Kinesiology and Health Science

Course Title
Yoga Technique I

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course is designed to introduce students to the techniques, training and practice of yoga at a beginner level.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Demonstrate integrated understanding of asana, pranayama, dharana, and dhyana through consistent, embodied practice.
2. Apply breath-based alignment principles to maintain safety, stability, and energetic balance in postural practice.
3. Identify and explain preparatory poses, counterposes, contraindications, and modifications for a variety of asanas at an intermediate level.
4. Develop and adapt yoga sequences to address specific physical, mental, or energetic needs.
5. Assess one's personal practice through observation, journaling, and self-evaluation to cultivate self-awareness and growth.
6. Integrate the principles of sadhana into a sustainable personal discipline that supports holistic well-being.
7. Reflect critically and creatively on how daily yoga practice influences personal development, relationships, and overall life balance.
8. Prepare to teach yoga in public and private settings by integrating ethical guidelines, effective communication, and adaptive teaching methodologies in alignment with Yoga Alliance RYT-200 certification standards.

KIN3011 - Introduction to Yoga Studies - 1 - Credits

Course Overview

Course Prefix
KIN

Course Number
3011

Department
Kinesiology and Health Science

Course Title
Introduction to Yoga Studies

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces yoga studies with special emphasis on ethical guidelines, physical movement, breathwork, mindfulness, and meditation practices.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Explain the foundational meaning and philosophical context of Yoga as presented in classical texts, particularly The Yoga Sutras of Patanjali.
2. Identify and describe the Eight Limbs of Yoga and analyze how each limb contributes to holistic well-being and self-development.
3. Interpret and apply the ethical principles of the Yamas and Niyamas to personal life situations and contemporary social contexts.
4. Demonstrate foundational proficiency in the meaning of asana (posture), pranayama (breathing), and meditation practices, including natural, diaphragmatic, and Ujjayi breath.
5. Reflect critically and creatively on personal experiences with yoga philosophy and practice through artistic or written expression.
6. Synthesize knowledge of yoga philosophy and embodied practice into a cohesive personal framework for lifelong learning, self-awareness, and mindful living
7. Prepare to teach yoga in public and private settings by integrating ethical guidelines, effective communication, and adaptive teaching methodologies in alignment with Yoga Alliance RYT-200 certification standards.

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KIN3020 - Yoga Teaching Methodology I - 3 - Credits

Course Overview

Course Prefix
KIN

Course Number
3020

Department
Kinesiology and Health Science

Course Title
Yoga Teaching Methodology I

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course is designed to introduce students to the art and science of teaching yoga, more specifically: ethics for yoga teachers, class organization, leading a class, effective communication, verbal and physical adjustments, observation and demonstration.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Demonstrate the ability to teach fundamental yoga asanas safely and effectively, integrating alignment, breath coordination, and mindful cueing.
2. Apply knowledge of sequencing, modification, and use of props to design inclusive and adaptable classes for diverse student needs.
3. Employ clear, confident, and compassionate verbal communication to guide students through postures and transitions.
4. Demonstrate appropriate and ethical use of hands-on and verbal adjustments that support student safety and awareness.
5. Analyze class structure and sequencing to create cohesive lessons that balance strength, flexibility, and energetic flow.
6. Model professionalism and ethical awareness in teacher-student relationships, demonstrating respect, humility, and service-oriented teaching.
7. Develop effective observation and demonstration skills to enhance clarity and understanding in teaching.
8. Create and present a multi-week yoga class plan that reflects sound pedagogical principles, alignment knowledge, and authentic teaching voice
.
9. Prepare to teach yoga in public and private settings by integrating ethical guidelines, effective communication, and adaptive teaching methodologies in alignment with Yoga Alliance RYT-200 certification standards.

KIN3021 - Yoga Technique II - 3 - Credits

Course Overview

Course Prefix
KIN

Course Number
3021

Department
Kinesiology and Health Science

Course Title
Yoga Technique II

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course extends student exposure to the techniques, training and practice of yoga at an intermediate level.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- KIN3010 - Yoga Technique I

Course Learning Objectives

Course Learning Outcomes

1. Demonstrate coordination of breath and movement in foundational and intermediate yoga asanas with attention to physical alignment and energetic balance.
2. Identify and explain preparatory poses, counterposes, modifications, and contraindications for key postures studied throughout the course.
3. Apply knowledge of safe alignment and body awareness to establish healthy boundaries within personal practice and teaching.
4. Analyze the relationship between breath, body, and mind as it supports concentration, balance, and pranic flow.
5. Develop and perform a short, cohesive yoga sequence that reflects sound principles of sequencing, pacing, and mindful cueing.
6. Evaluate one's own practice through observation, reflection, and self-assessment to identify strengths and areas for continued growth. 7. Integrate concepts of sadhana—methodical and disciplined self-practice—into a sustainable personal routine that supports ongoing physical and mental well-being.
8.Prepare to teach yoga in public and private settings by integrating ethical guidelines, effective communication, and adaptive teaching methodologies in alignment with Yoga Alliance RYT-200 certification standards.

KIN3050 - Physical Education in the Elementary School - 3 - Credits

Course Overview

Course Prefix
KIN

Course Number
3050

Department
Kinesiology and Health Science

Course Title
Physical Education in the Elementary School

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Prepares students to teach elementary physical education. Focuses on developmentally appropriate activities, locomotor and manipulative skills, fitness, games, rhythms, motor learning, and lesson planning. Students will teach physical education lessons in the elementary school.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Completion of 45 credits prior to registration

Course Learning Objectives

Course Learning Outcomes
1. Plan and deliver age and developmentally appropriate physical education lessons aligned with state and national standards.
2. Use effective pedagogical strategies including communication, feedback, and classroom management.
3. Incorporate assessment data and individual student needs in lesson planning.
4. Apply universal design for learning and adapted physical education principles.
5. Collaborate with families and IEP teams for inclusive education.
6. Demonstrate advocacy and professional engagement in the school community.

KIN3070 - Yoga Anatomy - 3 - Credits

Course Overview

Course Prefix
KIN

Course Number
3070

Department
Kinesiology and Health Science

Course Title
Yoga Anatomy

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces students to the fundamentals of human anatomy as it relates to yoga asanas (poses & sequences), pranayama (breathing practices), and meditation.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Identify and accurately use key anatomical and physiological terminology relevant to the study and practice of yoga.
2. Locate and describe the major structures and systems of the human body, including the musculoskeletal, nervous, and respiratory systems.
3. Explain how yoga asana, pranayama, and meditation influence physiological processes and contribute to overall health and balance.
4. Analyze the anatomical alignment and primary muscle actions involved in foundational yoga postures and sequences.
5. Demonstrate embodied understanding of anatomical principles through mindful movement, breath awareness, and self-observation.
6. Apply anatomical and physiological knowledge to design and adapt yoga practices that promote safety, effectiveness, and personal transformation.
7. Synthesize course knowledge into a personal case study that reflects awareness of anatomical function, self-practice, and experiential learning throughout the semester.
8. Prepare to teach yoga in public and private settings by integrating ethical guidelines, effective communication, and adaptive teaching methodologies in alignment with Yoga Alliance RYT-200 certification standards.

KIN3100 - Athletic Injuries - 3 - Credits

Course Overview

Course Prefix
KIN

Course Number
3100

Department
Kinesiology and Health Science

Course Title
Athletic Injuries

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Care and prevention of common athletic injuries and standard taping techniques. Emphasizes recognition, first aid, and referral for these injuries. Taping techniques taught in a lab setting.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Identify and describe common athletic injuries and their causes.
2. Apply strategies for injury prevention to reduce risk in athletic settings.
3. Recognize injuries and provide appropriate first aid, including knowing when to refer to healthcare professionals.
4. Demonstrate standard taping techniques in a laboratory setting to support injury management.

KIN3200 - Motor Control and Learning (CI) - 3 - Credits

Course Overview

Course Prefix
KIN

Course Number
3200

Department
Kinesiology and Health Science

Course Title
Motor Control and Learning (CI)

General Education Attribute
CI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course explores materials, methods, and mechanisms of learning, practicing, and performing motor skills. Various sport skills are taught where students give and receive feedback. Students teach and analyze sport skills with a presentation using computer technology with video and slides.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Registration Restrictions
Admission to one of the following programs:

- Kinesiology
- Elementary Education
- Pre-Elementary Education

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Demonstrate foundational knowledge of motor control and learning
Students will describe and explain key theories, concepts, and mechanisms underlying how people control and learn motor skills, including physiological, psychological, and behavioral perspectives.
2. Apply motor control and learning principles to real-world contexts
Students will use theoretical and empirical concepts to analyze and address practical problems in movement, performance, and skill acquisition across sport, rehabilitation, and everyday activities.
3. Communicate effectively about motor control and learning
Students will articulate concepts clearly and professionally through written reflections, discussions, and presentations, demonstrating the ability to connect course material to personal and professional experiences.

KIN3250 - Anatomical Kinesiology - 3 - Credits

Course Overview

Course Prefix
KIN

Course Number
3250

Department
Kinesiology and Health Science

Course Title
Anatomical Kinesiology

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Study of the anatomical bases of human movement. Laboratory provides application of principles.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- BIOL2320 - Human Anatomy

Course Learning Objectives

Course Learning Outcomes

1. Explain and apply fundamental concepts and principles of anatomical kinesiology to describe human movement.
2. Describe and illustrate basic neuromuscular concepts, including motor unit recruitment, proprioception, and neuromuscular control.
3. Apply and analyze fundamental biomechanical principles (e.g., levers, torque, force production) as they relate to joint and muscle function.
4. Identify and label the major bones, joints, and skeletal muscles of the human body using anatomical terminology.
5. Explain the functional roles of anatomical structures (bones, joints, and muscles) in producing and controlling movement.
6. Compare and differentiate how the structural characteristics of skeletal muscles influence their function and action at major synovial joints.
7. Analyze and evaluate human movement and resistance training exercises to determine the primary muscles involved and their roles during movement.
8. Interpret, critically evaluate, and discuss current research findings in anatomical and functional kinesiology.

KIN3300 - Clinical Experience I - 1 - Credits

Course Overview

Course Prefix
KIN

Course Number
3300

Department
Kinesiology and Health Science

Course Title
Clinical Experience I

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
This course includes a 45-hour clinical practicum in middle or high schools, arranged by instructors and the Office of Field Experience in the School of Teacher Education and Leadership (TEAL).

Credit Hours

Credit Hours Min:
1

Contact Hours

Contact Hours Min:
1

Billing Hours

Billing Hours Min:
1

Lecture Hours

Lecture Hours Min:
1

Registration Restrictions

Admission to Secondary Teacher Education Program (STEP)

No Requirements

KIN3500 - Adapted Physical Education - 3 - Credits

Course Overview

Course Prefix
KIN

Course Number
3500

Department
Kinesiology and Health Science

Course Title
Adapted Physical Education

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course prepares Physical Education students to accommodate special needs learners, providing strategies for designing, implementing, and evaluating an inclusive PE curriculum.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes
1. By the end of the course, students will be able to describe the range of congenital and acquired disabilities they might encounter in a physical education context. They should be able to differentiate between different types of disabilities and understand how each can affect a student's ability to participate in physical activities.
2. Students will be able to design, implement, and evaluate a physical education curriculum that effectively integrates students with special needs. They should understand how to modify activities to ensure they are accessible and beneficial to all students, regardless of their physical capabilities.
3. Students will learn to develop a behavior treatment plan using principles of behavioral analysis. They will learn how to collect, analyze, and evaluate data to assess the effectiveness of an Individualized Education Program (IEP).
4. Students will be able to identify and implement techniques for providing competitive sport experiences tailored to the needs, interests, and abilities of students with disabilities. They should be capable of organizing and facilitating inclusive competitive events.
5. Students will demonstrate competency in understanding the process, protocol, and timeline for requesting and obtaining "prior formal consent to test" under the IEP framework. They should be capable of ensuring compliance with legal and procedural requirements for special needs education.
6. Students will learn strategies for promoting a respectful and inclusive physical education environment for students with special needs. They should understand how to cultivate a classroom culture that values diversity and inclusion.

KIN3700 - Meditation and Mindfulness: History and Practice - 3 - Credits

Course Overview

Course Prefix
KIN

Course Number
3700

Department
Kinesiology and Health Science

Course Title
Meditation and Mindfulness: History and Practice

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course explores the rich history and practical application of meditation and mindfulness practices. Students explore meditation techniques and mindfulness methods while cultivating a deeper understanding of these ancient practices.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Identify and describe the historical and cultural origins of meditation and mindfulness across multiple spiritual, philosophical, and secular traditions.
2. Explain key concepts, texts, and figures that have shaped the global development of meditation practices from ancient to modern contexts.
3. Compare and contrast diverse meditative traditions—including Buddhist, Hindu, Christian, Sufi, Taoist, and Indigenous approaches—and their shared aims of cultivating awareness, compassion, and insight.
4. Analyze the relationship between traditional contemplative practices and contemporary scientific, psychological, and medical understandings of mindfulness.
5. Demonstrate familiarity with a variety of meditation and mindfulness techniques through guided and self-directed practice.
6. Reflect critically on personal experiences of meditation, recognizing patterns of thought, emotion, and behavior with curiosity and compassion.
7. Integrate meditative principles into daily life to support well-being, ethical awareness, and emotional regulation.
8. Synthesize historical knowledge and lived experience into a personal philosophy of mindfulness that honors both ancient wisdom and modern relevance.

KIN3830 - The History of Yoga - 3 - Credits

Course Overview

Course Prefix
KIN

Course Number
3830

Department
Kinesiology and Health Science

Cross-Listed Courses
ENGL3830 - The History of Yoga, HIST3830 - The History of Yoga, RELS3830 - The History of Yoga

Course Title
The History of Yoga

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course explores the history of yoga from its origins in Indian prehistory to the variety of philosophies and practices that have evolved throughout the world. Students study ancient and modern texts on yoga and broader philosophy and theory.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes
1. Identify and describe major historical periods, texts, and philosophical traditions that have shaped the evolution of yoga from its ancient Indian roots to its modern global expressions.
2. Explain key concepts and terminology from foundational yoga scriptures, including the Upanishads, Bhagavad Gītā, Yoga Sūtras of Patanjali, and Ha◈ha Yoga Pradīpikā.
3. Analyze the cultural, religious, and philosophical contexts that have influenced yoga's development and its transmission to the West.
4. Evaluate contemporary questions related to authenticity, ownership, and cultural appropriation in the global practice of yoga.
5. Demonstrate introductory knowledge of Sanskrit terms and pronunciation as they relate to yoga philosophy and practice.
6. Compare and contrast diverse yoga traditions and lineages, identifying continuities and innovations across time and geography.
7. Synthesize historical and philosophical understanding into a personal reflection on the meaning, relevance, and ethical dimensions of yoga practice today.

KIN3900 - Fitness Administration - 3 - Credits

Course Overview

Course Prefix
KIN

Course Number
3900

Department
Kinesiology and Health Science

Course Title
Fitness Administration

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
A study of organizational and management principles for fitness and wellness professionals. Emphasizes marketing, legal, facilities, and administrative challenges and best practices in the health-fitness industry.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Create an organizational chart and define administrative and staff roles within a health/fitness facility.
2. Develop policies and procedures for hiring, training, and retaining personnel.
3. Explain the fiduciary responsibilities of a health/fitness owner/administrator and develop a budget that addresses equipment, maintenance, staffing, and facility usage.
4. Create a mission statement for your program, define your target population, and develop communication and marketing strategies to attract and retain members/clients.
5. Design the layout for a fitness and/or wellness facility based on professional standards and guidelines.
6. Use best practices to develop an equipment maintenance/repair plan to reduce injury risk in the facility.
7. Develop an emergency action plan and explain the health/fitness professional's role, responsibilities, limitations, and legal implications of carrying out and documenting safety procedures.

KIN4000 - Mental Aspects of Sports Performance - 3 - Credits

Course Overview

Course Prefix
KIN

Course Number
4000

Department
Kinesiology and Health Science

Cross-Listed Courses
PSY4000 - Mental Aspects of Sports Performance

Course Title
Mental Aspects of Sports Performance

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides an understanding of theory and applications in the specialty area of sports psychology, including enhancement of motivation and performance, stress, anxiety, aggression and time management, and the relation of these issues to physical development and coaching styles.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes
1. Define and describe key concepts, theories, and principles in sport psychology (e.g., motivation, emotions, group dynamics).
2. Explain how psychological factors influence performance, participation, and well-being in sport and exercise contexts.
3. Apply major sport psychology theories to real-world sport and exercise scenarios.
4. Analyze the psychological demands of sport participation and evaluate the effectiveness of common mental skills strategies (e.g., goal setting, imagery, self-talk)

KIN4015 - Yoga and Nature - 3 - Credits

Course Overview

Course Prefix
KIN

Course Number
4015

Department
Kinesiology and Health Science

Course Title
Yoga and Nature

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course uses an integrative and interdisciplinary approach to the fields of Yoga and the Science of Ayurveda and Earth System Science.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes
1. Explain the foundational principles of Ayurveda, including the five elements (pancha mahabhuta) and three doshas (Vata, Pitta, Kapha), and their relationship to yoga philosophy and practice.
2. Identify and analyze patterns of balance and imbalance within the body and environment through the lens of Ayurvedic theory.
3. Demonstrate an understanding of how yoga practices—such as asana, pranayama, and meditation—can be applied to support individual constitution and seasonal harmony.
4. Observe and reflect on the interdependence of natural systems, recognizing parallels between ecological principles and human health.
5. Apply Ayurvedic and yogic principles to cultivate awareness of personal lifestyle habits and their connection to environmental well-being.
6. Integrate insights from field experiences and interdisciplinary learning (e.g., ecology, art, herbalism) to deepen understanding of holistic wellness.
7. Synthesize knowledge of yoga and Ayurveda into a personalized framework for mind-body balance, ethical awareness, and connection to the natural world.

KIN4100 - Exercise Physiology - 4 - Credits

Course Overview

Course Prefix
KIN

Course Number
4100

Department
Kinesiology and Health Science

Course Title
Exercise Physiology

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Designed to expose students to theory and application of exercise physiology and principles of training and conditioning. Laboratory experience provides hands-on practicum for concepts taught in the classroom.

Credit Hours

Credit Hours Min:
4

Contact Hours

Contact Hours Min:
4

Billing Hours

Billing Hours Min:
4

Lecture Hours

Lecture Hours Min:
4

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Fulfill ALL of the following requirements:

Required

Complete ALL of the following Courses:

- BIOL2320 - Human Anatomy
- BIOL2420 - Human Physiology

AND

Required

Complete at least 1 of the following courses:

- KIN2000 - Introduction to Kinesiology

OR KIN2020 - Introduction to Physical Therapy

AND

Required

Complete one of the courses or exams to fulfill prerequisite.

Complete at least 1 of the following courses:

- MATH1050 - College Algebra (QL)
- STAT1040 - Introduction to Statistics (QL)
- STAT1045 - Introduction to Statistics with Elements with Algebra (QL)
- STAT1080 - Foundations of Data Science (QL)

OR

ACT Math score of 25 or higher or equivalent SAT Math score
AP Calculus AB score of 3 or higher

Course Learning Objectives

Course Learning Outcomes

1. Explain the acute physiologic responses to a single bout of exercise and the chronic adaptations resulting from regular training.
2. Describe the mechanisms of energy metabolism within muscle fibers and explain how the respiratory, cardiovascular, nervous, endocrine, and muscular systems interact during exercise.
3. Apply physiological principles to develop or evaluate fitness, wellness, weight-management, and training programs.
4. Interpret physiological test data and effectively communicate findings through written reports and a research-article presentation.

KIN4200 - Biomechanics (QI) - 4 - Credits

Course Overview

Course Prefix
KIN

Course Number
4200

Department
Kinesiology and Health Science

Course Title
Biomechanics (QI)

General Education Attribute
QI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Understanding and application of human anatomical kinesiology and biomechanical principles fundamental to efficient human movement. In required concurrent one-hour lab, students obtain hands-on application of principles of anatomical kinesiology and biomechanics.

Credit Hours

Credit Hours
Min:
4

Contact Hours

Contact Hours
Min:
4

Billing Hours

Billing Hours
Min:
4

Lecture Hours

Lecture Hours
Min:
4

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Fulfill ALL of the following requirements:

Required

Complete ALL of the following Courses:

- BIOL2320 - Human Anatomy
- BIOL2420 - Human Physiology
- KIN3250 - Anatomical Kinesiology

AND

Required

Complete one of the following courses or exams:

Complete at least 1 of the following courses:

- MATH1050 - College Algebra (QL)
- STAT1040 - Introduction to Statistics (QL)
- STAT1045 - Introduction to Statistics with Elements with Algebra (QL)
- STAT1080 - Foundations of Data Science (QL)

OR

ACT Math score of 25 or higher
AP Calculus AB score of 3 or higher

Additional Comments:
(MATH 1050 or higher acceptable)

Course Learning Objectives

Course Learning Outcomes
1. To be able to explain core concepts in biomechanics (e.g. kinematics vs. kinetics, scalars vs. vectors)
2. To be able to describe human motion numerically (e.g. apply Newton's laws to describe motion and interactions and related concepts)
3. To be able to define and calculate stress/strain; determine modulus, yield points and related concepts and apply these ideas to human tissues
4. To be able to describe how biomechanical skills are useful to a range of professions

KIN4250 - Advanced Cooperative Work Experience - 1 - 10 Credits

Course Overview

Course Prefix
KIN

Course Number
4250

Department
Kinesiology and Health Science

Course Title
Advanced Cooperative Work Experience

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
Cooperative education work experience offers student opportunity to work in related field work of the major.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
10

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
10

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
10

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
10

Lecture Hours Operator:
TO

Special Approval

Instructor permission

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Identify new or expanded responsibilities and learning opportunities experienced at their Work Experience Location.
2. Provide an objective assessment/evaluation of their Workplace Experience, as well as provide input on your supervisor/location that may be helpful to future students.
3. Demonstrate the ability to fulfill all academic requirements associated with the course in a timely manner.

KIN4300 - Clinical Experience II - 1 - Credits

Course Overview

Course Prefix
KIN

Course Number
4300

Department
Kinesiology and Health Science

Course Title
Clinical Experience II

Grade Mode
Pass/Fail

Repeat Status
NR

Course Description
This course includes a 45-hour clinical practicum in middle or high schools, arranged by instructors and the Office of Field Experience in the School of Teacher Education and Leadership (TEAL).

Credit Hours

Credit Hours Min:
1

Contact Hours

Contact Hours Min:
1

Billing Hours

Billing Hours Min:
1

Lecture Hours

Lecture Hours Min:
1

Registration Restrictions
Admission to Secondary Teacher Education Program (STEP)

Course Learning Objectives

Course Learning Outcomes
1. Plan and deliver effective, standards-aligned lessons that address diverse student needs.
2. Demonstrate professional classroom management and communication skills.
3. Use assessment data to inform and adjust instructional strategies.
4. Reflect critically on their teaching practice to support ongoing professional growth.

KIN4350 - Administration and Classroom Management of Physical Education - 2 - Credits

Course Overview

Course Prefix
KIN

Course Number
4350

Department
Kinesiology and Health Science

Course Title
Administration and Classroom Management of Physical Education

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Designed for students to develop a philosophy toward the development and implementation of quality physical education programming. Effective classroom management techniques presented and discussed. Reviews budget, personnel, facilities management, programs, and activities.

Credit Hours

Credit Hours Min:
2

Contact Hours

Contact Hours Min:
2

Billing Hours

Billing Hours Min:
2

Lecture Hours

Lecture Hours Min:
2

No Requirements

Course Learning Objectives

Course Learning Outcomes
1. Develop and implement effective classroom management strategies tailored for physical education settings that promote a safe, inclusive, and engaging learning environment.
2. Plan, organize, and administer comprehensive physical education programs in compliance with local, state, and national policies and standards.
3. Apply behavior management techniques to address student discipline, promote positive behavior, and support social-emotional development in physical activity settings.
4. Ensure student safety through risk management practices, emergency preparedness, and adherence to legal and ethical standards in physical education.
5. Communicate and collaborate effectively with students, parents, staff, and community stakeholders to advocate for and enhance physical education programs.

6. Manage physical education resources, including facilities, equipment, scheduling, and budgeting to maximize program effectiveness.
7. Use data and assessment information to inform instructional decisions, program improvements, and student outcomes in physical education.

KIN4400 - Measurement and Evaluation in Kinesiology (QI) - 3 - Credits

Course Overview

Course Prefix
KIN

Course Number
4400

Department
Kinesiology and Health Science

Course Title
Measurement and Evaluation in Kinesiology (QI)

General Education Attribute
QI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description

This course focuses on the nature and use of measurement theory and evaluation in kinesiology with emphasis on validity and reliability. It also covers practical application and interpretation of data with analyses using computer programs.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Registration Restrictions

Admission to one of the following:

- Kinesiology BS
- Kinesiology: Exercise Science Emphasis - BS
- Kinesiology: Physical Education Teaching Emphasis - BS
- Kinesiology: Pre-Physical Therapy Emphasis - BS

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ANY of the following Courses:

- KIN2000 - Introduction to Kinesiology
  OR KIN2020 - Introduction to Physical Therapy

Course Learning Objectives

Course Learning Outcomes

1. Apply appropriate measurement and statistical methods, including descriptive statistics, inferential statistics, and standardized scores, to analyze and interpret kinesiology assessment data.
2. Demonstrate accurate use of assessment terminology and foundational computer skills necessary for data management, statistical analysis, and reporting.
3. Evaluate the quality and appropriateness of assessment tools, including considerations of validity, reliability, sensitivity, and the use of norm-referenced and criterion-referenced tests.
4. Select and apply appropriate measurement tools for kinesiology-related research and assessment purposes, ensuring accurate and ethical data collection.
5. Interpret and communicate assessment results using appropriate statistical conventions and terminology in written and graphical formats commonly used in kinesiology.

KIN4460 - Exercise Electrocardiogram Interpretation - 2 - Credits

Course Overview

Course Prefix
KIN

Course Number
4460

Department
Kinesiology and Health Science

Dual-Listed Courses

KIN6460 - Exercise Electrocardiogram Interpretation

Course Title

Exercise Electrocardiogram Interpretation

Grade Mode
Standard Letter

Repeat Status
NR

Course Description

This course provides an understanding of the theory and practice of ECG interpretation in response to exercise. It reviews standard 12-lead diagnostic ECG and identification of atrial and ventricular enlargement, dysrhythms, ischaemia, and myocardial infarction at rest and during exercise. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Describe the basic ECG measurements and the purpose and placement of ECG leads.
2. Explain the cardiac conduction system and identify common conduction disturbances and arrhythmias on an ECG.
3. Outline the coronary circulation and identify abnormalities in blood supply along with their associated ECG patterns.
4. Interpret electrocardiograms by applying core principles of cardiac electrophysiology and established ECG analysis methods.

KIN4500 - Motivational Strategies for Physical Education and Coaching - 3 - Credits

Course Overview

Course Prefix
KIN

Course Number
4500

Department
Kinesiology and Health Science

Course Title
Motivational Strategies for Physical Education and Coaching

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Addresses issues related to development of coaching philosophy, administration, and reviewing motivational strategies to develop and encourage positive behavior toward sport. Intrinsic motivation, goal setting, team building, and discipline discussed. Provides opportunity to work with local youth sports.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Course Learning Objectives

Course Learning Outcomes

1. Develop and articulate a personal coaching philosophy that integrates individual values, goals, and ethical considerations.
2. Differentiate between intrinsic and extrinsic motivation and apply appropriate strategies to enhance athlete engagement and performance.
3. Design and implement goal-setting plans for youth sports teams, including both short-term and long-term objectives.
4. Apply discipline strategies effectively to encourage positive behavior, maintain team cohesion, and foster a supportive team environment.
5. Identify, analyze, and address ethical issues in coaching, ensuring fairness, inclusivity, and adherence to professional standards.
6. Demonstrate practical coaching skills through guided interaction with youth athletes, applying motivational strategies in real-world contexts.

KIN4900 - Methods of Physical Education (CI) - 3 - Credits

Course Overview

Course Prefix
KIN

Course Number
4900

Department
Kinesiology and Health Science

Course Title
Methods of Physical Education (CI)

General Education Attribute
CI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Designed to prepare physical education majors and minors to teach physical education in the schools. Emphasizes planning, teaching, strategies, and methods.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Admission to the Teacher Education program

Simple Requisites

Corequisite

Type
Corequisite

Required

Enroll in the following Courses:

- KIN3300 - Clinical Experience I
  OR KIN4300 - Clinical Experience II

Required

Complete ALL of the following Courses:

- KIN2000 - Introduction to Kinesiology

Course Learning Objectives

Course Learning Outcomes

1. Plan and deliver developmentally appropriate physical education lessons aligned with state and national standards for K-12 students.
2. Integrate fundamental fitness principles (cardiovascular endurance, strength, flexibility) into physical education instruction.
3. Utilize effective pedagogical strategies, including communication, feedback, and classroom management, to promote student engagement and learning.
4. Employ formative and summative assessments to monitor student progress and inform instruction.
5. Advocate for physical education programs and promote lifelong physical activity and wellness within the school community.

KIN4910 - Methods of Teaching Health - 3 - Credits

Course Overview

Course Prefix
KIN

Course Number
4910

Department
Kinesiology and Health Science

Course Title
Methods of Teaching Health

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course examines teaching methods, materials and techniques. This course studies secondary education health curriculum, program planning, development, implementation, and evaluation. Students develop lesson plans and present them in secondary education settings.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Registration Restrictions

Admission to Secondary Teacher Education Program (STEP)

Simple Requisites

Corequisite

Type
Corequisite

Required

Enroll in the following Courses:

- KIN3300 - Clinical Experience I

Course Learning Objectives

Course Learning Outcomes

1. Demonstrate knowledge of health education content and its scientific and theoretical foundations.
2. Plan and deliver developmentally appropriate lessons aligned with standards and responsive to diverse student needs.
3. Engage students effectively using communication, feedback, instructional strategies, and technology.
4. Use assessments to monitor learning and guide instructional decisions.
5. Exhibit professional and ethical behavior, including cultural competence, advocacy, and commitment to ongoing development.

KIN4950 - Honors Senior Thesis - 1 - 6 Credits

Course Overview

Course Prefix
KIN

Course Number
4950

Department
Kinesiology and Health Science

Course Title
Honors Senior Thesis

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Culminating experience within the department for honors students. Student works closely with faculty mentor in an extensive project in the student's area of interest.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
6

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
6

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
6

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
6

Lecture Hours Operator:
TO

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Design and carry out an independent, in-depth project in their area of academic or professional interest.
2. Engage with scholarly or professional literature to inform and support their work.

3. Produce a well-organized, original thesis or project that demonstrates critical thinking, creativity, and academic rigor.
4. Present their work clearly and effectively to academic or professional audiences, both in writing and orally.

KIN5050 - Psychological Aspects of Sports Performance - 3 - Credits

Course Overview

Course Prefix
KIN

Course Number
5050

Department
Kinesiology and Health Science

Cross-Listed Courses
PSY5050 - Psychological Aspects of Sports Performance

Course Title
Psychological Aspects of Sports Performance

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Psychological theory and principles applied to sports. Includes motivational techniques, psychological evaluation, stress and anxiety in sports, and personality and sports performance.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Course Learning Objectives

Course Learning Outcomes
1. Tailor coaching strategies to align with the developmental needs of athletes at different stages.
2. Tailor coaching strategies to promote physical, psychological, and social development in athletes.
3. Apply psychological techniques to enhance athlete motivation, goal-setting, and self-regulation.
4. Demonstrate competence in addressing psychosocial challenges and promoting athlete well-being through coaching interventions.

KIN5100 - Fitness Assessment and Exercise Programs - 4 - Credits

Course Overview

Course Prefix
KIN

Course Number
5100

Department
Kinesiology and Health Science

Course Title
Fitness Assessment and Exercise Programs

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Application of physiologic principles, assessment techniques, and exercise prescription for developing quality fitness programs that impact health. Students gain experience in a personal fitness program and in the use and interpretation of fitness tests.

Credit Hours

Credit Hours Min:
4

Contact Hours

Contact Hours Min:
4

Billing Hours

Billing Hours Min:
4

Lecture Hours

Lecture Hours Min:
4

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- KIN4100 - Exercise Physiology

Course Learning Objectives

Course Learning Outcomes

1. Recognize the importance of physical activity in the prevention of hypokinetic diseases.
2. Develop knowledge of the principles of physical fitness assessment, interpretation of results, and exercise prescription.
3. Have the opportunity for practical experiences using field and laboratory tests for the appraisal of physical fitness status and the design of individualized exercise programs in the following areas: Health Screening/Risk Assessment; Cardiorespiratory Fitness; Agility and Speed; Power; Body Composition; Flexibility; Balance; Muscular Strength and Endurance
4.Become familiar with various exercise and conditioning programs for development of each physical fitness component and weight management.

KIN5200 - Human Motivation in Physical Activity Contexts - 3 - Credits

Course Overview

Course Prefix
KIN

Course Number
5200

Department
Kinesiology and Health Science

Course Title
Human Motivation in Physical Activity Contexts

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces students to the science of human motivation and its role in promoting physical activity in non-competitive settings. The course focuses on intrinsic and extrinsic factors that shape behavior and the outcomes of various forms of motivation.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Course Learning Objectives

Course Learning Outcomes

1. Explain foundational concepts of motivation in sport, physical activity, and exercise settings.
2. Compare and apply major theoretical perspectives on motivation to athletic and physical activity contexts.
3. Analyze and apply motivational principles in laboratory and real-world sport experiences.
4. Communicate ideas effectively through written papers and oral or video presentations.

KIN5430 - History and Philosophy of Physical Activity and Sport (CI) - 3 - Credits

Course Overview

Course Prefix
KIN

Course Number
5430

Department
Kinesiology and Health Science

Cross-Listed Courses
PHIL5430 - History and Philosophy of Physical Activity and Sport (CI)

Course Title
History and Philosophy of Physical Activity and Sport (CI)

General Education Attribute
CI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course explores historical and philosophical aspects of physical activities popular in today's culture, particularly sports. Students examine these practices within historical and social contexts, understanding their evolution and significance, alongside related philosophical and ethical issues like doping and sex categorization.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Course Learning Objectives

Course Learning Outcomes

1. Understand the historical origins of contemporary movement practices, particularly sport, and why challenging issues arise.
2. Explain the philosophical and ethical frameworks that shed light on challenging issues in sport.
3. Apply historical and philosophical knowledge to current issues like performance-enhancing technology use in professional sport.
4. Engage critically with historical, philosophical, and journalistic texts to analyze and evaluate complex ideas.
5. Reflect thoughtfully on class discussions and materials, integrating personal perspectives and connecting them to broader conversations about human

movement and sport.
6. Craft persuasive and well-structured written and spoken arguments adapted to specific purposes, genres, and audiences, using feedback to refine their effectiveness.
7. Collaborate effectively in class activities and discussions to develop and apply critical analysis, argumentation, communication, and problem-solving skills.

KIN5500 - Student Teaching Seminar - 2 - Credits

Course Overview

Course Prefix
KIN

Course Number
5500

Department
Kinesiology and Health Science

Course Title
Student Teaching Seminar

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Capstone seminar focused upon student teaching issues, professional development, and principles of effective instruction.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Registration Restrictions

Level I and II field experiences

Other Enrollment Recommendations

1. Analyze and reflect on their student teaching experiences to identify strengths and areas for growth.
2. Demonstrate an understanding of professional responsibilities, including ethics, communication, and collaboration in school settings.
3. Apply principles of effective instruction to real-world classroom challenges.
4. Develop a professional development plan that supports continued growth as an educator beyond student teaching.

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- KIN4900 - Methods of Physical Education (CI)

KIN5630 - Student Teaching in Secondary Schools - 10 - Credits

Course Overview

Course Prefix
KIN

Course Number
5630

Department
Kinesiology and Health Science

Course Title
Student Teaching in Secondary Schools

Grade Mode
Pass/Fail

Repeat Status
NR

Course Description
A 13-week culminating experience in which students assume full-time teaching responsibilities under the direction of cooperating teachers in physical education.

Credit Hours

Credit Hours
Min:
10

Contact Hours

Contact Hours
Min:
10

Billing Hours

Billing Hours
Min:
10

Lecture Hours

Lecture Hours
Min:
10

Registration Restrictions

Completion of Level I and II field experiences.

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- KIN4900 - Methods of Physical Education (CI)

Course Learning Objectives

Course Learning Outcomes

1. Plan and deliver developmentally appropriate, standards-based instruction across multiple subject areas or grade levels.
2. Manage the classroom environment effectively to support student learning and engagement.
3. Assess student learning using a variety of formative and summative assessment strategies and use results to inform instruction.
4. Demonstrate professionalism through ethical conduct, collaboration with school personnel, and responsiveness to feedback from mentors and supervisors.

KIN5700 - Special Topics - 1 - 6 Credits

Course Overview

Course Prefix
KIN

Course Number
5700

Department
Kinesiology and Health Science

Course Title
Special Topics

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course is an in-depth review and discussion of special topics in Kinesiology.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
6

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
6

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
6

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
6

Lecture Hours Operator:
TO

Course Learning Objectives

Course Learning Outcomes

1. Analyze key concepts and current issues related to the special topic.
2. Apply relevant theories or methods to explore the topic in depth.
3. Critically evaluate diverse perspectives and evidence related to the subject matter.
4. Communicate insights and findings clearly through written and/or oral formats.

KIN5900 - Independent Study - 1 - 3 Credits

Course Overview

Course Prefix
KIN

Course Number
5900

Department
Kinesiology and Health Science

Course Title
Independent Study

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course provides an opportunity for undergraduate or graduate students to participate in independent inquiry under the guidance of a professor.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

Special Approval
Instructor permission

Course Learning Objectives

Course Learning Outcomes

1. Collaborate with a faculty mentor to define the scope and objectives of an independent inquiry or project.
2. Pursue self-directed learning or project work using relevant methods and resources.
3. Create a final product demonstrating understanding and application of the chosen topic or skill.
4. Reflect on their learning experience and engage in meaningful discussion with their mentor.

KIN5910 - Independent Research - 1 - 3 Credits

Course Overview

Course Prefix
KIN

Course Number
5910

Department
Kinesiology and Health Science

Course Title
Independent Research

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course allows undergraduate students to pursue personal research interests by formalizing an independent project under the guidance of a professor.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

Special Approval
Instructor permission

Course Learning Objectives

Course Learning Outcomes
1. Develop a research question or hypothesis aligned with their academic interests.
2. Design and implement a research plan using appropriate methodologies under faculty supervision.
3. Analyze and interpret research findings using scholarly standards.
4. Produce a well-documented research report or paper communicating their results.

KIN6000 - Administration of Athletics - 3 - Credits

Course Overview

Course Prefix
KIN

Course Number
6000

Department
Kinesiology and Health Science

Course Title
Administration of Athletics

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Prepares students to organize and administer sports at the public school, university, and professional level. Consideration is given to both the challenges and standards associated with such programs.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes
1. Employ leadership and communication strategies to create cohesive teams and maximize athlete potential.
2. Interpret inclusive practices into coaching and management approaches to create equitable and supportive sports environments.

KIN6010 - Communication and Leadership in Sport - 3 - Credits

Course Overview

Course Prefix
KIN

Course Number
6010

Department
Kinesiology and Health Science

Course Title
Communication and Leadership in Sport

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides a group approach to improvement and innovation in leadership, communication, and organizational skills.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Course Learning Objectives

Course Learning Outcomes

1. Demonstrate leadership qualities such as vision, integrity, and empathy in coaching roles.
2. Communicate effectively with athletes, teams, and stakeholders to foster positive relationships and enhance performance.
3. Demonstrate proficiency in coaching techniques and methodologies across different sport contexts.
4. Engage in ongoing professional development to refine coaching skills and adapt to evolving coaching practices.

KIN6020 - Curriculum and Methods of Physical Education - 3 - Credits

Course Overview

Course Prefix
KIN

Course Number
6020

Department
Kinesiology and Health Science

Course Title
Curriculum and Methods of Physical Education

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students learn curriculum development and effective teaching methods for K-12 physical education, addressing student needs in today's society while exploring current practices and trends to enhance engagement and learning outcomes across various age levels.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Course Learning Objectives

Course Learning Outcomes

1. Design and deliver effective physical education lessons for K-12 students, demonstrating knowledge and skills that align with best practices in physical education instruction.
2. Apply key concepts and strategies in physical education, including skill development, classroom management, and assessment techniques, to foster student engagement and learning.
3. Interpret and apply the Utah Core Standards for physical education to plan and evaluate lessons that meet state educational requirements and promote student success.
4. Use data and observations to adapt instruction, ensuring that lessons are responsive to the diverse needs of students and facilitate student agency and empowerment in the learning process.
5. Provide targeted, constructive feedback to students based on their progress and performance, helping them improve their skills and understanding of physical education concepts.

KIN6025 - Intercollegiate Athletics Administration - 3 - Credits

Course Overview

Course Prefix
KIN

Course Number
6025

Department
Kinesiology and Health Science

Course Title
Intercollegiate Athletics Administration

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course is designed to (1) facilitate an investigation of the historical development and current issues of intercollegiate athletics; (2) enable students to examine the role of intercollegiate athletics; and (3) provide understanding of the administrative aspects of intercollegiate athletics.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Analyze the historical development of intercollegiate athletics and explain its influence on current issues.
2. Evaluate the role of intercollegiate athletics within the mission and structure of American higher education.
3. Assess key administrative functions in athletics departments, including governance, compliance, finance, and external relations.
4. Apply sport management concepts to develop strategies for addressing contemporary challenges in intercollegiate athletics.

KIN6030 - Sports Marketing and Public Relations - 3 - Credits

Course Overview

Course Prefix
KIN

Course Number
6030

Department
Kinesiology and Health Science

Course Title
Sports Marketing and Public Relations

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course prepares students to apply marketing, economic and communication principles in the field of sports management. The process of developing, implementing and critically evaluating marketing and communication plans in sports-related fields is emphasized.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Develop an understanding of strategic marketing planning processes within sport organizations.
2. Apply marketing and digital communication frameworks to design integrated campaigns.
3. Create targeted content and media materials that align with organizational objectives and effectively communicate key messages to diverse audiences.
4. Evaluate the effectiveness of sport marketing strategies

KIN6040 - Sport Event and Facility Management - 3 - Credits

Course Overview

Course Prefix
KIN

Course Number
6040

Department
Kinesiology and Health Science

Course Title
Sport Event and Facility Management

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides students with an understanding of the planning, design, and operational considerations of sport and recreation facilities.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Demonstrate an understanding of the principles involved in planning, managing, and operating sport and recreation facilities and events.
2. Analyze the conceptual and technical aspects of sport event development and facility design.
3. Apply problem-solving and critical thinking skills to address challenges in facility and event management.
4. Utilize current technologies and industry tools to enhance efficiency and decision-making in sport facility and event operations.

KIN6050 - Psychological Aspects of Sports Performance - 3 - Credits

Course Overview

Course Prefix
KIN

Course Number
6050

Department
Kinesiology and Health Science

Cross-Listed Courses
PSY6050 - Psychological Aspects of Sports Performance

Course Title
Psychological Aspects of Sports Performance

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Psychological theory and principles applied to sports. Includes motivational techniques, psychological evaluation, stress and anxiety in sports, and personality and sports performance.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Course Learning Objectives

Course Learning Outcomes

1. Tailor coaching strategies to align with the developmental needs of athletes at different stages.
2. Tailor coaching strategies to promote physical, psychological, and social development in athletes.
3. Apply psychological techniques to enhance athlete motivation, goal-setting, and self-regulation.
4. Demonstrate competence in addressing psychosocial challenges and promoting athlete well-being through coaching interventions.

KIN6060 - Legal Issues in Sports - 3 - Credits

Course Overview

Course Prefix
KIN

Course Number
6060

Department
Kinesiology and Health Science

Course Title
Legal Issues in Sports

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides an overview of the nature of law and U.S. legal systems; the law of torts, contracts, civil liberties and rights; and risk management and legal research all in the context of sports management.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Other Enrollment Recommendations
1. Explain the structure of the US legal system and how legal disputes in sport are analyzed and resolved.
2. Differentiate among major legal areas affecting sport, including intentional torts, defamation, product liability, antitrust law, employment law, and constitutional issues.
3. Apply NCAA bylaws and compliance standards to determine whether violations occurred.
4. Analyze emerging legal issues related to Title IX; Name, Image, and Likeness (NIL); gambling; data privacy; wearable technologies; and hazing.
5. Use ethical reasoning to examine current legal frameworks and distinguish legal compliance from ethical practice.
6. Communicate legal and ethical analyses clearly and concisely, in both written and oral forms.
7. Ask focused, constructive questions that clarify legal problems and support ethical decision-making in sport contexts.

No Requirements

KIN6070 - Social Dimensions of Sport - 3 - Credits

Course Overview

Course Prefix
KIN

Course Number
6070

Department
Kinesiology and Health Science

Course Title
Social Dimensions of Sport

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Introduces students to complex role and social significance of sport in contemporary society. Familiarizes students with aims, scope, and potential contributions of sport in society.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Course Learning Objectives

Course Learning Outcomes
1. Tailor coaching strategies to promote physical, psychological, and social development in athletes.
2. Analyze the impact of sociocultural factors on athlete experiences and performance in diverse sports contexts.
3. Interpret inclusive practices into coaching and management approaches to create equitable and supportive sports environments.

KIN6075 - Sport Ethics - 3 - Credits

Course Overview

Course Prefix
KIN

Course Number
6075

Department
Kinesiology and Health Science

Course Title
Sport Ethics

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course examines ethical dilemmas in sport coaching, emphasizing ethical decision-making frameworks. Students explore roles of integrity, fairness, and respect, while considering sociocultural factors and barriers to participation and develop strategies for fostering ethical coaching practices and positive athlete experiences.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Course Learning Objectives

Course Learning Outcomes

- Understand ethical issues and challenges commonly encountered in sport coaching.
- Apply ethical decision-making frameworks to resolve ethical dilemmas in coaching.
- Recognize the importance of integrity, fairness, and respect in coaching practice.
- Understand the social and cultural contexts that impact athlete experiences and well-being in sports environments.
- Analyze sociocultural barriers to participation and inclusion in sport.
- Develop strategies to promote inclusive excellence in coaching environments.

KIN6080 - Financial Management of Sports - 3 - Credits

Course Overview

Course Prefix
KIN

Course Number
6080

Department
Kinesiology and Health Science

Course Title
Financial Management of Sports

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides an overview of financial issues related to sports organizations and provides practical application to establish sound financial sports management strategies.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Explain key financial concepts, structures, and tools used in managing sport organizations.
2. Analyze traditional and innovative revenue sources, including media rights, sponsorships, and venue-based income.
3. Develop financial plans and forecasts to support strategic decision-making in sport organizations.
4. Evaluate the economic impact of sport events and facilities using established analytical principles.

KIN6085 - Sport Fundraising and Sponsorship - 3 - Credits

Course Overview

Course Prefix
KIN

Course Number
6085

Department
Kinesiology and Health Science

Course Title
Sport Fundraising and Sponsorship

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces students to techniques for securing financial support and building mutually beneficial partnerships in the sport industry. Students develop skills to create effective proposals, manage sponsor and donor relationships, and capitalize on opportunities to support sport organizations.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Course Learning Objectives

Course Learning Outcomes

1. Analyze fundraising and sponsorship strategies used across various sectors of the sport industry.
2. Evaluate factors influencing donor and corporate partner decision-making to inform effective solicitation strategies.
3. Design an integrated fundraising or sponsorship campaign that aligns with an organization's mission and objectives.
4. Develop professional proposals, presentations, and activation plans tailored to specific target audiences.
5. Apply relationship management techniques to cultivate and maintain long-term partnerships.
6. Assess the effectiveness and return on investment (ROI) of fundraising and sponsorship initiatives using appropriate metrics.

KIN6090 - Sports Sales - 3 - Credits

Course Overview

Course Prefix
KIN

Course Number
6090

Department
Kinesiology and Health Science

Course Title
Sports Sales

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course examines the theory and practice of sport sales with an emphasis on sales strategies, relationship management, and applied techniques to generate revenue and enhance the fan experience.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Develop effective communication and interpersonal sales skills appropriate for professional sport environments.
2. Apply consultative and relationship-based sales techniques during mock and/or real sales calls to build rapport and close sales.
3. Create a professional sales script that incorporates questioning, objection handling, and value-based messaging tailored to a sport property or event.
4. Evaluate sales performance through reflection and feedback to improve personal effectiveness and contribute to organizational revenue goals.

KIN6120 - Leadership and Organizational Behavior in Sport - 3 - Credits

Course Overview

Course Prefix
KIN

Course Number
6120

Department
Kinesiology and Health Science

Course Title
Leadership and Organizational Behavior in Sport

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course addresses the theory and application of leadership within sport organizations. Competence is developed in understanding the human output of organizations from the individual to system levels. Emphasis is placed on organizational culture and change.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Develop an understanding of leadership theories and organizational behavior concepts relevant to the management of sport organizations.
2. Apply leadership models to real-world issues in sport environments.
3. Analyze organizational culture and structure to identify factors that influence employee performance, collaboration, and decision-making.
4. Integrate ethical leadership principles and emotional intelligence competencies into professional practice.

KIN6130 - Data Analytics and Data Driven Decision Making in Sports - 3 - Credits

Course Overview

Course Prefix
KIN

Course Number
6130

Department
Kinesiology and Health Science

Course Title
Data Analytics and Data Driven Decision Making in Sports

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers data analytics and decision-making in sport management, focusing on collecting, processing, analyzing, and interpreting data for player performance, fan engagement, marketing strategies, and revenue optimization.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Course Learning Objectives

Course Learning Outcomes

1. Understand the fundamentals of data-driven decision-making in sport management.
2. Know of the importance of data-driven decision-making in sport management.
3. Learn basic techniques for collecting and analyzing sports data.
4. Gain proficiency in interpreting data insights to inform strategic decisions.
5. Explore ethical considerations related to data usage in sport management.
6. Apply learned concepts to practical scenarios through case studies and projects.

KIN6210 - Biophysical Aspects of Sport and Exercise - 3 - Credits

Course Overview

Course Prefix
KIN

Course Number
6210

Department
Kinesiology and Health Science

Course Title
Biophysical Aspects of Sport and Exercise

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course reviews the fundamental connections among sport, functional anatomy, biomechanics, and exercise physiology. Through these perspectives, the relationships between sport, anatomy, human movement, and the physiological adaptations to enhance sport and exercise performance are explored.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Course Learning Objectives

Course Learning Outcomes

1. Apply anatomical and physiological principles to describe human movement and explain how musculoskeletal and neuromuscular systems contribute to sport and exercise performance.
2. Analyze the relationship between exercise and health, including adaptations of major body systems and implications for exercise prescription and performance enhancement.
3. Design evidence-based training programs, including a youth sport-specific strength and conditioning plan, integrating age-appropriate physiological and guidelines-based training concepts.
4. Critically evaluate and synthesize research literature to support decisions in sport and exercise programming and communicate findings through structured, professional writing.

KIN6270 - Injury Prevention and Risk Management - 3 - Credits

Course Overview

Course Prefix
KIN

Course Number
6270

Department
Kinesiology and Health Science

Course Title
Injury Prevention and Risk Management

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces strategies to prevent common sports injuries, principles of first aid, concussion management, and how to identify and respond to common sports injuries, ensuring athlete safety and well-being through injury management and risk mitigation efforts.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Course Learning Objectives

Course Learning Outcomes

1. Identify common sports injuries and explain their mechanisms, symptoms, and implications for athlete performance and safety.
2. Apply evidence-based strategies to prevent injuries in sport-specific contexts, integrating training load management, biomechanics, and environmental considerations.
3. Demonstrate the ability to respond effectively to sports injuries by implementing appropriate injury management protocols that support athlete recovery and minimize long-term risk.
4. Evaluate and mitigate injury risk using analytical tools and technologies, including AI-based models, to support proactive coaching decisions and athlete well-being.

KIN6300 - Seminar in Kinesiology - 1 - Credits

Course Overview

Course Prefix
KIN

Course Number
6300

Department
Kinesiology and Health Science

Course Title
Seminar in Kinesiology

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course is a seminar for students with exercise science, sports medicine, and corporate wellness specializations. It introduces faculty, expectations, and tools for exercise science graduate studies.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Demonstrate foundational knowledge of graduate study in kinesiology
Students will describe the structure, expectations, and degree requirements of the kinesiology graduate program, including timelines, committee formation, and research planning.
2. Locate and utilize key academic and professional resources
Students will identify and apply appropriate tools, databases, and campus resources (e.g., Zotero, literature review modules, faculty expertise) to support their academic progress and problem-solving as graduate students.
3. Engage professionally in the graduate learning community
Students will actively participate in seminar discussions, faculty interactions, and peer presentations to develop effective communication, collaboration, and professional engagement skills within the field of kinesiology.

KIN6410 - Bioenergetics and Exercise Metabolism - 2 - Credits

Course Overview

Course Prefix
KIN

Course Number
6410

Department
Kinesiology and Health Science

Course Title
Bioenergetics and Exercise Metabolism

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
An advanced study of bioenergetics and exercise metabolism. Emphasis on the role and regulation of metabolic pathways during exercise, fuel utilization during exercise, lactate production and utilization, and training-induced metabolic adaptations. A laboratory component provides independent investigation and data collection using indirect calorimetry for measuring human energy expenditure.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Explain the transfer of energy in biological systems.
2. Explain the principles and apply the techniques of indirect calorimetry for measuring human energy expenditure in the laboratory.
3. Explain the role of lactate in exercise metabolism.
4. Analyze physical activities in terms of the primary energy pathway involved in ATP synthesis, the substrate utilized during the activity, and how the response is regulated.
5. Describe how metabolic responses are altered by exercise training.
6. Presentation: lead a class discussion on a recent bioenergetics and exercise

KIN6425 - Exercise in Extreme Environments - 2 - Credits

Course Overview

Course Prefix
KIN

Course Number
6425

Department
Kinesiology and Health Science

Course Title
Exercise in Extreme Environments

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides an advanced study of the human physiological responses and adaptations that occur with exposure to exercise in heat, cold, hyperbaric (underwater), hypobaric (high altitude), microgravity, and polluted environments.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Special Approval

Instructor permission

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Explain the fundamentals of temperature regulation in hot and cold environments.
2. Identify the signs and symptoms of heat and cold injuries and develop preventive strategies to minimize the risk when exercising in these extreme environments.
3. Explain the phenomenon of Cache Valley inversions, the effects of major air pollutants on human physiology, and develop strategies to minimize one's risk.
4. Explain how and why hyperbaric environments pose a danger to human physiology; describe the risks and the practices that must be followed to minimize these risks.
5. Explain the physiological responses and adaptations that occur with training at moderate altitude, and the rationale for various altitude training strategies that have been developed to enhance aerobic performance.
6. Discuss the limitations and dangers of exercising at extreme altitude as well as acclimatization strategies and treatments for high altitude illnesses.
7. Identify the problems that must be overcome for humans to live in a microgravity environment, and explain the physiological responses to this environmental stressor.

KIN6440 - Body Composition - 2 - Credits

Course Overview

Course Prefix
KIN

Course Number
6440

Department
Kinesiology and Health Science

Course Title
Body Composition

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Advanced study of human body composition. Theoretical and applied aspects of body composition assessment in research, clinical, and health/fitness settings. Limitations and usefulness of various assessment techniques reviewed. Laboratory allows for independent investigation and skill development of assessment techniques.

Credit Hours

Credit Hours Min:
2

Contact Hours

Contact Hours Min:
2

Billing Hours

Billing Hours Min:
2

Lecture Hours

Lecture Hours Min:
2

No Requirements

Course Learning Objectives

Course Learning Outcomes
1. Explain the theoretical models and assumptions underlying body composition assessment.
2. Explain the importance of body composition for health and fitness.
3. Assess the strengths and limitations of and critically evaluate laboratory and field methods used to measure body composition in research and clinical settings.
4. Explain the effects of age, ethnicity, sex, physical activity level, body fatness, and various diseases on body composition.
5. Select appropriate reference and field methods for assessing body composition.
6. Accurately measure body composition using the following methods: hydrostatic weighing, air displacement plethysmography, 3D body imaging, ultrasound, bioelectrical impedance, bioimpedance spectroscopy, skinfolds, and anthropometry.
7. Lead a class discussions summarizing published body composition research.
8. Conduct a group project that involves measuring human body composition.

KIN6460 - Exercise Electrocardiogram Interpretation - 2 - Credits

Course Overview

Course Prefix
KIN

Course Number
6460

Department
Kinesiology and Health Science

Dual-Listed Courses
KIN4460 - Exercise Electrocardiogram Interpretation

Course Title
Exercise Electrocardiogram Interpretation

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides an understanding of the theory and practice of ECG interpretation in response to exercise. Review standard 12-lead diagnostic ECG and identification of atrial and ventricular enlargement, dysrhythms, ischaemia, and myocardial infarction at rest and during exercise. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours Min:
2

Contact Hours

Contact Hours Min:
2

Billing Hours

Billing Hours Min:
2

Lecture Hours

Lecture Hours Min:
2

No Requirements

Course Learning Objectives

Course Learning Outcomes
1. Analyze ECG waveforms, intervals, and lead configurations using advanced measurement principles and clinical standards.
2. Critically evaluate the cardiac conduction system and diagnose complex conduction disturbances and arrhythmias using evidence-based interpretive criteria.
3. Synthesize knowledge of coronary circulation to identify, differentiate, and appraise ischemic changes, infarction patterns, and other abnormalities in myocardial blood supply as reflected in ECG recordings.
4. Interpret and defend electrocardiographic findings by integrating advanced concepts in cardiac electrophysiology, pathophysiology, and contemporary ECG analysis methodologies.

KIN6480 - Advanced Neuromuscular Exercise Physiology - 2 - Credits

Course Overview

Course Prefix
KIN

Course Number
6480

Department
Kinesiology and Health Science

Course Title
Advanced Neuromuscular Exercise Physiology

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Provides an understanding of the structural basis for muscular contraction, central and peripheral factors involved in neuromuscular fatigue, and adaptations of the neuromuscular system resulting from aerobic and strength training.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Explain key neuromuscular physiology concepts, including motor unit function, muscle architecture, force transmission, and adaptations to training, aging, and fatigue.
2. Critically analyze and synthesize research literature on neuromuscular topics, applying scientific rigor to evaluate findings and interpret implications for performance and health.
3. Apply neuromuscular principles to practical movement scenarios, demonstrating the ability to connect physiological mechanisms to exercise programming and functional outcomes.
4. Communicate scientific understanding effectively through written reports that integrate evidence-based conclusions and adhere to professional standards of scientific writing.

KIN6490 - Advanced Cardiovascular Exercise Physiology - 2 - Credits

Course Overview

Course Prefix
KIN

Course Number
6490

Department
Kinesiology and Health Science

Course Title
Advanced Cardiovascular Exercise Physiology

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Provides an understanding of the structural and electrophysiological basis of cardiac function and the peripheral circulatory system during exercise. Influence of dynamic and static exercise on the circulatory response including the chronic adaptations of the circulatory system to aerobic and resistance training.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Critically analyze and evaluate current research literature related to cardiovascular physiology, cardiac electrophysiology, and vascular function, and effectively communicate scholarly critiques in written and oral formats.
2. Explain and integrate the structural basis of cardiac muscle contraction, including molecular and cellular mechanisms that underlie excitation–contraction coupling and electrophysiological signaling.
3. Interpret and synthesize the electrical activity of the heart as represented on electrocardiograms (ECGs), including advanced recognition of arrhythmias, conduction disturbances, and pathophysiologic patterns.
4. Assess and compare the structure and function of the peripheral vascular system, including mechanisms regulating blood flow, vascular resistance, and

endothelial function.
5. Evaluate and predict cardiovascular adaptations to aerobic and resistance training using contemporary theoretical models and empirical evidence.

KIN6500 - Practicum in Corporate Wellness - 1 - 10 Credits

Course Overview

Course Prefix
KIN

Course Number
6500

Department
Kinesiology and Health Science

Course Title
Practicum in Corporate Wellness

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Experiences designed for the practical implementation of coursework in a corporate wellness, fitness industry, cardiac rehabilitation, or other related setting.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
10

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
10

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
10

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
10

Lecture Hours Operator:
TO

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Integrate relevant kinesiology concepts and scholarly literature to guide decision-making and professional practice within their practicum context.
2. Demonstrate ethical and professional behavior through responsible conduct,

respect for individuals, and adherence to appropriate professional standards in their placement setting.
3. Evaluate their professional learning and growth and articulate goals for continued development as an applied kinesiology practitioner.

KIN6510 - Adapted Physical Education - 3 - Credits

Course Overview

Course Prefix
KIN

Course Number
6510

Department
Kinesiology and Health Science

Course Title
Adapted Physical Education

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course prepares students with strategies to accommodate learners with special needs, focusing on designing and implementing an inclusive PE curriculum that fosters engagement and participation for all students.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Course Learning Objectives

Course Learning Outcomes

1. Understand various disabilities and how they affect participation in physical education.2. Analyze and assess motor skills, document assessment outcomes for qualification, and provide feedback to students, teachers, and parents.
3. Provide adaptations in equipment, environment, and activities for inclusive participation in activities and sports.
4. Demonstrate knowledge of professional practices, policies, laws, and procedures relevant to adapted physical education.
5. Understand the Individualized Education Program (IEP) process and how it drives goals and learning for students with disabilities.
6. Demonstrate understanding of Behavior Intervention Plans (BIP) and how to implement them in physical education settings.

KIN6540 - Neuromuscular Adaptations - 3 - Credits

Course Overview

Course Prefix
KIN

Course Number
6540

Department
Kinesiology and Health Science

Course Title
Neuromuscular Adaptations

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Interaction of neuromuscular systems with mechanical properties of the human body and environment. Emphasizes mechanisms influencing human flexibility, strength, and adaptive responses to overload.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Discuss and explain the current literature regarding flexibility and its influence on injury prevention and sport performance.
2. Discuss neuromuscular adaptations to stretching.
3. Discuss relevant neuroanatomy and biochemistry of neuromuscular activations.
4. Peek into the neuromuscular system using methods of electromyography: Assess select reflexes (i.e., Hoffmann's reflex).
5. Devise a flexibility program based on the literature.
6. Discuss resistance training techniques and the neuromuscular adaptations to resistance training.
7. Compute the relative mix of muscle fiber composition using Thorstensson's test.
8. Describe and explain the different weight training equipment designs and their biomechanical advantages/disadvantages.

KIN6610 - Topics in Biomechanics - 2 - Credits

Course Overview

Course Prefix
KIN

Course Number
6610

Department
Kinesiology and Health Science

Course Title
Topics in Biomechanics

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
The course will review kinematic and kinetic principles and discuss their application to sport and rehabilitation. Current research published in the biomechanics discipline will form the outline for lectures and drive discussions.

Credit Hours

Credit Hours Min:
2

Contact Hours

Contact Hours Min:
2

Billing Hours

Billing Hours Min:
2

Lecture Hours

Lecture Hours Min:
2

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Apply advanced biomechanical research methods, technologies, and analytical procedures to quantify and interpret human movement.
2. Critically analyze and synthesize current literature addressing the complexity of agile movement in sport and clinical biomechanics.
3. Design and conduct biomechanical analyses using motion capture, force measurement, and computational modeling tools.
4. Evaluate and integrate contemporary biomechanical theories to explain adaptations in coordination, stability, and performance across different populations.
5. Locate, appraise, and synthesize peer-reviewed biomechanics research to develop and deliver an evidence-based oral presentation on a selected topic.

KIN6620 - Methods in Biomechanics - 1 - Credits

Course Overview

Course Prefix
KIN

Course Number
6620

Department
Kinesiology and Health Science

Course Title
Methods in Biomechanics

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course is designed to allow students to develop skills in using instrumentation in biomechanics for the purpose of collecting, analyzing, interpreting and presenting biomechanical data. Course content is intended to reinforce understanding of forces and motions involved in human movement.

Credit Hours

Credit Hours Min:
1

Contact Hours

Contact Hours Min:
1

Billing Hours

Billing Hours Min:
1

Lecture Hours

Lecture Hours Min:
1

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Understand general concepts that are related to collection and analysis of some biomechanical data. Some of these concepts include: Analog to digital conversion, sampling rate, signal noise, and filters.
2. Understand the basics of collecting video data, to allow for independent data collection using motion analysis systems.
3. Understand how to use instruments that can measure external force (force platform and load cell), and use external force data to compute basic kinetic measures.
4. Understand how to collect and analyze electromyographic data to better understand muscular activity during human motion.
5. Understand which instruments should be used in research to collect kinematic and kinetic data.

KIN6650 - Advanced Practicum in Sport Management - 1 - 6 Credits

Course Overview

Course Prefix
KIN

Course Number
6650

Department
Kinesiology and Health Science

Course Title
Advanced Practicum in Sport Management

Grade Mode
Temporary Standard Letter

Repeat Status
RP

Course Description
This course provides the opportunity for students to apply the principles and concepts of sport management through a supervised experience in the sport industry.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
6

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
6

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
6

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
6

Lecture Hours Operator:
TO

Registration Restrictions

Admission to the Master of Sports Management program

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Develop and pursue individualized professional goals that demonstrate advanced application of knowledge and skills acquired in the master's program.
2. Integrate academic theory with professional practice through meaningful engagement in a sport or related organizational setting.
3. Demonstrate professional competencies such as communication, leadership, and ethical decision-making in a real-world environment.
4. Reflect critically on personal and professional growth to evaluate readiness for post-graduate career advancement.

KIN6700 - Special Topics - 1 - 6 Credits

Course Overview

Course Prefix
KIN

Course Number
6700

Department
Kinesiology and Health Science

Course Title
Special Topics

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
In-depth review and discussion of special topics in kinesiology.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
6

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
6

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
6

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
6

Lecture Hours Operator:
TO

No Requirements

KIN6710 - Selected Topics in Sport - 3 - Credits

Course Overview

Course Prefix
KIN

Course Number
6710

Department
Kinesiology and Health Science

Course Title
Selected Topics in Sport

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course provides students with an opportunity for in-depth study of relevant sport industry issues, skills, and topics for sport coaches. Topics are selected by faculty.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Course Learning Objectives

Course Learning Outcomes

1. Examine diverse sport industry topics and their impact on coaching and athlete development.
2. Investigate current trends and best practices in sports to adapt and enhance coaching strategies.
3. Develop a broad understanding of various issues affecting the sport industry to inform and improve coaching methodologies.

KIN6800 - Advanced Biomechanics - 3 - Credits

Course Overview

Course Prefix
KIN

Course Number
6800

Department
Kinesiology and Health Science

Course Title
Advanced Biomechanics

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Instrumentation, theory, and methods for biomechanical measurement of kinematic and kinetic characteristics of human motion.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- KIN4200 - Biomechanics (QI)

KIN6810 - Research Methods in Kinesiology - 3 - Credits

Course Overview

Course Prefix
KIN

Course Number
6810

Department
Kinesiology and Health Science

Course Title
Research Methods in Kinesiology

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students explore basic to advanced concepts contained in research and statistical design as applicable to health sciences.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Critically evaluate scientific literature in Kinesiology by identifying research questions, methodologies, and interpreting findings within the context of evidence-based practice.
2. Design a scientifically sound research proposal, including problem formulation, literature review, methodological planning, and ethical considerations for human subjects research.
3. Apply appropriate statistical analyses to examine descriptive data, group differences, and relationships among variables, and interpret results presented in tables and summaries.
4. Differentiate and implement research designs (analytical, descriptive, experimental, and quasi-experimental) and explain measurement concepts such as validity and reliability.

KIN6840 - Fundamentals of Motor Behavior - 2 - Credits

Course Overview

Course Prefix
KIN

Course Number
6840

Department
Kinesiology and Health Science

Course Title
Fundamentals of Motor Behavior

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course offers advanced understanding of principles underlying motor control and learning. Topics such as movement variability and expertise will be explored. Discussion of research articles and class topics will focus on the practical applications of understanding motor control.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Demonstrate foundational knowledge of motor behavior
Students will describe and explain core theories and principles that underlie motor control and motor learning, including sensory, perceptual, cognitive, and physiological mechanisms that support skilled movement.
2. Apply motor learning and control principles to movement performance
Students will use theoretical and empirical concepts to interpret how practice conditions, feedback, and attention influence skill acquisition, performance, and retention in applied settings such as sport, rehabilitation, and human movement.
3. Analyze and discuss empirical research in motor behavior
Students will critically interpret research articles and laboratory data to connect theoretical perspectives to experimental findings and practical implications for teaching and training motor skills.

KIN6850 - Neural Aspects of Rehabilitation - 2 - Credits

Course Overview

Course Prefix
KIN

Course Number
6850

Department
Kinesiology and Health Science

Course Title
Neural Aspects of Rehabilitation

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
A review of the human nervous system's control of movement, including the role of the basal ganglia, motor cortex and spinal chord. The impact of pathology on gait, posture and voluntary hand movements and how various rehabilitation approaches addresses these pathologies.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

No Requirements

Course Learning Objectives

Course Learning Outcomes
1. Learn fundamental principles and generalizations of neuroanatomy, neurophysiology, and neuroscience that govern the control of movement.
2. Learn how to apply these principles to understand problems commonly associated with neurological or peripheral damage, and how to approach clinically-relevant solutions to these problems.
3. Develop skills in critical thinking.
4. Developing skill in expression both orally and in writing to communicate science.

KIN6860 - Motor Development - 2 - Credits

Course Overview

Course Prefix
KIN

Course Number
6860

Department
Kinesiology and Health Science

Course Title
Motor Development

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
A study of the progressive change in movement behavior from infancy through older adulthood. Emphasis upon developing the ability to identify the stages in a variety of motor skills, physical growth patterns and biological maturity and the relationship of each to motor performance.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

No Requirements

Course Learning Objectives

Course Learning Outcomes
1. Demonstrate foundational knowledge of motor development across the lifespan
Students will describe and explain major theories, principles, and stages of motor development, emphasizing how biological, environmental, and psychosocial factors shape movement behavior from infancy through adulthood.
2. Critically evaluate research in motor development
Students will examine and interpret empirical studies on motor development, evaluating research design, methodology, and findings to understand how developmental processes are studied and applied in kinesiology and related fields.
3. Apply developmental frameworks to practice and communication
Students will apply theories and research evidence to real-world issues in movement education, sport, and rehabilitation, and communicate developmental concepts effectively through written and oral formats.

KIN6900 - Independent Study - 1 - 3 Credits

Course Overview

Course Prefix
KIN

Course Number
6900

Department
Kinesiology and Health Science

Course Title
Independent Study

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Students conduct independent projects under the direction of one or more professors. This course provides students with the opportunity for individualized study.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

Special Approval

Instructor permission

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Collaborate with a faculty mentor to define the scope and objectives of an independent inquiry or project.
2. Pursue self-directed learning or project work using relevant methods and resources.
3. Create a final product demonstrating understanding and application of the chosen topic or skill.
4. Reflect on their learning experience and engage in meaningful discussion with their mentor.

KIN6910 - Independent Research - 1 - 3 Credits

Course Overview

Course Prefix
KIN

Course Number
6910

Department
Kinesiology and Health Science

Course Title
Independent Research

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course allows graduate students to pursue personal research interests by formalizing an independent project under the guidance of a graduate professor.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

Special Approval

Instructor permission

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Develop a research question or hypothesis aligned with their academic interests.
2. Design and implement a research plan using appropriate methodologies under faculty supervision.
3. Analyze and interpret research findings using scholarly standards.
4. Produce a well-documented research report or paper communicating their results.

KIN6960 - Master's Project - 3 - Credits

Course Overview

Course Prefix
KIN

Course Number
6960

Department
Kinesiology and Health Science

Course Title
Master's Project

Grade Mode
Temporary Standard Letter

Repeat Status
NR

Course Description
Allows students opportunity to develop creative and applicable educational project.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Design and implement a self-directed project in sport coaching that addresses a practical or theoretical issue, applying advanced knowledge and skills acquired throughout the program.
2. Critically analyze coaching practices or challenges using relevant theories, ethical frameworks, and evidence-based approaches to inform decision-making.
3. Integrate interdisciplinary perspectives—including pedagogical, psychological, sociocultural, and data-informed approaches—into the development, execution, and evaluation of a coaching project.
4. Produce and present a professional-quality deliverable (e.g., report, program design, intervention plan, or presentation) that effectively communicates project objectives, methodology, and outcomes to relevant audiences.
5. Engage in structured reflective practice by evaluating personal learning, professional development, and decision-making processes throughout the project.

KIN6970 - Thesis - 1 - 9 Credits

Course Overview

Course Prefix
KIN

Course Number
6970

Department
Kinesiology and Health Science

Course Title
Thesis

Grade Mode
Temporary Pass/Fail

Repeat Status
RP

Course Description
Students complete individually-directed work in thesis writing with guidance from their committee chair.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
9

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
9

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
9

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
9

Lecture Hours Operator:
TO

Other Enrollment Recommendations

1. Formulate a clear, researchable thesis question or hypothesis.
2. Design and conduct a systematic investigation using appropriate research methods.
3. Analyze and synthesize data or information to support conclusions.
4. Produce a comprehensive, well-organized written thesis that demonstrates scholarly rigor.
5. Defend their thesis effectively in an oral presentation or examination.

No Requirements

KIN6990 - Continuing Graduate Advisement - 1 - 9 Credits

Course Overview

Course Prefix
KIN

Course Number
6990

Department
Kinesiology and Health Science

Course Title
Continuing Graduate Advisement

Grade Mode
Temporary Pass/Fail

Repeat Status
RP

Course Description
Provides graduate students with continued support and advisement. Usually taken following completion of all coursework required for the degree.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
9

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
9

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
9

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
9

Lecture Hours Operator:
TO

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Develop a clear plan for completing remaining degree requirements and professional goals.
2. Demonstrate effective communication skills in seeking and utilizing academic and career advisement.
3. Reflect on their academic progress and identify areas for continued professional growth.
4. Navigate university resources and policies to support successful degree completion and career planning.

KIN7040 - Review of Literature - 1 - Credits

Course Overview

Course Prefix
KIN

Course Number
7040

Department
Kinesiology and Health Science

Course Title
Review of Literature

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Guided experience in conducting a comprehensive and systematic review of literature on a topic related to Pathokinesiology.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Define and justify a focused topic in Pathokinesiology suitable for a comprehensive literature review.
2. Locate, select, and organize scholarly sources using systematic and transparent search strategies.
3. Critically evaluate and synthesize empirical and theoretical literature to identify trends, gaps, and emerging themes.
4. Apply an appropriate methodological approach (e.g., meta-analysis, evidence-based review, or narrative synthesis) that aligns with the purpose of the review.
5. Produce a coherent, publishable-quality written review that integrates findings logically and adheres to scholarly and ethical standards.
6. Draw informed conclusions and implications for research, theory, and practice in Pathokinesiology.

KIN7060 - Research Internship - 1 - Credits

Course Overview

Course Prefix
KIN

Course Number
7060

Department
Kinesiology and Health Science

Course Title
Research Internship

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Guided experience in conducting research on topics in Pathokinesiology.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Design and implement a supervised research project that addresses a question relevant to Pathokinesiology.
2. Apply appropriate research methods and procedures for data collection, recording, and management in alignment with ethical and professional standards.
3. Conduct preliminary data analysis using techniques suitable to the research design and objectives.
4. Demonstrate effective collaboration and communication within a research team, including interaction with faculty mentors and other investigators.
5. Critically reflect on the research process to identify challenges, limitations, and strategies for improvement in future independent work.
6. Summarize and interpret research findings in a written report that clearly articulates the project's purpose, methods, results, and implications for Pathokinesiology research and practice.

KIN7070 - Grant Writing for Pathokinesiology - 1 - Credits

Course Overview

Course Prefix
KIN

Course Number
7070

Department
Kinesiology and Health Science

Course Title
Grant Writing for Pathokinesiology

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Guided experience in preparation of grant proposals.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Analyze funding opportunities and priorities by interpreting Requests for Proposals (RFPs) or Notices of Funding Opportunity (NOFOs) relevant to Pathokinesiology research and practice.
2. Develop a compelling grant concept that aligns research or program objectives with the mission and requirements of a selected funding agency.
3. Compose clear and persuasive sections of a grant proposal, including the statement of need, project goals, methods, evaluation plan, and dissemination strategies.
4. Construct a realistic and justified project budget and supporting materials (e.g., budget narrative, biosketches, logic model, timeline) consistent with funder expectations.
5. Collaborate effectively within a grant writing team, demonstrating professional communication, project organization, and responsiveness to feedback.
6. Critically evaluate and refine a grant proposal for clarity, coherence, and competitiveness based on reviewer criteria and best practices in grant writing.

KIN7080 - Publication - 1 - Credits

Course Overview

Course Prefix
KIN

Course Number
7080

Department
Kinesiology and Health Science

Course Title
Publication

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Individualized experience in writing scholarly manuscripts for submission to peer-reviewed academic journals.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Conceptualize and develop a publishable scholarly manuscript that addresses a significant theoretical or empirical question in Pathokinesiology.
2. Integrate and interpret relevant literature to establish a clear rationale, theoretical framework, and contribution to the field.
3. Apply appropriate research methods and analytical approaches to ensure rigor, validity, and coherence in the presentation of findings.
4. Compose and revise a manuscript that meets disciplinary conventions for structure, style, and clarity in academic writing.
5. Navigate the peer-review and submission process, including journal selection, adherence to author guidelines, and professional communication with editors and reviewers.
6. Demonstrate scholarly independence and ethical integrity in authorship, data use, and representation of contributions.

KIN7090 - Conference Presentation - 1 - Credits

Course Overview

Course Prefix
KIN

Course Number
7090

Department
Kinesiology and Health Science

Course Title
Conference Presentation

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Individualized experience in presenting scholarly work at academic conferences.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Design and prepare a scholarly presentation that effectively communicates research or theoretical work in Pathokinesiology to an academic audience.
2. Synthesize and interpret complex research findings or conceptual frameworks for clear, accurate, and engaging presentation.
3. Select appropriate formats and venues (e.g., poster, podium, or symposium presentation) to maximize scholarly impact and audience engagement.
4. Deliver a professional oral or visual presentation demonstrating clarity, confidence, and adherence to disciplinary and conference standards.
5. Respond constructively to audience questions and feedback to refine ideas and enhance scholarly communication skills.
6. Demonstrate professionalism and ethical conduct in representing one's research and collaborating with co-authors or colleagues during the conference process.

KIN7330 - Supervision Internship - 1 - Credits

Course Overview

Course Prefix
KIN

Course Number
7330

Department
Kinesiology and Health Science

Course Title
Supervision Internship

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Guided experience in supervising undergraduate and/or master's students during practica or research experiences.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Demonstrate effective supervisory skills by guiding undergraduate and/or master's students through practica or research experiences.
2. Apply supervision models and principles to structure and support the professional development of supervisees.
3. Observe, assess, and interpret supervisee performance to identify strengths, areas for improvement, and training needs.
4. Provide constructive feedback and corrective guidance using communication strategies that promote learning, growth, and accountability.
5. Evaluate the outcomes of supervision and mentoring interventions to determine their effectiveness and inform ongoing supervisory practice.
6. Reflect on and articulate one's emerging professional identity, roles, and ethical responsibilities as a supervisor in Pathokinesiology.

KIN7340 - College Teaching Internship - 1 - Credits

Course Overview

Course Prefix
KIN

Course Number
7340

Department
Kinesiology and Health Science

Course Title
College Teaching Internship

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Guided experience and supervision in teaching university-level discipline courses.

Credit Hours

Credit Hours Min:
1

Contact Hours

Contact Hours Min:
1

Billing Hours

Billing Hours Min:
1

Lecture Hours

Lecture Hours Min:
1

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Plan and organize a university-level course by developing a syllabus, learning activities, assessments, and instructional materials aligned with course objectives.
2. Deliver effective instruction that facilitates student learning through clear communication, engagement strategies, and evidence-based teaching practices.
3. Integrate technology and learning management systems (e.g., Canvas) to support student learning, communication, and course management.
4. Assess student performance using valid and fair evaluation methods, providing constructive feedback that promotes growth and mastery.
5. Reflect critically on teaching practice by analyzing student evaluations, peer/faculty feedback, and personal observations to improve course design and delivery.
6. Demonstrate professional conduct and instructional leadership consistent with ethical, inclusive, and scholarly standards in higher education teaching.

KIN7550 - Internship in Sport Coaching - 1 - 6 Credits

Course Overview

Course Prefix
KIN

Course Number
7550

Department
Kinesiology and Health Science

Course Title
Internship in Sport Coaching

Grade Mode
Temporary Standard Letter

Repeat Status
RP

Course Description
Applied work experience with coaches and/or educators in the sport community.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
6

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
6

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
6

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
6

Lecture Hours Operator:
TO

Course Learning Objectives

Course Learning Outcomes

1. Demonstrate professional and ethical behavior in applied sport coaching contexts, adhering to industry standards and ethical guidelines.
2. Communicate and collaborate effectively with coaches, athletes, and other stakeholders to support positive coaching outcomes.
3. Apply critical thinking and problem-solving skills to address practical challenges

encountered in real-world coaching settings.
4. Document and reflect on internship experiences to evaluate personal and professional growth, identify areas for development, and inform future practice.

KIN7820 - Seminar: Special Topics - 1 - 3 Credits

Course Overview

Course Prefix
KIN

Course Number
7820

Department
Kinesiology and Health Science

Course Title
Seminar: Special Topics

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
In-depth study of special topics in Pathokinesiology and rehabilitation. Examination of relevant research and current discipline paradigms.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Critically analyze and synthesize current research, theories, and debates related to specialized or emerging topics in Pathokinesiology and rehabilitation.
2. Evaluate the strengths and limitations of existing paradigms, methodologies, and

evidence bases within the selected area of study.
3. Integrate interdisciplinary perspectives to advance understanding of complex issues affecting movement science and rehabilitation.
4. Lead and contribute to scholarly discussions through well-prepared presentations, critiques, and collaborative inquiry.
5. Formulate and justify new questions or directions for research or practice based on critical engagement with the topic literature.
6. Demonstrate advanced scholarly communication skills through written and oral dissemination tailored to academic audiences.

KIN7910 - Independent Research - 1 - 3 Credits

Course Overview

Course Prefix
KIN

Course Number
7910

Department
Kinesiology and Health Science

Course Title
Independent Research

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
Conducting research.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

Special Approval
Instructor permission

No Requirements

Course Learning Objectives

Course Learning Outcomes
1. Develop a research question or hypothesis aligned with their academic interests.
2. Design and implement a research plan using appropriate methodologies under faculty supervision.

3. Analyze and interpret research findings using scholarly standards.
4. Produce a well-documented research report or paper communicating their results.

KIN7940 - Journal Reading Group - 1 - 2 Credits

Course Overview

Course Prefix
KIN

Course Number
7940

Department
Kinesiology and Health Science

Course Title
Journal Reading Group

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
Seminar discussion of recent empirical and theoretical journal articles in pathokinesiology aspects of biomechanics, motor rehabilitation and sensory motor behavior.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
2

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
2

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
2

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
2

Lecture Hours Operator:
TO

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Critically evaluate empirical and theoretical journal articles in biomechanics, motor rehabilitation, and sensory-motor behavior.
2. Synthesize findings across multiple studies to identify patterns, gaps, and emerging trends in Pathokinesiology research.
3. Apply methodological and theoretical principles to assess the validity, reliability, and applicability of research findings.
4. Engage in scholarly discussion by articulating evidence-based perspectives, posing thoughtful questions, and responding constructively to peers.
5. Communicate insights effectively through written summaries, oral presentations, or annotated critiques suitable for academic audiences.

KIN7970 - Dissertation - 1 - 18 Credits

Course Overview

Course Prefix
KIN

Course Number
7970

Department
Kinesiology and Health Science

Course Title
Dissertation

Grade Mode
Temporary Pass/Fail

Repeat Status
RP

Course Description
This course consists of research for a dissertation, as arranged with an advisor.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
18

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
18

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
18

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
18

Lecture Hours Operator:
TO

Special Approval

Instructor permission

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Develop a clear and feasible research proposal that outlines the scope, objectives, and methodology of their dissertation project.
2. Conduct a comprehensive literature review to critically evaluate existing

research relevant to their dissertation topic.
3. Apply appropriate research methods and data analysis techniques to collect and interpret original data.
4. Communicate research findings effectively through written dissertation documents and oral defense presentations.

KOR1010 - Korean First Year I - 5 - Credits

Course Overview

Course Prefix
KOR

Course Number
1010

Department
World Languages and Cultures

Course Title
Korean First Year I

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Communicative competencies in the four language skills: speaking, listening, reading, and writing, with exposure to cultures and customs.

Credit Hours

Credit Hours
Min:
5

Contact Hours

Contact Hours
Min:
5

Billing Hours

Billing Hours
Min:
5

Lecture Hours

Lecture Hours
Min:
5

No Requirements

KOR1020 - Korean First Year II - 5 - Credits

Course Overview

Course Prefix
KOR

Course Number
1020

Department
World Languages and Cultures

Course Title
Korean First Year II

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Communicative competencies in the four language skills: speaking, listening, reading, and writing, with exposure to cultures and customs.

Credit Hours

Credit Hours
Min:
5

Contact Hours

Contact Hours
Min:
5

Billing Hours

Billing Hours
Min:
5

Lecture Hours

Lecture Hours
Min:
5

Simple Requisites

Prerquisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- KOR1010 - Korean First Year I

(or equivalent)

KOR2010 - Korean Second Year I - 5 - Credits

Course Overview

Course Prefix
KOR

Course Number
2010

Department
World Languages and Cultures

Course Title
Korean Second Year I

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Development of grammatical knowledge and writing skills.

Credit Hours

Credit Hours
Min:
5

Contact Hours

Contact Hours
Min:
5

Billing Hours

Billing Hours
Min:
5

Lecture Hours

Lecture Hours
Min:
5

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- KOR1020 - Korean First Year II

(or equivalent)

KOR2020 - Korean Second Year II - 5 - Credits

Course Overview

Course Prefix
KOR

Course Number
2020

Department
World Languages and Cultures

Course Title
Korean Second Year II

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Development of advanced reading comprehension skill through discussions and summaries of a variety of texts.

Credit Hours

Credit Hours
Min:
5

Contact Hours

Contact Hours
Min:
5

Billing Hours

Billing Hours
Min:
5

Lecture Hours

Lecture Hours
Min:
5

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- KOR2010 - Korean Second Year I

(or equivalent)

KOR3010 - Korean Third Year I - 4 - Credits

Course Overview

Course Prefix
KOR

Course Number
3010

Department
World Languages and Cultures

Course Title
Korean Third Year I

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Development of advanced reading, writing, and conversational skills.

Credit Hours

Credit Hours
Min:
4

Contact Hours

Contact Hours
Min:
4

Billing Hours

Billing Hours
Min:
4

Lecture Hours

Lecture Hours
Min:
4

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Earn a minimum grade (UG) of D in the following:

- KOR2020 - Korean Second Year II

(or equivalent)

KOR3020 - Korean Third Year II - 4 - Credits

Course Overview

Course Prefix
KOR

Course Number
3020

Department
World Languages and Cultures

Course Title
Korean Third Year II

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Continuous development of advanced reading, writing, and conversational skills.

Credit Hours

Credit Hours
Min:
4

Contact Hours

Contact Hours
Min:
4

Billing Hours

Billing Hours
Min:
4

Lecture Hours

Lecture Hours
Min:
4

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- KOR3010 - Korean Third Year I

Additional Comments:
(or equivalent)

KOR3510 - Business Korean - 3 - Credits

Course Overview

Course Prefix
KOR

Course Number
3510

Department
World Languages and Cultures

Course Title
Business Korean

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Designed to help students acquire a broad knowledge of business Korean and relevant Korean culture. Develops language skills and cultural knowledge useful for performing basic functions within the Korean business environment. Focuses on important business terms, phrases, and business etiquette.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- KOR2010 - Korean Second Year I

OR equivalent language proficiency

KOR4920 - Korean Language Tutoring - 1 - Credits

Course Overview

Course Prefix
KOR

Course Number
4920

Department
World Languages and Cultures

Course Title
Korean Language Tutoring

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Allows students to develop tutoring skills by assisting professors in lower-division courses or fulfilling instructional duties for a comparable amount of time in the language laboratory, public schools, or similar activities with departmental approval. May be repeated to a maximum of 3 credits.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Special Approval

Instructor permission

No Requirements

LAEP1010 - Design Careers - 1 - Credits

Course Overview

Course Prefix
LAEP

Course Number
1010

Department
Landscape Architecture & Environmental Planning

Course Title
Design Careers

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This exploratory course introduces students to diverse design disciplines, degree pathways, and career opportunities. Through discussions, activities, and guest speakers, students discover how creativity and problem-solving shape environments and identify programs that align with their interests and professional goals.

Credit Hours

Credit Hours Min:
1

Contact Hours

Contact Hours Min:
1

Billing Hours

Billing Hours Min:
1

Lecture Hours

Lecture Hours Min:
1

Course Learning Objectives

Course Learning Outcomes

Students in this course will:

- Identify and describe major design disciplines and related degree programs.
- Explain how design thinking and creativity are applied across professions.
- Recognize career pathways and required educational preparation in design fields.
- Reflect on personal interests, strengths, and values to inform academic and career choices.
- Demonstrate foundational understanding of how design influences people, communities, and environments.

LAEP1030 - Introduction to Landscape Architecture (BCA) - 3 - Credits

Course Overview

Course Prefix
LAEP

Course Number
1030

Department
Landscape Architecture & Environmental Planning

Course Title
Introduction to Landscape Architecture (BCA)

General Education Attribute
BCA

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Environment as a basis for land use and design decisions. Topics discussed include environmental awareness, the planning and design process, and design related to open space, communities, and the region. Three one-hour lectures per week.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Gaining a basic understanding of the subject (e.g., factual knowledge, methods, principles, generalizations, theories)
2. Gain factual knowledge about the discipline of Landscape Architecture by exploring the origins and history of human interaction with the landscape
3. Gaining a broader understanding and appreciation of intellectual/ cultural activities of Landscape Architecture by:
4. Examining central ideas and activities of the profession of Landscape Architecture
5. Developing a sense of landscape appreciation and ethics

6. Developing creative capacities (inventing, designing, writing, performing in art, music, drama, etc.) by completing a number of hands-on design-related projects that build on one another and incorporate the course materials.
7. Learn fundamental principles of Landscape Architecture by developing an understanding of the planning and design processes utilized by landscape architects through hands-on design projects
8. Developing knowledge and understanding of diverse perspectives, global awareness, and other cultures by exploring how different communities interact with landscapes across geographic, cultural, and time contexts

LAEP1040 - Introduction to Environmental Planning and Sustainable Development (BLS) - 3 - Credits

Course Overview

Course Prefix
LAEP

Course Number
1040

Department
Landscape Architecture & Environmental Planning

Course Title
Introduction to Environmental Planning and Sustainable Development (BLS)

General Education Attribute
BLS

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course is designed to introduce students to the interdisciplinary field of environmental planning as a basis for sustainable development.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Gain a basic understanding of foundational things underpinning environmental planning
2. Learn methods for collecting, analyzing, and interpreting numerical information relevant to
environmental planning
3. Develop skill in expressing oneself orally and in writing about complex environmental
information and associated decision

LAEP1200 - Introduction to Graphics and Illustration - 4 - Credits

Course Overview

Course Prefix
LAEP

Course Number
1200

Department
Landscape Architecture & Environmental Planning

Course Title
Introduction to Graphics and Illustration

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students learn graphic techniques for landscape architectural drawings emphasizing 2D black and white representation. Various media are explored for preparing drawings and sketches for presentation, including CAD software. There are two three-hour studios per week.

Credit Hours

Credit Hours
Min:
4

Contact Hours

Contact Hours
Min:
4

Billing Hours

Billing Hours
Min:
4

Lecture Hours

Lecture Hours
Min:
4

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Build familiarity with the tools associated with landscape architectural graphics.
2. Learn the foundational graphic conventions of landscape architectural graphics.
3. Assemble graphic conventions to produce professional quality plans, sections, elevations & perspectives.
4. Produce portfolio worthy graphic and design work.
5. Cultivate a rapid & reliable personal graphic style.
6. Build an understanding of the role of graphics within the landscape architectural design process.

LAEP1300 - Digital Drafting, Illustration, and Modeling - 3 - Credits

Course Overview

Course Prefix
LAEP

Course Number
1300

Department
Landscape Architecture & Environmental Planning

Course Title
Digital Drafting, Illustration, and Modeling

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students learn the representational digital graphics that are the basis for the development and communication of design ideas. The topics introduced in this course, all in digital methods, include drafting, illustrating, modeling, and rendering.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Course Learning Objectives

Course Learning Outcomes

1. Acquire competency is the independent learning of software applications (IDEA Objective 9).
2. Acquire basic competency in digital drafting using Autodesk AutoCAD software and its application in the field of Landscape Architecture (IDEA Objective 4).
3. Acquire basic competency in digital illustration using Adobe Photoshop and InDesign software applications and their application in the field of Landscape
4. Architecture (IDEA Objective 4).
5. Acquire basic competency in digital modeling using Google Sketchup software and its application in the field of Landscape Architecture (IDEA Objective 4).

6. Acquire basic competency in digital rendering using Lumion software and its application in the field of Landscape Architecture (IDEA Objective 4).
7. Develop a collaborative approach in the learning environment (IDEA Objective 12).

LAEP1350 - Theory of Design - 4 - Credits

Course Overview

Course Prefix
LAEP

Course Number
1350

Department
Landscape Architecture & Environmental Planning

Course Title
Theory of Design

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students study basic elements of design and their relationship to landscape architecture, developing two- and three-dimensional design models, learning form and spatial relationships, and design theory applied to materials of landform, vegetation, water, and architecture. Two three-hour studios per week.

Credit Hours

Credit Hours Min:
4

Contact Hours

Contact Hours Min:
4

Billing Hours

Billing Hours Min:
4

Lecture Hours

Lecture Hours Min:
4

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- LAEP1200 - Introduction to Graphics and Illustration

may be taken concurrently

Course Learning Objectives

Course Learning Outcomes

By the end of the course, students will be able to:

1. Use basic elements of design and explain their relationship to landscape architecture.

2. Develop two- and three-dimensional design models to explore form and spatial relationships.
3. Apply design theory to materials of landform, vegetation, water, and architecture.
4. Describe and use the four actions of the design process—Looking, Thinking, Doing, and Reflecting—in their own work.
5. Build and use a basic design vocabulary drawn from lectures, readings, and visual examples.
6. Translate abstract design concepts into concrete design exercises and projects.
7. Use a design journal/sketchbook to document process, test ideas, and reflect on their own design thinking.

LAEP1360 - Fundamentals of Design - 4 - Credits

Course Overview

Course Prefix
LAEP

Course Number
1360

Department
Landscape Architecture & Environmental Planning

Course Title
Fundamentals of Design

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces students to the basic steps in the design process and the foundational principles and elements commonly used by designers to create the built environment and the objects that surround us.

Credit Hours

Credit Hours Min:
4

Contact Hours

Contact Hours Min:
4

Billing Hours

Billing Hours Min:
4

Lecture Hours

Lecture Hours Min:
4

Course Learning Objectives

Course Learning Outcomes
Gaining a basic understanding of the subject (e.g., factual knowledge, methods, principles, generalizations, theories)

1. Students will identify the role that design plays in the everyday objects and environments that influence our lives.
2. Students will utilize the design process within weekly design activities and demonstrate their process through recording and reflecting on their design processes in weekly reflection activities

Learning to Apply Course Material (to improve thinking, problem solving, and decisions)

1. Students will be able to define and identify the principles and elements of design through studies of historic and contemporary design projects and through experiencing design projects local to the students as demonstrated through diagrammatic sketches, field notes, case studies and critiquing

2. Students will be able to generate multiple conceptual alternatives to a design challenge through engaged participation in weekly design activities and a final design project.

Learning to analyze and critically evaluate ideas, arguments, and points of view

1. Students will be able to use the critique process to judge the merits of their own work and others, and provide, receive, and respond to effective feedback

LAEP2039 - Foundations of Sustainable Systems - 3 - Credits

Course Overview

Course Prefix
LAEP

Course Number
2039

Department
Landscape Architecture & Environmental Planning

Course Title
Foundations of Sustainable Systems

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course offers an introduction to sustainable systems and sustainable systems methodologies. Understanding sustainable development efforts through a systems perspective is critical to address current complex and interrelated development challenges.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Introduce sustainable systems concepts, frameworks, issues, and measures of sustainable development.

LAEP2200 - AutoCAD for Environmental Design - 3 - Credits

Course Overview

Course Prefix
LAEP

Course Number
2200

Department
Landscape Architecture & Environmental Planning

Course Title
AutoCAD for Environmental Design

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This is an introduction to AutoCAD tools and techniques for environmental design. Students develop skills in drafting, modeling, and visual communication to create site plans, layouts, and design documents supporting planning, landscape architecture, and sustainable design practices.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

LAEP2250 - Internship and Cooperative Education - 1 - 5 Credits

Course Overview

Course Prefix
LAEP

Course Number
2250

Department
Landscape Architecture & Environmental Planning

Course Title
Internship and Cooperative Education

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
Course credit for professional experience outside the classroom prior to graduation. A statement of professional goals and a summary report following the experience are required.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
5

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
5

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
5

Lecture Hours Operator:
TO

Special Approval
Instructor permission.

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Demonstrate integration of LAEP classroom learning (e.g., planning methods, design principles, environmental analysis) into professional tasks.
2. Apply theoretical concepts from landscape architecture and environmental planning in real workplace assignments.
3. Gain experience with professional tools, software, and methods common to landscape architecture and planning workplaces.
4. Improve skills such as project coordination, technical drawing, communication with clients/stakeholders, fieldwork techniques, or GIS/data analysis—depending on the host site.
5. Demonstrate professional conduct, including communication, collaboration, time management, and adherence to workplace expectations.

LAEP2300 - History of Landscape Architecture (BHU) - 3 - Credits

Course Overview

Course Prefix
LAEP

Course Number
2300

Department
Landscape Architecture & Environmental Planning

Course Title
History of Landscape Architecture (BHU)

General Education Attribute
BHU

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students examine landscape change in the context of its history from ancient to present times, with a primary emphasis on the visual qualities of designed landscapes. The course consists of three one-hour lectures per week

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Students will study significant landscapes, designers, and movements to understand the evolution of landscape ideas, forms, and functions over time.
2. Emphasis is placed on developing the ability to critically analyze historical precedents and connect them to contemporary practice through lectures, readings, and visual site visits.
3. Students will build a strong foundation for understanding the historical context of the profession and its relevance to current and future design challenges.

LAEP2400 - 3D Representation - 3 - Credits

Course Overview

Course Prefix
LAEP

Course Number
2400

Department
Landscape Architecture & Environmental Planning

Course Title
3D Representation

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students learn how to represent landscapes through the use of digital 3D software. This course covers necessary software, principles of composition, and production techniques to provide students with a foundation upon which they can continue to build in subsequent courses.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- LAEP1300 - Digital Drafting, Illustration, and Modeling

Course Learning Objectives

Course Learning Outcomes

1. Acquire 3D modeling, rendering, and visualization skills using multiple graphic software.
2. Express their design ideas and details through the creation of 3D representations.
3. Develop methods of self-learning that enable them to make independent

contributions to and thrive in a professional setting.
4. Demonstrate thoughtful reflection on the future of design representation, particularly as it relates to emerging technology.

LAEP2450 - Artificial Intelligence Generative Design - 3 - Credits

Course Overview

Course Prefix
LAEP

Course Number
2450

Department
Landscape Architecture & Environmental Planning

Course Title
Artificial Intelligence Generative Design

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course is an introduction to the field of unsupervised machine learning for generative modeling. Students develop a computational toolkit enabling them to leverage state-of-the-art techniques for visual representation, text-to-image synthesis, and more.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes
Course Learning Outcomes:

1. This course will help students develop a digital skill set that will enable them to leverage state of the art techniques for visual representation.

2. The goal of this course is not just to provide a reservoir of information - rather, it is to help students prepare for future careers in a rapidly advancing discipline. While mastering the ability to create 3D digital representations is part of the larger set of skills that students are developing while in school, it is critical to their ability to convey ideas and knowledge.

3. As a result of taking this course students should have a better ability to express design ideas and knowledge through the creation of advanced 3D representations. While the creation of visualization is a highly technical activity, it is also an expression of artistry that should convey more than simply a visual image.

LAEP2500 - Construction Materials and Detailing - 4 - Credits

Course Overview

Course Prefix
LAEP

Course Number
2500

Department
Landscape Architecture & Environmental Planning

Course Title
Construction Materials and Detailing

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides an introduction to construction materials used in landscape design, including paving, walls, street furnishings, landscape lighting, decking, etc.

Credit Hours

Credit Hours Min:
4

Contact Hours

Contact Hours Min:
4

Billing Hours

Billing Hours Min:
4

Lecture Hours

Lecture Hours Min:
4

No Requirements

LAEP2510 - Landscape Materials - 2 - Credits

Course Overview

Course Prefix
LAEP

Course Number
2510

Department
Landscape Architecture & Environmental Planning

Course Title
Landscape Materials

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
The Landscape Materials course provides an introduction to basic types of site construction materials and begins to explore the various considerations of each.

Credit Hours

Credit Hours Min:
2

Contact Hours

Contact Hours Min:
2

Billing Hours

Billing Hours Min:
2

Lecture Hours

Lecture Hours Min:
2

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. A working knowledge of the common materials used in the construction of landscapes.
2. A proficiency in understanding the capabilities and limitations of common materials used in the construction of landscapes.
3. The ability to convey design ideas logically and persuasively through various media and methods.
4. A new awareness and appreciation of the materials in the landscape all around us.

LAEP2600 - Landscape Construction I (QI) - 4 - Credits

Course Overview

Course Prefix
LAEP

Course Number
2600

Department
Landscape Architecture & Environmental Planning

Course Title
Landscape Construction I (QI)

General Education Attribute
QI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Introduction to site engineering, grading, cut and fill calculation, stormwater drainage, and erosion control. Two one-hour lectures and two two-hour studios per week.

Credit Hours

Credit Hours
Min:
4

Contact Hours

Contact Hours
Min:
4

Billing Hours

Billing Hours
Min:
4

Lecture Hours

Lecture Hours
Min:
4

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- LAEP1200 - Introduction to Graphics and Illustration

may be taken concurrently

Course Learning Objectives

Course Learning Outcomes

1. Acquire knowledge and skill in the principles and graphic conventions of grading, and demonstrate knowledge and skill in practical exercises of grading plan preparation;
2. Acquire knowledge and skill in the computation of earthwork volumes and demonstrate their
proficiency by successfully completing practical earthwork computation exercises, while demonstrating proficiency recording calculations on a computer spreadsheet students design for that purpose;
3. Acquire basic knowledge in hydraulics, hydrology, drainage design, and the analysis of surface hydraulics and demonstrate that knowledge by successfully completing studio exercises in drainage design and analysis;
4. Acquire understanding of the principles and applications of the current low-impact development and green infrastructure design strategies in regard to stormwater management practices.
5. Acquire basic knowledge in horizontal and vertical pedestrian and vehicular infrastructure alignment and demonstrate knowledge in practical exercise of circulation alignment plan preparation

LAEP2700 - Analysis Design I - 5 - Credits

Course Overview

Course Prefix
LAEP

Course Number
2700

Department
Landscape Architecture & Environmental Planning

Course Title
Analysis Design I

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers site survey, analysis, and design synthesis, focusing on human behavior and natural resources as design considerations for future land use planning. It introduces foundational site analysis methods and tools, and integrates Geospacial Information Systems (GIS) training for data interpretation.

Credit Hours

Credit Hours
Min:
5

Contact Hours

Contact Hours
Min:
5

Billing Hours

Billing Hours
Min:
5

Lecture Hours

Lecture Hours
Min:
5

Course Learning Objectives

Course Learning Outcomes
1. Understand the use of studio culture as a tool to learn the creative design process.
2. Understand the process of site inventory, site analysis, program development, and synthesis in relation to the design process.
3. Understand the effects of behavioral actions on the design process
4. Understand the effects of landscape processes on the design process
5. Identify the information required to perform a site analysis
6. Collect field data, synthesize, and produce thematic maps.
7. Analyze site data (both environmental and behavioral) to understand site relationships and processes with respect to the design
program and criteria
8. Competently utilize standard site analysis tools and techniques.
9. Effectively communicate and work in teams to produce and present professional-quality results.

LAEP2720 - Analysis and Design 2 - 5 - Credits

Course Overview

Course Prefix
LAEP

Course Number
2720

Department
Landscape Architecture & Environmental Planning

Course Title
Analysis and Design 2

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course serves as a lower-division capstone, synthesizing lower-division landscape architecture coursework and applying that knowledge to site scale design projects. It includes units on design methodology, site planning and circulation, and creative problem solving. It includes three three-hour studios per week.

Credit Hours

Credit Hours
Min:
5

Contact Hours

Contact Hours
Min:
5

Billing Hours

Billing Hours
Min:
5

Lecture Hours

Lecture Hours
Min:
5

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- LAEP1350 - Theory of Design
- LAEP2700 - Analysis Design I

***LAEP1350 THEORY OF DESIGN* may be taken concurrently**

Course Learning Objectives

Course Learning Outcomes

1. Build familiarity with the tools associated with landscape architectural graphics.
2. Learn the foundational graphic conventions of landscape architectural graphics.
3. Assemble graphic conventions to produce professional quality plans, sections, elevations & perspectives.
4. Produce portfolio worthy graphic and design work.
5. Cultivate a rapid & reliable personal graphic style.
6. Build an understanding of the role of graphics within the landscape architectural design process.

LAEP2900 - VR Design and Thematics Studio - 3 - Credits

Course Overview

Course Prefix
LAEP

Course Number
2900

Department
Landscape Architecture & Environmental Planning

Course Title
VR Design and Thematics Studio

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course trains students in the use of virtual reality (VR) in the design process using the subject of thematic design. Students design a series of thematic spaces with a focus on user experience, spatial, and theming factors.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Course Learning Objectives

Course Learning Outcomes

The design studio:

1. Explores the use of virtual reality (VR) as a tool for immersive spatial design through the application of thematic design principles.
2. Students will learn how narrative, theming, and user experience shape designed environments.
3. Students will use VR to develop and refine their work from a first-person point-of-view, including technical aspects and design workflows. Emphasis is placed on the creation of evocative, story-driven landscapes to engage site user's both emotionally and experientially.

LAEP3200 - Graphic Design for Landscape Architects and Environmental Planners - 3 - Credits

Course Overview

Course Prefix
LAEP

Course Number
3200

Department
Landscape Architecture & Environmental Planning

Course Title
Graphic Design for Landscape Architects and Environmental Planners

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students who complete this course possess a stronger understanding of the field of Graphic Design with the ability to integrate those principles into the Landscape Architecture discipline. Students also obtain a foundational understanding of Adobe Creative Cloud software.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Gaining knowledge, terminology, methods, and trends that relate to Graphic Design.
2. Learning fundamental design principles and theories.

LAEP3300 - GIS for Environmental Planning - 4 - Credits

Course Overview

Course Prefix
LAEP

Course Number
3300

Department
Landscape Architecture & Environmental Planning

Course Title
GIS for Environmental Planning

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course emphasizes the major analytical and technical components of resource planning and design using computer techniques. It includes two three-hour studios per week.

Credit Hours

Credit Hours
Min:
4

Contact Hours

Contact Hours
Min:
4

Billing Hours

Billing Hours
Min:
4

Lecture Hours

Lecture Hours
Min:
4

LAEP3400 - Advanced Geospatial Analysis and Visualization for Environmental Planning - 4 - Credits

Course Overview

Course Prefix
LAEP

Course Number
3400

Department
Landscape Architecture & Environmental Planning

Course Title
Advanced Geospatial Analysis and Visualization for Environmental Planning

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces the recent development of geographic information and geospatial technologies, and explores their applications for landscape architecture and environmental planning.

Credit Hours

Credit Hours
Min:
4

Contact Hours

Contact Hours
Min:
4

Billing Hours

Billing Hours
Min:
4

Lecture Hours

Lecture Hours
Min:
4

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- LAEP3300 - GIS for Environmental Planning

LAEP3500 - Planting Design - 4 - Credits

Course Overview

Course Prefix
LAEP

Course Number
3500

Department
Landscape Architecture & Environmental Planning

Course Title
Planting Design

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course emphasizes plant and environment relationships and plant community dynamics as they relate to planting design. Basic planting design principles are introduced and applied to a variety of project types. Land reclamation planting in non-irrigated landscapes is also addressed. Two three-hour studios per week are required.

Credit Hours

Credit Hours
Min:
4

Contact Hours

Contact Hours
Min:
4

Billing Hours

Billing Hours
Min:
4

Lecture Hours

Lecture Hours
Min:
4

Registration Restrictions

Admission to the Bachelor of LAAR-LAAR_MATRBLA-MAJOR - Missing program program

Course Learning Objectives

Course Learning Outcomes

This course introduces students to:

1. Principles and practices of planting design within the context of landscape architecture, emphasizing the integration of aesthetic, ecological, and functional goals.
2. Students will learn to select and arrange plant species based on form, texture, color, seasonal interest, environmental conditions, and site-specific requirements.

LAEP3610 - Landscape Construction II - 5 - Credits

Course Overview

Course Prefix
LAEP

Course Number
3610

Department
Landscape Architecture & Environmental Planning

Course Title
Landscape Construction II

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers the design of landscape structures and surfaces, including wood construction, free-standing and retaining walls, pavement, etc. Students design projects through detail design development and completion of the working drawings and specifications.

Credit Hours

Credit Hours
Min:
5

Contact Hours

Contact Hours
Min:
5

Billing Hours

Billing Hours
Min:
5

Lecture Hours

Lecture Hours
Min:
5

Registration Restrictions
Admission to the Bachelor of LAAR-LAAR_MATRBLA-MAJOR - Missing program program

LAEP4110 - Landscape Construction II - 4 - Credits

Course Overview

Course Prefix
LAEP

Course Number
4110

Department
Landscape Architecture & Environmental Planning

Course Title
Landscape Construction II

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students design a project through detail design development and completion of the working drawings and specifications.

Credit Hours

Credit Hours
Min:
4

Contact Hours

Contact Hours
Min:
4

Billing Hours

Billing Hours
Min:
4

Lecture Hours

Lecture Hours
Min:
4

Course Learning Objectives

Course Learning Outcomes
Build a foundational understanding of how to create drawings within AutoCAD.

1. Translate schematic design plans into construction drawings.
2. Advance detailed design production skills in AutoCAD.
3. Produce a collection of detailed drawings that demonstrate core professional competencies.
4. Prepare a DD-level cost estimate.

LAEP4250 - Internship and Cooperative Education - 1 - 5 Credits

Course Overview

Course Prefix
LAEP

Course Number
4250

Department
Landscape Architecture & Environmental Planning

Course Title
Internship and Cooperative Education

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Students receive course credit for professional experience obtained outside the classroom prior to graduation. An internship agreement and statement of professional goals is required prior to the professional experience. A summary report following the experience is required.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
5

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
5

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
5

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
5

Lecture Hours Operator:
TO

Registration Restrictions

Admission to the Bachelor of LAAR-LAAR_MATRBLA-MAJOR - Missing program program

No Requirements

Course Learning Objectives

Course Learning Outcomes

The international travel course immerses students in the study of landscape architecture, urban design, and a foreign culture through the exploration of a diversity of dynamic urban and rural environments.

1. Students will investigate both historic and contemporary parks, plazas, residences, streets, and public spaces to examine how physical, cultural, and socio-political contexts shape the landscape and the built environment.
2. The course emphasizes first-hand observation of the built environment through site visits, sketching, reflection, and visits to professional design offices.

LAEP4900 - Special Problems - 1 - 5 Credits

Course Overview

Course Prefix
LAEP

Course Number
4900

Department
Landscape Architecture & Environmental Planning

Course Title
Special Problems

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Selected problems to meet individual needs for students' completion of professional education. Hours arranged.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
5

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
5

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
5

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
5

Lecture Hours Operator:
TO

Special Approval

Instructor permission

No Requirements

LAEP4910 - Foundations of Business in Design and Planning (CI) - 3 - Credits

Course Overview

Course Prefix
LAEP

Course Number
4910

Department
Landscape Architecture & Environmental Planning

Course Title
Foundations of Business in Design and Planning (CI)

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students learn from practitioners about business models, career journeys, and competitive strategies. Students demonstrate communication skills in the form of a portfolio, resume, cover letter, team dynamics, interviewing/group dynamics, and personal reflections drawn from the course content. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

LAEP4911 - Entrepreneurship in Design and Planning - 3 - Credits

Course Overview

Course Prefix
LAEP

Course Number
4911

Department
Landscape Architecture & Environmental Planning

Dual-Listed Courses
LAEP6911 - Entrepreneurship in Design and Planning

Course Title
Entrepreneurship in Design and Planning

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This interdisciplinary class provides students in design and planning degrees with entrepreneurship training. Starting with the entrepreneurship mindset, it builds upon the value propositions these different professions offer to clients, covering skills such as budgeting, project management and leadership. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- LAEP4910 - Foundations of Business in Design and Planning (CI) **OR** LAEP6160 - Foundations of Business in Design and Planning

LAEP5060 - E Studio/Entrepreneurship in Planning and Design (CI) - 3 - Credits

Course Overview

Course Prefix
LAEP

Course Number
5060

Department
Landscape Architecture & Environmental Planning

Dual-Listed Courses
LAEP6060 - E Studio / Entrepreneurship in Planning and Design (CI)

Course Title
E Studio/Entrepreneurship in Planning and Design (CI)

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course examines entrepreneurship as an attribute of high-quality planning and design. The course positions students for professional practice through preparing work for and competing in national competitions. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Admission to the Bachelor of LAAR-LAAR_MATRBLA-MAJOR - Missing program program.

LAEP5070 - Zoo Design - 3 - Credits

Course Overview

Course Prefix
LAEP

Course Number
5070

Department
Landscape Architecture & Environmental Planning

Course Title
Zoo Design

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course explores the theory and practice of zoo design as a specialized branch of landscape architecture that intersects ecology, animal welfare, visitor experience, and cultural storytelling. Students investigate zoos as complex design systems balancing conservation, education, and recreation.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Course Learning Objectives

Course Learning Outcomes

By the end of this course, students will be able to:

1. **Integrate interdisciplinary knowledge** to analyze how ecological systems, animal welfare science, and human experience inform the spatial and environmental design of zoos and wildlife exhibits.
2. **Critically evaluate historical and contemporary models** of zoo design in relation to shifting cultural values, conservation ethics, and educational goals.
3. **Apply principles of habitat design** to develop conceptual and schematic designs that support animal enrichment, species-specific needs, and ecosystem representation.
4. **Design visitor experiences** that balance accessibility, interpretation, and emotional engagement while promoting conservation literacy and ethical reflection.
5. **Collaborate effectively with professionals** from fields such as animal care, interpretation, and architecture to synthesize diverse perspectives into cohesive design strategies.
6. **Demonstrate technical competence** in spatial planning, circulation design, and environmental systems integration within the specialized context of zoological landscapes.
7. **Communicate design intent** through visual, written, and oral presentations that reflect both scientific understanding and creative expression.
8. **Reflect critically on the designer's role** in mediating between human and non-human needs, and in shaping public understanding of biodiversity and environmental stewardship.

LAEP5090 - Sustainable Low Water Landscaping - 3 - Credits

Course Overview

Course Prefix
LAEP

Course Number
5090

Department
Landscape Architecture & Environmental Planning

Cross-Listed Courses
PSC5090 - Sustainable Low Water Landscaping

Dual-Listed Courses
LAEP6090 - Sustainable Low Water Landscaping

Course Title
Sustainable Low Water Landscaping

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course focuses on environmental analysis of climate, water, and soils of a prospective landscape site. This informs the design process on selection of adapted plants and plant layout that will minimize irrigation water use and maintenance. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

LAEP5100 - Senior Capstone: Planning & Design Leadership - 5 - Credits

Course Overview

Course Prefix
LAEP

Course Number
5100

Department
Landscape Architecture & Environmental Planning

Course Title
Senior Capstone: Planning & Design Leadership

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course is a semester-long, five credit-hour capstone studio that includes the intensity, depth, and scope of a culminating experience in the LAEP studio sequence. It has a significant Community Engaged Learning component.

Credit Hours

Credit Hours
Min:
5

Contact Hours

Contact Hours
Min:
5

Billing Hours

Billing Hours
Min:
5

Lecture Hours

Lecture Hours
Min:
5

Registration Restrictions

Admission to the Bachelor of LAAR-LAAR_MATRBLA-MAJOR - Missing program program

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- LAEP5410 - Urban Theory, Systems, and Design

LAEP5200 - Bioregional Analysis and Planning - 5 - Credits

Course Overview

Course Prefix
LAEP

Course Number
5200

Department
Landscape Architecture & Environmental Planning

Dual-Listed Courses
LAEP6200 - Bioregional Analysis and Planning

Course Title
Bioregional Analysis and Planning

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers the compilation and analysis of data for assessing biophysical and socio-economic features of landscapes, and for evaluating impacts of land-use policies across landscapes and time. It provides real-world learning experience in working with stakeholders and agency decision-makers. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
5

Contact Hours

Contact Hours
Min:
5

Billing Hours

Billing Hours
Min:
5

Lecture Hours

Lecture Hours
Min:
5

LAEP5210 - Bioregional Management and Policy - 5 - Credits

Course Overview

Course Prefix
LAEP

Course Number
5210

Department
Landscape Architecture & Environmental Planning

Dual-Listed Courses
LAEP6210 - Bioregional Management and Policy

Course Title
Bioregional Management and Policy

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course is an assessment of land-use policies across landscapes and time, with an emphasis on evaluating consequences of community growth via the generation and analysis of future development and management alternatives. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
5

Contact Hours

Contact Hours
Min:
5

Billing Hours

Billing Hours
Min:
5

Lecture Hours

Lecture Hours
Min:
5

LAEP5300 - GIS for Environmental Planning - 4 - Credits

Course Overview

Course Prefix
LAEP

Course Number
5300

Department
Landscape Architecture & Environmental Planning

Course Title
GIS for Environmental Planning

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course emphasizes the major analytical and technical components of resource planning and design using computer techniques. It includes two three-hour studios per week.

Credit Hours

Credit Hours
Min:
4

Contact Hours

Contact Hours
Min:
4

Billing Hours

Billing Hours
Min:
4

Lecture Hours

Lecture Hours
Min:
4

LAEP5310 - Recreation and Open Space Planning and Design - 5 - Credits

Course Overview

Course Prefix
LAEP

Course Number
5310

Department
Landscape Architecture & Environmental Planning

Course Title
Recreation and Open Space Planning and Design

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course focuses on regional and urban open space planning and design, including project scale recreation design. It includes design seminars, field trips, guest lecturers, and three three-hour studios per week.

Credit Hours

Credit Hours
Min:
5

Contact Hours

Contact Hours
Min:
5

Billing Hours

Billing Hours
Min:
5

Lecture Hours

Lecture Hours
Min:
5

Registration Restrictions

Admission to the Landscape Architecture - BLA program.

LAEP5320 - Land Planning for Residential Development - 5 - Credits

Course Overview

Course Prefix
LAEP

Course Number
5320

Department
Landscape Architecture & Environmental Planning

Course Title
Land Planning for Residential Development

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course focuses on residential projects, planned unit developments, transit-oriented development, and community facilities. It provides an introduction to theory and methods of community and neighborhood design and planning. It includes three three-hour studios per week.

Credit Hours

Credit Hours
Min:
5

Contact Hours

Contact Hours
Min:
5

Billing Hours

Billing Hours
Min:
5

Lecture Hours

Lecture Hours
Min:
5

Registration Restrictions

Admission to the Bachelor of LAAR-LAAR_MATRBLA-MAJOR - Missing program program

LAEP5370 - City and Regional Planning (CI) - 3 - Credits

Course Overview

Course Prefix
LAEP

Course Number
5370

Department
Landscape Architecture & Environmental Planning

Course Title
City and Regional Planning (CI)

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Introduction to historic and current theory and methods of city and regional planning. Includes legislative, administrative, and implementation practices of the general comprehensive plan. Three lectures per week.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete at least 1 course in the following course sets:

- Communications Literacy (CL2) Course

LAEP5380 - Planning Methods - 3 - Credits

Course Overview

Course Prefix
LAEP

Course Number
5380

Department
Landscape Architecture & Environmental Planning

Course Title
Planning Methods

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces theoretical and methodological techniques of community and regional planning analysis, with the tools, software, and applications of these techniques. The course covers five significant areas of planning application: population, land, transportation, financial analysis, and infrastructure needs.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

LAEP5400 - Advanced Geospatial Analysis and Visualization for Environmental Planning - 4 - Credits

Course Overview

Course Prefix
LAEP

Course Number
5400

Department
Landscape Architecture & Environmental Planning

Course Title
Advanced Geospatial Analysis and Visualization for Environmental Planning

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces the recent development of geographic information and geospatial technologies, and explores their applications for landscape architecture and environmental planning.

Credit Hours

Credit Hours
Min:
4

Contact Hours

Contact Hours
Min:
4

Billing Hours

Billing Hours
Min:
4

Lecture Hours

Lecture Hours
Min:
4

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- LAEP5300 - GIS for Environmental Planning

LAEP5410 - Urban Theory, Systems, and Design - 5 - Credits

Course Overview

Course Prefix
LAEP

Course Number
5410

Department
Landscape Architecture & Environmental Planning

Course Title
Urban Theory, Systems, and Design

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course focuses on urban environment for design expression and processes associated with the creation of cities. It explores different aspects of urban theories and design approaches (conceptual, perceptual, and analytical) as applied to large urban areas and site-specific spaces.

Credit Hours

Credit Hours
Min:
5

Contact Hours

Contact Hours
Min:
5

Billing Hours

Billing Hours
Min:
5

Lecture Hours

Lecture Hours
Min:
5

Registration Restrictions
Admission to the Bachelor of LAAR-LAAR_MATRBLA-MAJOR - Missing program program

LAEP5550 - Travel Course - 2 - Credits

Course Overview

Course Prefix
LAEP

Course Number
5550

Department
Landscape Architecture & Environmental Planning

Dual-Listed Courses
LAEP6550 - Travel Course

Course Title
Travel Course

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course comprises a major field trip to examine a variety of projects in planning and design. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Registration Restrictions

Admission to the Bachelor of LAAR-LAAR_MATRBLA-MAJOR - Missing program program

LAEP6030 - 2D Color Graphic Representation - 3 - Credits

Course Overview

Course Prefix
LAEP

Course Number
6030

Department
Landscape Architecture & Environmental Planning

Course Title
2D Color Graphic Representation

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course teaches application of basic 2D color graphics to include drafting, rendering, and illustrative techniques and software used in developing landscape architectural drawings and environment analysis. Students learn basic concepts and principles of 2D color graphic composition. The course also introduces basic applications of Adobe Photoshop image processing and Adobe In-Design.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

LAEP6060 - E Studio / Entrepreneurship in Planning and Design (CI) - 3 - Credits

Course Overview

Course Prefix
LAEP

Course Number
6060

Department
Landscape Architecture & Environmental Planning

Dual-Listed Courses
LAEP5060 - E Studio/Entrepreneurship in Planning and Design (CI)

Course Title
E Studio / Entrepreneurship in Planning and Design (CI)

General Education Attribute
CI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course examines entrepreneurship as an attribute of high-quality planning and design. The course positions students for professional practice through preparing work for and competing in national competitions. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

LAEP6090 - Sustainable Low Water Landscaping - 3 - Credits

Course Overview

Course Prefix
LAEP

Course Number
6090

Department
Landscape Architecture & Environmental Planning

Cross-Listed Courses
PSC6090 - Sustainable Low Water Landscaping

Dual-Listed Courses
LAEP5090 - Sustainable Low Water Landscaping

Course Title
Sustainable Low Water Landscaping

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course focuses on environmental analysis of climate, water, and soils of a prospective landscape site. This informs the design process on selection of adapted plants and plant layout that will minimize irrigation water use and maintenance. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

LAEP6100 - Regional Landscape Analysis and Planning - 5 - Credits

Course Overview

Course Prefix
LAEP

Course Number
6100

Department
Landscape Architecture & Environmental Planning

Course Title
Regional Landscape Analysis and Planning

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course focuses on the challenges and opportunities inherent in conducting landscape planning and analysis on a broad scale. Students integrate a variety of landscape planning project scales through literature review, selected case studies, and a major applied studio project.

Credit Hours

Credit Hours Min:
5

Contact Hours

Contact Hours Min:
5

Billing Hours

Billing Hours Min:
5

Lecture Hours

Lecture Hours Min:
5

Course Learning Objectives

Course Learning Outcomes

1. Conduct Hydrology and Topography Analysis
Understand and apply techniques for analyzing landform and water flow patterns to inform site planning and ecological design.
2. Perform Climate and Environmental Assessments
Analyze sun path, wind direction, and air quality data to guide environmentally responsive landscape planning and design decisions.
3. Integrate Scholarly Literature into Planning Practice
Critically interpret relevant academic and professional literature to inform evidence-based landscape planning strategies.
4. Develop Visual Communication Skills
Create effective diagrams and renderings that communicate spatial relationships, design intent, and planning concepts.
5. Translate Design Concepts into Planning Frameworks
Progress from initial design ideas to bubble diagrams and zoning layouts, demonstrating a clear understanding of spatial organization and land use planning.
6. Complete a Comprehensive Planning and Design Cycle
Execute a full planning and design process—from site analysis through conceptual development to final graphic representation—demonstrating integration of analytical, creative, and technical skills.

LAEP6110 - Landscape Ecology for Planning - 3 - Credits

Course Overview

Course Prefix
LAEP

Course Number
6110

Department
Landscape Architecture & Environmental Planning

Course Title
Landscape Ecology for Planning

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course explores the definition and contexts of landscape ecology. It includes the study of conservation biology and its role in preserving intact ecosystems and enhancing or rehabilitating sites previously disturbed by human activities.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Knowledge of the foundational concepts and theories of landscape ecology, including the fundamentals of spatial relationships, key flows through complex systems, and crucial dynamics of the landscape mosaic over time.
2. Analysis of the impacts of development on human and animal wellbeing, species diversity, and resilience using various data gathering and assessment techniques.
3. Synthesis through oral, written, and visual communication skills, of planning, design, and management techniques that will enhance wildlife habitat value while balancing the demands of development.

LAEP6120 - Regional Landscape Policy and Implementation - 2 - Credits

Course Overview

Course Prefix
LAEP

Course Number
6120

Department
Landscape Architecture & Environmental Planning

Course Title
Regional Landscape Policy and Implementation

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Case studies and/or implementation strategies for planning alternatives developed in LAEP 6100.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

No Requirements

LAEP6140 - Digital Drafting, Illustration, and Modeling - 3 - Credits

Course Overview

Course Prefix
LAEP

Course Number
6140

Department
Landscape Architecture & Environmental Planning

Course Title
Digital Drafting, Illustration, and Modeling

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students learn the representational digital graphics that are the basis for the development and communication of design ideas. The topics introduced in this course, all in digital methods, include drafting, illustrating, modeling, and rendering.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Course Learning Objectives

Course Learning Outcomes

1. Acquire competency is the independent learning of software applications.
2. Acquire basic competency in digital drafting using Autodesk AutoCAD software and its application in the field of Landscape Architecture.
3. Acquire basic competency in digital illustration using Adobe Photoshop and InDesign software applications and their application in the field of Landscape Architecture.
4. Acquire basic competency in digital modeling using Google Sketchup software and its application in the field of Landscape Architecture.
5. Acquire basic competency in digital rendering using Lumion software and its application in the field of Landscape Architecture.
6. Develop a collaborative approach in the learning environment.

LAEP6160 - Foundations of Business in Design and Planning - 3 - Credits

Course Overview

Course Prefix
LAEP

Course Number
6160

Department
Landscape Architecture & Environmental Planning

Dual-Listed Courses
LAEP4910 - Foundations of Business in Design and Planning (CI)

Course Title
Foundations of Business in Design and Planning

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students learn from practitioners about business models, career journeys, and competitive strategies. Students demonstrate communication skills in the form of a portfolio, resume, cover letter, team dynamics, interviewing/group dynamics, and personal reflections drawn from the course content. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Understand the foundations of business practices in design & planning professions
2. Gain a working knowledge of basic business terms for in these professions
3. Understand how value is demonstrated and rewarded in professional service firms
4. Develop a personal strategy for value enhancement as a practitioner
5. Prepare a strategy and materials for obtaining a targeted internship or job
6. Enhance your entrepreneurial mindset

LAEP6200 - Bioregional Analysis and Planning - 5 - Credits

Course Overview

Course Prefix
LAEP

Course Number
6200

Department
Landscape Architecture & Environmental Planning

Dual-Listed Courses
LAEP5200 - Bioregional Analysis and Planning

Course Title
Bioregional Analysis and Planning

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers the compilation and analysis of data for assessing biophysical and socio-economic features of landscapes, and for evaluating impacts of land-use policies across landscapes and time. It provides real-world learning experience in working with stakeholders and agency decision-makers. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours Min:
5

Contact Hours

Contact Hours Min:
5

Billing Hours

Billing Hours Min:
5

Lecture Hours

Lecture Hours Min:
5

Course Learning Objectives

Course Learning Outcomes
By the end of this course, you will:
1. Have a foundational knowledge about Bioregional planning and be able to:
Communicate the history of the field, examples and major players;
Learn how to research, analyze and summarize biophysical and cultural components;
Implement a planning process.
2. Synthesize how one or more specific biophysical and/or cultural components plays a role in the planning process and potential
outcomes, including:
Communicating the potential pitfalls and limitations of how these components are characterized;
Understand the dynamics of these systems pre-human settlement, during the Anthropocene and looking far into the future;
Characterizing these components in the context of different vocabularies used and understood by various (potential)
stakeholders in the planning process.
3. Develop geospatial models to support scenario development and impact assessments.

LAEP6210 - Bioregional Management and Policy - 5 - Credits

Course Overview

Course Prefix
LAEP

Course Number
6210

Department
Landscape Architecture & Environmental Planning

Dual-Listed Courses
LAEP5210 - Bioregional Management and Policy

Course Title
Bioregional Management and Policy

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course is an assessment of land-use policies across landscapes and time, with an emphasis on evaluating consequences of community growth via the generation and analysis of future development and management alternatives. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
5

Contact Hours

Contact Hours
Min:
5

Billing Hours

Billing Hours
Min:
5

Lecture Hours

Lecture Hours
Min:
5

Course Learning Objectives

Course Learning Outcomes
Students will:
1. Develop a rigorous analytical understanding of regional systems—ecological, infrastructural, economic, and social—and how they intersect in the RiverLINE Corridor.
2. Engage with theories of regionalism and mapping to frame design as a tool for both critique and invention.
3. Experiment with futuring and design fiction as methodologies for imagining alternate regional trajectories.
4. Explore how designers might influence discourse and identity formation beyond traditional client-based frameworks.

LAEP6220 - 2D Graphic Representation - 4 - Credits

Course Overview

Course Prefix
LAEP

Course Number
6220

Department
Landscape Architecture & Environmental Planning

Course Title
2D Graphic Representation

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Graphic techniques for landscape architectural drawings emphasizing 2D black and white representation. Various media explored for preparing drawings and sketches for presentation, including CAD software. Two three-hour studios per week.

Credit Hours

Credit Hours
Min:
4

Contact Hours

Contact Hours
Min:
4

Billing Hours

Billing Hours
Min:
4

Lecture Hours

Lecture Hours
Min:
4

No Requirements

LAEP6230 - History of Landscape Architecture - 3 - Credits

Course Overview

Course Prefix
LAEP

Course Number
6230

Department
Landscape Architecture & Environmental Planning

Course Title
History of Landscape Architecture

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Examination of historic landscape change from ancient to present times, with a primary emphasis on the visual qualities of designed landscapes. Three one-hour lectures and a one-hour seminar per week.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

LAEP6240 - 3D Representation - 3 - Credits

Course Overview

Course Prefix
LAEP

Course Number
6240

Department
Landscape Architecture & Environmental Planning

Course Title
3D Representation

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students learn how to represent landscapes through the use of digital 3D software. The course covers necessary software, principles of composition, and production techniques to provide students with a foundation upon which they can continue to build in subsequent courses.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- LAEP6120 - Regional Landscape Policy and Implementation

LAEP6250 - Internship and Cooperative Education Program - 1 - 5 Credits

Course Overview

Course Prefix
LAEP

Course Number
6250

Department
Landscape Architecture & Environmental Planning

Course Title
Internship and Cooperative Education Program

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
Course credit given for professional experience outside the classroom prior to graduation. An internship agreement and statement of professional goals is required prior to the professional experience. A summary report following the experience is required.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
5

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
5

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
5

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
5

Lecture Hours Operator:
TO

Special Approval
Instructor permission.

No Requirements

LAEP6260 - Landscape Construction I - 4 - Credits

Course Overview

Course Prefix
LAEP

Course Number
6260

Department
Landscape Architecture & Environmental Planning

Course Title
Landscape Construction I

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides an introduction to site engineering, grading, cut and fill calculation, storm water drainage, and erosion control. It includes two one-hour lectures and two two-hour studios per week.

Credit Hours

Credit Hours Min:
4

Contact Hours

Contact Hours Min:
4

Billing Hours

Billing Hours Min:
4

Lecture Hours

Lecture Hours Min:
4

LAEP6270 - Analysis Design II - 5 - Credits

Course Overview

Course Prefix
LAEP

Course Number
6270

Department
Landscape Architecture & Environmental Planning

Course Title
Analysis Design II

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course serves as a capstone, synthesizing foundational landscape architecture coursework and applying that knowledge to site scale design projects. It includes units on design methodology, site planning and circulation, and creative problem solving. It includes three three-hour studios per week.

Credit Hours

Credit Hours Min:
5

Contact Hours

Contact Hours Min:
5

Billing Hours

Billing Hours Min:
5

Lecture Hours

Lecture Hours Min:
5

No Requirements

Course Learning Objectives

Course Learning Outcomes

Students should learn the fundamental content and methods of the following subject areas:
1. Understand the use of studio culture as a tool to learn the creative design process.
2. Understand the process of site inventory, site analysis, program development, and synthesis in relation to the design process.
3. Understand the effects of behavioral actions on the design process
4. Understand the effects of landscape processes on the design process
5. Identify the information required to perform a site analysis
6. Collect field data, synthesize, and produce thematic maps.
7. Analyze site data (both environmental and behavioral) to understand site relationships and processes with respect to the design program and criteria
8. Competently utilize standard site analysis tools and techniques.
9. Effectively communicate and work in teams to produce and present professional-quality results.

LAEP6300 - GIS for Environmental Planning - 4 - Credits

Course Overview

Course Prefix
LAEP

Course Number
6300

Department
Landscape Architecture & Environmental Planning

Course Title
GIS for Environmental Planning

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces basic concepts and tools of geographic information systems (GIS) and its applications in landscape architecture.

Credit Hours

Credit Hours Min:
4

Contact Hours

Contact Hours Min:
4

Billing Hours

Billing Hours Min:
4

Lecture Hours

Lecture Hours Min:
4

No Requirements

LAEP6310 - Recreation and Open Space Planning and Design - 5 - Credits

Course Overview

Course Prefix
LAEP

Course Number
6310

Department
Landscape Architecture & Environmental Planning

Course Title
Recreation and Open Space Planning and Design

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course focuses on planning and design of open space and recreational areas, as well as facilities of various types and scales. Students develop skills in analysis, research, planning strategy, and design technique to create functional spaces based on client needs and site limitations.

Credit Hours

Credit Hours
Min:
5

Contact Hours

Contact Hours
Min:
5

Billing Hours

Billing Hours
Min:
5

Lecture Hours

Lecture Hours
Min:
5

LAEP6320 - Land Planning for Residential Development - 5 - Credits

Course Overview

Course Prefix
LAEP

Course Number
6320

Department
Landscape Architecture & Environmental Planning

Course Title
Land Planning for Residential Development

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This studio course introduces methods for the planning and design of residential projects of various types and scales. Students develop skills in critical analysis, design technique, and planning strategy to create functional spaces based on client needs and site requirements.

Credit Hours

Credit Hours
Min:
5

Contact Hours

Contact Hours
Min:
5

Billing Hours

Billing Hours
Min:
5

Lecture Hours

Lecture Hours
Min:
5

Course Learning Objectives

Course Learning Outcomes

1. Develop planning and design skills to create functional relationships and appealing spaces that meet needs, comply with site conditions, and follow legal ordinances and restrictions in residential development.

LAEP6350 - Planting Design - 4 - Credits

Course Overview

Course Prefix
LAEP

Course Number
6350

Department
Landscape Architecture & Environmental Planning

Course Title
Planting Design

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course emphasizes plant/environmental relationships, as well as plant community dynamics, aesthetics, function, and sustainability. It includes lectures, readings, projects, and papers.

Credit Hours

Credit Hours Min:
4

Contact Hours

Contact Hours Min:
4

Billing Hours

Billing Hours Min:
4

Lecture Hours

Lecture Hours Min:
4

No Requirements

LAEP6370 - City and Regional Planning - 3 - Credits

Course Overview

Course Prefix
LAEP

Course Number
6370

Department
Landscape Architecture & Environmental Planning

Course Title
City and Regional Planning

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Introduction to historic and current theory and methods of city and regional planning. Includes legislative, administrative, and implementation practices within the planning process. Emphasizes public transportation and mobility issues.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Understand Historical and Contemporary Planning Theories
Analyze the evolution of city and regional planning theories, from early utopian visions to contemporary models addressing equity, resilience, and sustainability.
2. Apply Urban Planning and Design Techniques
Gain practical knowledge of planning tools and design strategies used in land use, transportation, housing, and environmental systems.
3. Navigate the AICP Certification Process
Become familiar with the structure, content areas, and preparation strategies for the American Institute of Certified Planners (AICP) certification exam.
4. Evaluate Key Forces Shaping Urban Futures
Demonstrate foundational understanding of the socio-economic, political, environmental, and technological dynamics that influence sustainable urban development and policy-making.

LAEP6400 - Advanced Geospatial Analysis and Visualization for Environmental Planning - 3 - 4 Credits

Course Overview

Course Prefix
LAEP

Course Number
6400

Department
Landscape Architecture & Environmental Planning

Course Title
Advanced Geospatial Analysis and Visualization for Environmental Planning

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces the recent development of geographic information and geospatial technologies, and explores their applications for landscape architecture and environmental planning.

Credit Hours

Credit Hours Min:
3

Credit Hours Max:
4

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
3

Contact Hours Max:
4

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
3

Billing Hours Max:
4

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
3

Lecture Hours Max:
4

Lecture Hours Operator:
TO

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- LAEP5300 - GIS for Environmental Planning
  OR LAEP6300 - GIS for Environmental Planning

LAEP6410 - Urban Theory, Systems, and Design - 5 - Credits

Course Overview

Course Prefix
LAEP

Course Number
6410

Department
Landscape Architecture & Environmental Planning

Course Title
Urban Theory, Systems, and Design

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course focuses on urban environment for design expression and processes associated with the creation of cities. It explores different aspects of urban design theories and design approaches (conceptual, perceptual, and analytical) as applied to large urban areas and site-specific spaces.

Credit Hours

Credit Hours Min:
5

Contact Hours

Contact Hours Min:
5

Billing Hours

Billing Hours Min:
5

Lecture Hours

Lecture Hours Min:
5

LAEP6450 - Artificial Intelligence Generative Design - 3 - Credits

Course Overview

Course Prefix
LAEP

Course Number
6450

Department
Landscape Architecture & Environmental Planning

Course Title
Artificial Intelligence Generative Design

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Introduces the rapidly advancing area of unsupervised machine learning with a focus on generative models. Students come away with a computational toolkit enabling them to leverage state of the art techniques for visual representation, text to image synthesis, and more.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Course Learning Objectives

Course Learning Outcomes
The objective is to become competent in the application of AI tools in planning and design workflows.

LAEP6550 - Travel Course - 2 - Credits

Course Overview

Course Prefix
LAEP

Course Number
6550

Department
Landscape Architecture & Environmental Planning

Course Title
Travel Course

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course comprises a major field trip to examine a variety of projects in planning and design. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours Min:
2

Contact Hours

Contact Hours Min:
2

Billing Hours

Billing Hours Min:
2

Lecture Hours

Lecture Hours Min:
2

No Requirements

LAEP6600 - Landscape Construction I - 4 - Credits

Course Overview

Course Prefix
LAEP

Course Number
6600

Department
Landscape Architecture & Environmental Planning

Course Title
Landscape Construction I

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Introduction to site engineering, grading, cut and fill calculation, stormwater drainage, and erosion control. Two one-hour lectures and two two-hour studios per week.

Credit Hours

Credit Hours
Min:
4

Contact Hours

Contact Hours
Min:
4

Billing Hours

Billing Hours
Min:
4

Lecture Hours

Lecture Hours
Min:
4

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- LAEP1200 - Introduction to Graphics and Illustration

may be taken concurrently

Course Learning Objectives

Course Learning Outcomes
1. Acquire knowledge and skill in the principles and graphic conventions of grading, and demonstrate knowledge and skill in practical exercises of grading plan preparation.
2. Acquire knowledge and skill in the computation of earthwork volumes and demonstrate their proficiency by successfully completing practical earthwork computation exercises, while demonstrating proficiency recording calculations on a computer spreadsheet students design for that purpose.
3. Acquire basic knowledge in hydraulics, hydrology, drainage design, and the analysis of surface hydraulics and demonstrate that knowledge by successfully completing studio exercises in drainage design and analysis.
4. Acquire understanding of the principles and applications of the current low-impact development and green infrastructure design strategies in regard to stormwater management practices.
5. Acquire basic knowledge in horizontal and vertical pedestrian and vehicular infrastructure alignment and demonstrate knowledge in practical exercise of circulation alignment plan preparation.

LAEP6700 - Analysis Design I - 5 - Credits

Course Overview

Course Prefix
LAEP

Course Number
6700

Department
Landscape Architecture & Environmental Planning

Course Title
Analysis Design I

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers site survey, analysis, and design synthesis, focusing on human behavior and natural resources as design considerations for future land use planning. It introduces foundational site analysis methods and tools, and integrates Geospacial Information Systems (GIS) training for data interpretation.

Credit Hours

Credit Hours
Min:
5

Contact Hours

Contact Hours
Min:
5

Billing Hours

Billing Hours
Min:
5

Lecture Hours

Lecture Hours
Min:
5

Course Learning Objectives

Course Learning Outcomes

1. Understand the use of studio culture as a tool to learn the creative design process.
2. Understand the process of site inventory, site analysis, program development, and synthesis in relation to the design process.
3. Understand the effects of behavioral actions on the design process.
4. Understand the effects of landscape processes on the design process.
5. Identify the information required to perform a site analysis.
6. Collect field data, synthesize, and produce thematic maps.
7. Analyze site data (both environmental and behavioral) to understand site relationships and processes with respect to the design program and criteria.
8. Competently utilize standard site analysis tools and techniques.
9. Effectivvely communicate and work in teams to produce and present professional-quality results.
10. Graduate students are required to go deeper into the studio exercises, to help coordinate design reviews, and to create a graduatestudio culture in the spirit of 'further/deeper investigation".

LAEP6730 - Theory of Landscape Architecture - 3 - Credits

Course Overview

Course Prefix
LAEP

Course Number
6730

Department
Landscape Architecture & Environmental Planning

Course Title
Theory of Landscape Architecture

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Explores theoretical underpinnings of landscape theory, from the rational model to contemporary alternatives. Leads to discussions of issues of sprawl, sustainability, and transportation, including their effects on the built environment, agricultural lands, and open-space systems.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Course Learning Objectives

Course Learning Outcomes

1. Gain a working knowledge of the theoretical issues, terminology, processes, and issues inherent in the design and management of landscapes across temporal and cultural contexts.
2. Demonstrate understanding of complex human/environment issues across contexts and/or scales.
3. Identify and understand how different value systems, experiences, and perspectives impact planning, design and management decisions on the landscape.
4. Critically analyze different arguments to understand their strengths, weaknesses, and inherent tradeoffs.
5. Use of appropriate written, oral, and graphic communication to communicate ideas and craft arguments.

LAEP6740 - Planning Theory and Implementation Issues - 3 - Credits

Course Overview

Course Prefix
LAEP

Course Number
6740

Department
Landscape Architecture & Environmental Planning

Course Title
Planning Theory and Implementation Issues

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Explores theoretical underpinnings of planning and landscape theory, from the rational model to contemporary alternatives. Leads to discussions of issues of sprawl, sustainability, and transportation, including their effects on the built environment, agricultural lands, and open-space systems.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

LAEP6750 - Implementation and Regulatory Techniques in Planning - 3 - Credits

Course Overview

Course Prefix
LAEP

Course Number
6750

Department
Landscape Architecture & Environmental Planning

Course Title
Implementation and Regulatory Techniques in Planning

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Review and analysis of the legal basis and techniques for land use and resource planning, including historic and visual resources at the federal, state, and local levels. Relies on readings in case law and specific case studies, as well as research focused on the evaluation of planning processes and strategies.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Provide students with an overview of the planning profession; government requirements;
and land use laws, regulations, and practices.
2. Develop a vocabulary for dealing with other planners/designers, developers, and government officials and their staff. This vocabulary will provide a basis for communication, understanding approval processes, and a basic understanding of local
codes and regulations.
3. Understand how regulations can constrain designers, and how to seek relief from
constraints that are improper or poorly conceived.
4. Apply the knowledge gained about planning and regulatory processes to the design

process to show how real-world scenarios develop.
5. Provide a basic understanding of land use regulations, including how to find applicable
regulations and utilize them as part of the design or planning process.
6. Understand basic community planning principles and the various plan types that jurisdictions utilize to guide their future.

LAEP6860 - Faculty/Interdisciplinary Seminar I - 1 - Credits

Course Overview

Course Prefix
LAEP

Course Number
6860

Department
Landscape Architecture & Environmental Planning

Course Title
Faculty/Interdisciplinary Seminar I

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Landscape architecture and environmental planning program options and research potential presented by departmental faculty. Also introduces students to other interdisciplinary programs and faculty within the University.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Identify your top prospect for Major Professor. (Organize your thesis committee members)
2. Make tangible progress toward identifying potential thesis topics.
3. Learn your classmates' interests to forge the group's academic culture.

LAEP6862 - Faculty/Interdisciplinary Seminar II - 1 - Credits

Course Overview

Course Prefix
LAEP

Course Number
6862

Department
Landscape Architecture & Environmental Planning

Course Title
Faculty/Interdisciplinary Seminar II

Grade Mode
Pass/Fail

Repeat Status
NR

Course Description
Landscape architecture and environmental planning program options and research potential presented by departmental faculty. Also introduces students to other interdisciplinary programs and faculty within the University. Second seminar in a two-seminar series.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

No Requirements

LAEP6880 - Landscape Architecture Research Methods - 2 - Credits

Course Overview

Course Prefix
LAEP

Course Number
6880

Department
Landscape Architecture & Environmental Planning

Course Title
Landscape Architecture Research Methods

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course is designed to introduce the student to conducting research in landscape architecture and planning. Instruction will include the procedures and concepts for the research process, from identifying the problem to writing the report.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Students will be able to describe the process, elements, and different methods of a research study
2. Be able to analyze and assess other research proposals and articles in terms of rigor, argument, and significance
3. Construct their thesis proposal with essential elements of quality research design and appropriate method.

LAEP6890 - Seminar on Thesis Proposals and Procedures - 1 - Credits

Course Overview

Course Prefix
LAEP

Course Number
6890

Department
Landscape Architecture & Environmental Planning

Course Title
Seminar on Thesis Proposals and Procedures

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Explores preparation of thesis proposals and abstracts. Discussion of graduate degree completion requirements and procedures.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Assist students in identifying a research/design interest and developing it into a research/ design question that can be investigated in their thesis.

LAEP6900 - Special Problems - 1 - 5 Credits

Course Overview

Course Prefix
LAEP

Course Number
6900

Department
Landscape Architecture & Environmental Planning

Course Title
Special Problems

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Selected problems to meet individual student interests and areas of concentration. Registration by permission of departmental faculty.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
5

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
5

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
5

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
5

Lecture Hours Operator:
TO

Special Approval
Instructor permission

No Requirements

LAEP6910 - Readings in Landscape Architecture - 1 - Credits

Course Overview

Course Prefix
LAEP

Course Number
6910

Department
Landscape Architecture & Environmental Planning

Course Title
Readings in Landscape Architecture

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces students to theories, publications, and lines of inquiry in Landscape Architecture. This is done by establishing a forum to discuss, debate, and critically review some major theoretical movements and seminal writings.

Credit Hours

Credit Hours Min:
1

Contact Hours

Contact Hours Min:
1

Billing Hours

Billing Hours Min:
1

Lecture Hours

Lecture Hours Min:
1

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Discuss significant publications and ideas that have shaped the knowledge and practice of the profession of landscape architecture.

LAEP6911 - Entrepreneurship in Design and Planning - 3 - Credits

Course Overview

Course Prefix
LAEP

Course Number
6911

Department
Landscape Architecture & Environmental Planning

Dual-Listed Courses
LAEP4911 - Entrepreneurship in Design and Planning

Course Title
Entrepreneurship in Design and Planning

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This interdisciplinary class provides students in design and planning degrees with entrepreneurship training. Starting with the entrepreneurship mindset, it builds upon the value propositions these different professions offer to clients, covering skills such as budgeting, project management and leadership.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ANY of the following Courses:

- LAEP4910 - Foundations of Business in Design and Planning (CI)
  OR LAEP6160 - Foundations of Business in Design and Planning

LAEP6930 - Readings in Environmental Planning - 1 - Credits

Course Overview

Course Prefix
LAEP

Course Number
6930

Department
Landscape Architecture & Environmental Planning

Course Title
Readings in Environmental Planning

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces students to theories, publications, and lines of inquiry in Environmental Planning. This is done by establishing a forum to discuss, debate, and critically review some major theoretical movements and seminal writings.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

No Requirements

Course Learning Objectives

Course Learning Outcomes
1. Explore Theoretical Frameworks
Examine key theories that inform the relationship between landscape planning, urban form, and environmental outcomes, drawing from disciplines such as urban planning, ecology, sociology, and geography.
2. Analyze Mediating and Moderating Factors
Assess how contextual variables—such as cultural norms, demographic characteristics, and spatial configurations—affect the outcomes of planning and design decisions.
3. Critically Engage with Scholarly Literature
Develop skills in reading, interpreting, and evaluating academic articles, with attention to research questions, methodologies, findings, and implications.
4. Compare Research Design Types
Understand and critique different research methodologies used in landscape and environmental planning, including qualitative, quantitative, and mixed-method

approaches.
5. Practice Scientific Writing
Build proficiency in academic writing, including structuring arguments, citing sources, and communicating research findings effectively for scholarly audiences.

LAEP6960 - Master's Project - 1 - 6 Credits

Course Overview

Course Prefix
LAEP

Course Number
6960

Department
Landscape Architecture & Environmental Planning

Course Title
Master's Project

Grade Mode
Temporary Standard Letter

Repeat Status
RP

Course Description
Requires research, analysis, and production of a given subject area, including its final planning, design, and documentation.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
6

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
6

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
6

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
6

Lecture Hours Operator:
TO

No Requirements

LAEP6970 - Thesis Research - 1 - 6 Credits

Course Overview

Course Prefix
LAEP

Course Number
6970

Department
Landscape Architecture & Environmental Planning

Course Title
Thesis Research

Grade Mode
Temporary Pass/Fail

Repeat Status
RP

Course Description
This interdisciplinary class provides students in design and planning degrees with entrepreneurship training. Starting with the entrepreneurship mindset, it builds upon the value propositions these different professions offer to clients, covering skills such as budgeting, project management and leadership.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
6

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
6

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
6

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
6

Lecture Hours Operator:
TO

No Requirements

LAEP6990 - Continuing Graduate Advisement - 1 - 3 Credits

Course Overview

Course Prefix
LAEP

Course Number
6990

Department
Landscape Architecture & Environmental Planning

Course Title
Continuing Graduate Advisement

Grade Mode
Temporary Pass/Fail

Repeat Status
RP

Course Description
Continuing Graduate Advisement

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

No Requirements

LAEP7800 - Introduction to the Professoriate - 2 - Credits

Course Overview

Course Prefix
LAEP

Course Number
7800

Department
Landscape Architecture & Environmental Planning

Course Title
Introduction to the Professoriate

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
The purpose of this seminar is to build a foundation for doctoral students' productivity during their studies at USU, to welcome them into the community of doctoral scholars, and to help them maximize their marketability for academic positions at graduation.

Credit Hours

Credit Hours Min:
2

Contact Hours

Contact Hours Min:
2

Billing Hours

Billing Hours Min:
2

Lecture Hours

Lecture Hours Min:
2

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Become acquainted with core responsibilities of faculty members, including research, scholarship and teaching.
2. Understand activities, products and standards associated with tenure-track positions, including promotion processes and career stages.
3. Examine the culture, structure and expectations for faculty associated with various types of positions.
4. Dissect faculty hiring processes, including position announcements, applications, candidate selection, interviews, and negotiation of salary and start-up funds.
5. Initiate a career planning process to define the professional areas of expertise they intend to develop, using that definition to identify activities at USU to support their career goals.
6. Create job application materials to become familiar with communications expectations common to faculty position searches.

7. Learn about peer disciplines' academic tracks and faculty models.
8. Gain a greater familiarity with one's own doctoral program, and how to capitalize on graduate opportunities to improve success in faculty hiring processes.
9. Understand how to leverage professional networking
10. Learn about the mid- and upper-level administrative leadership at universities, and their relation to faculty.

LAEP7810 - Research Internship - 1 - Credits

Course Overview

Course Prefix
LAEP

Course Number
7810

Department
Landscape Architecture & Environmental Planning

Course Title
Research Internship

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers the mechanics of data collection, recording and analysis.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

No Requirements

LAEP7820 - College Teaching - Seminar - 1 - Credits

Course Overview

Course Prefix
LAEP

Course Number
7820

Department
Landscape Architecture & Environmental Planning

Course Title
College Teaching - Seminar

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students learn the difference between seminar and studio courses. They also learn to prepare and present materials to various levels of students.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

No Requirements

LAEP7830 - College Teaching - Studio - 2 - Credits

Course Overview

Course Prefix
LAEP

Course Number
7830

Department
Landscape Architecture & Environmental Planning

Course Title
College Teaching - Studio

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students participate in a mentored studio-teaching position. Students learn the difference between lecture and studio-based courses.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

No Requirements

LAEP7910 - Conference Presentation - 1 - Credits

Course Overview

Course Prefix
LAEP

Course Number
7910

Department
Landscape Architecture & Environmental Planning

Course Title
Conference Presentation

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students taking this course are expected to present at a national or state-level conference within their discipline. By presenting, students learn how to format their data and how to synthesize it for the general public.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

No Requirements

LAEP7920 - Writing for Publication - 2 - Credits

Course Overview

Course Prefix
LAEP

Course Number
7920

Department
Landscape Architecture & Environmental Planning

Course Title
Writing for Publication

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course is intended to ensure that students have the critical scientific writing skills to be successful academicians and establish a record of publication that will enhance their marketability for academic positions upon graduation.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

No Requirements

LAEP7930 - Grant Writing - 2 - Credits

Course Overview

Course Prefix
LAEP

Course Number
7930

Department
Landscape Architecture & Environmental Planning

Course Title
Grant Writing

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
The purpose of this course is to ensure that students acquire proficiency and experience in the domain of grant writing, further enhancing the job marketability of students at graduation.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

No Requirements

LAEP7940 - Review of Literature - 1 - Credits

Course Overview

Course Prefix
LAEP

Course Number
7940

Department
Landscape Architecture & Environmental Planning

Course Title
Review of Literature

Grade Mode
Temporary Standard Letter

Repeat Status
NR

Course Description
This course is intended to provide students with the basis of a scholarly publication and to increase the depth and breadth of students' understanding within the field of landscape architecture and environmental planning.

Credit Hours

Credit Hours Min:
1

Contact Hours

Contact Hours Min:
1

Billing Hours

Billing Hours Min:
1

Lecture Hours

Lecture Hours Min:
1

No Requirements

LAEP7970 - Dissertation - 1 - 6 Credits

Course Overview

Course Prefix
LAEP

Course Number
7970

Department
Landscape Architecture & Environmental Planning

Course Title
Dissertation

Grade Mode
Temporary Standard Letter

Repeat Status
RP

Course Description
This course is to be used for students conducting research and working on their PhD dissertation.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
6

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
6

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
6

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
6

Lecture Hours Operator:
TO

No Requirements

LANG1050 - Language Skills and Career Design - 1 - Credits

Course Overview

Course Prefix
LANG

Course Number
1050

Department
World Languages and Cultures

Course Title
Language Skills and Career Design

Grade Mode
Pass/Fail

Repeat Status
NR

Course Description
This course covers the communication of language skills on resumés, cover letters, interviews, etc. Students learn to 1) provide evidence of foreign language proficiency and cultural and analytical skills gained from foreign language studies; 2) share this evidence with employers.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Foreign Language Course Requirement
Complete at least one foreign language course at the level of 2020 or above

Course Learning Objectives

Course Learning Outcomes
Course Learning Outcomes:

1. Compile appropriate evidence of linguistic, cultural, and analytical skills related to the foreign language curriculum.

2. Choose appropriate materials related to their foreign language studies to include in job application submissions.

3. Appropriately and accurately communicate their level of language proficiency as well as cultural and analytical skills on a resumé, cover letter, interview, etc.

4. Appropriately develop connections in their field and enhance networking skills to effectively leverage their language capabilities and design their career paths.

LANG2100 - Languages in Global and Historical Context (BSS) - 3 - Credits

Course Overview

Course Prefix
LANG

Course Number
2100

Department
World Languages and Cultures

Cross-Listed Courses
LING2100 - Languages in Global and Historical Context (BSS)

Course Title
Languages in Global and Historical Context (BSS)

General Education Attribute
BSS

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course familiarizes students with ways to think about and analyze language. It explores how an understanding of language - what it is, how it works, how it is learned, how it is used - is an asset to everyone, regardless of professional context.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

LANG2400 - Cultures Across the Globe - 3 - Credits

Course Overview

Course Prefix
LANG

Course Number
2400

Department
World Languages and Cultures

Course Title
Cultures Across the Globe

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course examines cultural practices and perspectives in multilingual and multicultural contact. Students analyze cultural differences, reflect on personal intercultural experiences, and create clear, professional oral and written projects demonstrating their understanding of linguistic and cultural interaction.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

LANG2420 - Writing from Academic Sources (CL1) - 4 - Credits

Course Overview

Course Prefix
LANG

Course Number
2420

Department
World Languages and Cultures

Course Title
Writing from Academic Sources (CL1)

General Education Attribute
CL1

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Introduces academic writing to students for whom English is an additional language. Students write documented essays and reports supported by information gathered from sources, such as interviews, surveys, and academic texts.

Credit Hours

Credit Hours Min:
4

Contact Hours

Contact Hours Min:
4

Billing Hours

Billing Hours Min:
4

Lecture Hours

Lecture Hours Min:
4

No Requirements

Course Learning Objectives

Course Learning Outcomes
1. Articulate similarities and differences between products, practices, and perspectives across cultures of the globe, apply these comparisons to contemporary social issues and individual concerns.

2. Identify clearly not only key differences between the cultures presented but also common issues that cut across human history and culture.

3. Develop interpretations directly based upon and tested against textual evidence.

4. Synthesize the course material through writing, presenting clear main theses and developing coherent arguments.

5. Students display academic research skills by showing in their writing that they

evaluate sources, gather relevant information and use electronic library databases and the Internet for information gathering.

6. Students display academic writing skills by showing in their writing a clear focus and overall organization typical of various academic genres, information that has been paraphrased/summarized from multiple sources, acknowledgement of others' ideas through in-text citations and reference lists and use of language (syntax, grammar, vocabulary) that does not interfere with comprehensibility.

LANG2430 - Speaking and Writing for a Multilingual Audience - 3 - Credits

Course Overview

Course Prefix
LANG

Course Number
2430

Department
World Languages and Cultures

Course Title
Speaking and Writing for a Multilingual Audience

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course explores cultural influences on texts, emphasizing clarity and inclusivity for multilingual audiences. Students analyze diverse works, discuss authorial decisions, and create professional-level oral and written projects that meet academic standards while avoiding culture-specific barriers to understanding.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Course Learning Objectives

Course Learning Outcomes
1. Develop an ability to write for a multilingual audience in accordance with genre and disciplinary conventions.

2. Develop oral communication with purpose in consideration of multilingual audiences and in accordance with genre and disciplinary conventions.

3. Engage in the iterative process of improving communication based on feedback from an informed audience.

4. Develop an ability to intentionally craft language for one's purposes while avoiding cultural or linguistic barriers to understanding.

5. Engage with credible and relevant texts and sources appropriate to audience and purpose.

LANG3100 - A Linguistic Introduction to English - 3 - Credits

Course Overview

Course Prefix
LANG

Course Number
3100

Department
World Languages and Cultures

Course Title
A Linguistic Introduction to English

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces students to English grammar, including topics such as phonology, morphology, syntax, pragmatics, and issues in acquisition of English by adult learners. It gives students (particularly prospective teachers) a working knowledge of English as a linguistic system.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

LANG3110 - Language Learning Pedagogy - 3 - Credits

Course Overview

Course Prefix
LANG

Course Number
3110

Department
World Languages and Cultures

Course Title
Language Learning Pedagogy

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course is designed to help students acquire basic principles of teaching English as a foreign language, including designing lessons and materials and classroom management. Students also learn about resources for continuous professional development.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

LANG3120 - Introduction to English Language Assessment - 3 - Credits

Course Overview

Course Prefix
LANG

Course Number
3120

Department
World Languages and Cultures

Course Title
Introduction to English Language Assessment

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces principles of assessment in teaching the English language. Students learn about theory and practice of language assessment and explore both formative and summative as well as quantitative and qualitative methods of assessing individual language ability.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

LANG3150 - TESOL Practicum - 2 - Credits

Course Overview

Course Prefix
LANG

Course Number
3150

Department
World Languages and Cultures

Course Title
TESOL Practicum

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course includes reflective observation of English as additional language classes, video-recorded peer teaching, and teaching non-native speakers of English in the local community. Students apply what they have learned from their courses on pedagogy, English linguistics, and assessment.

Credit Hours

Credit Hours Min:
2

Contact Hours

Contact Hours Min:
2

Billing Hours

Billing Hours Min:
2

Lecture Hours

Lecture Hours Min:
2

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- LANG3100 - A Linguistic Introduction to English
- LANG3110 - Language Learning Pedagogy

LANG3550 - Culture of East Asia (DHA) - 3 - Credits

Course Overview

Course Prefix
LANG

Course Number
3550

Department
World Languages and Cultures

Course Title
Culture of East Asia (DHA)

General Education Attribute
DHA

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students explore the cultures of three East Asian countries: China, Japan and Korea. Students gain an understanding of these cultures through readings, activities, video materials, writing, and discussions. Topics include: customs, traditions, beliefs, food, contemporary issues, and more.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

LANG3570 - Narrative Ethics in Asian Literature and Film (DHA) - 3 - Credits

Course Overview

Course Prefix
LANG

Course Number
3570

Department
World Languages and Cultures

Course Title
Narrative Ethics in Asian Literature and Film (DHA)

General Education Attribute
DHA

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course will focus on the representation of narrative ethics in Asian literature, by visiting a broad array of diverse genres, including drama, poetry, prose, and film adaptations of literary works. This course is taught in English.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

LANG3580 - Israeli-Palestinian Conflict: Past, Present, and Everyday Life - 3 - Credits

Course Overview

Course Prefix
LANG

Course Number
3580

Department
World Languages and Cultures

Cross-Listed Courses
HIST3580 - Israeli-Palestinian Conflict: Past, Present, and Everyday Life

Course Title
Israeli-Palestinian Conflict: Past, Present, and Everyday Life

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course offers a comprehensive exploration of the Israel-Palestine conflict, with a specific focus on its contemporary aspects and the impacts on everyday life. It focuses on the historical roots and the current realities of this complex and enduring conflict.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Course Learning Objectives

Course Learning Outcomes
1. Understand the historical background and contemporary dynamics of the Israel-Palestine conflict.
2. Analyze diverse perspectives and narratives through critical reading of texts and media.
3. Reflect on the human experiences and cultural impacts of the conflict.
4. Develop analytical and critical thinking skills through engagement with course materials.
5. Write clear, well-structured essays and arguments on topics related to the conflict.
6. Deliver persuasive and well-researched presentations on peace attempts in the region.

LANG3650 - Women and Gender in East Asian Culture - 3 - Credits

Course Overview

Course Prefix
LANG

Course Number
3650

Department
World Languages and Cultures

Course Title
Women and Gender in East Asian Culture

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course explores gender dynamics in East Asia through popular culture and media, analyzing masculinity and femininity in literature, film, TV drama, theatre, music, and digital platforms. Students gain an understanding of interplay between gender representation and cultural, sociopolitical contexts.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Course Learning Objectives

Course Learning Outcomes
1. Developing knowledge and understanding of diverse perspectives, global awareness, or other cultures.

2. Gaining a broader understanding and appreciation of intellectual/cultural activity.

3. Learning to analyze and critically evaluate ideas, arguments, and points of view.

LANG3990 - Special Topics - 1 - 5 Credits

Course Overview

Course Prefix
LANG

Course Number
3990

Department
World Languages and Cultures

Course Title
Special Topics

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Additional readings or research done beyond the material covered in other language courses. May be repeated for credit if different topic is covered.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
5

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
5

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
5

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
5

Lecture Hours Operator:
TO

Special Approval

Instructor permission

No Requirements

LANG4200 - Senior Honors Seminar - 1 - Credits

Course Overview

Course Prefix
LANG

Course Number
4200

Department
World Languages and Cultures

Course Title
Senior Honors Seminar

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Credit for completing and presenting a senior honors thesis project. Requirement may be fulfilled by publishing the thesis in an academic journal, defending the thesis before a faculty committee, presenting the thesis at an academic conference, or presenting the thesis in the languages session during Scholar's Day.

Credit Hours

Credit Hours Min:
1

Contact Hours

Contact Hours Min:
1

Billing Hours

Billing Hours Min:
1

Lecture Hours

Lecture Hours Min:
1

No Requirements

LANG4210 - Senior Honors Thesis - 1 - 4 Credits

Course Overview

Course Prefix
LANG

Course Number
4210

Department
World Languages and Cultures

Course Title
Senior Honors Thesis

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Independent study research credits for preparation of a senior honors thesis to fulfill requirements for a degree in languages with departmental honors.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
4

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
4

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
4

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
4

Lecture Hours Operator:
TO

Special Approval

Instructor permission

No Requirements

LANG4330 - Advanced Perspectives in Global Communication - 3 - Credits

Course Overview

Course Prefix
LANG

Course Number
4330

Department
World Languages and Cultures

Course Title
Advanced Perspectives in Global Communication

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course explores the role of communication in a global setting, including issues of language, culture, power and technology. A variety of theories and perspectives are explored.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

LANG4822 - The Vietnam War - 3 - Credits

Course Overview

Course Prefix
LANG

Course Number
4822

Department
World Languages and Cultures

Course Title
The Vietnam War

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course examines the Vietnam War from multiple perspectives: American and Vietnamese experiences, policies, casualties, popular culture, and enduring legacies. It places the conflict within a global and historical context.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Students will gain basic factual knowledge of terms, persons, places, and events related to the Vietnam War through readings, lectures, and documentaries. Quizzes and exams will test student mastery of factual knowledge.

2. Students will also develop an appreciation of diverse perspectives, global awareness, and other cultures.

LANG5950 - Global Communication Practicum - 3 - Credits

Course Overview

Course Prefix
LANG

Course Number
5950

Department
World Languages and Cultures

Course Title
Global Communication Practicum

Grade Mode
Pass/Fail

Repeat Status
NR

Course Description
This global communication practicum is designed to tie together the various elements of the global communication major through practical experience in service learning or internship work in a cultural community distinct from the student's own culture.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- CMST1330 - Introduction to Global Communication (BSS)
- CMST3330 - Intercultural Communication (DSS)

LANG7010 - Academic Writing for Graduate Students - 3 - Credits

Course Overview

Course Prefix
LANG

Course Number
7010

Department
World Languages and Cultures

Course Title
Academic Writing for Graduate Students

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course on academic writing for graduate students takes a workshop approach whereby students bring drafts of their working papers (e.g., thesis, conference papers, etc.), receive and provide feedback, and revise their drafts based on the feedback and instruction.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

LANGAAAA - Language Exam 1st Year I - 4 - Credits

Course Overview

Course Prefix
LANG

Course Number
AAAA

Department
World Languages and Cultures

Course Title
Language Exam 1st Year I

Grade Mode
Standard Letter

Credit Hours

Credit Hours
Min:
4

Contact Hours

Contact Hours
Min:
4

Billing Hours

Billing Hours
Min:
4

Lecture Hours

Lecture Hours
Min:
4

No Requirements

LANGBBBB - Language Exam 1st Year II - 4 - Credits

Course Overview

Course Prefix
LANG

Course Number
BBBB

Department
World Languages and Cultures

Course Title
Language Exam 1st Year II

Grade Mode
Standard Letter

Credit Hours

Credit Hours
Min:
4

Contact Hours

Contact Hours
Min:
4

Billing Hours

Billing Hours
Min:
4

Lecture Hours

Lecture Hours
Min:
4

No Requirements

LANGCCCC - Language Exam 2nd Year I - 4 - Credits

Course Overview

Course Prefix
LANG

Course Number
CCCC

Department
World Languages and Cultures

Course Title
Language Exam 2nd Year I

Grade Mode
Standard Letter

Credit Hours

Credit Hours
Min:
4

Contact Hours

Contact Hours
Min:
4

Billing Hours

Billing Hours
Min:
4

Lecture Hours

Lecture Hours
Min:
4

No Requirements

LANGDDDD - Language Exam 2nd Year II - 4 - Credits

Course Overview

Course Prefix
LANG

Course Number
DDDD

Department
World Languages and Cultures

Course Title
Language Exam 2nd Year II

Grade Mode
Standard Letter

Credit Hours

Credit Hours Min:
4

Contact Hours

Contact Hours Min:
4

Billing Hours

Billing Hours Min:
4

Lecture Hours

Lecture Hours Min:
4

No Requirements

LATN1010 - Beginning Latin I - 5 - Credits

Course Overview

Course Prefix
LATN

Course Number
1010

Department
History, Cultures & Ideas

Course Title
Beginning Latin I

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Basics of Latin grammar and vocabulary. Beginning readings.

Credit Hours

Credit Hours Min:
5

Contact Hours

Contact Hours Min:
5

Billing Hours

Billing Hours Min:
5

Lecture Hours

Lecture Hours Min:
5

No Requirements

LATN1020 - Beginning Latin II - 5 - Credits

Course Overview

Course Prefix
LATN

Course Number
1020

Department
History, Cultures & Ideas

Course Title
Beginning Latin II

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Intermediate concepts of grammar and vocabulary. Intermediate readings.

Credit Hours

Credit Hours
Min:
5

Contact Hours

Contact Hours
Min:
5

Billing Hours

Billing Hours
Min:
5

Lecture Hours

Lecture Hours
Min:
5

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Earn a minimum grade of B in the following:

- LATN1010 - Beginning Latin I

LATN3100 - Intermediate Latin Prose - 3 - Credits

Course Overview

Course Prefix
LATN

Course Number
3100

Department
History, Cultures & Ideas

Course Title
Intermediate Latin Prose

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Readings in Latin prose.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Earn a minimum garde of B in the following:

- LATN1020 - Beginning Latin II

LATN3130 - Intermediate Latin Poetry - 3 - Credits

Course Overview

Course Prefix
LATN

Course Number
3130

Department
History, Cultures & Ideas

Course Title
Intermediate Latin Poetry

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Readings in Latin poetry.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Earn a minimum grade of B in the following:

- LATN3100 - Intermediate Latin Prose

LATN4100 - Advanced Latin Readings - 3 - Credits

Course Overview

Course Prefix
LATN

Course Number
4100

Department
History, Cultures & Ideas

Course Title
Advanced Latin Readings

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Readings in Latin poetry and/or prose.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Earn a minimum grade of B in the following:

- LATN3100 - Intermediate Latin Prose
- LATN3130 - Intermediate Latin Poetry

LATN4860 - Latin Pedagogy - 3 - Credits

Course Overview

Course Prefix
LATN

Course Number
4860

Department
History, Cultures & Ideas

Course Title
Latin Pedagogy

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Prepares students to teach Latin at the secondary level. Students survey the most important issues in Latin pedagogy, and discuss the best teaching practices. Students also translate selections from core Latin authors, focusing on authors not previously studied.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Earn a minimum grade of B in the following:

- LATN3100 - Intermediate Latin Prose
- LATN3130 - Intermediate Latin Poetry

LATN4930 - Directed Readings in Latin Poetry and Prose Authors - 1 - 3 Credits

Course Overview

Course Prefix
LATN

Course Number
4930

Department
History, Cultures & Ideas

Course Title
Directed Readings in Latin Poetry and Prose Authors

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Directed readings in advanced Latin poetry and prose authors.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

No Requirements

LATN6100 - Special Topics: Latin - 1 - 3 Credits

Course Overview

Course Prefix
LATN

Course Number
6100

Department
History, Cultures & Ideas

Course Title
Special Topics: Latin

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Intensive Readings and group discussions of selected Latin texts.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Earn a minimum grade of B in the following:

- LATN4100 - Advanced Latin Readings

LATS2200 - Introduction to Latin America - 3 - Credits

Course Overview

Course Prefix
LATS

Course Number
2200

Department
School of Social Sciences

Course Title
Introduction to Latin America

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Interdisciplinary course examining Latin American geography, culture, history, literature, music, society, politics, and economics.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

LING2100 - Languages in Global and Historical Context (BSS) - 3 - Credits

Course Overview

Course Prefix
LING

Course Number
2100

Department
World Languages and Cultures

Cross-Listed Courses
LANG2100 - Languages in Global and Historical Context (BSS)

Course Title
Languages in Global and Historical Context (BSS)

General Education Attribute
BSS

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course familiarizes students with ways to think about and analyze language. It explores how an understanding of language - what it is, how it works, how it is learned, how it is used - is an asset to everyone, regardless of professional context.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

LING2250 - Cooperative Education - 1 - 3 Credits

Course Overview

Course Prefix
LING

Course Number
2250

Department
World Languages and Cultures

Course Title
Cooperative Education

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Course credit for professional experience outside the classroom. Statement of professional goals and a summary report following the experience are required.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

No Requirements

LING2500 - Language & Religion - 3 - Credits

Course Overview

Course Prefix
LING

Course Number
2500

Department
World Languages and Cultures

Course Title
Language & Religion

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students study the socio-linguistic aspects of religious practices, the interplay between language and religion in the lives of individuals, and the social experience of power based on language and religion.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

LING3100 - Language in Social Context - 3 - Credits

Course Overview

Course Prefix
LING

Course Number
3100

Department
World Languages and Cultures

Course Title
Language in Social Context

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course explores the role of language in society, its social functions, and the impact of social context on how it is used and interpreted. Students survey sociolinguistic research and examine the interaction between language and other social factors.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

LING3200 - Introduction to Linguistics (DSS) - 3 - Credits

Course Overview

Course Prefix
LING

Course Number
3200

Department
World Languages and Cultures

Course Title
Introduction to Linguistics (DSS)

General Education Attribute
DSS

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces students to the field of linguistics and its various subfields with the aim of developing students' understanding of the nature, structure, acquisition, and use of human languages.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

LING3300 - Clinical Experience I - 1 - Credits

Course Overview

Course Prefix
LING

Course Number
3300

Department
World Languages and Cultures

Course Title
Clinical Experience I

Grade Mode
Pass/Fail

Repeat Status
NR

Course Description
First clinical practicum in middle and secondary schools. Arranged by special methods instructor. Required at Level I.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Registration Restrictions
Admission to Teacher Education

Simple Requisites

Corequisite

Type
Corequisite

Required

Enroll in the following Courses:

- LING5400 - Teaching Modern Languages
  OR LING6400 - Second Language Teaching: Theory and Practice

LING4100 - The Study of Language - 3 - Credits

Course Overview

Course Prefix
LING

Course Number
4100

Department
World Languages and Cultures

Cross-Listed Courses
ANTH4100 - The Study of Language

Course Title
The Study of Language

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Investigates ways in which human languages are structured, how they change, how they reflect the cultures in which they are used, and how they are learned.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

LING4250 - Cooperative Education - 1 - 3 Credits

Course Overview

Course Prefix
LING

Course Number
4250

Department
World Languages and Cultures

Course Title
Cooperative Education

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Course credit for professional experience outside the classroom. Statement of professional goals and a summary report following the experience are required.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

No Requirements

LING4300 - Clinical Experience II - 1 - Credits

Course Overview

Course Prefix
LING

Course Number
4300

Department
World Languages and Cultures

Course Title
Clinical Experience II

Grade Mode
Pass/Fail

Repeat Status
NR

Course Description
Second clinical practicum in middle and secondary schools. Arranged by special methods instructor. Required at Level II.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Registration Restrictions
Admission to Teacher Education

Simple Requisites

Corequisite

Type
Corequisite

Required

Enroll in the following Courses:

- LING5400 - Teaching Modern Languages
  OR LING6400 - Second Language Teaching: Theory and Practice

LING4520 - Technology for Language Teaching - 3 - Credits

Course Overview

Course Prefix
LING

Course Number
4520

Department
World Languages and Cultures

Dual-Listed Courses
LING6520 - Technology for Language Teaching

Course Title
Technology for Language Teaching

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Web- and disk-based technology for developing electronic course modules for the language learning classroom.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

LING4700 - Foundations of Dual Language and Immersion Education - 3 - Credits

Course Overview

Course Prefix
LING

Course Number
4700

Department
World Languages and Cultures

Dual-Listed Courses
LING6700 - Foundations of Dual Language and Immersion Education

Course Title
Foundations of Dual Language and Immersion Education

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course offers a historical overview and examination of the theoretical and research-based foundations for dual language and immersion education. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

LING4900 - Analysis of Cross-Cultural Difference - 3 - Credits

Course Overview

Course Prefix
LING

Course Number
4900

Department
World Languages and Cultures

Course Title
Analysis of Cross-Cultural Difference

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Develops awareness of what culture is and how it shapes perceptions and attitudes. Through interactive student-centered activities, students learn to analyze cultural differences.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

LING4920 - Practicum in Language Tutoring - 1 - Credits

Course Overview

Course Prefix
LING

Course Number
4920

Department
World Languages and Cultures

Course Title
Practicum in Language Tutoring

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Allows language students to develop tutoring skills by assisting professors daily in lower-division courses or fulfilling instructional duties for a comparable amount of time in the language laboratory, public schools, or similar activities with departmental approval. May be repeated for up to a maximum of 3 credits.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

No Requirements

LING5400 - Teaching Modern Languages - 3 - Credits

Course Overview

Course Prefix
LING

Course Number
5400

Department
World Languages and Cultures

Course Title
Teaching Modern Languages

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course is designed for future foreign/dual immersion language teachers. The main objective is to help them become familiar with the most relevant issues of L2 teaching and learning and the diverse approaches to teaching in foreign/dual immersion programs.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Special Approval
Instructor permission

Simple Requisites

Corequisite

Type
Corequisite

Required

Complete ANY of the following Courses:

- SCED3300 - Clinical Experience I
  OR SCED4300 - Clinical Experience II

LING5410 - Teaching Languages in Context: Lesson Planning - 3 - Credits

Course Overview

Course Prefix
LING

Course Number
5410

Department
World Languages and Cultures

Course Title
Teaching Languages in Context: Lesson Planning

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides students with the opportunity to focus on the development of lesson plans in the specific area in which they are planning to teach and follow the methodology that they learned in the methods course. This course is a continuation of LING 5400.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Special Approval

Instructor permission

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- LING5400 - Teaching Modern Languages

Course Learning Objectives

Course Learning Outcomes

1. Provide future language teachers with the skills that they need in their profession, focusing exclusively on the development of lesson planning.

2. Students will have the opportunity to create a series of lesson plans in the specific content area in which they are more likely to teach.

3. Students will have the opportunity to put into practice the created lesson plans by being involved in micro-teaching practices during the course.

LING5500 - Student Teaching Seminar - 2 - Credits

Course Overview

Course Prefix
LING

Course Number
5500

Department
World Languages and Cultures

Course Title
Student Teaching Seminar

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Capstone seminar focused upon student teaching issues, professional development, and principles of effective instruction, with emphasis on reflective teaching.

Credit Hours

Credit Hours Min:
2

Contact Hours

Contact Hours Min:
2

Billing Hours

Billing Hours Min:
2

Lecture Hours

Lecture Hours Min:
2

No Requirements

LING5630 - Student Teaching in Secondary Schools - 10 - Credits

Course Overview

Course Prefix
LING

Course Number
5630

Department
World Languages and Cultures

Course Title
Student Teaching in Secondary Schools

Grade Mode
Pass/Fail

Repeat Status
NR

Course Description
Thirteen-week culminating practicum experience in which students assume full-time teaching responsibilities under direction of cooperating teachers in their major and minor fields.

Credit Hours

Credit Hours
Min:
10

Contact Hours

Contact Hours
Min:
10

Billing Hours

Billing Hours
Min:
10

Lecture Hours

Lecture Hours
Min:
10

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Set by Secondary Education Department

LING6010 - Research in Second Language Learning - 3 - Credits

Course Overview

Course Prefix
LING

Course Number
6010

Department
World Languages and Cultures

Course Title
Research in Second Language Learning

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Readings in current SLL literature evaluated in terms of their implications for classroom practice.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

LING6100 - Second Language Assessment: Theory and Practice - 3 - Credits

Course Overview

Course Prefix
LING

Course Number
6100

Department
World Languages and Cultures

Course Title
Second Language Assessment: Theory and Practice

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course focuses on the exploration of a number of theoretical and applied aspects related to the assessment of second language learning.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

No Requirements

LING6300 - Clinical Experience I - 1 - Credits

Course Overview

Course Prefix
LING

Course Number
6300

Department
World Languages and Cultures

Course Title
Clinical Experience I

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
First clinical practicum in middle and secondary schools for Master of Second Language Teaching students. Arranged by special methods instructor. Required at Level I.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Simple Requisites

Corequisite

Type
Corequisite

Required

Enroll in the following Courses:

- LING6400 - Second Language Teaching: Theory and Practice

Prerequisite

Type
Prerequisite

Required

Set by Secondary Education Department

LING6310 - Clinical Experience II - 1 - Credits

Course Overview

Course Prefix
LING

Course Number
6310

Department
World Languages and Cultures

Course Title
Clinical Experience II

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Second clinical practicum in middle and secondary schools for Master of Second Language Teaching students. Arranged by special methods instructor. Required at Level II.

Credit Hours

Credit Hours Min:
1

Contact Hours

Contact Hours Min:
1

Billing Hours

Billing Hours Min:
1

Lecture Hours

Lecture Hours Min:
1

Simple Requisites

Corequisite

Type
Corequisite

Required

Enroll in the following Courses:

- LING6400 - Second Language Teaching: Theory and Practice

Prerequisite

Type
Prerequisite

Required

Set by Secondary Education Department

LING6350 - Pro-Seminar on Second Language Teaching - 1 - 3 Credits

Course Overview

Course Prefix
LING

Course Number
6350

Department
World Languages and Cultures

Course Title
Pro-Seminar on Second Language Teaching

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course is designed for graduate students enrolled in the Master of Second Language Teaching program. Students will become familiar with the theory of the Communicative Approach, the Task-Based Approach, and their use in the L2 classroom.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

No Requirements

LING6400 - Second Language Teaching: Theory and Practice - 3 - Credits

Course Overview

Course Prefix
LING

Course Number
6400

Department
World Languages and Cultures

Course Title
Second Language Teaching: Theory and Practice

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Survey of theories about memory, assigning meaning to recall, and methods L2 teachers and learners use to apply meaning to their teaching and learning. Social dynamics in the L2 classroom and issues of schooling students of diverse backgrounds are central to all course topics.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

LING6410 - Teaching Modern Languages - 3 - Credits

Course Overview

Course Prefix
LING

Course Number
6410

Department
World Languages and Cultures

Course Title
Teaching Modern Languages

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Methods course for graduate students seeking teacher licensure in any of the modern languages. Considers the context of the present secondary language classroom, effective teaching techniques that can be used in that context, and significant trends in teaching and learning languages.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Special Approval

Instructor permission

Simple Requisites

Corequisite

Type
Corequisite

Required

Enroll in the following Courses:

- LING6310 - Clinical Experience II

LING6500 - Second Language Acquisition: Theory and Practice - 3 - Credits

Course Overview

Course Prefix
LING

Course Number
6500

Department
World Languages and Cultures

Course Title
Second Language Acquisition: Theory and Practice

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course will introduce students to historical and contemporary theoretical perspectives on second language (L2) acquisition. Students will be encouraged to reflect on how L2 acquisition theory informs teaching methodologies in the L2 classroom.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

LING6510 - Linguistic Analysis - 3 - Credits

Course Overview

Course Prefix
LING

Course Number
6510

Department
World Languages and Cultures

Course Title
Linguistic Analysis

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Comparative study of linguistic patterns across languages. Linguistic structures and language typology for teachers of modern languages.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

LING6520 - Technology for Language Teaching - 3 - Credits

Course Overview

Course Prefix
LING

Course Number
6520

Department
World Languages and Cultures

Dual-Listed Courses
LING4520 - Technology for Language Teaching

Course Title
Technology for Language Teaching

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Web- and disk-based technology for developing electronic course modules for the language learning classroom.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

LING6600 - Sociocultural Perspectives on Language Learning - 3 - Credits

Course Overview

Course Prefix
LING

Course Number
6600

Department
World Languages and Cultures

Course Title
Sociocultural Perspectives on Language Learning

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course explores the Sociocultural theory of language learning. It focuses on how people learn a language and what the implications are for teaching.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

LING6700 - Foundations of Dual Language and Immersion Education - 3 - Credits

Course Overview

Course Prefix
LING

Course Number
6700

Department
World Languages and Cultures

Dual-Listed Courses
LING4700 - Foundations of Dual Language and Immersion Education

Course Title
Foundations of Dual Language and Immersion Education

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course offers a historical overview and examination of the theoretical and research-based foundations for dual-language and immersion education. Additional coursework may be required for graduate students.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Special Approval
Instructor permission

No Requirements

LING6800 - Topics in Second Language Acquisition - 3 - Credits

Course Overview

Course Prefix
LING

Course Number
6800

Department
World Languages and Cultures

Course Title
Topics in Second Language Acquisition

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Advanced seminar in the acquisition and teaching of languages.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

LING6810 - Current Issues in Teaching World Languages - 3 - Credits

Course Overview

Course Prefix
LING

Course Number
6810

Department
World Languages and Cultures

Course Title
Current Issues in Teaching World Languages

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
In this course, students examine today's global linguascape and analyze relevant frameworks for addressing current issues related to teaching major global languages to speakers of other languages.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

LING6820 - Second Language Pragmatics - 3 - Credits

Course Overview

Course Prefix
LING

Course Number
6820

Department
World Languages and Cultures

Course Title
Second Language Pragmatics

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course focuses on the exploration of both theoretical and applied aspects of second-language pragmatics, a subfield of second-language acquisition that lies at the intersection of language and culture.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

LING6830 - Sociolinguistics, Sociolinguistic Competence, and Second Language Acquisition - 3 - Credits

Course Overview

Course Prefix
LING

Course Number
6830

Department
World Languages and Cultures

Course Title
Sociolinguistics, Sociolinguistic Competence, and Second Language Acquisition

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course focuses on the exploration of a number of theoretical and applied aspects related to the study of sociolinguistics, a subfield of second-language acquisition.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

LING6840 - Second Language Writing: Theory and Practice - 3 - Credits

Course Overview

Course Prefix
LING

Course Number
6840

Department
World Languages and Cultures

Course Title
Second Language Writing: Theory and Practice

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course focuses on the exploration of a number of theoretical and applied aspects related to the study of second language writing.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

LING6850 - Second Language Reading: Theory and Practice - 3 - Credits

Course Overview

Course Prefix
LING

Course Number
6850

Department
World Languages and Cultures

Course Title
Second Language Reading: Theory and Practice

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course focuses on the exploration of a number of theoretical and applied aspects related to the study of second language reading.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

LING6900 - Culture Teaching and Learning: Theory and Practice - 3 - Credits

Course Overview

Course Prefix
LING

Course Number
6900

Department
World Languages and Cultures

Course Title
Culture Teaching and Learning: Theory and Practice

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Examines culture learning and connection between development of communicative and cultural competence in the second language learner. Reviews theory, research, and practice in the field of intercultural communication as relating to second language learning and teaching.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

LING6910 - Exploring the Portfolio - 1 - Credits

Course Overview

Course Prefix
LING

Course Number
6910

Department
World Languages and Cultures

Course Title
Exploring the Portfolio

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Investigation of the portfolio process, including distinguishing qualities of superior portfolios. Students write their teaching philosophy and gather artifacts for their portfolio. Must be taken during the first semester of the Master of Second Language Teaching program. First of a sequence of three required courses.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

No Requirements

LING6920 - Developing the Portfolio - 1 - Credits

Course Overview

Course Prefix
LING

Course Number
6920

Department
World Languages and Cultures

Course Title
Developing the Portfolio

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Further development of the portfolio including revision of the student's teaching philosophy, given insights from courses taken. Reexamination and revision of artifacts gathered, as well as addition of new artifacts.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- LING6910 - Exploring the Portfolio

LING6930 - Finishing the Portfolio - 1 - Credits

Course Overview

Course Prefix
LING

Course Number
6930

Department
World Languages and Cultures

Course Title
Finishing the Portfolio

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Further work toward completion of the portfolio, including careful development of main themes in the teaching philosophy and artifacts; addition of final artifacts; and revision for coherence, clarity, and brevity. Must be taken during the final semester of the Master of Second Language Teaching program.

Credit Hours

Credit Hours Min:
1

Contact Hours

Contact Hours Min:
1

Billing Hours

Billing Hours Min:
1

Lecture Hours

Lecture Hours Min:
1

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- LING6920 - Developing the Portfolio

LING6940 - Independent Study - 1 - 3 Credits

Course Overview

Course Prefix
LING

Course Number
6940

Department
World Languages and Cultures

Course Title
Independent Study

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Individually directed readings and conference. Departmental permission required before registration.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

Special Approval

Instructor permission

No Requirements

LING6950 - Second Language Teaching Practicum - 1 - 3 Credits

Course Overview

Course Prefix
LING

Course Number
6950

Department
World Languages and Cultures

Course Title
Second Language Teaching Practicum

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides practical second language teaching experience for graduate students in the Master of Second Language Teaching program. The class also includes relevant readings and discussions about modern pedagogical approaches that facilitate second language learning.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

No Requirements

LING6970 - Thesis Research - 3 - 6 Credits

Course Overview

Course Prefix
LING

Course Number
6970

Department
World Languages and Cultures

Course Title
Thesis Research

Grade Mode
Temporary Standard Letter

Repeat Status
RP

Course Description
Students perform original hands-on research and/or share a new perspective on an existing challenge in second language learning and teaching.

Credit Hours

Credit Hours Min:
3

Credit Hours Max:
6

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
3

Contact Hours Max:
6

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
3

Billing Hours Max:
6

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
3

Lecture Hours Max:
6

Lecture Hours Operator:
TO

Registration Restrictions
Admission to Master of Second Language Teaching (MSLT) program.

Special Approval
Instructor Permission

Course Learning Objectives

Course Learning Outcomes

1. For Plan A students: learn to perform original hands-on research and/or share a new perspective on an existing challenge in second language learning and teaching. 6 credits.

2. For Plan B students: learn to develop a teaching portfolio based on their experiences in the Master of Second Language Teaching program. 3 credits.

LING6990 - Continuing Graduate Advisement - 1 - 9 Credits

Course Overview

Course Prefix
LING

Course Number
6990

Department
World Languages and Cultures

Course Title
Continuing Graduate Advisement

Grade Mode
Temporary Pass/Fail

Repeat Status
RP

Course Description
Allows students access to faculty and facilities to complete graduate thesis, project, and papers.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
9

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
9

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
9

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
9

Lecture Hours Operator:
TO

No Requirements

MACH1010 - Machine Tool Technology I - 3 - Credits

Course Overview

Course Prefix
MACH

Course Number
1010

Department
Technology, Design & Technical Ed

Course Title
Machine Tool Technology I

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
An introductory course to machining. Designed to develop skills needed to safely operate various hand tools, power equipment and precision measuring instruments related to the machining field.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

MACH1020 - Machine Tool Technology II - 3 - Credits

Course Overview

Course Prefix
MACH

Course Number
1020

Department
Technology, Design & Technical Ed

Course Title
Machine Tool Technology II

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course develops safe operation of power equipment and precision measuring tools. Students practice blueprint reading, decision-making for productivity and quality, and advanced lathe setup, threading, machining operations, drill press use, and related tooling.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- MACH1010 - Machine Tool Technology I

MACH1030 - Machine Tool Technology III - 3 - Credits

Course Overview

Course Prefix
MACH

Course Number
1030

Department
Technology, Design & Technical Ed

Course Title
Machine Tool Technology III

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Intermediate to advanced machining course developing safe operation of power equipment and precision measuring instruments. Students learn blueprint reading, manual machine setup and operation, and basic to advanced machining processes, emphasizing sound decision-making to ensure productivity, quality, and workplace safety.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- MACH1020 - Machine Tool Technology II

MACH1040 - Machine Tool Technology IV - 3 - Credits

Course Overview

Course Prefix
MACH

Course Number
1040

Department
Technology, Design & Technical Ed

Course Title
Machine Tool Technology IV

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Advanced machining course develops safe operation of power equipment and precision measuring instruments. Students read blueprints, set up machines, perform advanced machining, and build judgment skills. Course emphasizes turning, CNC lathes and mills, plus vertical milling theory, setup, and operation.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- MACH1030 - Machine Tool Technology III

MACH1050 - Machine Tool Technology V - 3 - Credits

Course Overview

Course Prefix
MACH

Course Number
1050

Department
Technology, Design & Technical Ed

Course Title
Machine Tool Technology V

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Advanced machining course for proficient students emphasizes specialized processes and advanced milling operations. Students read blueprints, set up and operate manual machines, perform complex machining tasks, and strengthen decision-making skills to ensure safe, high-quality, and productive shop practices.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- MACH1040 - Machine Tool Technology IV

MACH1110 - Manufacturing Fundamentals - 3 - Credits

Course Overview

Course Prefix
MACH

Course Number
1110

Department
Technology, Design & Technical Ed

Course Title
Manufacturing Fundamentals

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
In this course students learn the basic procedures and machining operations encountered in the machine shop manufacturing industry. Topics include essential safety practices, Safety Data Sheet (SDS), use of basic measuring tools, and applications of pedestal grinding and sawing.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes
1. Students will demonstrate safe practices in a machine shop.
2. Students will recognize appropriate PPE and demonstrate environmental awareness.
3. Students will demonstrate correct clean-up procedures.
4. Students will interpret a Safety Datasheet (SDS).
5. Students will be introduced to measurement.
6. Students will perform basic layout procedures.
7. Students will understand basic hand tools and their usage.
8. Students will perform basic mathematical calculations.

MACH1120 - Process Control - 3 - Credits

Course Overview

Course Prefix
MACH

Course Number
1120

Department
Technology, Design & Technical Ed

Course Title
Process Control

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
In this course students practice reading blueprints & technical drawings in order to create and inspect a part or assembly. Students receive training in practical theory and hands-on experience in the proper use of common measuring tools.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes
1. Students will interpret basic blueprint symbols, line types, and views.
2. Students will analyze title blocks and apply the data found there to the inspection process.
3. Students will be able to describe the basic Geometric Dimensioning and Tolerance (GD&T) Symbols.
4. Students will demonstrate the proper use of micrometers, calipers, and other gaging tools.

MACH1130 - Mill Concepts - 3 - Credits

Course Overview

Course Prefix
MACH

Course Number
1130

Department
Technology, Design & Technical Ed

Course Title
Mill Concepts

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
In this course students are introduced to material cutting concepts by operating a manual milling machine. Topics include principles of clamping work pieces, selection of cutting tools, milling speeds and feeds application of cutting depth, width, and direction.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Students will demonstrate the safe operation of a milling machine.
2. Students will demonstrate proper machine maintenance and workstation cleanup.
3. Students will demonstrate proper work holding device selection and setup.
4. Students will demonstrate efficient speeds and feeds for mill tooling.
5. Students will perform accurate milling of pockets and windows & slots.
6. Students will perform accurate hole-forming mill operations for size and location.
7. Students will perform accurate angle milling.
8. Students will create and evaluate milled surface finishes.

MACH1140 - Engine Machining Theory - 2 - Credits

Course Overview

Course Prefix
MACH

Course Number
1140

Department
Technology, Design & Technical Ed

Course Title
Engine Machining Theory

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Instructs students on the techniques of drilling, honing, boring, grinding, etc., using the machines, measuring tools and gauges associated with MACH 1160 . Casting inspection and guidelines for re-use is also explained.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Simple Requisites

Corequisite

Type
Corequisite

Required

Enroll in the following Courses:

- MACH1160 - Engine Machining Lab

MACH1150 - Advanced Print Reading - 3 - Credits

Course Overview

Course Prefix
MACH

Course Number
1150

Department
Technology, Design & Technical Ed

Course Title
Advanced Print Reading

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
In this course students learn to interpret information on blueprints used in manufacturing. Topics include but are not limited to: symbols, terms, datum, material condition modifiers, and application of tolerance zones.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Students will demonstrate how tolerancing concepts and rules apply.
2. Students will demonstrate how datums work.
3. Students will demonstrate how feature frames work.
4. Students will identify all symbols on a print.

MACH1160 - Engine Machining Lab - 2 - Credits

Course Overview

Course Prefix
MACH

Course Number
1160

Department
Technology, Design & Technical Ed

Course Title
Engine Machining Lab

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Provides hands-on experience using specialized equipment to machine automotive and diesel engine castings during overhaul. Students recondition rods, heads, valves, blocks, and bores while applying precision measuring tools and gauges to ensure accuracy and quality.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Simple Requisites

Corequisite

Type
Corequisite

Required

Enroll in the following Courses:

- MACH1140 - Engine Machining Theory

MACH1170 - Computer Numerical Control (CNC) Lathe Concepts - 3 - Credits

Course Overview

Course Prefix
MACH

Course Number
1170

Department
Technology, Design & Technical Ed

Course Title
Computer Numerical Control (CNC) Lathe Concepts

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
In this course students are introduced to Computer Numeric Control (CNC) machining. Topics include safety, CNC terminology, preparatory steps to run a CNC program, setup and operation of CNC turning machines, and performing part production and inspection.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Students will demonstrate proper work holding for CNC machining.
2. Students will demonstrate basic CNC machine setup.
3. Students will demonstrate setting program zero for CNC machines.
4. Students will perform manual mode operation, edit mode, MDI (manual data input) and program operation mode.
5. Students will be able to apply recognition of program codes to CNC machine operation.
6. Students will be able to apply knowledge of motion commands of rapid positioning, linear interpolation, and circular interpolation.
7. Students will be able to apply proper feeds, speeds, and chip load to quality part production.
8. Students will be able to apply CSS (Constant surface speed) and constant RPM (Revolutions Per Minute).
9. Students will perform necessary operations to load a program, set tool offsets, and set cutter or nose radius compensations.

MACH1190 - Computer Numerical Control (CNC) Lathe Programming - 3 - Credits

Course Overview

Course Prefix
MACH

Course Number
1190

Department
Technology, Design & Technical Ed

Course Title
Computer Numerical Control (CNC) Lathe Programming

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
In this course students learn the fundamentals of Computer Aided Drafting/ Computer Aided Manufacturing (CAD/CAM) systems. Topics include software operating systems, drawing commands, editing commands, tool-path generation, and posting.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Students will create advanced 2D geometry construction.
2. Students will create 2-1/2 D geometry construction.
3. Students will perform advanced modification of existing geometry.
4. Students will demonstrate advanced 2D toolpath editing.
5. Students will generate process and toolpath planning.
6. Students will create part geometry for CNC lathes.
7. Students will inspect and document finish dimensions using various metrology.
8. Students will generate toolpaths for CNC lathes.

MACH1200 - Introduction to Computer-Numeric Control Machining - 3 - Credits

Course Overview

Course Prefix
MACH

Course Number
1200

Department
Technology, Design & Technical Ed

Course Title
Introduction to Computer-Numeric Control Machining

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces students to entry-level Computer-Numeric Control (CNC) Machining. Topics include CNC terminology, operation, and performing part production and inspection. Students are expected to operate in a safe and clean environment as they program G and M code.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Explain essential elements of G and M code.
2. Demonstrate best safety practices and techniques for a machine shop.
3. Properly perform the basic start-up of a CNC machine.
4. Correctly load a part into the CNC machine.
5. Run basic programs on a CNC machine.
6. Explain the various functions of the CNC control keypad and screen.
7. Select the correct tooling for operations.
8. Demonstrate appropriate preventative maintenance of a CNC machine.

MACH1240 - Lathe Concepts - 3 - Credits

Course Overview

Course Prefix
MACH

Course Number
1240

Department
Technology, Design & Technical Ed

Course Title
Lathe Concepts

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
In this course students are introduced to material cutting concepts by operating a manual turning machine. Topics include principles of locating work pieces, selection of cutting tools/holders, turning speeds and feeds, and application of cutting depth, width, and direction.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Demonstrate safe operation of a precision lathe machine.
2. Demonstrate proper machine maintenance and workstation cleanup.
3. Demonstrate proper tool selection and application.
4. Demonstrate proper work-holding device selection and setup.
5. Demonstrate efficient speeds and feeds for lathe tooling.
6. Perform accurate facing operations.
7. Perform accurate turning operations.
8. Perform accurate chamfer/taper turning operations.
9. Perform accurate hole-forming operations for size and location.
10. Perform accurate threading operations.
11. Perform accurate knurling operations.
12. Perform calculations needed to operate the precision machine.
13. Inspect and document finish dimensions using various metrology.

MACH1260 - Computer Numerical Control (CNC) Mill Concepts - 3 - Credits

Course Overview

Course Prefix
MACH

Course Number
1260

Department
Technology, Design & Technical Ed

Course Title
Computer Numerical Control (CNC) Mill Concepts

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
In this course students are introduced to Computer Numeric Control (CNC) machining. Topics include safety, CNC terminology, preparatory steps to run a CNC program, setup and operation of CNC milling machines, and performing part production and inspection.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Students will demonstrate proper work holding for CNC machining.
2. Students will demonstrate basic CNC machine setup.
3. Students will demonstrate setting program zero for CNC machines.
4. Students will be able to perform manual mode operation, edit mode, MDI (manual data input) and program operation mode.
5. Students will be able to apply recognition of program codes to CNC machine operation.
6. Students will be able to apply knowledge of motion commands of rapid positioning, linear interpolation, and circular interpolation.
7. Students will be able to apply proper feeds, speeds, and chip load to quality part production.
8. Students will be able to apply CSS (Constant surface speed) and constant RPM (Revolutions Per Minute).
9. Students will perform necessary operations to load a program, set tool offsets, and set cutter or nose radius compensations.

MACH2977 - Internship Education Experiences - 1 - 3 Credits

Course Overview

Course Prefix
MACH

Course Number
2977

Department
Technology, Design & Technical Ed

Course Title
Internship Education Experiences

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course provides on-the-job machine shop work experience which is coordinated through the instructor and internship coordinator to determine learning objectives, hours of work, and credit.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

Special Approval
Instructor permission

No Requirements

MACH2988 - Special Problems - 1 - 3 Credits

Course Overview

Course Prefix
MACH

Course Number
2988

Department
Technology, Design & Technical Ed

Course Title
Special Problems

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Individual work approved by instructor. Time and credit to be arranged.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

No Requirements

MAE1010 - Introduction to Mechanical Engineering - 3 - Credits

Course Overview

Course Prefix
MAE

Course Number
1010

Department
Mechanical & Aerospace Engineering

Course Title
Introduction to Mechanical Engineering

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces students to the field of mechanical engineering, engineering computational and programming tools, extracurricular engineering opportunities, and engineering documentation standards.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Admission to the Mechanical and Aerospace Engineering Preparatory or Pre-professional Program

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:
- MATH1210 - Calculus I (QL)

may be taken concurrently

MAE1200 - Engineering Graphics - 2 - Credits

Course Overview

Course Prefix
MAE

Course Number
1200

Department
Mechanical & Aerospace Engineering

Course Title
Engineering Graphics

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course is an introduction to computer aided design including solid modeling, assembly design, engineering drawing conventions, dimensioning and tolerance specification using geometric dimensioning and tolerancing.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Registration Restrictions
Admission to the Mechanical and Aerospace Engineering Preparatory, Pre-Professional, or Professional Programs

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:
- MATH1060 - Trigonometry

or one of the following:

- ***Math ACT score of 27 or higher***
- ***AP Calculus score of 3 or higher***

MAE2160 - Material Science - 3 - Credits

Course Overview

Course Prefix
MAE

Course Number
2160

Department
Mechanical & Aerospace Engineering

Course Title
Material Science

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers the study of atomic and microscopic structures of metals, polymers, ceramics, and composite materials, and how these structures affect material properties.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Lab Hours

Lab Hours Min:
0

Registration Restrictions
Admission to the Pre-Professional or Professional Engineering program

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:
- CHEM1210 - Principles of Chemistry I
- MATH1220 - Calculus II (QL)

MAE2165 - Material Science Laboratory - 1 - Credits

Course Overview

Course Prefix
MAE

Course Number
2165

Department
Mechanical & Aerospace Engineering

Course Title
Material Science Laboratory

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Laboratory sessions are held weekly in which the mechanical and thermal properties of metals, polymers, ceramics, and composite materials are studied.

Credit Hours

Credit Hours Min:
1

Contact Hours

Contact Hours Min:
1

Billing Hours

Billing Hours Min:
1

Lecture Hours

Lecture Hours Min:
1

Registration Restrictions
Admission to the Pre-Professional or Professional Engineering program

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:
- MAE2160 - Material Science

may be taken concurrently

MAE2300 - Thermodynamics I - 3 - Credits

Course Overview

Course Prefix
MAE

Course Number
2300

Department
Mechanical & Aerospace Engineering

Course Title
Thermodynamics I

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers the first and second laws of thermodynamics; analysis of open and closed systems; equations of state; power and refrigeration cycles; and problem-solving methodology.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Registration Restrictions

Admission to the Pre-Professional or Professional Engineering program

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- MATH1220 - Calculus II (QL)

may be taken concurrently

MAE2450 - Engineering Numerical Methods - 3 - Credits

Course Overview

Course Prefix
MAE

Course Number
2450

Department
Mechanical & Aerospace Engineering

Course Title
Engineering Numerical Methods

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course explores basic tools of numerical analysis, solution to ordinary and partial differential equations, and software development.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Registration Restrictions

Admission to the Mechanical and Aerospace Engineering Pre-Professional or Professional Program

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Earn a minimum grade of C- in the following:

- CS1400 - Introduction to Computer Science--CS 1
  OR ECE1400 - Computer Programming for Electrical and Computer Engineers I

Required

Complete ALL of the following Courses:

- MATH2210 - Multivariable Calculus (QI)

Required

Fulfill ANY of the following requirements:

Option 1

Complete ALL of the following Courses:

- MATH2250 - Linear Algebra and Differential Equations (QI)

may be taken concurrently

OR

Option 2

Complete ALL of the following Courses:

- MATH2270 - Linear Algebra (QI)
- MATH2280 - Ordinary Differential Equations (QI)

MAE3040 - Mechanics of Solids - 3 - Credits

Course Overview

Course Prefix
MAE

Course Number
3040

Department
Mechanical & Aerospace Engineering

Course Title
Mechanics of Solids

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students learn about stress, strain, and deflection due to flexure and shear. Topics include combined stresses, instability, nonsymmetric bending, torsion, and energy methods.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Registration Restrictions

Admission to the Professional Engineering Program

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ENGR2140 - Mechanics of Materials
- MAE2160 - Material Science
  OR CEE3160 - Civil Engineering Materials

MAE2160 MATERIAL SCIENCE* or *CEE3160 CIVIL ENGINEERING MATERIALS
may be taken concurrently

Prerequisite

Type
Prerequisite

Required

Fulfill ANY of the following requirements:

Option 1

Complete ALL of the following Courses:

- MATH2250 - Linear Algebra and Differential Equations (QI)

OR

Option 2

Complete ALL of the following Courses:

- MATH2270 - Linear Algebra (QI)
- MATH2280 - Ordinary Differential Equations (QI)

MAE3340 - Instrumentation and Measurements - 3 - Credits

Course Overview

Course Prefix
MAE

Course Number
3340

Department
Mechanical & Aerospace Engineering

Course Title
Instrumentation and Measurements

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students learn principles and application of mechanical instrumentation and experimentation. Topics include sensing elements, signal conditioning, data acquisition, statistical analysis of data, and instrumentation system design.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Admission to the Professional Engineering Program

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ENGR2140 - Mechanics of Materials
- ENGR2210 - Fundamental Electronics for Engineers
  OR ECE2250 - Electrical Circuits I

MAE3420 - Fluid Mechanics - 3 - Credits

Course Overview

Course Prefix
MAE

Course Number
3420

Department
Mechanical & Aerospace Engineering

Course Title
Fluid Mechanics

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students learn the application of fluid dynamic theory to inviscid and viscous, incompressible and compressible, and external and internal fluid flows, with emphasis on laminar and turbulent boundary layers.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Registration Restrictions
Admission to the Professional Engineering Program

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:
- ENGR2030 - Engineering Mechanics Dynamics
- CS1400 - Introduction to Computer Science--CS 1
  OR ECE1400 - Computer Programming for Electrical and Computer Engineers I

Prerequisite

Type
Prerequisite

Required

Fulfill ANY of the following requirements:

Option 1

Complete ALL of the following Courses:
- MATH2250 - Linear Algebra and Differential Equations (QI)

OR

Option 2

Complete ALL of the following Courses:
- MATH2270 - Linear Algebra (QI)
- MATH2280 - Ordinary Differential Equations (QI)

MAE3440 - Heat Transfer (QI) - 3 - Credits

Course Overview

Course Prefix
MAE

Course Number
3440

Department
Mechanical & Aerospace Engineering

Course Title
Heat Transfer (QI)

General Education Attribute
QI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Fundamentals of heat transfer. Steady-state and transient conduction. External and internal flow convection, free convection, boiling and condensation and heat exchangers and radiation heat transfer.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Admission to the Professional Engineering Program

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- MAE2300 - Thermodynamics I
- MAE3420 - Fluid Mechanics

MAE3600 - Engineering Professionalism and Ethics - 1 - Credits

Course Overview

Course Prefix
MAE

Course Number
3600

Department
Mechanical & Aerospace Engineering

Course Title
Engineering Professionalism and Ethics

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Seminar course introducing engineering students to the professional skills required in engineering practice. Topics address professional issues in ethics, legal responsibilities, economics, business, management, safety, environmental and societal impacts, contemporary issues, and lifelong learning.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Registration Restrictions
Admission to the Professional Engineering Program

No Requirements

MAE4300 - Machine Design - 3 - Credits

Course Overview

Course Prefix
MAE

Course Number
4300

Department
Mechanical & Aerospace Engineering

Course Title
Machine Design

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Computer-aided design and synthesis of mechanisms, mechanical linkages, cams, fasteners, welds, gears, bearings, power transmission components, and lubrication. Component failure analysis based on metal fatigue related to dynamic loading.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Admission to the Professional Engineering Program

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ENGR2140 - Mechanics of Materials
- CS1400 - Introduction to Computer Science--CS 1
  OR ECE1400 - Computer Programming for Electrical and Computer Engineers I
- MATH2250 - Linear Algebra and Differential Equations (QI)
  OR MATH2270 - Linear Algebra (QI)

MAE4400 - Fluids/Thermal Laboratory (CI) - 1 - Credits

Course Overview

Course Prefix
MAE

Course Number
4400

Department
Mechanical & Aerospace Engineering

Course Title
Fluids/Thermal Laboratory (CI)

General Education Attribute
CI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Laboratory experiences in observation and measurement of fundamental fluid and thermal phenomena.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Registration Restrictions

Admission to the Professional Engineering Program

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- MAE3340 - Instrumentation and Measurements
- MAE3440 - Heat Transfer (QI)

MAE3440 HEAT TRANSFER (QI) may be taken concurrently

MAE4800 - Capstone Design I (CI) - 3 - Credits

Course Overview

Course Prefix
MAE

Course Number
4800

Department
Mechanical & Aerospace Engineering

Course Title
Capstone Design I (CI)

General Education Attribute
CI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This is the first course in the senior design sequence. Topics include design process, teaming skills, engineering economics, project selection and management, proposal writing, technical writing, and technical presentations.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Admission to the Professional Engineering Program

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ENGR3080 - Creativity and Communication in Design (CI)
- MAE3440 - Heat Transfer (QI)
  OR MAE4300 - Machine Design

MAE4810 - Capstone Design II - 3 - Credits

Course Overview

Course Prefix
MAE

Course Number
4810

Department
Mechanical & Aerospace Engineering

Course Title
Capstone Design II

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Second course in the senior design sequence. Includes design reviews, technical reporting, and design realization.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Admission to the Professional Engineering Program

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- MAE4800 - Capstone Design I (CI)

MAE5020 - Finite Element Methods in Solid Mechanics I - 3 - Credits

Course Overview

Course Prefix
MAE

Course Number
5020

Department
Mechanical & Aerospace Engineering

Cross-Listed Courses
CEE5020 - Finite Element Methods in Solid Mechanics I

Course Title
Finite Element Methods in Solid Mechanics I

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Introduction to finite element methods and their application to the analysis and design of mechanical engineering systems.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Admission to the Professional Engineering Program

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:
- MAE3040 - Mechanics of Solids

MAE5040 - Experimental Solid Mechanics - 3 - Credits

Course Overview

Course Prefix
MAE

Course Number
5040

Department
Mechanical & Aerospace Engineering

Course Title
Experimental Solid Mechanics

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students learn experimental techniques for determining stress, strain, elastic properties, and fracture properties. Techniques include strain gauges, optical methods, digital image correlation, high-speed measurements, and nanoscale measurements.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Admission to the Professional Engineering Program

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:
- MAE3040 - Mechanics of Solids
- MAE3340 - Instrumentation and Measurements

MAE3340 INSTRUMENTATION/MEASUREMENTS may be taken concurrently

MAE5045 - Adhesion Sciences - 3 - Credits

Course Overview

Course Prefix
MAE

Course Number
5045

Department
Mechanical & Aerospace Engineering

Course Title
Adhesion Sciences

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students learn applications of adhesion in adhesives, structural adhesives, and composite materials. Topics include surface science, mechanisms of adhesion, surface treatments for bonding, adhesive materials, adhesive solidification, processing of adhesives, mechanical behavior of bonded joints, fracture mechanics of bonded joints.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Registration Restrictions
Admission to the Professional Engineering program.

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ENGR2140 - Mechanics of Materials
- MAE2160 - Material Science

Course Learning Objectives

Course Learning Outcomes
1. Adhesion mechanisms.
2. Surface science, analysis, and bond surface treatments.
3. Pertinent chemistry and polymer science to understand adhesives.
4. Adhesive behavior in fluid, gelled and vitrified states.
5. Testing of adhesives and bondlines (including viscoelasticity and fracture mechanics).
6. Adhesive selection and bonded joint design.

MAE5050 - Material Science of Composites - 3 - Credits

Course Overview

Course Prefix
MAE

Course Number
5050

Department
Mechanical & Aerospace Engineering

Course Title
Material Science of Composites

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides fundamental understanding of polymeric composites and structure-property relationships, necessary to design and manufacture composites for engineering applications.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Admission to the Professional Engineering program.

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:
- MAE2160 - Material Science
- MAE2165 - Material Science Laboratory

MAE5060 - Mechanics of Composite Materials I - 3 - Credits

Course Overview

Course Prefix
MAE

Course Number
5060

Department
Mechanical & Aerospace Engineering

Cross-Listed Courses
CEE5060 - Mechanics of Composite Materials

Course Title
Mechanics of Composite Materials I

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students study stress-strain relations for nonisotropic composites (such as fiber-reinforced plastic laminates), properties of composite materials and their uses, strength and life determination, and methods for design using composite materials.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Admission to the Professional Engineering Program

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:
- CEE3020 - Structural Analysis
  OR MAE3040 - Mechanics of Solids

MAE5300 - Vibrations - 3 - Credits

Course Overview

Course Prefix
MAE

Course Number
5300

Department
Mechanical & Aerospace Engineering

Course Title
Vibrations

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students learn vibration of single and multiple degrees of freedom; discrete mass systems; natural frequencies and mode shapes for free, damped, and undamped systems; forcing functions and transient responses; matrix methods, numerical solution, and random vibrations; and applications and design.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Registration Restrictions
Admission to the Professional Engineering Program

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:
- ENGR2030 - Engineering Mechanics Dynamics
- ENGR2140 - Mechanics of Materials

Prerequisite

Type
Prerequisite

Required

Fulfill ANY of the following requirements:

Option 1

Complete ALL of the following Courses:
- MATH2250 - Linear Algebra and Differential Equations (QI)

OR

Option 2

Complete ALL of the following Courses:
- MATH2270 - Linear Algebra (QI)
- MATH2280 - Ordinary Differential Equations (QI)

MAE5310 - Control Systems - 4 - Credits

Course Overview

Course Prefix
MAE

Course Number
5310

Department
Mechanical & Aerospace Engineering

Course Title
Control Systems

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students learn mathematical modeling of systems, including transfer function and state space representations. They study transient and steady-state responses, feedback and stability theory, and analysis and design methods of feedback controllers for single-input single output linear systems. Laboratory work required.

Credit Hours

Credit Hours
Min:
4

Contact Hours

Contact Hours
Min:
4

Billing Hours

Billing Hours
Min:
4

Lecture Hours

Lecture Hours
Min:
4

Registration Restrictions
Admission to a USU major

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Fulfill ANY of the following requirements:

Option 1

Complete ALL of the following Courses:

- ECE3620 - Continuous - Time Systems and Signals

OR

Option 2

Complete ALL of the following Courses:

- MAE3340 - Instrumentation and Measurements
- MATH2250 - Linear Algebra and Differential Equations (QI)

MAE3340 INSTRUMENTATION/MEASUREMENTS may be taken concurrently

OR

Option 3

Complete ALL of the following Courses:

- MAE3340 - Instrumentation and Measurements
- MATH2270 - Linear Algebra (QI)
- MATH2280 - Ordinary Differential Equations (QI)

MAE3340 INSTRUMENTATION/MEASUREMENTS may be taken concurrently

MAE5320 - Mechatronics - 4 - Credits

Course Overview

Course Prefix
MAE

Course Number
5320

Department
Mechanical & Aerospace Engineering

Cross-Listed Courses
ECE5320 - Mechatronics

Course Title
Mechatronics

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers principles of motion sensors and actuators. It also includes modeling, analysis, and identification of discrete-time dynamic systems. Digital controller design methods are taught. The course includes nonlinear effects and their compensation. Laboratory work is required.

Credit Hours

Credit Hours
Min:
4

Contact Hours

Contact Hours
Min:
4

Billing Hours

Billing Hours
Min:
4

Lecture Hours

Lecture Hours
Min:
4

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ECE5310 - Control Systems
  OR MAE5310 - Control Systems

MAE5330 - Small Unmanned Aircraft Systems - 3 - Credits

Course Overview

Course Prefix
MAE

Course Number
5330

Department
Mechanical & Aerospace Engineering

Cross-Listed Courses
ECE5330 - Small Unmanned Aircraft Systems

Course Title
Small Unmanned Aircraft Systems

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students develop an understanding of flight control systems, including dynamic models for aircraft, low level autopilot design, state estimation, trajectory following, and path planning.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ECE5310 - Control Systems
  OR MAE5310 - Control Systems
- ECE1410 - Computer Programming for Electrical and Computer Engineers II
  OR CS1410 - Introduction to Computer Science--CS 2 (QI)

MAE5340 - Introduction to Planning and Control for Mobile Robots - 3 - Credits

Course Overview

Course Prefix
MAE

Course Number
5340

Department
Mechanical & Aerospace Engineering

Cross-Listed Courses
ECE5340 - Introduction to Planning and Control for Mobile Robots

Course Title
Introduction to Planning and Control for Mobile Robots

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course presents a controls perspective to the fundamentals of mobile robotic motion control. Topics include basic kinematic motion models and primitives, graph-based obstacle-modeling and optimal graph-based planning, optimal sample-based planning, and vector field approaches.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ECE1410 - Computer Programming for Electrical and Computer Engineers II
  OR CS1410 - Introduction to Computer Science--CS 2 (QI)
- MATH2250 - Linear Algebra and Differential Equations (QI)
  OR MATH2280 - Ordinary Differential Equations (QI)

MAE5350 - Kinematics - 3 - Credits

Course Overview

Course Prefix
MAE

Course Number
5350

Department
Mechanical & Aerospace Engineering

Course Title
Kinematics

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces the study of the motion of rigid bodies and systems of rigid bodies. It includes the kinematic analysis of linkages, cams, and gear trains.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Other Enrollment Recommendations
Admission to the Professional Engineering Program

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ENGR2030 - Engineering Mechanics Dynamics

Prerequisite

Type
Prerequisite

Required

Fulfill ANY of the following requirements:

Option 1

Complete ALL of the following Courses:

- MATH2250 - Linear Algebra and Differential Equations (QI)

OR

Option 2

Complete ALL of the following Courses:

- MATH2270 - Linear Algebra (QI)
- MATH2280 - Ordinary Differential Equations (QI)

MAE5360 - Advanced Dynamics - 3 - Credits

Course Overview

Course Prefix
MAE

Course Number
5360

Department
Mechanical & Aerospace Engineering

Course Title
Advanced Dynamics

Grade Mode
Standard Letter

Repeat Status
NR

Course Description

Students study particle and rigid body dynamics. Topics include work and kinetic energy, conservation of energy, impulse-momentum, and conservation of linear and angular momentum as well as kinematics and kinetics in 2-D and 3-D. Newtonian and Lagrangian Mechanics are also addressed.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Admission to the Professional Engineering Program

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ENGR2030 - Engineering Mechanics Dynamics

Prerequisite

Type
Prerequisite

Required

Fulfill ANY of the following requirements:

Option 1

Complete ALL of the following Courses:

- MATH2250 - Linear Algebra and Differential Equations (QI)

OR

Option 2

Complete ALL of the following Courses:

- MATH2270 - Linear Algebra (QI)
- MATH2280 - Ordinary Differential Equations (QI)

MAE5370 - Optimization for Engineers - 3 - Credits

Course Overview

Course Prefix
MAE

Course Number
5370

Department
Mechanical & Aerospace Engineering

Course Title
Optimization for Engineers

Grade Mode
Standard Letter

Repeat Status
NR

Course Description

Students learn the mathematical theory of optimization and computational techniques for solving problems. Topics include unconstrained optimization, linear programming, integer linear programming, convex programming, and nonlinear programming. The emphasis is to develop fundamentals and capabilities for solving real-world problems.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Registration Restrictions

Admission to the Professional Engineering Program

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- MAE2450 - Engineering Numerical Methods

MAE5420 - Compressible Fluid Flow - 3 - Credits

Course Overview

Course Prefix
MAE

Course Number
5420

Department
Mechanical & Aerospace Engineering

Course Title
Compressible Fluid Flow

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students learn the application of conservation of mass, momentum, and energy to the design and analysis of compressible fluid systems. Proficiency in computer programming is essential for students enrolling in this course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Admission to the Professional Engineering Program

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- MAE2300 - Thermodynamics I
- MAE3420 - Fluid Mechanics

MAE5430 - Advanced Thermal-Fluids - 3 - Credits

Course Overview

Course Prefix
MAE

Course Number
5430

Department
Mechanical & Aerospace Engineering

Course Title
Advanced Thermal-Fluids

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students learn advanced topics in thermal-fluid sciences, building upon knowledge from thermodynamics, fluid mechanics, and heat transfer. Topics covered include fins, heat exchangers, gas mixtures, psychrometrics, combustion, exergy, gas, vapor, refrigeration cycles, minor losses, flow networks, and turbomachinery.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Admission to the Professional Engineering Program

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- MAE3440 - Heat Transfer (QI)

MAE5440 - Computational Fluid Dynamics - 3 - Credits

Course Overview

Course Prefix
MAE

Course Number
5440

Department
Mechanical & Aerospace Engineering

Course Title
Computational Fluid Dynamics

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This is an introduction to computational fluid dynamics and heat transfer using the finite-volume method. It includes extensive code development. Students apply a commercial CFD solver to a problem of interest.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Admission to the Professional Engineering Program

Simple Requisites

Prerquisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- MAE2450 - Engineering Numerical Methods
- MAE3420 - Fluid Mechanics

MAE5450 - Hybrid Energy - 3 - Credits

Course Overview

Course Prefix
MAE

Course Number
5450

Department
Mechanical & Aerospace Engineering

Course Title
Hybrid Energy

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces various renewable energy resources, nuclear energy and energy storage technologies. Fundamental principles and analysis using thermodynamics, fluid mechanics, and heat transfer are emphasized. Students explore the concept of hybrid energy systems to improve energy efficiency, increase renewable energy, and mitigate environmental impact.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Admission to the Professional Engineering Program

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- MAE3440 - Heat Transfer (QI)

MAE5460 - Combustion - 3 - Credits

Course Overview

Course Prefix
MAE

Course Number
5460

Department
Mechanical & Aerospace Engineering

Course Title
Combustion

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Introduction to chemical and physical aspects of fundamental combustion phenomena; chemical equilibrium; oxidation mechanisms; governing equations of reacting flows and modeling using Cantera software; theories of flame ignition, propagation, and extinction; new combustion and propulsion technologies.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisites

Type
Prerequisite

Required

Complete ALL of the following Courses:

- MAE2300 - Thermodynamics I
- MAE3420 - Fluid Mechanics

Course Learning Objectives

Course Learning Outcomes

Upon completion of this course, each student will be able to understand the fundamental concepts of combustion chemistry and physics as well as apply the basic principles for analyzing modern combustion and propulsion systems.

MAE5500 - Aerodynamics - 3 - Credits

Course Overview

Course Prefix
MAE

Course Number
5500

Department
Mechanical & Aerospace Engineering

Course Title
Aerodynamics

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students learn the fundamentals of incompressible, inviscid flow; aerodynamic forces and moments; airfoil characteristics; incompressible flow around two-dimensional airfoils and finite wings; three-dimensional incompressible flow; and are introduced to aircraft performance.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Admission to the Professional Engineering Program

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- MAE2450 - Engineering Numerical Methods
- MAE3420 - Fluid Mechanics

MAE5510 - Dynamics of Atmospheric Flight - 3 - Credits

Course Overview

Course Prefix
MAE

Course Number
5510

Department
Mechanical & Aerospace Engineering

Course Title
Dynamics of Atmospheric Flight

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Aircraft equations of motion; aerodynamic forces and moments; aircraft stability and control in roll, pitch, and yaw; aircraft motion with six degrees of freedom; aircraft performance and design; and design project.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Admission to the Professional Engineering Program

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- MAE5500 - Aerodynamics

MAE5520 - Elements of Space Flight - 3 - Credits

Course Overview

Course Prefix
MAE

Course Number
5520

Department
Mechanical & Aerospace Engineering

Course Title
Elements of Space Flight

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Introduction to astrodynamics and orbital design. Spacecraft systems engineering including spacecraft subsystems (e.g., attitude control, communications, power, structures). Introduction to propulsion and launch vehicles.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Admission to the Professional Engineering Program

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Fulfill ANY of the following requirements:

Option 1

Complete ALL of the following Courses:

- MAE5360 - Advanced Dynamics

OR

Option 2

Complete ALL of the following Courses:

- PHYS3550 - Intermediate Classical Mechanics

OR

Option 3

Complete ALL of the following Courses:

- ECE2290 - Electrical Circuits II
- ECE2700 - Digital Circuits

MAE5530 - Space System Design - 3 - Credits

Course Overview

Course Prefix
MAE

Course Number
5530

Department
Mechanical & Aerospace Engineering

Cross-Listed Courses
ECE5235 - Space System Design

Course Title
Space System Design

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students in teams perform a space system design involving all aspects, including technical, cost, and schedule. The class is linked to national design competitions and/or current USU spacecraft design projects.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Admission to a USU major

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ECE5230 - Spacecraft Systems Engineering
  OR MAE5520 - Elements of Space Flight
  OR ECE6230 - Spacecraft Systems Engineering

MAE5540 - Propulsion Systems - 3 - Credits

Course Overview

Course Prefix
MAE

Course Number
5540

Department
Mechanical & Aerospace Engineering

Course Title
Propulsion Systems

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Fundamentals of rocket and air breathing propulsion, including space flight dynamics, nozzle theory, combustion processes, and flight performance. Rocket propulsion systems, including solid, liquid, hybrid, and combined cycles. Air breathing propulsion systems, including ramjet, scramjet, turbojet, and turbofan engine concepts.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Admission to the Professional Engineering Program

Other Enrollment Recommendations
While not required, it is highly recommended that students take MAE5420 COMPRESSIBLE FLUID FLOW prior to taking this course.

Simple Requisites

Prerequisites

Type
Prerequisite

Required

Complete ALL of the following Courses:
- MAE2300 - Thermodynamics I
  AND MAE3420 - Fluid Mechanics

MAE5550 - Introduction to Aircraft Structures - 3 - Credits

Course Overview

Course Prefix
MAE

Course Number
5550

Department
Mechanical & Aerospace Engineering

Course Title
Introduction to Aircraft Structures

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course is an introduction to aircraft structure with an emphasis on the following: evolution of aircraft structures, basic structural components, analysis of loads and mechanics of different components, repair concepts, damage assessment and classification, and NDI methods.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Admission to the Professional Engineering Program

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:
- MAE3040 - Mechanics of Solids

Course Learning Objectives

Course Learning Outcomes

1. This course is designed to provide students with a broad understanding aircraft design, usage, and the sustainment paradigms associated with maintaining their safety.
2. In addition, extensive insight will be provided on the understanding of requirements and the development of permanent, Damage Tolerant repairs.
3. Additional information will be provided on specific areas of Non-Destructive Inspection (NDI) methods, failure analysis of metallic parts, and the application of advanced Linear Elastic Fracture Mechanics (LEFM) principles.

MAE5560 - Dynamics of Space Flight - 3 - Credits

Course Overview

Course Prefix
MAE

Course Number
5560

Department
Mechanical & Aerospace Engineering

Course Title
Dynamics of Space Flight

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Course Description:This course covers the fundamentals of spacecraft dynamics, including Keplerian orbits, orbital position as a function of time, three-dimensional orbits, orbital determination, orbital maneuvers, satellite attitude dynamics, and rocket vehicle dynamics.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Admission to the Professional Engineering Program

Other Enrollment Recommendations
While not required, it is highly recommended that students take MAE5360 ADV DYNAMICS prior to taking this course.

MAE5700 - Introduction to Microfabrication - 3 - Credits

Course Overview

Course Prefix
MAE

Course Number
5700

Department
Mechanical & Aerospace Engineering

Cross-Listed Courses
BENG5700 - Introduction to Microfabrication, ECE5700 - Introduction to Microfabrication, PHYS5700 - Introduction to Microfabrication

Course Title
Introduction to Microfabrication

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers materials, wet chemical cleaning and etch, photolithography, metal deposition, doping, carrier density and conductivity, microfluidics, and micro-electronic-mechanical-systems.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Admission to the Professional Engineering Program

Special Approval
Instructor permission

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- PHYS2210 - Physics for Scientists and Engineers I (QI/BPS)
  OR PHYS2310 - Physics for Scientists I (BPS)

- PHYS2215 - Physics for Scientists and Engineers Lab I
- PHYS2220 - Physics for Scientists and Engineers II (BPS/QI) **OR** PHYS2320 - Physics for Scientists II (BPS)
- PHYS2225 - Physics for Scientists and Engineers Lab II

MAE5900 - Cooperative Practice - 3 - Credits

Course Overview

Course Prefix
MAE

Course Number
5900

Department
Mechanical & Aerospace Engineering

Course Title
Cooperative Practice

Grade Mode
Pass/Fail

Repeat Status
NR

Course Description
Planned work experience in industry. Detailed program must have prior approval. Written report required.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Registration Restrictions
Admission to the Professional Engineering Program

No Requirements

MAE5930 - Special Problems - 1 - 3 Credits

Course Overview

Course Prefix
MAE

Course Number
5930

Department
Mechanical & Aerospace Engineering

Course Title
Special Problems

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Formulation and solution of practical or theoretical problems.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

Registration Restrictions
Admission to the Professional Engineering Program

Special Approval
Permission of department head

MAE6010 - Finite Element Methods in Solid Mechanics II - 3 - Credits

Course Overview

Course Prefix
MAE

Course Number
6010

Department
Mechanical & Aerospace Engineering

Course Title
Finite Element Methods in Solid Mechanics II

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Advanced theory and applications of finite element methods to both static and dynamic solid mechanics problems.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- MAE5020 - Finite Element Methods in Solid Mechanics I

MAE6030 - Metal Additive Manufacturing - 3 - Credits

Course Overview

Course Prefix
MAE

Course Number
6030

Department
Mechanical & Aerospace Engineering

Course Title
Metal Additive Manufacturing

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course discusses the materials science and engineering of the novel metal additivemanufacturing techniques. Topics relevant to the process-structure-property relationships in metal additive manufacturing will be presented under three distinct series throughout.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. This course discusses the materials science and engineering of the novel metal additive manufacturing techniques.
2. Topics relevant to the process-structure-property relationships in metal additive manufacturing will be presented under three distinct series throughout.
3. Under each of those, we will focus on topics such as the production of powders used in the powder bed fusion technology, the origins of defects and their characterization, as well as the expected material properties resulting from additive manufacturing technologies.

MAE6040 - Continuum Mechanics and Elasticity - 3 - Credits

Course Overview

Course Prefix
MAE

Course Number
6040

Department
Mechanical & Aerospace Engineering

Course Title
Continuum Mechanics and Elasticity

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Mechanics of continuous media; tensors, stress, strain, deformation, rate equations, and constitutive equations. Plane stress, plane strain, torsion, and bending theories, as well as problem solutions, investigated for linear elastic materials.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- MAE3040 - Mechanics of Solids
- MATH2210 - Multivariable Calculus (QI)
- MATH2250 - Linear Algebra and Differential Equations (QI)

MAE6050 - Manufacturing of Composite Materials and Structures - 3 - Credits

Course Overview

Course Prefix
MAE

Course Number
6050

Department
Mechanical & Aerospace Engineering

Course Title
Manufacturing of Composite Materials and Structures

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers the practical application and theory of basic composite manufacturing processes.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- MAE5050 - Material Science of Composites

MAE6055 - Testing of Composite Materials - 3 - Credits

Course Overview

Course Prefix
MAE

Course Number
6055

Department
Mechanical & Aerospace Engineering

Course Title
Testing of Composite Materials

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides the practical application and theory of basic composite testing processes.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- MAE5060 - Mechanics of Composite Materials I

MAE6060 - Micro-Mechanics of Deformation - 3 - Credits

Course Overview

Course Prefix
MAE

Course Number
6060

Department
Mechanical & Aerospace Engineering

Course Title
Micro-Mechanics of Deformation

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This graduate elective covers the overlap between material science and solid mechanics. Topics include deformation of single crystals, slip in poly-crystals, dislocation motion, strengthening mechanisms, and deformation at high temperature.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- MAE3040 - Mechanics of Solids
- MAE2160 - Material Science

MAE6061 - Micro-Mechanisms of Failure - 3 - Credits

Course Overview

Course Prefix
MAE

Course Number
6061

Department
Mechanical & Aerospace Engineering

Course Title

Micro-Mechanisms of Failure

Grade Mode
Standard Letter

Repeat Status
NR

Course Description

This graduate elective covers the overlap between material science and solid mechanics. Topics include fracture, fatigue, toughening mechanisms, creep/ rupture, and embrittlement.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- MAE2160 - Material Science
- MAE3040 - Mechanics of Solids

MAE6070 - Mechanics of Composite Materials II - 3 - Credits

Course Overview

Course Prefix
MAE

Course Number
6070

Department
Mechanical & Aerospace Engineering

Cross-Listed Courses

CEE6070 - Mechanics of Composite Materials II

Course Title

Mechanics of Composite Materials II

Grade Mode
Standard Letter

Repeat Status
NR

Course Description

Second course in composite materials. Stress-strain states of laminated composite structures, including interlaminar stresses, failure criteria, and hygrothermal stresses.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- MAE5060 - Mechanics of Composite Materials I

MAE6090 - Theory of Plates and Shells - 3 - Credits

Course Overview

Course Prefix
MAE

Course Number
6090

Department
Mechanical & Aerospace Engineering

Cross-Listed Courses
CEE6090 - Theory of Plates and Shells

Course Title
Theory of Plates and Shells

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces plate and shell theories, including development of bending and buckling of plates and shells through classical theory.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- MAE3040 - Mechanics of Solids
  OR CEE3020 - Structural Analysis

MAE6130 - Structural Dynamics and Seismic Design - 3 - Credits

Course Overview

Course Prefix
MAE

Course Number
6130

Department
Mechanical & Aerospace Engineering

Cross-Listed Courses
CEE6130 - Structural Dynamics and Seismic Design

Course Title
Structural Dynamics and Seismic Design

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Development and solutions for equations of motion for single- and multi-degree of freedom systems. Dynamic analysis by Modal Superposition and Response Spectra. Design of structures for seismically active areas.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

MAE6180 - Dynamics and Vibrations - 3 - Credits

Course Overview

Course Prefix
MAE

Course Number
6180

Department
Mechanical & Aerospace Engineering

Cross-Listed Courses
CEE6180 - Dynamics and Vibrations

Course Title
Dynamics and Vibrations

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Fundamentals of two-dimensional and three-dimensional rigid body dynamics, including Newtonian, Lagrangian, and Leavit Energy Methods. Equations of motion, mode shapes, and natural frequencies for continuous media and multi degree-of-freedom systems.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- MAE5300 - Vibrations
  OR CEE6130 - Structural Dynamics and Seismic Design
  OR MAE6130 - Structural Dynamics and Seismic Design
  OR MAE5360 - Advanced Dynamics

MAE6200 - Mathematical Methods in Aerospace Engineering - 3 - Credits

Course Overview

Course Prefix
MAE

Course Number
6200

Department
Mechanical & Aerospace Engineering

Course Title
Mathematical Methods in Aerospace Engineering

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers linear algebra (including vector spaces, eigenvalues/vectors, and set theory), differential equations (ODEs and PDEs with integral method analysis), and probability and statistics (including fundamentals of experiment design) framed in an analytical and numerical engineering context.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Course Learning Objectives

Course Learning Outcomes
The goal of this course is for students to review and engage more deeply with the mathematics used in graduate-level engineering courses.

Upon successful completion of this course, students will be able to analytically and/or numerically solve engineering problems involving:

1. First- and Second-Order Linear Ordinary Differential Equations
2. Fourier Analysis – Including Solving Partial Differential Equations
3. Probability and Statistics – Including Design of Experiments

MAE6320 - Linear Multivariable Control - 3 - Credits

Course Overview

Course Prefix
MAE

Course Number
6320

Department
Mechanical & Aerospace Engineering

Cross-Listed Courses
ECE6320 - Linear Multivariable Control

Course Title
Linear Multivariable Control

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Modeling, analysis, and design of multi-input, multi-output control systems, including both state space and transfer matrix approaches, with an emphasis on stability.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ECE5310 - Control Systems
  OR MAE5310 - Control Systems

MAE6330 - Robust Control - 3 - Credits

Course Overview

Course Prefix
MAE

Course Number
6330

Department
Mechanical & Aerospace Engineering

Course Title
Robust Control

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers the concepts of model uncertainty, robustness, and robust control design, including H-infinity, H2 control, and applications of robust control on various dynamical systems.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ECE6320 - Linear Multivariable Control
  OR MAE6320 - Linear Multivariable Control

Course Learning Objectives

Course Learning Outcomes

1. Students will be prepared to recognize the uncertainty of the mathematical model, identify the system uncertainty source, utilize computer-aided methods to analyze the robustness, synthesize robust controllers for commonly-seen dynamical systems.
2. The students will be ready for future research on dynamical systems and industrial jobs dealing with the uncertain systems.

MAE6340 - Spacecraft Attitude Control Theory - 3 - Credits

Course Overview

Course Prefix
MAE

Course Number
6340

Department
Mechanical & Aerospace Engineering

Cross-Listed Courses
ECE6340 - Spacecraft Attitude Control Theory

Course Title
Spacecraft Attitude Control Theory

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers spacecraft attitude dynamics and controls, including spin stabilized, three axis, dual spin modes, and attitude determination techniques.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ECE5310 - Control Systems
  OR MAE5310 - Control Systems

MAE6410 - Fluid Dynamics - 3 - Credits

Course Overview

Course Prefix
MAE

Course Number
6410

Department
Mechanical & Aerospace Engineering

Course Title
Fluid Dynamics

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Basic laws of fluid motion, Navier Stokes equations, kinematics of the flow field, fundamental exact solutions of viscous flow, and elements of turbulence.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- MAE3420 - Fluid Mechanics
  OR CEE3500 - Civil and Environmental Engineering Fluid Mechanics

MAE6420 - Mechanical Engineering Experiments - 3 - Credits

Course Overview

Course Prefix
MAE

Course Number
6420

Department
Mechanical & Aerospace Engineering

Course Title
Mechanical Engineering Experiments

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Topics include experimental design, digital data acquisition, Fourier transforms, uncertainty analysis, writing and presentation, and some specific measurement techniques of interest to mechanical engineers.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- MAE3340 - Instrumentation and Measurements

MAE6430 - Boundary Layer Theory and Convection Heat Transfer - 3 - Credits

Course Overview

Course Prefix
MAE

Course Number
6430

Department
Mechanical & Aerospace Engineering

Course Title
Boundary Layer Theory and Convection Heat Transfer

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Derivation of the boundary layer equations. Exact, approximate, and numerical solution techniques. Boundary layers in compressible flow. Separation. Unsteady boundary layers. Stability and transition. Turbulent boundary layers. Integral, differential, and numerical methods for solving problems associated with transfer of heat in a viscous fluid.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- MAE3440 - Heat Transfer (QI)
- MAE6410 - Fluid Dynamics

MAE6440 - Advanced Computational Fluid Dynamics - 3 - Credits

Course Overview

Course Prefix
MAE

Course Number
6440

Department
Mechanical & Aerospace Engineering

Course Title
Advanced Computational Fluid Dynamics

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Advanced topics in computational fluid dynamics using the finite-volume method, compressible flow algorithms including body-fitted nonorthogonal grids, linear solvers, turbulence modeling, and parallel computing. Includes extensive code development.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- MAE5440 - Computational Fluid Dynamics
- MAE6410 - Fluid Dynamics

MAE6450 - Thermodynamics - 3 - Credits

Course Overview

Course Prefix
MAE

Course Number
6450

Department
Mechanical & Aerospace Engineering

Course Title
Thermodynamics

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Topics in classical and statistical thermodynamics, including distribution functions, free molecular flow, electron and photon gas modeling, derived properties of solids, and thermodynamic applications in areas of current research interest.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- MAE3440 - Heat Transfer (QI)

MAE6460 - Conduction and Radiation Heat Transfer - 3 - Credits

Course Overview

Course Prefix
MAE

Course Number
6460

Department
Mechanical & Aerospace Engineering

Course Title
Conduction and Radiation Heat Transfer

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers integral, differential, and numerical methods for solving engineering problems associated with the diffusion of heat in a rigid solid, in addition to radiation theory and applications.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- MAE3440 - Heat Transfer (QI)

MAE6490 - Turbulence - 3 - Credits

Course Overview

Course Prefix
MAE

Course Number
6490

Department
Mechanical & Aerospace Engineering

Course Title
Turbulence

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Fundamentals of turbulent flows, emphasizing governing equations, stochastic methods, and analytical study of canonical configurations (homogeneous turbulence, jets, boundary layers), supplemented by selected topics in modeling, transport, and friction.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- MAE6410 - Fluid Dynamics

MAE6500 - Potential Flow - 3 - Credits

Course Overview

Course Prefix
MAE

Course Number
6500

Department
Mechanical & Aerospace Engineering

Course Title
Potential Flow

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Inviscid, irrotational fluid flow with emphasis on aircraft analysis and design. Exact solutions with complex variables and conformal mapping; perturbation methods; singularity elements and influence coefficients; lifting-line method; numerical vortex lattice method; numerical panel methods; and software design and development.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- MAE5500 - Aerodynamics

MAE6510 - Aircraft Dynamics and Flight Simulation - 3 - Credits

Course Overview

Course Prefix
MAE

Course Number
6510

Department
Mechanical & Aerospace Engineering

Course Title
Aircraft Dynamics and Flight Simulation

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Aircraft control and maneuverability, control response and transfer functions, nonlinear dynamics with gyroscopic and aerodynamic coupling, Euler angle formulations, direction cosine formulation, quaternion formulation, numerical integration methods, software design and development.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- MAE5510 - Dynamics of Atmospheric Flight

MAE6530 - Propulsion Systems - 3 - Credits

Course Overview

Course Prefix
MAE

Course Number
6530

Department
Mechanical & Aerospace Engineering

Course Title
Propulsion Systems

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Fundamentals of rocket and air-breathing propulsion, covering thermodynamics, combustion, nozzle theory, performance, and space mission. Topics include solid, liquid, and hybrid rockets; nuclear and electric propulsion, turbojets, turbofans, afterburners; and advanced engine concepts.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- MAE5420 - Compressible Fluid Flow

MAE6540 - Cislunar Astrodynamics and Distributed Space Systems - 3 - Credits

Course Overview

Course Prefix
MAE

Course Number
6540

Department
Mechanical & Aerospace Engineering

Course Title
Cislunar Astrodynamics and Distributed Space Systems

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Course discusses advanced topics in astrodynamics, including: dynamical systems theory as it pertains to astrodynamics, satellite maneuvers, coverage, constellations, spacecraft relative motion, the restricted three-body problem, and space mission planning. Implementation of numerical methods relevant to these topics is emphasized.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:
- MAE5560 - Dynamics of Space Flight

MAE6560 - Spacecraft Navigation - 3 - Credits

Course Overview

Course Prefix
MAE

Course Number
6560

Department
Mechanical & Aerospace Engineering

Cross-Listed Courses
ECE6560 - Spacecraft Navigation

Course Title
Spacecraft Navigation

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Fundamentals of aircraft and spacecraft navigation systems. Techniques in celestial and inertial navigation. Global Positioning System (GPS) principles. Least squares estimation and Kalman filtering for optimal estimation of stochastic systems.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ANY of the following Courses:
- MAE5310 - Control Systems
  OR ECE5310 - Control Systems
  OR MAE5560 - Dynamics of Space Flight

MAE6570 - Optimal Spacecraft Guidance - 3 - Credits

Course Overview

Course Prefix
MAE

Course Number
6570

Department
Mechanical & Aerospace Engineering

Cross-Listed Courses
ECE6570 - Optimal Spacecraft Guidance

Course Title
Optimal Spacecraft Guidance

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers theory and implementation of spacecraft guidance laws including Q-guidance, Apollo-era guidance, Shuttle-era guidance, linear quadratic framework, and modern guidance using convex optimization. Emphases are modeling, formulation of tractable optimization problems, and implementation of real-time algorithms.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:
- MATH2210 - Multivariable Calculus (QI)

Prerequisite

Type
Prerequisite

Required

Fulfill ANY of the following requirements:

Option 1

Complete ALL of the following Courses:
- MATH2250 - Linear Algebra and Differential Equations (QI)

OR

Option 2

Complete ALL of the following Courses:
- MATH2270 - Linear Algebra (QI)
- MATH2280 - Ordinary Differential Equations (QI)

MAE6670 - Fracture Mechanics - 3 - Credits

Course Overview

Course Prefix
MAE

Course Number
6670

Department
Mechanical & Aerospace Engineering

Course Title
Fracture Mechanics

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers linear elastic and elastic-plastic fracture mechanics; micro-mechanisms of fracture in metals, polymers, ceramics, composites, and concrete; and failure analysis of engineering.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- MAE2160 - Material Science
- MAE3040 - Mechanics of Solids

MAE6930 - Special Problems - 1 - 3 Credits

Course Overview

Course Prefix
MAE

Course Number
6930

Department
Mechanical & Aerospace Engineering

Course Title
Special Problems

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Independent or group study of engineering problems not covered in regular course offerings.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

No Requirements

MAE6950 - Design Project - 3 - Credits

Course Overview

Course Prefix
MAE

Course Number
6950

Department
Mechanical & Aerospace Engineering

Course Title
Design Project

Grade Mode
Temporary Pass/Fail

Repeat Status
NR

Course Description
Individual projects involving the design, development, and/or testing of components, devices, or systems. Formal report required.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

MAE6970 - Thesis Research - 1 - 9 Credits

Course Overview

Course Prefix
MAE

Course Number
6970

Department
Mechanical & Aerospace Engineering

Course Title
Thesis Research

Grade Mode
Temporary Pass/Fail

Repeat Status
RP

Course Description
This course is designed for students preparing a master's degree thesis.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
9

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
9

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
9

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
9

Lecture Hours Operator:
TO

No Requirements

MAE6990 - Continuing Graduate Advisement - 1 - 12 Credits

Course Overview

Course Prefix
MAE

Course Number
6990

Department
Mechanical & Aerospace Engineering

Course Title
Continuing Graduate Advisement

Grade Mode
Temporary Pass/Fail

Repeat Status
RP

Course Description
This course provides graduate students with continued support and advisement. It is usually taken following completion of all coursework required for the degree.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
12

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
12

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
12

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
12

Lecture Hours Operator:
TO

No Requirements

MAE7330 - Nonlinear and Adaptive Control - 3 - Credits

Course Overview

Course Prefix
MAE

Course Number
7330

Department
Mechanical & Aerospace Engineering

Cross-Listed Courses
ECE7330 - Nonlinear and Adaptive Control

Course Title
Nonlinear and Adaptive Control

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Methods of nonlinear and adaptive control system design and analysis. Includes qualitative and quantitative theories, graphical methods, frequency domain methods, sliding surface design, linear parameter estimation methods, and direct and indirect adaptive control techniques.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ECE6320 - Linear Multivariable Control
  OR MAE6320 - Linear Multivariable Control

MAE7360 - Optimal Control - 3 - Credits

Course Overview

Course Prefix
MAE

Course Number
7360

Department
Mechanical & Aerospace Engineering

Cross-Listed Courses
ECE7360 - Optimal Control

Course Title
Optimal Control

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students learn advanced methods of control system analysis and design. These include operator approaches to optimal control, such as LQR, LQG, and L1 optimization techniques.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ECE6320 - Linear Multivariable Control
  OR MAE6320 - Linear Multivariable Control

MAE7380 - Advanced Dynamics and Vibrations - 3 - Credits

Course Overview

Course Prefix
MAE

Course Number
7380

Department
Mechanical & Aerospace Engineering

Course Title
Advanced Dynamics and Vibrations

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Advanced techniques in dynamics and vibrations.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- CEE6180 - Dynamics and Vibrations
  OR MAE6180 - Dynamics and Vibrations

MAE7540 - Astrodynamic Perturbations and Propagation - 3 - Credits

Course Overview

Course Prefix
MAE

Course Number
7540

Department
Mechanical & Aerospace Engineering

Course Title
Astrodynamic Perturbations and Propagation

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Course emphasizes high-fidelity modeling and orbit propagation. Modeling topics include multibody dynamics, nonuniform mass models, atmospheric drag, and solar radiation pressure. Propagation topics include coordinate selection, Lagrange's and Gauss' planetary equations, and numerical techniques such as Encke's method.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- MAE5560 - Dynamics of Space Flight

MAE7560 - Optimal Estimation for Aerospace Systems - 3 - Credits

Course Overview

Course Prefix
MAE

Course Number
7560

Department
Mechanical & Aerospace Engineering

Cross-Listed Courses
ECE7560 - Optimal Estimation for Aerospace Systems

Course Title
Optimal Estimation for Aerospace Systems

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers probability theory, stochastic system models, optimal estimation for linear systems, optimal smoothing, and optimal estimation for nonlinear systems. Applications of these concepts include orbit determination, real-time position, velocity, and attitude determination for rockets, aircraft, and spacecraft.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete at least 1 of the following courses:

- MAE5310 - Control Systems
- MAE6320 - Linear Multivariable Control
- ECE5310 - Control Systems
- ECE6320 - Linear Multivariable Control
- MAE6560 - Spacecraft Navigation

- ECE6010 - Stochastic Processes in Electronic Systems

MAE7750 - Distributed Control - 3 - Credits

Course Overview

Course Prefix
MAE

Course Number
7750

Department
Mechanical & Aerospace Engineering

Cross-Listed Courses
ECE7750 - Distributed Control

Course Title
Distributed Control

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students learn the analysis and synthesis of distributed controllers for multi-agent systems with different levels of complexity and objectives. Topics include graph theory, output regulation, and synchronization problems spanning consensus/ formation of single integrators to cooperative output regulation of uncertain dynamics.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ECE6320 - Linear Multivariable Control
  OR MAE6320 - Linear Multivariable Control

Course Learning Objectives

Course Learning Outcomes

1. Students shall understand the classification of multi-agent systems and control schemes, the fundamentals of graph theory, how to model information exchange between agents by undirected and directed graphs, and the relationship between the algebraic connectivity of graphs and consensus-like global objectives of single integrator agents and the convergence rate.
2. Students should be able to conduct mathematical analysis for consensus, forced consensus, and formation with single integrator agents and demonstrate the theory with simulations. They shall develop the ability to analyze the stabilizability and detectability of the networked systems and to apply graph theory, linear systems theory, linear algebra, LQR, and the Kronecker product to the analysis and synthesis of distributed controllers enabling the synchronization of networks of high-order LTI systems.
3. Students shall understand the (robust) linear output regulation theory, including the Sylvester and regulator equations, the solvability of the output regulation problems, and the feedforward and p-copy internal model approaches for state and output feedback controllers. They shall develop the skills to recognize, formulate, and solve output regulation problems by feedforward and internal model approach-based controllers. In the simulations, they should be able to tune the control parameters by utilizing modern control techniques, such as eigenvalue assignment and LQR, to meet the given performance requirements of the physical systems.
4. Students shall understand the cooperative output regulation of heterogeneous multi-agent systems. They shall develop the ability to apply graph theory and linear output regulation theory to the analysis and synthesis of distributed controllers.
5. Students shall develop the skills to conduct rigorous mathematical analysis for given linear systems, distributed control laws, and the problem. They shall develop the background needed to study, understand, and evaluate recent research articles in distributed control.

MAE7930 - Special Problems - 1 - 3 Credits

Course Overview

Course Prefix
MAE

Course Number
7930

Department
Mechanical & Aerospace Engineering

Course Title
Special Problems

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Independent or group study of engineering problems not covered in regular course offerings.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

No Requirements

MAE7970 - Dissertation Research - 1 - 12 Credits

Course Overview

Course Prefix
MAE

Course Number
7970

Department
Mechanical & Aerospace Engineering

Course Title
Dissertation Research

Grade Mode
Temporary Pass/Fail

Repeat Status
RP

Course Description
This course consists of individual work on research problems for students enrolled in doctoral programs.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
12

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
12

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
12

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
12

Lecture Hours Operator:
TO

No Requirements

MAE7990 - Continuing Graduate Advisement - 1 - 12 Credits

Course Overview

Course Prefix
MAE

Course Number
7990

Department
Mechanical & Aerospace Engineering

Course Title
Continuing Graduate Advisement

Grade Mode
Temporary Pass/Fail

Repeat Status
RP

Course Description
This course provides graduate students with continued support and advisement. It is usually taken following completion of all coursework required for the degree.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
12

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
12

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
12

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
12

Lecture Hours Operator:
TO

No Requirements

MATH0923 - Mathematics Skills Review - - Credits

Course Overview

Course Prefix
MATH

Course Number
0923

Department
Mathematics & Statistics

Course Title
Mathematics Skills Review

Grade Mode
Non-gradable

Repeat Status
NR

Course Description
This course is a review of mathematics skills for USU students returning from an extended absences from USU, or students whose prerequisites for courses up to Calculus are more than two years (six consecutive semesters) old.

Credit Hours

Credit Hours
Min:
0

Contact Hours

Contact Hours
Min:
0

Billing Hours

Billing Hours
Min:
0

Lecture Hours

Lecture Hours
Min:
0

No Requirements

MATH0950 - Pre-algebra - 4 - Credits

Course Overview

Course Prefix
MATH

Course Number
0950

Department
Mathematics & Statistics

Course Title
Pre-algebra

Grade Mode
Remedial

Repeat Status
NR

Course Description
Students learn calculations involving whole numbers, decimals, fractions, proportions, ratios, percents and exponents; order of operations; elementary statistics; measurement systems and conversions; perimeter, area and volumes of geometric figures; and an introduction to concepts of algebra.

Credit Hours

Credit Hours
Min:
4

Contact Hours

Contact Hours
Min:
4

Billing Hours

Billing Hours
Min:
4

Lecture Hours

Lecture Hours
Min:
4

No Requirements

MATH0995 - College Mathematics Preparation - 4 - Credits

Course Overview

Course Prefix
MATH

Course Number
0995

Department
Mathematics & Statistics

Course Title
College Mathematics Preparation

Grade Mode
Remedial

Repeat Status
NR

Course Description
Students review concepts including manipulating and simplifying expressions; solving and graphing equations and inequalities; linear, quadratic, polynomial, rational, exponential, and radical functions, with real-world applications. This remedial class does not carry USU or transfer credit; a course fee is required.

Credit Hours

Credit Hours Min:
4

Contact Hours

Contact Hours Min:
4

Billing Hours

Billing Hours Min:
4

Lecture Hours

Lecture Hours Min:
4

No Requirements

MATH1020 - Trade Mathematics - 3 - Credits

Course Overview

Course Prefix
MATH

Course Number
1020

Department
Mathematics & Statistics

Course Title
Trade Mathematics

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Designed to cover quantitative skills needed by students who are enrolled in auto mechanics, diesel mechanics, electronics, machine tool technology, and welding. Emphasis is placed on solving problems related to the technical fields.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

One of the following within the last two years or six consecutive semesters (including summers):

Fulfill ANY of the following requirements:

Coursework

Earn a minimum grade of C- in the following:

- MATH0950 - Pre-algebra

OR

Exams

Prerequisite fulfilled by Exam

- ACT Math score of 17 or higher or equivalent SAT Math score
- Satisfactory score on the ALEKS Math Placement Exam

MATH1030 - Quantitative Reasoning (QL) - 3 - Credits

Course Overview

Course Prefix
MATH

Course Number
1030

Department
Mathematics & Statistics

Course Title
Quantitative Reasoning (QL)

General Education Attribute
QL

Grade Mode
Standard Letter

Repeat Status
NR

Course Description

This is a general education course open to all students, and covers a range of mathematical topics as they apply to real-world situations such as population changes, civic engagement, and financial matters..

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

MATH1050 - College Algebra (QL) - 4 - Credits

Course Overview

Course Prefix
MATH

Course Number
1050

Department
Mathematics & Statistics

Course Title
College Algebra (QL)

General Education Attribute
QL

Grade Mode
Standard Letter

Repeat Status
NR

Course Description

Students study functions, graphs and applications of functions with an emphasis on polynomial, exponential, and logarithmic functions. Students will also solve equations involving these functions, systems of linear and non-linear equations, and partial fractions.

Credit Hours

Credit Hours
Min:
4

Contact Hours

Contact Hours
Min:
4

Billing Hours

Billing Hours
Min:
4

Lecture Hours

Lecture Hours
Min:
4

Simple Requisites

Prerequisite

Type
Prerequisite

Required

One of the following within the last two years or six consecutive semesters (including summer):

Fulfill ANY of the following requirements:

Coursework

Earn a minimum grade of C- in the following:

- MATH0995 - College Mathematics Preparation

OR

Exam

Prerequisite fulfilled by Exam

- ACT Math score of 23 or equivalent SAT Math score
- Satisfactory score on the ALEKS Math Placement Exam

MATH1051 - Classical Algebra for Teachers (QL) - 4 - Credits

Course Overview

Course Prefix
MATH

Course Number
1051

Department
Mathematics & Statistics

Course Title
Classical Algebra for Teachers (QL)

General Education Attribute
QL

Grade Mode
Standard Letter

Repeat Status
NR

Course Description

This course leads preservice elementary school teachers to develop a depth-over-breadth conceptual understanding of classical algebra. Topics include naive set theory, polynomial expressions and equations with visual models, functions, and analytic geometry.

Credit Hours

Credit Hours
Min:
4

Contact Hours

Contact Hours
Min:
4

Billing Hours

Billing Hours
Min:
4

Lecture Hours

Lecture Hours
Min:
4

Registration Restrictions

Admission to one of the following majors:

- Elementary Education
- Elementary Education (Pre-Program)
- Early Childhood Education
- Early Childhood Education (Pre-Program)
- Special Education
- Special Education (Pre-Program)

Simple Requisites

Prerequisite

Type
Prerequisite

Required

One of the following within the last two years or six consecutive semesters (including summers):

Fulfill ANY of the following requirements:

Coursework

Earn a minimum grade of C- in the following:

- MATH0995 - College Mathematics Preparation

OR

Exams

Prerequisite fulfilled by Exam

- Math ACT score of at least 23 or equivalent Math SAT score
- Satisfactory score on the ALEKS Math Placement Exam

MATH1060 - Trigonometry - 2 - Credits

Course Overview

Course Prefix
MATH

Course Number
1060

Department
Mathematics & Statistics

Course Title
Trigonometry

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students learn trigonometric functions, equations, identities, and applications. A graphing calculator required.

Credit Hours

Credit Hours Min:
2

Contact Hours

Contact Hours Min:
2

Billing Hours

Billing Hours Min:
2

Lecture Hours

Lecture Hours Min:
2

Simple Requisites

Prerequisite

Type
Prerequisite

Required

One of the following within the last two years or six consecutive semesters (including summers):

Fulfill ANY of the following requirements:

Coursework

Earn a minimum grade of C- in the following:

- MATH0995 - College Mathematics Preparation
  OR MATH1050 - College Algebra (QL)

OR

Exams

Prerequisite fulfilled by Exam

- ACT Math score of at least 23 or equivalent SAT Math Score
- Satisfactory score on the ALEKS Math Placement Exam

MATH1100 - Calculus Techniques (QL) - 3 - Credits

Course Overview

Course Prefix
MATH

Course Number
1100

Department
Mathematics & Statistics

Course Title
Calculus Techniques (QL)

General Education Attribute
QL

Grade Mode
Standard Letter

Repeat Status
NR

Course Description

Techniques of elementary calculus, differentiation, integration, elementary optimization, and introduction to partial derivatives. Applications in business, social science, and natural resources. Graphing calculator required.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

One of the following courses or exams within the last two years or six consecutive semesters (including summers):

Fulfill ANY of the following requirements:

Coursework

Earn a minimum grade of C- in the following:

- MATH1050 - College Algebra (QL)
  OR MATH1051 - Classical Algebra for Teachers (QL)

OR

Exams

Prerequisite fulfilled by Exam

- ACT Math score of at least 25 or equivalent SAT Math Score
- Satisfactory score on the ALEKS Math Placement Exam
- Sufficient score on AP Exam equivalent to MATH1050 COLLEGE ALGEBRA (QL) or higher

MATH1170 - Modeling Change: Calculus in Life and Society - 4 - Credits

Course Overview

Course Prefix
MATH

Course Number
1170

Department
Mathematics & Statistics

Course Title
Modeling Change: Calculus in Life and Society

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Builds and analyzes mathematical models to represent systems that change over time, with applications to ecology, economics, physiology, epidemiology, and everyday life. Includes model construction and simulation, basic differential and integral calculus, Euler's method, vector fields, equilibrium points, and stability.

Credit Hours

Credit Hours Min:
4

Contact Hours

Contact Hours Min:
4

Billing Hours

Billing Hours Min:
4

Lecture Hours

Lecture Hours Min:
4

Simple Requisites

Prerequisite

Type
Prerequisite

Required

One of the following courses or exams within the last two years or six consecutive semesters (including summers):

Fulfill ANY of the following requirements:

Coursework

Earn a minimum grade of C- in the following:

- MATH1050 - College Algebra (QL)
  OR MATH1051 - Classical Algebra for Teachers (QL)

OR

Exams

Prerequisite may be fulfilled by one of the following exams:

- ACT Math score of at least 25 or equivalent SAT Math Score
- Satisfactory score on the ALEKS Math Placement Exam
- Sufficient score on AP Exam equivalent to MATH1050 COLLEGE ALGEBRA (QL) or higher

Course Learning Objectives

Course Learning Outcomes

1. Apply functions and other pre-calculus mathematics proficiently.
2. Construct and analyze discrete-time and continuous-time models.
3. Use computational tools (such as R, spreadsheets, Colab, and Netlogo) to simulate, visualize, and approximate solutions.
4. Explain and use concepts of limits, derivatives, and integrals.
5. Analyze equilibrium, stability, and bifurcations.

MATH1210 - Calculus I (QL) - 4 - Credits

Course Overview

Course Prefix
MATH

Course Number
1210

Department
Mathematics & Statistics

Course Title
Calculus I (QL)

General Education Attribute
QL

Grade Mode
Standard Letter

Repeat Status
NR

Course Description

Students work with algebraic and transcendental functions while learning the concepts of limits, continuity, derivatives, derivative formulas, derivative applications, indefinite and definite integrals, The Fundamental Theorem of Calculus, basic integration techniques including substitution, and basic integration applications.

Credit Hours

Credit Hours Min:
4

Contact Hours

Contact Hours Min:
4

Billing Hours

Billing Hours Min:
4

Lecture Hours

Lecture Hours Min:
4

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete one of the options below:

Fulfill ANY of the following requirements:

Option 1

One of which must have been taken within the last two years or six consecutive semesters, including summers.

Earn a minimum grade of C- in the following:

- MATH1050 - College Algebra (QL)
  AND MATH1060 - Trigonometry

OR

Option 2

One of which must have been taken within the last two years or six consecutive semesters, including summers.

Earn a minimum grade of C- in the following:

- MATH1051 - Classical Algebra for Teachers (QL) **AND** MATH1060 - Trigonometry

OR

Option 3

Exam must be completed within the last two years or six consecutive semesters (including summers):

Exam Option

- ACT Math score of at least 27 or equivalent SAT Math score
- Sufficient score on AP Exam equivalent to MATH1050 COLLEGE ALGEBRA (QL) or higher
- Satisfactory score on the ALEKS Math Placement Exam

MATH1220 - Calculus II (QL) - 4 - Credits

Course Overview

Course Prefix
MATH

Course Number
1220

Department
Mathematics & Statistics

Course Title
Calculus II (QL)

General Education Attribute
QL

Grade Mode
Standard Letter

Repeat Status
NR

Course Description

This course builds on the material from MATH 1210. The topics covered include integration, integration techniques, infinite series, introduction to vectors, and applications.

Credit Hours

Credit Hours Min:
4

Contact Hours

Contact Hours Min:
4

Billing Hours

Billing Hours Min:
4

Lecture Hours

Lecture Hours Min:
4

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Fulfill ANY of the following requirements:

Coursework

Earn a minimum grade of C- in the following:

- MATH1210 - Calculus I (QL)

OR

Exam

Prerequisite fulfilled by Exam

- Sufficient score on AP Exam equivalent to MATH1210 CALCULUS I (QL)

MATH2010 - Algebraic Thinking & Number Sense for Elementary Education School Teachers (QI) - 3 - Credits

Course Overview

Course Prefix
MATH

Course Number
2010

Department
Mathematics & Statistics

Course Title
Algebraic Thinking & Number Sense for Elementary Education School Teachers (QI)

General Education Attribute
QI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description

Pre-service elementary school teachers develop a deep conceptual understanding of foundations of algebra and numeration necessary for them to teach elementary school students mathematics in a manner consistent with NCTM's Principles and Standards of School Mathematics.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Registration Restrictions

Admission to one of the following majors:

- Early Childhood Education
- Early Childhood Education (Pre-Program)
- Elementary Education
- Elementary Education (Pre-Program)
- Special Education
- Special Education (Pre-program)

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Students must satisfy one of the following requirements within the last 2 years or six consecutive semesters (including summer):

Fulfill ANY of the following requirements:

Quantitative Literacy (QL) Course

Must complete associated course with a C- or better.

Complete at least 1 course in the following course sets:

- Quantitative Literacy (QL) Course

OR

Exams

Prerequisite fulfilled by Exam

- ACT Math score of at least 25 or equivalent SAT Math score
- Sufficient score on AP Exam equivalent to MATH1050 COLLEGE ALGEBRA (QL) or higher
- Satisfactory score on the ALEKS Math Placement Exam

MATH2020 - Euclidean Geometry & Statistics for Elementary Education School Teachers (QI) - 3 - Credits

Course Overview

Course Prefix
MATH

Course Number
2020

Department
Mathematics & Statistics

Course Title
Euclidean Geometry & Statistics for Elementary Education School Teachers (QI)

General Education Attribute
QI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description

For pre-service elementary school teachers. To help students develop a deep conceptual understanding of foundations of Euclidean geometry and statistics necessary for them to teach elementary school students mathematics in a manner consistent with NCTM's Principles and Standards of School Mathematics.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Admission to one of the following:

- Early Childhood Education
- Early Childhood Education (Pre-program)
- Elementary Education
- Elementary Education (Pre-Program)
- Special Education
- Special Education (Pre-program)

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Fulfill one of the options below within the last two years or six consecutive semesters (including summers):

Fulfill ANY of the following requirements:

Option 1

Must have a C- or better.

Complete at least 1 course in the following course sets:

- Quantitative Literacy (QL) Course

OR

Option 2

Complete ALL of the following Courses:

- MATH2010 - Algebraic Thinking & Number Sense for Elementary Education School Teachers (QI)

(may be taken concurrently)

OR

Option 3

Prerequisite fulfilled by Exam

- ACT score of 25 or higher or equivalent SAT Math score
- Sufficient score on AP Exam equivalent to MATH1050 COLLEGE ALGEBRA (QL) or higher
- Satisfactory score on the ALKES Math Placement Exam

MATH2210 - Multivariable Calculus (QI) - 3 - Credits

Course Overview

Course Prefix
MATH

Course Number
2210

Department
Mathematics & Statistics

Course Title
Multivariable Calculus (QI)

General Education Attribute
QI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description

This course builds on material from Math 1210 and Math 1220. Students work with partial differentiation and optimization of functions of several variables, multiple integration, calculus of vector fields, including line and surface integrals, and theorems of Green, Gauss, and Stokes.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Requried

Fulfill ANY of the following requirements:

Coursework

Earn a minimum grade of C- in the following:

- MATH1220 - Calculus II (QL)

OR

Exam

Prerequisite fulfilled by Exam

- AP Exam equivalent to MATH1220 CALCULUS II (QL)

MATH2250 - Linear Algebra and Differential Equations (QI) - 4 - Credits

Course Overview

Course Prefix
MATH

Course Number
2250

Department
Mathematics & Statistics

Course Title
Linear Algebra and Differential Equations (QI)

General Education Attribute
QI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students study linear systems, abstract vector spaces, matrices through eigenvalues and eigenvectors, solution of ode's, Laplace transforms, and first order systems.

Credit Hours

Credit Hours Min:
4

Contact Hours

Contact Hours Min:
4

Billing Hours

Billing Hours Min:
4

Lecture Hours

Lecture Hours Min:
4

Simple Requisites

Prerequisite

Type
Prerequisite

Required

May be fulfilled through coursework or exam.

Fulfill ANY of the following requirements:

Coursework

Earn a minimum grade of C- in the following:

- MATH1220 - Calculus II (QL)

OR

Exam

May be fulfilled by one of the following AP exams.

Fulfilled by Exam

- AP Calculus AB score of 4 or 5
- AP Calculus BC score of 3 or higher

MATH2260 - Internship and Cooperative Studies - 1 - 6 Credits

Course Overview

Course Prefix
MATH

Course Number
2260

Department
Mathematics & Statistics

Course Title
Internship and Cooperative Studies

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Lower-division internship/cooperative work experience.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
6

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
6

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
6

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
6

Lecture Hours Operator:
TO

No Requirements

MATH2270 - Linear Algebra (QI) - 3 - Credits

Course Overview

Course Prefix
MATH

Course Number
2270

Department
Mathematics & Statistics

Course Title
Linear Algebra (QI)

General Education Attribute
QI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course teaches solutions of linear systems, matrix operations, matrix factorization, vector spaces, subspaces, linear independence, bases, linear transformations, eigensystems, orthogonality, Gram-Schmidt orthogonalization, and projections.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Fulfill ANY of the following requirements:

Coursework

Earn a minimum grade of C- in the following:

- MATH1210 - Calculus I (QL)

OR

Exam

MATH2280 - Ordinary Differential Equations (QI) - 3 - Credits

Course Overview

Course Prefix
MATH

Course Number
2280

Department
Mathematics & Statistics

Course Title
Ordinary Differential Equations (QI)

General Education Attribute
QI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course teaches analytic solution techniques for ordinary differential equations. Students learn initial value and boundary value problems and applications, higher-order scalar equations, first-order linear systems, and Laplace transforms.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Earn a minimum grade of C- in the following:

- MATH1220 - Calculus II (QL)
- MATH2270 - Linear Algebra (QI)
  OR DSAI2275 - Linear Algebra for Data Science

MATH2910 - Directed Reading and Conference - 1 - 3 Credits

Course Overview

Course Prefix
MATH

Course Number
2910

Department
Mathematics & Statistics

Course Title
Directed Reading and Conference

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course consists of directed readings on specific topics.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

Special Approval
Instructor permission

No Requirements

MATH2977 - Cooperative Education - 1 - 3 Credits

Course Overview

Course Prefix
MATH

Course Number
2977

Department
Mathematics & Statistics

Course Title
Cooperative Education

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Provides supervised on-the-job training in mathematics. Students meet with the instructor/coordinator periodically during the course to determine and evaluate learning objectives, hours to be worked, and credit agreement.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

Special Approval
Instructor permission

No Requirements

MATH3010 - Pedagogical Foundations of Algebra - 3 - Credits

Course Overview

Course Prefix
MATH

Course Number
3010

Department
Mathematics & Statistics

Course Title
Pedagogical Foundations of Algebra

Grade Mode
Standard Letter

Repeat Status
NR

Course Description

The historical and epistemological foundations of math as traditionally taught in schools are contrasted with that of authentic mathematics. The differential effects of these approaches on teaching and learning are analyzed by examining the interplay among classical algebra, analytical geometry, and modern algebra.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Other Enrollment Recommendations

Some sections may be available for students in the Utah Math Endorsement Project (UMEP).

Simple Requisites

Prerequisite

Type
Prerequisite

Required

May be fulfilled with one of the following options:

Fulfill ANY of the following requirements:

Option 1

Earn a minimum grade of C- in the following:

- MATH2250 - Linear Algebra and Differential Equations (QI)
  OR MATH2270 - Linear Algebra (QI)
  OR DSAI2275 - Linear Algebra for Data Science

OR

OR

Option 2

Earn a minimum grade of C- in the following:

- MATH1210 - Calculus I (QL)
  AND MATH2010 - Algebraic Thinking & Number Sense for Elementary Education School Teachers (QI)
  AND MATH2020 - Euclidean Geometry & Statistics for Elementary Education School Teachers (QI)

MATH3110 - Modern Geometry - 3 - Credits

Course Overview

Course Prefix
MATH

Course Number
3110

Department
Mathematics & Statistics

Course Title
Modern Geometry

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Modern axiomatic development of Euclidean geometry with emphases on historical foundations, implications of the parallel postulate and its alternatives, discovery of geometric relationships through inductive and deductive reasoning, deductive proof, and transformational geometry.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Other Enrollment Recommendations
Some sections may be available for students in the Utah Math Endorsement Project (UMEP)

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Fulfill ANY of the following requirements:

Option 1

Earn a minimum grade of C- in the following:

- MATH1220 - Calculus II (QL)

OR

Option1

Earn a minimum grade of C- in the following:

- MATH1210 - Calculus I (QL)
  AND MATH2020 - Euclidean Geometry & Statistics for Elementary Education School Teachers (QI)

MATH3150 - Quantitative Modeling of Life - 3 - Credits

Course Overview

Course Prefix
MATH

Course Number
3150

Department
Mathematics & Statistics

Cross-Listed Courses
BIOL3150 - Quantitative Modeling of Life

Course Title
Quantitative Modeling of Life

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces students to complex systems and mathematical modeling approaches that can be used across disciplines to address social and environmental issues. Students engage in the modeling process to address specific issues in sociology, ecology, public health, and conservation.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Fulfill ANY of the following requirements:

Coursework

Complete ANY of the following Courses:

- MATH1210 - Calculus I (QL)
  OR MATH1100 - Calculus Techniques (QL)

OR

Exam

Prerequisite fulfilled by Exam

- Any AP Calculus exam with a score of 3 or higher

Course Learning Objectives

Course Learning Outcomes

1. Our learning goals for students are to strengthen and develop their mathematical creativity, communication skills, and appreciation for mathematical modeling.

2. Choose and apply mathematics to analyze particular situations.

3. Simplify complex situations, and pose new questions.

4. Write clear explanations of models identifying variables, explaining relationships, and justifying assumptions.

5. Use data visualizations and mathematical calculations in reports of model results.

6. Compare and contrast various mathematical models identifying strengths and limitations.

7. Interpret model implications and make recommendations based on analysis.

8. Reflect on the process of mathematical modeling.

9. Gain appreciation of mathematical modeling in the life sciences and be inspired to learn more.

MATH3300 - School Laboratory for Mathematics Teachers Level I - 1 - Credits

Course Overview

Course Prefix
MATH

Course Number
3300

Department
Mathematics & Statistics

Course Title
School Laboratory for Mathematics Teachers Level I

Grade Mode
Pass/Fail

Repeat Status
NR

Course Description
Provides preservice mathematics teachers with supervised experiences working with teachers and students in middle and secondary schools. Activities coordinated with other Level I professional education courses.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Registration Restrictions

Admission to Teacher Education

MATH3310 - Discrete Mathematics - 3 - Credits

Course Overview

Course Prefix
MATH

Course Number
3310

Department
Mathematics & Statistics

Course Title
Discrete Mathematics

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Logic and axiomatics, sets, functions, counting methods, recurrence relations, graph theory, Boolean algebras, combinatorial circuits, automata, grammars, and languages.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Fulfill ANY of the following requirements:

Coursework

Earn a minimum grade of C- in the following:

- MATH1210 - Calculus I (QL)

OR

Exam

Prerequisite fulfilled by Exam

- Sufficient score on AP Exam equivalent to MATH1210 CALCULUS I (QL)

MATH4200 - Foundations of Analysis (CI) - 3 - Credits

Course Overview

Course Prefix
MATH

Course Number
4200

Department
Mathematics & Statistics

Course Title
Foundations of Analysis (CI)

General Education Attribute
CI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description

Students study the fundamental concepts of analysis from a rigorous point of view. The course covers rigorous development of the real number system and calculus. Emphasis is placed on learning how to construct proofs.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Other Enrollment Recommendations

- Some sections may be available for students in the Utah Math Endorsement Project (UMEP)
- Completion of MATH2280 ORD DIFFRNTIAL EQUATIONS (QI)

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Choose one of the following options below depending on your major. Please see you academic advisor for more details.

Fulfill ANY of the following requirements:

Option 1

Earn a minimum grade of C- in the following:

- MATH2210 - Multivariable Calculus (QI)
  AND MATH3310 - Discrete Mathematics
  AND MATH2250 - Linear Algebra and Differential Equations (QI)

OR

Option 2

Earn a minimum grade of C- in the following:

- MATH2210 - Multivariable Calculus (QI)
  AND MATH3310 - Discrete Mathematics
  AND MATH2270 - Linear Algebra (QI)

OR

Option 3

Earn a minimum grade of C- in the following:

- ECN4310 - Mathematical Methods in Economics and Finance (QI)

MATH4230 - Applied Mathematics in Biology (QI) - 3 - Credits

Course Overview

Course Prefix
MATH

Course Number
4230

Department
Mathematics & Statistics

Cross-Listed Courses
BIOL4230 - Applied Mathematics in Biology (QI)

Course Title
Applied Mathematics in Biology (QI)

General Education Attribute
QI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description

This course is an introduction to topics wherein mathematical modeling and analysis are crucial for the understanding of some biological processes. Single-credit lecture module topics include Predator-Prey and diseases models, stochastic models, fitting equations, model construction and selection.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Choose one of the following options below depending on your major. Please see your academic advisor for more details.

Fulfill ANY of the following requirements:

Option 1

Earn a minimum grade of C- in the following:

- MATH2270 - Linear Algebra (QI)
- MATH2280 - Ordinary Differential Equations (QI)

OR

Option 2

Earn a minimum grade of C- in the following:

- DSAI2275 - Linear Algebra for Data Science
- MATH2280 - Ordinary Differential Equations (QI)

OR

Option 3

Earn a minimum grade of C- in the following:

- MATH2250 - Linear Algebra and Differential Equations (QI)

OR

Option 4

Complete ALL of the following Courses:

- BIOL4270 - Theoretical Ecology

MATH4250 - Advanced Internship/Co-op - 1 - 6 Credits

Course Overview

Course Prefix
MATH

Course Number
4250

Department
Mathematics & Statistics

Course Title
Advanced Internship/Co-op

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
An internship/cooperative work experience which has been determined by the department to be at the 4000-level.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
6

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
6

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
6

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
6

Lecture Hours Operator:
TO

No Requirements

MATH4300 - School Laboratory for Mathematics Teachers Level II - 1 - Credits

Course Overview

Course Prefix
MATH

Course Number
4300

Department
Mathematics & Statistics

Course Title
School Laboratory for Mathematics Teachers Level II

Grade Mode
Pass/Fail

Repeat Status
NR

Course Description
Provides preservice mathematics teachers with supervised experiences working with teachers and students in middle and secondary schools. Activities coordinated with other Level II professional education courses.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Registration Restrictions
Admission to Teacher Education

MATH4310 - Introduction to Algebraic Structures (CI) - 3 - Credits

Course Overview

Course Prefix
MATH

Course Number
4310

Department
Mathematics & Statistics

Course Title
Introduction to Algebraic Structures (CI)

General Education Attribute
CI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces the theory of algebraic structures. Topics include elementary group and ring theory.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Other Enrollment Recommendations
Some sections may be available for students in the Utah Math Endorsement Project (UMEP).

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Fulfill ALL of the following requirements:

Required

Earn a minimum grade of C- in the following:

- MATH2210 - Multivariable Calculus (QI)
  AND MATH3310 - Discrete Mathematics

AND

Required

Fulfill ANY of the following requirements:

Option 1

Earn a minimum grade of C- in the following:

- MATH2250 - Linear Algebra and Differential Equations (QI)

OR

Option 2

Earn a minimum grade of C- in the following:

- MATH2270 - Linear Algebra (QI)
  AND MATH2280 - Ordinary Differential Equations (QI)

OR

Option 3

Earn a minimum grade of C- in the following:

- DSAI2275 - Linear Algebra for Data Science
  AND MATH2280 - Ordinary Differential Equations (QI)

MATH4410 - Discrete Math 2 - 4 - Credits

Course Overview

Course Prefix
MATH

Course Number
4410

Department
Mathematics & Statistics

Course Title
Discrete Math 2

Grade Mode
Standard Letter

Repeat Status
NR

Course Description

Students study mathematics relevant to theoretical and practical Computer Science, including closed form solutions for sequences, finite and infinite sums, Number Theory, approximation algorithms (applied to discrete structures), meta algorithms (via matroids and integer and linear programming), and asymptotics.

Credit Hours

Credit Hours
Min:
4

Contact Hours

Contact Hours
Min:
4

Billing Hours

Billing Hours
Min:
4

Lecture Hours

Lecture Hours
Min:
4

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Earn a minimum grade of C- in the following:

- MATH2270 - Linear Algebra (QI)
  OR DSAI2275 - Linear Algebra for Data Science
- MATH3310 - Discrete Mathematics

MATH4610 - Fundamentals of Numerical Analysis - 3 - Credits

Course Overview

Course Prefix
MATH

Course Number
4610

Department
Mathematics & Statistics

Course Title
Fundamentals of Numerical Analysis

Grade Mode
Standard Letter

Repeat Status
NR

Course Description

This course presents fundamental topics and algorithms that are common to many areas of computational mathematics. Topics include: truncation and round-off error, basic numerical linear algebra (including Gaussian elimination and calculation of eigenvalues), root-finding methods, interpolation methods, and numerical differentiation/integration.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Other Enrollment Recommendations

A high-level programming language (C/C++, Python, Fortran)

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Must complete any of the following courses with a C- or better:

Fulfill ALL of the following requirements:

Required

Complete ALL of the following Courses:

- MATH1220 - Calculus II (QL)

AND

Required

Complete one of the following:

Earn a minimum grade of C- in the following:

- MATH2250 - Linear Algebra and Differential Equations (QI)
  OR MATH2270 - Linear Algebra (QI)
  OR DSAI2275 - Linear Algebra for Data Science

MATH4700 - Engineering Mathematics and Statistics - 3 - Credits

Course Overview

Course Prefix
MATH

Course Number
4700

Department
Mathematics & Statistics

Course Title
Engineering Mathematics and Statistics

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Advanced engineering mathematics and statistics including: random variables; distributions; central limit theory; hypothesis testing; Anova; quality control; Fourier series; introductory analytic and numerical methods for elliptic, parabolic, and hyperbolic PDEs; and modern software packages.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Fulfill ALL of the following requirements:

Required

Earn a minimum grade of C- in the following:

- MATH2210 - Multivariable Calculus (QI)

AND

Required

Complete one of the following:

Required

Earn a minimum grade of C- in the following:

- MATH2250 - Linear Algebra and Differential Equations (QI)

OR MATH2280 - Ordinary Differential Equations (QI)

MATH4910 - Directed Reading and Conference - 1 - 3 Credits

Course Overview

Course Prefix
MATH

Course Number
4910

Department
Mathematics & Statistics

Course Title
Directed Reading and Conference

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course consists of directed readings on specific topics.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

Special Approval
Instructor permission

No Requirements

MATH5010 - Technology for Teaching Mathematics - 3 - Credits

Course Overview

Course Prefix
MATH

Course Number
5010

Department
Mathematics & Statistics

Course Title
Technology for Teaching Mathematics

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students will learn to use technology for teaching and learning mathematics and they will deepen their understanding of topics in geometry and functions through technology-enhanced investigation.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Earn a minimum grade of C- in the following:

- MATH3110 - Modern Geometry

MATH5020 - Mathematical Cognition and Assessment of Mathematical Achievement - 3 - Credits

Course Overview

Course Prefix
MATH

Course Number
5020

Department
Mathematics & Statistics

Course Title
Mathematical Cognition and Assessment of Mathematical Achievement

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Pre-service and inservice mathematics teachers (1) examine cognitive principles relevant to learning mathematics, (2) apply research-based principles for designing, validating, and interpreting measures of mathematical achievement, and (3) interpret the results of standardized and high-stakes tests, and communicate those results to mathematics students and their parents.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Completion of an upper-level mathematics or statistics course (3000-level or higher)

MATH5110 - Differential Geometry - 3 - Credits

Course Overview

Course Prefix
MATH

Course Number
5110

Department
Mathematics & Statistics

Course Title
Differential Geometry

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides an introduction to the geometry of curves and surfaces in three dimensions using graphic and symbolic software.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

All courses listed below requires a grade of C- or better.

Fulfill ALL of the following requirements:

Required

Complete ALL of the following Courses:

- MATH2210 - Multivariable Calculus (QI)
- MATH2270 - Linear Algebra (QI)
  OR DSAI2275 - Linear Algebra for Data Science

AND

Required

Complete at least 1 of the following courses:

- MATH4200 - Foundations of Analysis (CI)
- MATH4310 - Introduction to Algebraic Structures (CI)
- MATH5340 - Theory of Linear Algebra

MATH5210 - Introduction to Analysis I - 3 - Credits

Course Overview

Course Prefix
MATH

Course Number
5210

Department
Mathematics & Statistics

Course Title
Introduction to Analysis I

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
One and several variable calculus from an advanced point of view. Proofs of all main theorems in calculus.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete one of the following:

Earn a minimum grade of C- in the following:

- MATH4200 - Foundations of Analysis (CI)
  OR MATH5510 - Introduction to Topology

MATH5220 - Introduction to Analysis II - 3 - Credits

Course Overview

Course Prefix
MATH

Course Number
5220

Department
Mathematics & Statistics

Course Title
Introduction to Analysis II

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Continuation of MATH 5210. Rigorous development of multivariable advanced calculus.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Earn a minimum grade of C- in the following:

- MATH5210 - Introduction to Analysis I

MATH5270 - Complex Variables - 3 - Credits

Course Overview

Course Prefix
MATH

Course Number
5270

Department
Mathematics & Statistics

Course Title
Complex Variables

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students learn basic theory and applications of complex variables for mathematics, physics, and engineering students. Topics include analytic functions, contour integration, and residue theorem conformal mappings.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Fulfill ANY of the following requirements:

Option 1

Earn a minimum grade of C- in the following:

- MATH2210 - Multivariable Calculus (QI)
- MATH2250 - Linear Algebra and Differential Equations (QI)

OR

Option 2

Earn a minimum grade of C- in the following:

- MATH2210 - Multivariable Calculus (QI)
- MATH2270 - Linear Algebra (QI)

OR DSAI2275 - Linear Algebra for Data Science

- MATH2280 - Ordinary Differential Equations (QI)

MATH5310 - Introduction to Modern Algebra - 3 - Credits

Course Overview

Course Prefix
MATH

Course Number
5310

Department
Mathematics & Statistics

Course Title
Introduction to Modern Algebra

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Continuation of MATH 4310. Topics include: Sylow theory for finite groups, factorization theory for commutative rings, and Galois theory.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Earn a minimum grade of C- in the following:

- MATH4310 - Introduction to Algebraic Structures (CI)

MATH5340 - Theory of Linear Algebra - 3 - Credits

Course Overview

Course Prefix
MATH

Course Number
5340

Department
Mathematics & Statistics

Course Title
Theory of Linear Algebra

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Vector space theory, linear transformations and matrices, eigenvalues and eigenvectors, inner product spaces, orthogonality, canonical forms, and Hermitian matrices.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Earn a minimum grade of C- in any of the following:

Complete ANY of the following Courses:

- MATH2270 - Linear Algebra (QI)
- DSAI2275 - Linear Algebra for Data Science
- MATH4310 - Introduction to Algebraic Structures (CI)

MATH5400 - Mathematics and Its History - 3 - Credits

Course Overview

Course Prefix
MATH

Course Number
5400

Department
Mathematics & Statistics

Dual-Listed Courses
MATH6400 - Mathematics and Its History

Course Title
Mathematics and Its History

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course investigates problems, ideals, and philosophies that have shaped mathematics. Historical context helps in understanding the development of mathematical concepts, methods, and ontologies. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Fulfill ANY of the following requirements:

Option 1

Both courses are required, but one may be taken concurrently with MATH 5400.

Earn a minimum grade of C- in the following:

- MATH4200 - Foundations of Analysis (CI)
- MATH4310 - Introduction to Algebraic Structures (CI)

OR

Option 2

The following course option may be taken concurrently.

Complete ALL of the following Courses:

- MATH3110 - Modern Geometry

MATH5410 - Methods of Applied Mathematics - 3 - Credits

Course Overview

Course Prefix
MATH

Course Number
5410

Department
Mathematics & Statistics

Dual-Listed Courses

MATH6410 - Methods of Applied Mathematics

Course Title

Methods of Applied Mathematics

Grade Mode
Standard Letter

Repeat Status
NR

Course Description

This course introduces analytic techniques linking core mathematics to real-world applications, including dimensional analysis, Buckingham Pi, perturbation and approximation methods, boundary layer problems, variational methods, Euler-Lagrange equations, and Hamiltonian systems. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Courses in either option must be completed with a C- or better.

Fulfill ALL of the following requirements:

Required

Complete ALL of the following Courses:

- MATH2210 - Multivariable Calculus (QI)

AND

Required

Fulfill ANY of the following requirements:

Option 1

Complete ALL of the following Courses:

- MATH2250 - Linear Algebra and Differential Equations (QI)

OR

Option 2

Complete ALL of the following Courses:

- MATH2270 - Linear Algebra (QI)
  AND MATH2280 - Ordinary Differential Equations (QI)

OR

Option 3

Complete ALL of the following Courses:

- DSAI2275 - Linear Algebra for Data Science
  AND MATH2280 - Ordinary Differential Equations (QI)

MATH5420 - Partial Differential Equations - 3 - Credits

Course Overview

Course Prefix
MATH

Course Number
5420

Department
Mathematics & Statistics

Course Title
Partial Differential Equations

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course emphasizes the understanding and solution of physically relevant partial differential equations. Topics include derivation and analysis of the transport; diffusion, wave, and Laplace equations; the method of characteristics; eigenfunctions/Fourier series; transform methods; and fundamental solutions.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Earn a minimum grade of C- in the following:

Complete ANY of the following Courses:

- MATH2250 - Linear Algebra and Differential Equations (QI)
  OR MATH2280 - Ordinary Differential Equations (QI)

MATH5460 - Nonlinear Dynamics - 3 - Credits

Course Overview

Course Prefix
MATH

Course Number
5460

Department
Mathematics & Statistics

Dual-Listed Courses
MATH6460 - Nonlinear Dynamics

Course Title
Nonlinear Dynamics

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Basic ideas and techniques for analyzing nonlinear equations and the foundations of applied dynamical systems. Topics include discrete and continuous models, equilibria and limit cycles, stability, bifurcation of solutions, and phase space analysis, as well as physical and biological applications. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete one of the following:

Earn a minimum grade of C- in the following:

- MATH2250 - Linear Algebra and Differential Equations (QI)
  OR MATH2280 - Ordinary Differential Equations (QI)

MATH5470 - Advanced Differential Equations - 3 - Credits

Course Overview

Course Prefix
MATH

Course Number
5470

Department
Mathematics & Statistics

Course Title
Advanced Differential Equations

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers important topics on ordinary differential equations. Topics include the solution of linear systems of equations, series solutions and the method of Froebenius, and boundary value problems.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Fulfill ALL of the following requirements:

Required

Choose one of the following:

Earn a minimum grade of C- in the following:

- MATH2250 - Linear Algebra and Differential Equations (QI)
  OR MATH2270 - Linear Algebra (QI)
  OR DSAI2275 - Linear Algebra for Data Science

AND

Required

Earn a minimum grade of C- in the following:

- MATH2280 - Ordinary Differential Equations (QI)

MATH5500 - Methods of Secondary School Mathematics Teaching - 3 - Credits

Course Overview

Course Prefix
MATH

Course Number
5500

Department
Mathematics & Statistics

Dual-Listed Courses
MATH6500 - Methods of Secondary School Mathematics Teaching

Course Title
Methods of Secondary School Mathematics Teaching

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
A teaching methods course required of all prospective secondary school mathematics teachers. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Other Enrollment Recommendations
Some sections may be available for students in the Utah Math Endorsement Project (UMEP).

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Fulfill ALL of the following requirements:

Required

Complete ALL of the following Courses:

- MATH3110 - Modern Geometry

AND

Required

Complete ALL of the following Courses:

- MATH4200 - Foundations of Analysis (CI)
  OR MATH4310 - Introduction to Algebraic Structures (CI)

MATH5510 - Introduction to Topology - 3 - Credits

Course Overview

Course Prefix
MATH

Course Number
5510

Department
Mathematics & Statistics

Course Title
Introduction to Topology

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Elementary point-set topology, topological spaces, separation axioms, metric spaces, compactness, connectedness, order topology, countability axioms, continuity, and homeomorphisms.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Requierd

Earn a minimum grade of C- in the following:

- MATH4200 - Foundations of Analysis (CI)

MATH5560 - Actuarial Financial Mathematics - 3 - Credits

Course Overview

Course Prefix
MATH

Course Number
5560

Department
Mathematics & Statistics

Course Title
Actuarial Financial Mathematics

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Introduces fundamental concepts of financial mathematics, focusing on applications to non-life insurance. Topics include interest theory, cash flows and yield rates, annuities, portfolio insurance, and derivatives. Also includes discussion of probability models for underlying assets.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- MATH1220 - Calculus II (QL)
- STAT3000 - Statistics for Scientists (QI)

MATH5570 - Actuarial Math I - 3 - Credits

Course Overview

Course Prefix
MATH

Course Number
5570

Department
Mathematics & Statistics

Course Title
Actuarial Math I

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Introduction to theory of risk and its application to construction and analysis of models for insurance systems.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Earn a minimum grade of C- in the following:

- MATH5710 - Introduction to Probability
- STAT3000 - Statistics for Scientists (QI)

MATH5580 - Actuarial Math II (CI) - 3 - Credits

Course Overview

Course Prefix
MATH

Course Number
5580

Department
Mathematics & Statistics

Course Title
Actuarial Math II (CI)

General Education Attribute
CI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Continuation of MATH 5570.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Earn a minimum grade of C- in the following:

- MATH5570 - Actuarial Math I

MATH5610 - Introduction to Numerical Analysis - 3 - Credits

Course Overview

Course Prefix
MATH

Course Number
5610

Department
Mathematics & Statistics

Dual-Listed Courses
MATH6610 - Introduction to Numerical Analysis

Course Title
Introduction to Numerical Analysis

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Fundamental topics and algorithms common to many areas of computational mathematics. Topics include: truncation and round-off error, basic numerical linear algebra (Gaussian elimination and calculation of eigenvalues), root-finding methods, interpolation/approximation methods (least squares and Fourier analysis), and numerical differentiation/integration.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Experience programming in a high-level language (e.g. C/C++, Python, Matlab)

Earn a minimum grade of C- in the following:

- MATH2250 - Linear Algebra and Differential Equations (QI) **OR** MATH2270 - Linear Algebra (QI)
- MATH1220 - Calculus II (QL)

MATH5620 - Numerical Algorithms for Approximate Solutions of DE - 3 - Credits

Course Overview

Course Prefix
MATH

Course Number
5620

Department
Mathematics & Statistics

Course Title

Numerical Algorithms for Approximate Solutions of DE

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students solve initial value problems (IVP) and boundary value problems (BVP) in one dimension using standard methods. Topics include implicit and explicit methods, local and global error, stability, consistency and convergence, predictor-corrector methods and Runge-Kutta schemes, multi-step methods, and finite-difference methods for BVP.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Fulfill ALL of the following requirements:

Required

Complete ALL of the following Courses:

- MATH4610 - Fundamentals of Numerical Analysis

AND

Required

Must be completed with a C- or better.

Complete ANY of the following Courses:

- MATH2250 - Linear Algebra and Differential Equations (QI) **OR** MATH2280 - Ordinary Differential Equations (QI)

MATH5645 - Mathematical Methods for Data Science - 3 - Credits

Course Overview

Course Prefix
MATH

Course Number
5645

Department
Mathematics & Statistics

Cross-Listed Courses
STAT5645 - Mathematical Methods for Data Science

Dual-Listed Courses
MATH6645 - Mathematical Methods for Data Science

Course Title
Mathematical Methods for Data Science

Grade Mode
Standard Letter

Repeat Status
NR

Course Description

This course provides an in-depth overview of important mathematical principles and methods that underlie state-of-the art data science, statistical, and machine learning methods with a focus on linear algebra and multivariate calculus and their data science applications. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Other Enrollment Recommendations

An introduction to statistics (such as STAT3000 STATISTICS FOR SCIENTISTS (QI)) and/or probability (such as MATH5710 INTRO TO PROBABILITY) are strongly recommended. MATH1220 CALCULUS II (QL) and MATH2270 LINEAR ALGEBRA (QI) are also recommended. Experience programming in Python, R, or Matlab is essential for success in the course.

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete at least 1 of the following courses:

- MATH1100 - Calculus Techniques (QL)
- MATH1210 - Calculus I (QL)

MATH5710 - Introduction to Probability - 3 - Credits

Course Overview

Course Prefix
MATH

Course Number
5710

Department
Mathematics & Statistics

Course Title
Introduction to Probability

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students study discrete and continuous probability, random variables, the distribution and density function, joint distributions, conditional probabilities and expectations, Bayes' theorem, moments, moment generating functions, inequalities, convergence in probability and distribution, and central limit theorem.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Choose one of the following options below depending on your major. Please see your academic advisor for more details.

Fulfill ANY of the following requirements:

Option 1

Earn a minimum grade of C- in the following:

- MATH1220 - Calculus II (QL)

OR

Option 2

Earn a minimum grade of C- in the following:

- MATH1210 - Calculus I (QL)
  AND STAT2000 - Statistical Methods (QI)

OR

Option 3

Earn a minimum grade of C- in the following:

- MATH1210 - Calculus I (QL)
  AND STAT3000 - Statistics for Scientists (QI)

OR

Option 4

Earn a minimum grade of C- in the following:

- MATH1210 - Calculus I (QL)
  AND DATA3100 - Making Decisions with Data

OR

Option 5

AP Exam

- AP Calculus BC score of 4 or 5

OR

Option 6

Earn a minimum grade of C- in the following:

- ECN4310 - Mathematical Methods in Economics and Finance (QI)

MATH5720 - Introduction to Mathematical Statistics - 3 - Credits

Course Overview

Course Prefix
MATH

Course Number
5720

Department
Mathematics & Statistics

Course Title
Introduction to Mathematical Statistics

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Basic theory of point and interval estimation and hypothesis testing. Topics include: sufficiency and completeness; method-of-moments, best unbiased, maximum likelihood, Bayes', and empirical Bayes' estimators; Neyman-Pearson lemma; and likelihood ratio tests.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Earn a minimum grade of C- in the following:

- MATH5710 - Introduction to Probability

MATH5760 - Applied Stochastic Processes - 3 - Credits

Course Overview

Course Prefix
MATH

Course Number
5760

Department
Mathematics & Statistics

Dual-Listed Courses
MATH6760 - Applied Stochastic Processes

Course Title
Applied Stochastic Processes

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Introduces students to the basics of stochastic processes without using the machinery of measure theory. Topics include discrete and continuous time Markov processes and an introduction to stochastic differential equations. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Earn a minimum grade of C- in the following:

- MATH5710 - Introduction to Probability

MATH5810 - Topics in Mathematics - 1 - 3 Credits

Course Overview

Course Prefix
MATH

Course Number
5810

Department
Mathematics & Statistics

Course Title
Topics in Mathematics

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course explores a particular topic in greater depth and with narrower focus than a conventional course.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

Special Approval

Instructor permission

MATH5820 - Topics in Mathematics - 1 - 3 Credits

Course Overview

Course Prefix
MATH

Course Number
5820

Department
Mathematics & Statistics

Course Title
Topics in Mathematics

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course explores a particular topic in greater depth and with narrower focus than a conventional course.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

Special Approval

Instructor permission

MATH5910 - Directed Reading and Conference - 1 - 3 Credits

Course Overview

Course Prefix
MATH

Course Number
5910

Department
Mathematics & Statistics

Course Title
Directed Reading and Conference

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course consists of directed readings on specific topics.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

Special Approval

Prior arrangement with a specific instructor

MATH6070 - Mathematical Modeling for Educators - 3 - Credits

Course Overview

Course Prefix
MATH

Course Number
6070

Department
Mathematics & Statistics

Course Title
Mathematical Modeling for Educators

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
In this course, educators learn how to use mathematical modeling to solve real-world problems. Specifically, educators learn how to build and analyze mathematical models to represent real-world phenomena, with applications to biology, ecology, epidemiology, socio-critical, social-justice, and environmental issues.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Other Enrollment Recommendations
An undergraduate course in college algebra (e.g. MATH 1050)

Course Learning Objectives

Course Learning Outcomes
1. Explain classical models across applied mathematics such as, population models, epidemiology, and predator-prey models.

2. Use mathematics to analyze, interpret, validate, and predict situations across various mathematical contexts (e.g., number and operation, ratio and proportion, data reasoning, geometry, algebra, and calculus), and various real-world contexts (e.g., use mathematics to address socio-critical, social-justice, and environmental issues).

3. Use technology to analyze and communicate the models developed.

MATH6075 - Curriculum Development - 1 - 3 Credits

Course Overview

Course Prefix
MATH

Course Number
6075

Department
Mathematics & Statistics

Course Title
Curriculum Development

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Supervised development and implementation of mathematics curriculum.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

Course Learning Objectives

Course Learning Outcomes
1. To develop new teaching materials for mathematical modeling education suitable for implementation in classroom settings.

MATH6110 - Differential Geometry - 3 - Credits

Course Overview

Course Prefix
MATH

Course Number
6110

Department
Mathematics & Statistics

Course Title
Differential Geometry

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Topics include manifolds, calculus on manifolds, tensor calculus and differential forms, Lie groups, Riemannian geometry, deRham's Theorem, and Hodge theory.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Earn a minimum grade of C- in the following:

- MATH5110 - Differential Geometry
  OR MATH5220 - Introduction to Analysis II

MATH6120 - Differential Geometry - 3 - Credits

Course Overview

Course Prefix
MATH

Course Number
6120

Department
Mathematics & Statistics

Course Title
Differential Geometry

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Topics include manifolds, calculus on manifolds, tensor calculus and differential forms, Lie groups, Riemannian geometry, deRham's Theorem, and Hodge theory.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Fulfill ALL of the following requirements:

Required

Choose one of the following:

Earn a minimum grade of C- in the following:

- MATH5110 - Differential Geometry
  OR MATH5220 - Introduction to Analysis II

AND

Required

Complete ALL of the following Courses:

- MATH6110 - Differential Geometry

MATH6130 - Advanced Differential Geometry I - 3 - Credits

Course Overview

Course Prefix
MATH

Course Number
6130

Department
Mathematics & Statistics

Course Title
Advanced Differential Geometry I

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course focuses on topics in research-level differential geometry, including abstract manifolds, vector bundles, sheaf cohomology, integration, Lie groups and Lie algebras, and Lie group actions on manifolds.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete one of the following:

Earn a minimum grade of C- in the following:

- MATH5110 - Differential Geometry
- MATH5220 - Introduction to Analysis II

Course Learning Objectives

Course Learning Outcomes

1. The ability to apply tools from differential geometry to problems in other areas of mathematics, including algebra, topology, and combinatorics.

2. An understanding of how various subfields of differential geometry interact.

3. An understanding of key theorems, constructions, and calculations in research-level differential geometry.

MATH6140 - Advanced Differential Geometry II - 3 - Credits

Course Overview

Course Prefix
MATH

Course Number
6140

Department
Mathematics & Statistics

Course Title
Advanced Differential Geometry II

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course focuses on topics in research-level differential geometry, including abstract manifolds, vector bundles, sheaf cohomology, integration, Lie groups and Lie algebras, and Lie group actions on manifolds.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete one of the following:

Earn a minimum grade of C- in the following:

- MATH5110 - Differential Geometry
- MATH5220 - Introduction to Analysis II

Course Learning Objectives

Course Learning Outcomes

1. The ability to apply tools from differential geometry to problems in other areas of mathematics, including algebra, topology, and combinatorics.

2. An understanding of how various subfields of differential geometry interact.

3. An understanding of key theorems, constructions, and calculations in research-level differential geometry.

MATH6210 - Real Analysis - 3 - Credits

Course Overview

Course Prefix
MATH

Course Number
6210

Department
Mathematics & Statistics

Course Title
Real Analysis

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Measure theory, abstract integration, differentiation, introduction to functional analysis, Hilbert and Banach spaces.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Fulfill ALL of the following requirements:

Required

Earn a minimum grade of C- in the following:

- MATH5210 - Introduction to Analysis I

MATH6220 - Real Analysis - 3 - Credits

Course Overview

Course Prefix
MATH

Course Number
6220

Department
Mathematics & Statistics

Course Title
Real Analysis

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Measure theory, abstract integration, differentiation, introduction to functional analysis, Hilbert and Banach spaces.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Fulfill ALL of the following requirements:

Required

Earn a minimum grade of C- in the following:

- MATH5210 - Introduction to Analysis I

AND

Required

Complete ALL of the following Courses:

- MATH6210 - Real Analysis

MATH6230 - Advanced Real and Functional Analysis I - 3 - Credits

Course Overview

Course Prefix
MATH

Course Number
6230

Department
Mathematics & Statistics

Course Title
Advanced Real and Functional Analysis I

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course focuses on topics in research-level real and functional analysis, including measure theory, infinite-dimensional linear algebra, and operator theory.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Earn a minimum grade of C- in the following:

- MATH5210 - Introduction to Analysis I

Course Learning Objectives

Course Learning Outcomes

1. The ability to apply tools from algebra to problems in other areas of mathematics, including geometry, topology, and combinatorics.

2. An understanding of how various subfields of analysis interact.

3. An understanding of key theorems, constructions, and calculations in research-level analysis.

MATH6240 - Advanced Real and Functional Analysis II - 3 - Credits

Course Overview

Course Prefix
MATH

Course Number
6240

Department
Mathematics & Statistics

Course Title
Advanced Real and Functional Analysis II

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course focuses on topics in research-level real and functional analysis, including measure theory, infinite-dimensional linear algebra, and operator theory.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Earn a minimum grade of C- in the following:

- MATH5210 - Introduction to Analysis I

Course Learning Objectives

Course Learning Outcomes

1. The ability to apply tools from algebra to problems in other areas of mathematics, including geometry, topology, and combinatorics.

2. An understanding of how various subfields of analysis interact.

3. An understanding of key theorems, constructions, and calculations in research-level analysis.

MATH6250 - Graduate Internship/Cooperative Studies - 1 - 6 Credits

Course Overview

Course Prefix
MATH

Course Number
6250

Department
Mathematics & Statistics

Course Title
Graduate Internship/Cooperative Studies

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Graduate internship/cooperative work experience.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
6

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
6

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
6

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
6

Lecture Hours Operator:
TO

No Requirements

MATH6270 - Complex Variables - 3 - Credits

Course Overview

Course Prefix
MATH

Course Number
6270

Department
Mathematics & Statistics

Course Title
Complex Variables

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Analytic functions, singular points, conformal maps, harmonic functions, analytic continuation, Residue theory.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete one of the following:

Earn a minimum grade of C- in the following:

- MATH5210 - Introduction to Analysis I
  OR MATH5270 - Complex Variables

MATH6300 - Practicum in Mathematics/ Statistics Instruction for Graduates Pursuing Secondary Licensure - 1 - Credits

Course Overview

Course Prefix
MATH

Course Number
6300

Department
Mathematics & Statistics

Course Title
Practicum in Mathematics/Statistics Instruction for Graduates Pursuing Secondary Licensure

Grade Mode
Pass/Fail

Repeat Status
NR

Course Description
A practicum which provides graduate students pursing a Secondary Mathematics Teaching License with supervised experiences working with secondary students and teachers. To justify graduate credit, students must integrate the extra period required by MATH 6500 with this clinical experience. Students who have credit for a similar practicum at the under graduate level may not apply credit for this experience toward a graduate degree. Should be taken concurrently with MATH 6500.

Credit Hours

Credit Hours Min:
1

Contact Hours

Contact Hours Min:
1

Billing Hours

Billing Hours Min:
1

Lecture Hours

Lecture Hours Min:
1

Simple Requisites

Enrolled in MATH6500

Type
Corequisite

Enrolled in Course MATH6500

Enroll in the following Courses:

- MATH6500 - Methods of Secondary School Mathematics Teaching

MATH6310 - Modern Algebra - 3 - Credits

Course Overview

Course Prefix
MATH

Course Number
6310

Department
Mathematics & Statistics

Course Title
Modern Algebra

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Algebraic structures, including vector spaces, groups, rings, algebras, and modules. Topics include: category theory, elementary commutative ring theory, and algebraic geometry.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Earn a minimum grade of C- in the following:

- MATH5310 - Introduction to Modern Algebra

MATH6320 - Modern Algebra - 3 - Credits

Course Overview

Course Prefix
MATH

Course Number
6320

Department
Mathematics & Statistics

Course Title
Modern Algebra

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Algebraic structures, including vector spaces, groups, rings, algebras, and modules. Topics include: category theory, elementary commutative ring theory, and algebraic geometry.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Fulfill ALL of the following requirements:

Required

Earn a minimum grade of C- in the following:

- MATH5310 - Introduction to Modern Algebra

AND

Required

Complete ALL of the following Courses:

- MATH6310 - Modern Algebra

MATH6340 - Multilinear Algebra and Matrix Theory - 3 - Credits

Course Overview

Course Prefix
MATH

Course Number
6340

Department
Mathematics & Statistics

Course Title
Multilinear Algebra and Matrix Theory

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Permutation groups and representations, tensor spaces, symmetry classes of tensors, generalized matrix functions, matrices and graphs, and combinatorial matrix algebra.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Earn a minimum grade of C- in the following:

- MATH5340 - Theory of Linear Algebra

MATH6350 - Multilinear Algebra and Matrix Theory - 3 - Credits

Course Overview

Course Prefix
MATH

Course Number
6350

Department
Mathematics & Statistics

Course Title
Multilinear Algebra and Matrix Theory

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Permutation groups and representations, tensor spaces, symmetry classes of tensors, generalized matrix functions, matrices and graphs, and combinatorial matrix algebra.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Fulfill ALL of the following requirements:

Required

Earn a minimum grade of C- in the following:

- MATH5340 - Theory of Linear Algebra

AND

Required

Complete ALL of the following Courses:

- MATH6340 - Multilinear Algebra and Matrix Theory

MATH6360 - Advanced Multilinear Algebra and Representation Theory I - 3 - Credits

Course Overview

Course Prefix
MATH

Course Number
6360

Department
Mathematics & Statistics

Course Title
Advanced Multilinear Algebra and Representation Theory I

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course focuses on topics in research-level multilinear algebra and representation theory, including abstract linear algebra, tensor products, exterior powers, symmetric powers, representations of groups, Lie theory, and connections to algebraic geometry.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Earn a minimum grade of C- in the following:

- MATH5340 - Theory of Linear Algebra

Course Learning Objectives

Course Learning Outcomes

1. The ability to apply tools from multilinear algebra and representation theory to problems in other areas of mathematics, including algebra, topology, and combinatorics.

2. An understanding of how various subfields of multilinear algebra and representation theory interact.

3. An understanding of key theorems, constructions, and calculations in research-level multilinear algebra and representation theory.

MATH6370 - Advanced Multilinear Algebra and Representation Theory II - 3 - Credits

Course Overview

Course Prefix
MATH

Course Number
6370

Department
Mathematics & Statistics

Course Title
Advanced Multilinear Algebra and Representation Theory II

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course focuses on topics in research-level multilinear algebra and representation theory, including abstract linear algebra, tensor products, exterior powers, symmetric powers, representations of groups, Lie theory, and connections to algebraic geometry.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Earn a minimum grade of C- in the following:

- MATH5340 - Theory of Linear Algebra

Course Learning Objectives

Course Learning Outcomes
1. An understanding of how various subfields of multilinear algebra and representation theory interact.

2. The ability to apply tools from multilinear algebra and representation theory to problems in other areas of mathematics, including algebra, topology, and combinatorics.

3. An understanding of key theorems, constructions, and calculations in research-level multilinear algebra and representation theory.

MATH6380 - Advanced Algebra I - 3 - Credits

Course Overview

Course Prefix
MATH

Course Number
6380

Department
Mathematics & Statistics

Course Title
Advanced Algebra I

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course focuses on topics in research-level algebra, including commutative and non-commutative algebra, homological algebra, and category theory.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Earn a minimum grade of C- in the following:

- MATH5310 - Introduction to Modern Algebra

Course Learning Objectives

Course Learning Outcomes

1. The ability to apply tools from algebra to problems in other areas of mathematics, including geometry, topology, and combinatorics.

2. An understanding of how various subfields of algebra interact.

3. An understanding of key theorems, constructions, and calculations in research-level algebra.

MATH6390 - Advanced Algebra II - 3 - Credits

Course Overview

Course Prefix
MATH

Course Number
6390

Department
Mathematics & Statistics

Course Title
Advanced Algebra II

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course focuses on topics in research-level algebra, including commutative and non-commutative algebra, homological algebra, and category theory.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Earn a minimum grade of C- in the following:

- MATH5310 - Introduction to Modern Algebra

Course Learning Objectives

Course Learning Outcomes

1. An understanding of key theorems, constructions, and calculations in research-level algebra.

2. An understanding of how various subfields of algebra interact.

3. The ability to apply tools from algebra to problems in other areas of mathematics, including geometry, topology, and combinatorics.

MATH6400 - Mathematics and Its History - 3 - Credits

Course Overview

Course Prefix
MATH

Course Number
6400

Department
Mathematics & Statistics

Dual-Listed Courses
MATH5400 - Mathematics and Its History

Course Title
Mathematics and Its History

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course investigates problems, ideals, and philosophies that have shaped mathematics. Historical context will help in understanding the development of mathematical concepts, methods, and ontologies. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Other Enrollment Recommendations

MATH4200 FOUNDATIONS OF ANALYSIS (CI) ***or*** MATH4310 INTRO ALGEBRAIC STRC (CI)

MATH6410 - Methods of Applied Mathematics - 3 - Credits

Course Overview

Course Prefix
MATH

Course Number
6410

Department
Mathematics & Statistics

Dual-Listed Courses

MATH5410 - Methods of Applied Mathematics

Course Title

Methods of Applied Mathematics

Grade Mode
Standard Letter

Repeat Status
NR

Course Description

This course introduces analytic techniques linking core mathematics to real-world applications, including dimensional analysis, Buckingham Pi, perturbation and approximation methods, boundary layer problems, variational methods, Euler-Lagrange equations, and Hamiltonian systems. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Fulfill ALL of the following requirements:

Required

Complete ALL of the following Courses:

- MATH2210 - Multivariable Calculus (QI)

AND

Required

Fulfill ANY of the following requirements:

Option 1

Complete ALL of the following Courses:

- MATH2250 - Linear Algebra and Differential Equations (QI)

OR

Option 2

Complete ALL of the following Courses:

- MATH2270 - Linear Algebra (QI)
  AND MATH2280 - Ordinary Differential Equations (QI)

OR

Option 3

Complete ALL of the following Courses:

- DSAI2275 - Linear Algebra for Data Science
  AND MATH2280 - Ordinary Differential Equations (QI)

MATH6420 - PDE I - 3 - Credits

Course Overview

Course Prefix
MATH

Course Number
6420

Department
Mathematics & Statistics

Course Title
PDE I

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course emphasizes the theoretical underpinnings of solution techniques and equation behaviors. Topics include diffusion, wave, and Laplace equations from an advanced point of view, classification of second order equations, fundamental solutions, Green's functions, the adjoint problem, shocks and weak solutions.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- MATH5210 - Introduction to Analysis I

MATH6440 - ODE and Dynamics - 3 - Credits

Course Overview

Course Prefix
MATH

Course Number
6440

Department
Mathematics & Statistics

Course Title
ODE and Dynamics

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Combines traditional theory of ODE and theory of dynamical systems. Includes existence, uniqueness and continuous dependence of solutions on initial conditions and parameters, linear and nonlinear systems, the Poincaré-Bendixson theorem, Poincaré maps, Hamiltonian dynamics, and stable and center manifold theorems.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- MATH5470 - Advanced Differential Equations

MATH6450 - PDE II - 3 - Credits

Course Overview

Course Prefix
MATH

Course Number
6450

Department
Mathematics & Statistics

Course Title
PDE II

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Surveys the contemporary theories for patrial differential equators, including Sobolev spaces, embedding theorems, interpolation inequalities, weak and classical solutions of linear and nonlinear partial differential equations, calculus of variations, and existence theory and qualitative property for nonlinear partial differential equations.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Other Enrollment Recommendations
Intended for students to prepare for research on the theoretical or numerical aspects of partial differential equations.

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete at least 1 of the following courses:
- MATH5210 - Introduction to Analysis I
- MATH6420 - PDE I
- MATH6210 - Real Analysis

MATH6460 - Nonlinear Dynamics - 3 - Credits

Course Overview

Course Prefix
MATH

Course Number
6460

Department
Mathematics & Statistics

Dual-Listed Courses
MATH5460 - Nonlinear Dynamics

Course Title
Nonlinear Dynamics

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Basic ideas and techniques for analyzing nonlinear equations and the foundations of applied dynamical systems. Topics include discrete and continuous models, equilibria and limit cycles, stability, bifurcation of solutions, and phase space analysis, as well as physical and biological applications. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Completion Requirement

Required

Earn a minimum Grade of C- in the following:
- MATH2250 - Linear Algebra and Differential Equations (QI)
  OR MATH2280 - Ordinary Differential Equations (QI)

Course Learning Objectives

Course Learning Outcomes

1. This course introduces basic ideas and techniques for the analysis of nonlinear equations and lays the foundation for further study of applied dynamical systems.

MATH6470 - Advanced Asymptotic Methods - 3 - Credits

Course Overview

Course Prefix
MATH

Course Number
6470

Department
Mathematics & Statistics

Course Title
Advanced Asymptotic Methods

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Introduces advanced theory of asymptotic analysis and its use in solutions to differential equations, including asymptotic sequences/series, boundary layers, internal layers, shocks in ODEs/PDEs, multiscale methods, WKB methods, and related topics in nonlinear waves, fluid flows, mechanical problems and ion transport.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- MATH5420 - Partial Differential Equations

MATH6500 - Methods of Secondary School Mathematics Teaching - 3 - Credits

Course Overview

Course Prefix
MATH

Course Number
6500

Department
Mathematics & Statistics

Dual-Listed Courses
MATH5500 - Methods of Secondary School Mathematics Teaching

Course Title
Methods of Secondary School Mathematics Teaching

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
A teaching methods course required of all prospective secondary school mathematics teachers. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Admission to one of the following:

- Master's of Education Plan C program
- Master's of Mathematics program
- USOE Alternative Route to Licensure Program

Other Enrollment Recommendations
Some sections may be available for students in the Utah Math Endorsement Project (UMEP).

MATH6510 - Topology - 3 - Credits

Course Overview

Course Prefix
MATH

Course Number
6510

Department
Mathematics & Statistics

Course Title
Topology

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Homotopy theory, fundamental groups, covering spaces, singular homology with applications to spheres and Euclidean spaces, CW complexes, cohomology ring, and Poincare duality.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete one of the following:

Earn a minimum grade of C- in the following:

- MATH4310 - Introduction to Algebraic Structures (CI)
- MATH5510 - Introduction to Topology
- MATH5310 - Introduction to Modern Algebra

MATH6520 - Topology - 3 - Credits

Course Overview

Course Prefix
MATH

Course Number
6520

Department
Mathematics & Statistics

Course Title
Topology

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Homotopy theory, fundamental groups, covering spaces, singular homology with applications to spheres and Euclidean spaces, CW complexes, cohomology ring, and Poincare duality.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Fulfill ALL of the following requirements:

Required

Earn a minimum grade of C- in the following:

- MATH4310 - Introduction to Algebraic Structures (CI)
- MATH5310 - Introduction to Modern Algebra
- MATH5510 - Introduction to Topology

AND

Required

Complete ALL of the following Courses:

MATH6530 - Advanced Algebraic Topology - 3 - Credits

Course Overview

Course Prefix
MATH

Course Number
6530

Department
Mathematics & Statistics

Course Title
Advanced Algebraic Topology

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course focuses on topics in research-level algebraic topology, including functoriality in topology, homotopy groups, singular homology and cohomology, and topological manifolds.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Earn a minimum grade of C- in the following:

- MATH4310 - Introduction to Algebraic Structures (CI)
- MATH5310 - Introduction to Modern Algebra
- MATH5510 - Introduction to Topology

Course Learning Objectives

Course Learning Outcomes

1. An understanding of key theorems, constructions, and calculations in research-level algebraic topology.

2. An understanding of how various subfields of algebraic topology interact.

3. The ability to apply tools from algebraic topology to problems in other areas of mathematics, including algebra, geometry, and combinatorics.

MATH6610 - Introduction to Numerical Analysis - 3 - Credits

Course Overview

Course Prefix
MATH

Course Number
6610

Department
Mathematics & Statistics

Dual-Listed Courses
MATH5610 - Introduction to Numerical Analysis

Course Title
Introduction to Numerical Analysis

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Fundamental topics and algorithms common to many areas of computational mathematics. Topics include: truncation and round-off error, basic numerical linear algebra (Gaussian elimination and calculation of eigenvalues), root-finding methods, interpolation/approximation methods (least squares and Fourier analysis), and numerical differentiation/integration. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- MATH5610 - Introduction to Numerical Analysis

MATH6620 - Numerical Solution of Partial Differential Equations - 3 - Credits

Course Overview

Course Prefix
MATH

Course Number
6620

Department
Mathematics & Statistics

Course Title
Numerical Solution of Partial Differential Equations

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Introduces advanced theory of asymptotic analysis and its use in solutions to differential equations, including asymptotic sequences/series, boundary layers, internal layers, shocks in ODEs/PDEs, multiscale methods, WKB methods, and related topics in nonlinear waves, fluid flows, mechanical problems and ion transport.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- MATH5620 - Numerical Algorithms for Approximate Solutions of DE
- MATH5420 - Partial Differential Equations

MATH6640 - Optimization - 3 - Credits

Course Overview

Course Prefix
MATH

Course Number
6640

Department
Mathematics & Statistics

Course Title
Optimization

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Unconstrained problems, smooth function methods, linearly constrained problems, linear and quadratic programming, nonlinearly constrained methods, and practicalities.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Earn a minimum grade of C- in the following:

- MATH5220 - Introduction to Analysis II

MATH6645 - Mathematical Methods for Data Science - 3 - Credits

Course Overview

Course Prefix
MATH

Course Number
6645

Department
Mathematics & Statistics

Cross-Listed Courses
STAT6645 - Mathematical Methods for Data Science

Dual-Listed Courses
MATH5645 - Mathematical Methods for Data Science

Course Title
Mathematical Methods for Data Science

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides an in-depth overview of important mathematical principles and methods that underlie state-of-the art data science, statistical, and machine learning methods with a focus on linear algebra, multivariate calculus, and optimization and their data science applications. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Registration Restrictions

Other Enrollment Recommendations
Experience in calculus (such as MATH1220 CALCULUS II (QL)), linear algebra (MATH2270 LINEAR ALGEBRA (QI)), and statistics/probability (such as STAT3000 STATISTICS FOR SCIENTISTS (QI) or MATH5710 INTRO TO PROBABILITY) are recommended. Experience programming in Python, R, or Matlab is essential for success in the course.

MATH6650 - Scientific Computing - 3 - Credits

Course Overview

Course Prefix
MATH

Course Number
6650

Department
Mathematics & Statistics

Course Title
Scientific Computing

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Modern topics in scientific computing, including optimization techniques, uncertainty quantification, model order reduction such as proper orthogonal decomposition, structure preserving or energy stable numerical methods, and Fast Fourier Transforms.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ANY of the following Courses:

- MATH5610 - Introduction to Numerical Analysis
  OR MATH6610 - Introduction to Numerical Analysis

Additional Comments:

Course Learning Objectives

Course Learning Outcomes
Help students learn Scientific Computing skills related to applied and computational mathematics.

MATH6750 - Probability Theory - 3 - Credits

Course Overview

Course Prefix
MATH

Course Number
6750

Department
Mathematics & Statistics

Course Title
Probability Theory

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Probability spaces, random variables, distribution functions, expectations, independence, modes of convergence, limit theorems, and applications.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Earn a minimum grade of C- in the following:

- MATH5210 - Introduction to Analysis I

MATH6760 - Applied Stochastic Processes - 3 - Credits

Course Overview

Course Prefix
MATH

Course Number
6760

Department
Mathematics & Statistics

Dual-Listed Courses
MATH5760 - Applied Stochastic Processes

Course Title
Applied Stochastic Processes

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Introduces students to the basics of stochastic processes without using the machinery of measure theory. Topics include discrete and continuous time Markov processes and an introduction to stochastic differential equations. Additional coursework is required for those enrolled in the graduate-level course.9

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Earn a minimum grade of C- in the following:

- MATH5710 - Introduction to Probability

MATH6810 - Topics in Mathematics (Topic) - 1 - 3 Credits

Course Overview

Course Prefix
MATH

Course Number
6810

Department
Mathematics & Statistics

Course Title
Topics in Mathematics (Topic)

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course explores a particular topic in greater depth and with narrower focus than a conventional course.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

Special Approval
Instructor permission

MATH6820 - Topics in Mathematics (Topic) - 1 - 3 Credits

Course Overview

Course Prefix
MATH

Course Number
6820

Department
Mathematics & Statistics

Course Title
Topics in Mathematics (Topic)

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course explores a particular topic in greater depth and with narrower focus than a conventional course.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

Special Approval
Instructor permission

MATH6910 - Directed Reading and Conference - 1 - 3 Credits

Course Overview

Course Prefix
MATH

Course Number
6910

Department
Mathematics & Statistics

Course Title
Directed Reading and Conference

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course consists of directed readings on specific topics.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

Special Approval
Instructor permission

No Requirements

MATH6970 - Thesis - 1 - 9 Credits

Course Overview

Course Prefix
MATH

Course Number
6970

Department
Mathematics & Statistics

Course Title
Thesis

Grade Mode
Temporary Pass/Fail

Repeat Status
RP

Course Description
This course allows students to pursue research toward the M.S. degree.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
9

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
9

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
9

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
9

Lecture Hours Operator:
TO

No Requirements

MATH6990 - Continuing Graduate Advisement - 1 - 9 Credits

Course Overview

Course Prefix
MATH

Course Number
6990

Department
Mathematics & Statistics

Course Title
Continuing Graduate Advisement

Grade Mode
Temporary Pass/Fail

Repeat Status
RP

Course Description
This course provides graduate students with continued advisement. It is usually taken following completion of all coursework required for the degree.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
9

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
9

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
9

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
9

Lecture Hours Operator:
TO

No Requirements

MATH7110 - Geometry (Topic) - 3 - Credits

Course Overview

Course Prefix
MATH

Course Number
7110

Department
Mathematics & Statistics

Course Title
Geometry (Topic)

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course explores a particular topic in greater depth and with narrower focus than a conventional course.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

MATH7120 - Geometry (Topic) - 3 - Credits

Course Overview

Course Prefix
MATH

Course Number
7120

Department
Mathematics & Statistics

Course Title
Geometry (Topic)

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course explores a particular topic in greater depth and with narrower focus than a conventional course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

MATH7210 - Analysis (Topic) - 3 - Credits

Course Overview

Course Prefix
MATH

Course Number
7210

Department
Mathematics & Statistics

Course Title
Analysis (Topic)

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course explores a particular topic in greater depth and with narrower focus than a conventional course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

MATH7220 - Analysis (Topic) - 3 - Credits

Course Overview

Course Prefix
MATH

Course Number
7220

Department
Mathematics & Statistics

Course Title
Analysis (Topic)

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course explores a particular topic in greater depth and with narrower focus than a conventional course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

MATH7310 - Algebra (Topic) - 3 - Credits

Course Overview

Course Prefix
MATH

Course Number
7310

Department
Mathematics & Statistics

Course Title
Algebra (Topic)

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course explores a particular topic in greater depth and with narrower focus than a conventional course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

MATH7320 - Algebra (Topic) - 3 - Credits

Course Overview

Course Prefix
MATH

Course Number
7320

Department
Mathematics & Statistics

Course Title
Algebra (Topic)

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course explores a particular topic in greater depth and with narrower focus than a conventional course.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

MATH7410 - Differential Equations (Topic) - 3 - Credits

Course Overview

Course Prefix
MATH

Course Number
7410

Department
Mathematics & Statistics

Course Title
Differential Equations (Topic)

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course explores a particular topic in greater depth and with narrower focus than a conventional course.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

MATH7420 - Differential Equations (Topic) - 3 - Credits

Course Overview

Course Prefix
MATH

Course Number
7420

Department
Mathematics & Statistics

Course Title
Differential Equations (Topic)

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course explores a particular topic in greater depth and with narrower focus than a conventional course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

MATH7510 - Topology (Topic) - 3 - Credits

Course Overview

Course Prefix
MATH

Course Number
7510

Department
Mathematics & Statistics

Course Title
Topology (Topic)

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course explores a particular topic in greater depth and with narrower focus than a conventional course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

MATH7520 - Topology (Topic) - 3 - Credits

Course Overview

Course Prefix
MATH

Course Number
7520

Department
Mathematics & Statistics

Course Title
Topology (Topic)

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course explores a particular topic in greater depth and with narrower focus than a conventional course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

MATH7610 - Numerical Analysis (Topic) - 3 - Credits

Course Overview

Course Prefix
MATH

Course Number
7610

Department
Mathematics & Statistics

Course Title
Numerical Analysis (Topic)

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course explores a particular topic in greater depth and with narrower focus than a conventional course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

MATH7620 - Numerical Analysis (Topic) - 3 - Credits

Course Overview

Course Prefix
MATH

Course Number
7620

Department
Mathematics & Statistics

Course Title
Numerical Analysis (Topic)

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course explores a particular topic in greater depth and with narrower focus than a conventional course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

MATH7750 - Probability (Topic) - 3 - Credits

Course Overview

Course Prefix
MATH

Course Number
7750

Department
Mathematics & Statistics

Course Title
Probability (Topic)

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course explores a particular topic in greater depth and with narrower focus than a conventional course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

MATH7760 - Probability (Topic) - 3 - Credits

Course Overview

Course Prefix
MATH

Course Number
7760

Department
Mathematics & Statistics

Course Title
Probability (Topic)

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course explores a particular topic in greater depth and with narrower focus than a conventional course.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

MATH7810 - Topics in Mathematics (Topic) - 3 - Credits

Course Overview

Course Prefix
MATH

Course Number
7810

Department
Mathematics & Statistics

Course Title
Topics in Mathematics (Topic)

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course explores a particular topic in greater depth and with narrower focus than a conventional course.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

MATH7820 - Topics in Mathematics (Topic) - 3 - Credits

Course Overview

Course Prefix
MATH

Course Number
7820

Department
Mathematics & Statistics

Course Title
Topics in Mathematics (Topic)

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course explores a particular topic in greater depth and with narrower focus than a conventional course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

MATH7910 - College Teaching Internship - 3 - Credits

Course Overview

Course Prefix
MATH

Course Number
7910

Department
Mathematics & Statistics

Course Title
College Teaching Internship

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course provides guided experience and supervision in teaching university-level courses.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

MATH7970 - Dissertation Research - 1 - 15 Credits

Course Overview

Course Prefix
MATH

Course Number
7970

Department
Mathematics & Statistics

Course Title
Dissertation Research

Grade Mode
Temporary Pass/Fail

Repeat Status
RP

Course Description
This course allows students to pursue research toward the Ph.D. degree.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
15

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
15

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
15

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
15

Lecture Hours Operator:
TO

No Requirements

MATH7990 - Continuing Graduate Advisement - 1 - 9 Credits

Course Overview

Course Prefix
MATH

Course Number
7990

Department
Mathematics & Statistics

Course Title
Continuing Graduate Advisement

Grade Mode
Temporary Pass/Fail

Repeat Status
RP

Course Description
This course provides graduate students with continued advisement. It is usually taken following completion of all coursework required for the degree.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
9

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
9

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
9

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
9

Lecture Hours Operator:
TO

No Requirements

MGT1000 - Business Career Preparation - 1 - Credits

Course Overview

Course Prefix
MGT

Course Number
1000

Department
Management

Course Title
Business Career Preparation

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course initiates the career advancement process for Business Administration students upon admission to the Huntsman School of Business. Students acquire a transformational 'career marketability' mindset, formulate an initial career plan and present themselves to potential employers.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

No Requirements

MGT3100 - Organizational Behavior - 2 - Credits

Course Overview

Course Prefix
MGT

Course Number
3100

Department
Management

Course Title
Organizational Behavior

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course examines individual, group, and organizational processes and attributes that impact work performance. It highlights theories, models, and research findings on topics including job attitudes, work motivation, leadership, and organizational culture that influence individual, team, and leader success.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

No Requirements

MGT3150 - Critical Thinking for Managerial Decision Making - 2 - Credits

Course Overview

Course Prefix
MGT

Course Number
3150

Department
Management

Course Title
Critical Thinking for Managerial Decision Making

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces critical thinking skills relevant to managerial decision making. Students learn how to think through complex problems, and effectively use data, objective criteria, and logical reasoning to make, communicate, and evaluate decisions.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

No Requirements

MGT3250 - Managing Human Capital - 3 - Credits

Course Overview

Course Prefix
MGT

Course Number
3250

Department
Management

Course Title
Managing Human Capital

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course examines the importance of human capital in organizational decision making. It considers how to effectively plan, evaluate, and manage a workforce, and how to manage individuals using evidence-based techniques.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

MGT3350 - Legal and Ethical Environment of Business - 3 - Credits

Course Overview

Course Prefix
MGT

Course Number
3350

Department
Management

Course Title
Legal and Ethical Environment of Business

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This survey course examines the legal and ethical environment in which business activity takes place. It introduces basic legal and ethical concepts, and introduces students to a variety of legal risks and ethical dilemmas found in business.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

MGT3400 - Managerial Ethics - 2 - Credits

Course Overview

Course Prefix
MGT

Course Number
3400

Department
Management

Course Title
Managerial Ethics

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course examines the role of ethics in managerial decision making and the implications of managers' actions for stakeholders. It explores factors that motivate ethical challenges and the role of individual values, moral reasoning, and integrity in making sound choices.

Credit Hours

Credit Hours Min:
2

Contact Hours

Contact Hours Min:
2

Billing Hours

Billing Hours Min:
2

Lecture Hours

Lecture Hours Min:
2

No Requirements

MGT3450 - Film and Management - 1 - Credits

Course Overview

Course Prefix
MGT

Course Number
3450

Department
Management

Course Title
Film and Management

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course uses films and scripted series to examine core management concepts, including leadership, motivation, culture, operations, and team dynamics. Students practice observing and interpreting dialogue, visuals, and narrative to build workplace skills and deepen their understanding of human behavior.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Course Learning Objectives

Course Learning Outcomes
By the end of the course students will be able to:

1. Explain key principles of management and apply them to real-world organizational situations.
2. Analyze how leadership and management influences individual and group dynamics in workplaces.
3. Explain how human resource management practices, including recruitment, training, performance evaluation, etc. help organizations navigate talent management challenges.
4. Identify and interpret surface-level elements in film scenes, such as dialogue, actions, and settings, to uncover how they reflect management principles in organizational contexts.
5. Adjust the standard practices of management to different organizational and international cultures.
6. Sharpen their storytelling skills thus enhancing their ability to lead and communicate.
7. Improve their ability to observe and interpret complex social dynamics in everyday life

MGT3600 - Project Management - 2 - Credits

Course Overview

Course Prefix
MGT

Course Number
3600

Department
Management

Course Title
Project Management

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces students to the concepts and tools of project management. It addresses issues of scope, time, and resources, and the effective management of complexity, risk, and ambiguity.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

MGT3700 - Operations Management - 3 - Credits

Course Overview

Course Prefix
MGT

Course Number
3700

Department
Management

Course Title
Operations Management

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers concepts and tools related to managing a business operation. Topics include operations strategy, process management, lean systems, quality management, supply chain management, demand forecasting, and inventory management.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

MGT3710 - Team Management - 2 - Credits

Course Overview

Course Prefix
MGT

Course Number
3710

Department
Management

Course Title
Team Management

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This experientially-driven course focuses on the role of teams in organizations and on developing skills which individuals and teams need to be effective. Topics include self-awareness, supportive communication, problem solving, and conflict management. Students cannot earn credit for both MSLE 3710 and MGT 3710.

Credit Hours

Credit Hours Min:
2

Contact Hours

Contact Hours Min:
2

Billing Hours

Billing Hours Min:
2

Lecture Hours

Lecture Hours Min:
2

No Requirements

MGT3810 - Employment Law (DSS) - 3 - Credits

Course Overview

Course Prefix
MGT

Course Number
3810

Department
Management

Course Title
Employment Law (DSS)

General Education Attribute
DSS

Grade Mode
Standard Letter

Repeat Status
NR

Course Description

In this course, students examine laws related to employment, labor relations, civil rights, compensation, safety, health, and retirement. The course also provides experience in drafting and reviewing human resource policies in a business setting.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

MGT3830 - International Law - 2 - Credits

Course Overview

Course Prefix
MGT

Course Number
3830

Department
Management

Course Title
International Law

Grade Mode
Standard Letter

Repeat Status
NR

Course Description

Students examine business transactions in the international political-legal environment. They gain an understanding of the world legal system, international treaties and agreements, the practicalities of international business transactions, and the complexities and ambiguities of laws that impact international business.

Credit Hours

Credit Hours Min:
2

Contact Hours

Contact Hours Min:
2

Billing Hours

Billing Hours Min:
2

Lecture Hours

Lecture Hours Min:
2

No Requirements

MGT3850 - Sports Management - 2 - Credits

Course Overview

Course Prefix
MGT

Course Number
3850

Department
Marketing and Strategy

Course Title
Sports Management

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
The sports management course introduces students to various topics within the sports industry. Business, marketing, financial tools and concepts are examined in the sporting context. Students develop and implement an effective sports sales and marketing plan for a sports organization.

Credit Hours

Credit Hours Min:
2

Contact Hours

Contact Hours Min:
2

Billing Hours

Billing Hours Min:
2

Lecture Hours

Lecture Hours Min:
2

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Earn a minimum grade of B in the following:

- MSLE3500 - Fundamentals of Marketing

MGT3940 - Principles of Hotel Management - 3 - Credits

Course Overview

Course Prefix
MGT

Course Number
3940

Department
Management

Course Title
Principles of Hotel Management

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces students to the hospitality industry with particular emphasis on the hotel sector. It examines the impact and importance of the industry on economies and the role of the hotel manager in leading efforts to provide high-quality experiences for guests and associates.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

MGT3950 - Hotel Operations - 3 - Credits

Course Overview

Course Prefix
MGT

Course Number
3950

Department
Management

Course Title

Hotel Operations

Grade Mode
Standard Letter

Repeat Status
NR

Course Description

This course examines the organizational structures and departmental operations of hotels. Students gain an understanding of how work is performed and assessed and how activities are coordinated among departments to deliver exceptional guest experiences.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Earn a minimum grade of B- in the following:

- MGT3940 - Principles of Hotel Management

MGT3960 - Hotel Sales and Events - 3 - Credits

Course Overview

Course Prefix
MGT

Course Number
3960

Department
Management

Course Title

Hotel Sales and Events

Grade Mode
Standard Letter

Repeat Status
NR

Course Description

This course provides an understanding of hotel sales and events that can be important drivers of a hotel's market position and financial performance. Students are introduced to key industry practices used to generate and manage business and understand their broader impact on hotel operations.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Earn a minimum grade of B- in the following:

- MGT3940 - Principles of Hotel Management

MGT3970 - Hotel Revenue and Cost Management - 3 - Credits

Course Overview

Course Prefix
MGT

Course Number
3970

Department
Management

Course Title
Hotel Revenue and Cost Management

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers fundamental financial management concepts and tools specific to the hotel industry. Topics covered include cost and revenue management and budgeting for hotel operations.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Earn a minimum grade of B- in the following:

- MGT3940 - Principles of Hotel Management

MGT4250 - Management Internship - 1 - 3 Credits

Course Overview

Course Prefix
MGT

Course Number
4250

Department
Management

Course Title
Management Internship

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
This course provides management internship experience in a career-related position approved by the Department of Management. No more than three credits can be applied to fulfill major requirements.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

Special Approval

Management department internship coordinator approval

No Requirements

MGT4500 - Principles of Healthcare Management - 3 - Credits

Course Overview

Course Prefix
MGT

Course Number
4500

Department
Management

Course Title
Principles of Healthcare Management

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course examines the healthcare industry through the lens of participating entities including healthcare providers, insurance companies, pharmaceutical and medical device providers, and interested stakeholders including federal and state governments, community health agencies, and professional and regulatory bodies.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Develop an understanding of the US healthcare system and of the industries that directly impact its performance and implementation.

MGT4510 - Innovation and Improvement in Healthcare Management - 3 - Credits

Course Overview

Course Prefix
MGT

Course Number
4510

Department
Management

Course Title
Innovation and Improvement in Healthcare Management

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course examines the application of continuous innovation and improvement, digitalization, and rapid strategy development and deployment to improve the effectiveness of healthcare delivery systems and respond to current industry trends.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Develop the ability to lead in the healthcare sector by embedding continuous innovation and improvement, establishing real time management systems, executing rapid cycles of strategy development and deployment, leveraging the power of digitalization.

MGT4520 - Healthcare Policy and Strategy - 3 - Credits

Course Overview

Course Prefix
MGT

Course Number
4520

Department
Management

Course Title
Healthcare Policy and Strategy

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides an overview of health system strategic planning and policy, and ethical considerations in healthcare management. It provides students with a framework for understanding the goals, policies, and politics that affect healthcare delivery and improvement.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes
1. Identify and demonstrate understanding of key healthcare policy issues.
2. Demonstrate understanding of the role of government in healthcare.
3. Demonstrate understanding of the alignment of business strategy with economic and policy considertations in healthcare management.

MGT4600 - Negotiations - 2 - Credits

Course Overview

Course Prefix
MGT

Course Number
4600

Department
Management

Course Title
Negotiations

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course teaches skills necessary to complete successful negotiations while maintaining integrity and relationships. It uses simulated negotiations in a variety of professional and interpersonal settings, including buyer-seller and job candidate-employer, with an emphasis on the role of negotiation preparation.

Credit Hours

Credit Hours Min:
2

Contact Hours

Contact Hours Min:
2

Billing Hours

Billing Hours Min:
2

Lecture Hours

Lecture Hours Min:
2

No Requirements

MGT4610 - Recruitment and Selection - 2 - Credits

Course Overview

Course Prefix
MGT

Course Number
4610

Department
Management

Course Title
Recruitment and Selection

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course examines how to effectively conduct a job analysis and develop job descriptions, and how to recruit candidates and assess their skills, abilities, and competencies. It also explores the legal environment of recruitment and selection.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Earn a minimum grade of B- in the following:

- MGT3250 - Managing Human Capital

MGT4620 - Talent Acquisition - 3 - Credits

Course Overview

Course Prefix
MGT

Course Number
4620

Department
Management

Course Title
Talent Acquisition

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course examines how to develop and align a firm's talent portfolio with its strategic and operating objectives, and the availability of talent in the labor market. It introduces an integrated, systematic approach to attracting, developing, engaging, and retaining talent.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

MGT4630 - Applied Human Resource Management - 3 - Credits

Course Overview

Course Prefix
MGT

Course Number
4630

Department
Management

Course Title
Applied Human Resource Management

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course examines the roles and responsibilities of an HR professional using case studies and real-world exercises.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Earn a minimum grade of B- in the following:

- MGT3250 - Managing Human Capital

MGT4720 - Sales and Operations Planning - 2 - Credits

Course Overview

Course Prefix
MGT

Course Number
4720

Department
Management

Course Title
Sales and Operations Planning

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course examines concepts and tools used in the planning and control of production activity to optimize business level metrics. Topics include forecasting, material requirements planning, capacity planning, and inventory control.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Earn a minimum grade of B- in the following:

- MGT3700 - Operations Management

MGT4740 - Quality Management - 2 - Credits

Course Overview

Course Prefix
MGT

Course Number
4740

Department
Management

Course Title
Quality Management

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course examines concepts and tools used to identify, diagnose, and correct quality problems in manufacturing and service processes. Topics include the PDCA cycle, root cause analysis, statistical quality control, design of experiments, and quality systems.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Earn a minimum grade of B- in the following:

- MGT3700 - Operations Management

MGT4760 - Services Management - 2 - Credits

Course Overview

Course Prefix
MGT

Course Number
4760

Department
Management

Course Title
Services Management

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course uses a strategic, multidisciplinary approach to examine how firms configure their service offerings and concepts to evoke customer loyalty and improve competitiveness. It also explores how they transform service transactions into engaging and memorable customer experiences.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Earn a minimum grade of B- in the following:

- MGT3700 - Operations Management

MGT4790 - Managing Global Value Chains - 2 - Credits

Course Overview

Course Prefix
MGT

Course Number
4790

Department
Management

Course Title
Managing Global Value Chains

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students examine strategies and tactics used to manage global supply chains. Topics include supply chain design, strategic sourcing, information flow, and supply chain risk.

Credit Hours

Credit Hours Min:
2

Contact Hours

Contact Hours Min:
2

Billing Hours

Billing Hours Min:
2

Lecture Hours

Lecture Hours Min:
2

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Earn a minimum grade of B- in the following:

- MGT3700 - Operations Management

MGT4800 - Independent Research and Readings - 1 - 3 Credits

Course Overview

Course Prefix
MGT

Course Number
4800

Department
Management

Course Title
Independent Research and Readings

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course includes independent study or research under the supervision of a faculty member.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

Special Approval

Instructor permission

No Requirements

MGT4850 - Special Topics in Management - 1 - 3 Credits

Course Overview

Course Prefix
MGT

Course Number
4850

Department
Management

Course Title
Special Topics in Management

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course examines special topics in management not currently offered as part of the regular curriculum.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

No Requirements

MGT5730 - Lean Continuous Improvement - 3 - Credits

Course Overview

Course Prefix
MGT

Course Number
5730

Department
Management

Course Title
Lean Continuous Improvement

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course examines the application of continuous improvement concepts, systems, and techniques throughout the organization. Topics include continuous flow, scientific thinking and the continuous improvement cycle, value stream mapping, root cause analysis, mistake proofing, and creative problem-solving.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Earn a minimum grade of B- in the following:

- MGT3700 - Operations Management

MGT6100 - Managing Projects - 2 - Credits

Course Overview

Course Prefix
MGT

Course Number
6100

Department
Management

Course Title
Managing Projects

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces students to the concepts and tools needed to develop into effective project managers.

Credit Hours

Credit Hours Min:
2

Contact Hours

Contact Hours Min:
2

Billing Hours

Billing Hours Min:
2

Lecture Hours

Lecture Hours Min:
2

No Requirements

MGT6150 - Human Resource Information Systems - 2 - Credits

Course Overview

Course Prefix
MGT

Course Number
6150

Department
Management

Course Title
Human Resource Information Systems

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course examines Human Resource Information Systems (HRIS) and similar technologies from an HR leader's perspective. Topics include the design, selection, and implementation of HRIS, and how information from HRIS support and add value to the HR function and organization.

Credit Hours

Credit Hours Min:
2

Contact Hours

Contact Hours Min:
2

Billing Hours

Billing Hours Min:
2

Lecture Hours

Lecture Hours Min:
2

No Requirements

MGT6200 - Negotiation For Executives - 1 - 3 Credits

Course Overview

Course Prefix
MGT

Course Number
6200

Department
Management

Course Title
Negotiation For Executives

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course is designed to improve students' understanding and skills in all phases of negotiation, the development of negotiation strategy and to the management of integrative and distributive aspects of the negotiation process. The course is based on a series of simulated negotiations in a variety of contexts including dyadic, buyer-seller transactions, dispute resolution, cross-cultural and third-party.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

No Requirements

MGT6250 - Graduate Internship - 1 - 6 Credits

Course Overview

Course Prefix
MGT

Course Number
6250

Department
Management

Course Title
Graduate Internship

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Graduate-level internship in a career-related position for graduate students wishing to develop or expand their occupational experience. Maximum of 6 credits.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
6

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
6

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
6

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
6

Lecture Hours Operator:
TO

Special Approval
Instructor permission

No Requirements

MGT6300 - Human Resource (HR) Career Essentials - 0.5 - Credits

Course Overview

Course Prefix
MGT

Course Number
6300

Department
Management

Course Title
Human Resource (HR) Career Essentials

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
In this course, students use accounts of real-world Human Resource (HR) experiences, professional management skill-building, and HR case studies to develop skills and techniques to effectively lay the groundwork for success in their role as an HR intern and the start of their HR careers.

Credit Hours

Credit Hours
Min:
0.5

Contact Hours

Contact Hours
Min:
0.5

Billing Hours

Billing Hours
Min:
0.5

Lecture Hours

Lecture Hours
Min:
0.5

Registration Restrictions

Admission to the Master of Human Resources - MHR program

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Organize an effective HR professional networking plan utilizing various tools and resources.
2. Outline how to prepare in advance for the HR internship, including setting both personal and role-related goals.
3. Discuss ways to overcome potential early challenges in an HR internship or starting an HR career.

MGT6320 - Leadership, Talent, and Organizational Effectiveness - 3 - Credits

Course Overview

Course Prefix
MGT

Course Number
6320

Department
Management

Course Title
Leadership, Talent, and Organizational Effectiveness

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course centers on levers and strategies driving organizational effectiveness. Topics include: organizational capability and strategy execution; human and organization dimensions of operational excellence; organization structure, assessment, and design; leading organization change; and strategies for leadership talent and bench-strength development.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

MGT6330 - Applied Human Resources Research - 3 - Credits

Course Overview

Course Prefix
MGT

Course Number
6330

Department
Management

Course Title
Applied Human Resources Research

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course addresses the application of research design in the workplace. Students explore research principles and strategies through completion of an applied HR research project. Specific attention is placed on focus group and survey research, statistical analysis, content analysis and skills for analyzing and reporting study results.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

MGT6400 - Creating an Inclusive Workplace - 2 - Credits

Course Overview

Course Prefix
MGT

Course Number
6400

Department
Management

Course Title
Creating an Inclusive Workplace

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course examines how to capitalize on the skills and talents of all employees and align organizational goals with employees' needs by valuing diverse perspectives, providing equal access to opportunities, and cultivating environments in which everyone feels valued and respected.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

No Requirements

Course Learning Objectives

Course Learning Outcomes
1. Acquire competence to lead organizations toward greater diversity, equity, and inclusion through recruitment, retention, and promotion.
2. Gain greater understanding of diverse groups and the challenges/barriers they face in the workplace.
3. Understand how to drive structural change to reduce challenges and barriers individuals face through policy reform and effective program design and assessment.
4. Learn how talented individuals rise to the top rather than certain individuals being pulled to the top.
5. Learn how to develop a diversity plan and how to be an agent for change in pursuit of a more inclusive and equitable workplace.

MGT6500 - Managing Individuals and Groups - 3 - Credits

Course Overview

Course Prefix
MGT

Course Number
6500

Department
Management

Course Title
Managing Individuals and Groups

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Focuses on development of interpersonal and team skills. Includes development of organizational systems supporting effective use of human resources, including performance management, motivation, selection, training, rewards, and career development.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

MGT6550 - Talent Acquisition and Retention - 3 - Credits

Course Overview

Course Prefix
MGT

Course Number
6550

Department
Management

Course Title
Talent Acquisition and Retention

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Focuses upon creation of competitive advantage through strategic human resources planning and staffing. Topics include job analysis, preparing candidate specifications, recruitment, assessment, and placement. Also covers pertinent laws/regulations and applicable descriptive/inferential statistics.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

MGT6600 - Applied Human Resources (HR) Consulting - 3 - Credits

Course Overview

Course Prefix
MGT

Course Number
6600

Department
Management

Course Title
Applied Human Resources (HR) Consulting

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
In this capstone course, students learn consulting best practices and apply the knowledge, skills, and experience they have gained throughout the Master of Human Resources (MHR) program by managing a large-scale HR-related consulting project for a third-party company.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Admission to Master of Human Resources - MHR program

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Develop and apply HR consulting skills such as problem solving, client relations, project management, data analysis, linking HR Strategy to the business, and professional presentation.
2. Deliver high-quality solutions that add significant value to the third-party client.

MGT6620 - Training and Organizational Development - 2 - Credits

Course Overview

Course Prefix
MGT

Course Number
6620

Department
Management

Course Title
Training and Organizational Development

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course examines advanced concepts in management, employee, and organizational development. Specific topics include: historical background, needs assessment, program design and implementation, outcomes evaluation, and how individuals and organizations change

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

No Requirements

MGT6630 - Compensation and Benefits Management - 3 - Credits

Course Overview

Course Prefix
MGT

Course Number
6630

Department
Management

Course Title
Compensation and Benefits Management

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students will learn to make sound, strategically grounded decisions regarding the design and evaluation of compensation and benefit systems in organizations by designing am entire compensation system. They are introduced to retirement savings, medical benefit plans, and employee performance evaluation plans.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

MGT6640 - Selected Topics in Management and Human Resources - 0.5 - 3 Credits

Course Overview

Course Prefix
MGT

Course Number
6640

Department
Management

Course Title
Selected Topics in Management and Human Resources

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Selected topics in management and/or human resources are pursued in depth. Topics and instructor may vary.

Credit Hours

Credit Hours Min:
0.5

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
0.5

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
0.5

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
0.5

Lecture Hours Max:
3

Lecture Hours Operator:
TO

No Requirements

MGT6645 - Ethics and Business Law - 3 - Credits

Course Overview

Course Prefix
MGT

Course Number
6645

Department
Management

Course Title
Ethics and Business Law

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides students with a basic understanding of the organization and operation of the American legal system and the role of ethics in business, and provides insight into legal and ethical issues important to modern business administration.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Admission to the MBA program

No Requirements

MGT6670 - Employee Relations and the Labor Movement - 3 - Credits

Course Overview

Course Prefix
MGT

Course Number
6670

Department
Management

Course Title
Employee Relations and the Labor Movement

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course is a comprehensive survey of union-management relationships, including labor markets and the labor movement, labor history and law, union organization and government, and contract negotiation and administration. Coursework includes exercises and cases in negotiations and grievance processes.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

MGT6675 - Mediation, Negotiation, and Conflict Resolution for Human Resource Professionals - 2 - 3 Credits

Course Overview

Course Prefix
MGT

Course Number
6675

Department
Management

Course Title
Mediation, Negotiation, and Conflict Resolution for Human Resource Professionals

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
The day to day work of HR professionals requires perspective and skills in mediation, negotiation, and conflict resolution. This experiential course is designed to help students learn, practice, and apply communication skills in these areas.

Credit Hours

Credit Hours Min:
2

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
2

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
2

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
2

Lecture Hours Max:
3

Lecture Hours Operator:
TO

No Requirements

MGT6680 - Human Resource Analytics - 3 - Credits

Course Overview

Course Prefix
MGT

Course Number
6680

Department
Management

Course Title
Human Resource Analytics

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course examines using human capital and other data to improve decision making. Topics include human resource metrics, data visualization, ROI of HR programs, and HR analytics. Emphasis is on connecting HR analytics and business strategy to improve business performance.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

MGT6690 - Human Resource Strategy - 3 - Credits

Course Overview

Course Prefix
MGT

Course Number
6690

Department
Management

Course Title
Human Resource Strategy

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course applies concepts, processes, and tools used to develop an organization's business strategy to the development of the human resources strategy. It builds on and integrates prior courses in Human Resources with a more strategic focus, and incorporates managing change.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

MGT6720 - Strategic Supply Chain Management - 3 - Credits

Course Overview

Course Prefix
MGT

Course Number
6720

Department
Management

Course Title
Strategic Supply Chain Management

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course explores strategic decisions that organizations make concerning the flow of goods, services, and information across modern global supply chains. Topics include process flow, operational excellence, ethics and sustainability in supply chains, and supplier selection.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

MGT6730 - Lean Continuous Improvement - 3 - Credits

Course Overview

Course Prefix
MGT

Course Number
6730

Department
Management

Course Title
Lean Continuous Improvement

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course examines the application of continuous improvement concepts, systems, and techniques throughout the organization. Topics include continuous flow, scientific thinking and the continuous improvement cycle, value stream mapping, root cause analysis, mistake proofing, and creative problem-solving.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

MGT6760 - Employment Law - 3 - Credits

Course Overview

Course Prefix
MGT

Course Number
6760

Department
Management

Course Title
Employment Law

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Examines laws related to employment, labor relations, civil rights, compensation, safety, health, and retirement. Provides experience in dispute resolution techniques in a nonunion employment setting, including negotiation, mediation, and arbitration.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

MGT6870 - HR in an International Context - 0.5 - 3 Credits

Course Overview

Course Prefix
MGT

Course Number
6870

Department
Management

Course Title
HR in an International Context

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course provides students with exposure to the international dimensions of HR, including the cultural, economic, political, and legal environments which influence HR and business strategy. It accompanies an international experience during the spring semester.

Credit Hours

Credit Hours Min:
0.5

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
0.5

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
0.5

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
0.5

Lecture Hours Max:
3

Lecture Hours Operator:
TO

No Requirements

MGT6900 - Independent Research and Reading - 1 - 3 Credits

Course Overview

Course Prefix
MGT

Course Number
6900

Department
Management

Course Title
Independent Research and Reading

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Provides opportunity for students to pursue special interests under tutorship of the faculty.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

Special Approval

Approval of faculty member and department head

No Requirements

MGT6970 - Thesis - 1 - 4 Credits

Course Overview

Course Prefix
MGT

Course Number
6970

Department
Management

Course Title
Thesis

Grade Mode
Temporary Pass/Fail

Repeat Status
RP

Course Description
Designed for students preparing a master's degree thesis.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
4

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
4

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
4

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
4

Lecture Hours Operator:
TO

No Requirements

MGT6990 - Continuing Graduate Advisement - 1 - 3 Credits

Course Overview

Course Prefix
MGT

Course Number
6990

Department
Management

Course Title
Continuing Graduate Advisement

Grade Mode
Temporary Pass/Fail

Repeat Status
RP

Course Description
This course provides graduate students with continued support and advisement. It is usually taken following completion of all coursework required for the degree.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

No Requirements

MINT2210 - Initial Electrical (80 hour) - 6 - Credits

Course Overview

Course Prefix
MINT

Course Number
2210

Department
Technology, Design & Technical Ed

Course Title
Initial Electrical (80 hour)

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Prepares students for the Utah State Mine electrician certification test. Follows both state and federal topics for electrical certification testing.

Credit Hours

Credit Hours Min:
6

Contact Hours

Contact Hours Min:
6

Billing Hours

Billing Hours Min:
6

Lecture Hours

Lecture Hours Min:
6

No Requirements

MINT2460 - EMT Recertification or First Responder - 1 - 3 Credits

Course Overview

Course Prefix
MINT

Course Number
2460

Department
Technology, Design & Technical Ed

Course Title
EMT Recertification or First Responder

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Designed primarily for company and agency personnel desiring recertification and will include emergency medical care of the patient leading to EMT recertification. Course could be adapted to a 40 hour First Responder course.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

No Requirements

MINT2988 - Special Problems - 1 - 3 Credits

Course Overview

Course Prefix
MINT

Course Number
2988

Department
Technology, Design & Technical Ed

Course Title
Special Problems

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Individual work approved by instructor. Time and credit to be arranged.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

No Requirements

MLT1010 - Introduction to Medical Laboratory - 3 - Credits

Course Overview

Course Prefix
MLT

Course Number
1010

Department
Technology, Design & Technical Ed

Course Title
Introduction to Medical Laboratory

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This introductory course into the Medical Laboratory Technician (MLT) program exposes students to the professional and technical responsibilities of the medical laboratory technician. All aspects of the profession are covered so that students can prepare to become entry-level MLTs.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Registration Restrictions
Admission to the MDLC-MDLC_AAS-MAJOR - Missing program program

Special Approval
Instructor permission

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- CHEM1010 - Introduction to Chemistry (BPS)
- ENGL1010 - Writing as Inquiry (CL1)
- STAT1040 - Introduction to Statistics (QL)
  OR STAT1045 - Introduction to Statistics with Elements with

Algebra (QL)

MLT2230 - Urinalysis and Other Body Fluids - 4 - Credits

Course Overview

Course Prefix
MLT

Course Number
2230

Department
Technology, Design & Technical Ed

Course Title
Urinalysis and Other Body Fluids

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers the science, theory, and ethics of common laboratory practices. Students apply proper sample collection, preparation, and identification of simple bodily fluids obtained by invasive and noninvasive procedures. Student conduct in the work environment is also discussed.

Credit Hours

Credit Hours Min:
4

Contact Hours

Contact Hours Min:
4

Billing Hours

Billing Hours Min:
4

Lecture Hours

Lecture Hours Min:
4

Registration Restrictions
Admission to the MDLC-MDLC_AAS-MAJOR - Missing program program

Special Approval
Instructor permission

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- CHEM1010 - Introduction to Chemistry (BPS)
- ENGL1010 - Writing as Inquiry (CL1)
- STAT1040 - Introduction to Statistics (QL)
  OR STAT1045 - Introduction to Statistics with Elements with

Algebra (QL)

MLT2240 - Hematology - 6 - Credits

Course Overview

Course Prefix
MLT

Course Number
2240

Department
Technology, Design & Technical Ed

Course Title
Hematology

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers the anatomy, physiology, and pathology of the circulatory system, focusing on the form, function, and identification of blood cells. It emphasizes the theory and application of a proper sample collection, preparation, and identification of human blood elements.

Credit Hours

Credit Hours Min:
6

Contact Hours

Contact Hours Min:
6

Billing Hours

Billing Hours Min:
6

Lecture Hours

Lecture Hours Min:
6

Registration Restrictions
Admission to the MDLC-MDLC_AAS-MAJOR - Missing program program

Special Approval
Instructor permission

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- CHEM1010 - Introduction to Chemistry (BPS)
- ENGL1010 - Writing as Inquiry (CL1)
- STAT1040 - Introduction to Statistics (QL)
  OR STAT1045 - Introduction to Statistics with Elements with Algebra (QL)

MLT2270 - Immunology/Serology - 3 - Credits

Course Overview

Course Prefix
MLT

Course Number
2270

Department
Technology, Design & Technical Ed

Course Title
Immunology/Serology

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides an introduction to the study of the immune system, the nature of immune responses, and their applications to clinical laboratory testing, health, and disease.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Registration Restrictions
Admission to the MDLC-MDLC_AAS-MAJOR - Missing program program

Special Approval
Instructor permission

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- CHEM1010 - Introduction to Chemistry (BPS)
- ENGL1010 - Writing as Inquiry (CL1)
- STAT1040 - Introduction to Statistics (QL)
  OR STAT1045 - Introduction to Statistics with Elements with Algebra (QL)

MLT2280 - Immunohematology - 5 - Credits

Course Overview

Course Prefix
MLT

Course Number
2280

Department
Technology, Design & Technical Ed

Course Title
Immunohematology

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course's lecture and laboratory focus on introducing the immunological aspect of the circulation system, including the theory behind patient compatibility. This includes, but is not limited to, blood grouping, Rh typing, compatibility testing, donor screening, and quality assurance issues.

Credit Hours

Credit Hours Min:
5

Contact Hours

Contact Hours Min:
5

Billing Hours

Billing Hours Min:
5

Lecture Hours

Lecture Hours Min:
5

Registration Restrictions
Admission to the MDLC-MDLC_AAS-MAJOR - Missing program program

Special Approval
Instructor permission

No Requirements

MLT2430 - Clinical Chemistry I - 3 - Credits

Course Overview

Course Prefix
MLT

Course Number
2430

Department
Technology, Design & Technical Ed

Course Title
Clinical Chemistry I

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers the theory and performance of clinical chemistry laboratory procedures. It explores the analysis of body fluids through lab instrumentation, quality control, and interpretation and presentation of results. It also addresses the results of testing in relation to disease.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Admission to the MDLC-MDLC_AAS-MAJOR - Missing program program

Special Approval
Instructor permission

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- CHEM1010 - Introduction to Chemistry (BPS)
- ENGL1010 - Writing as Inquiry (CL1)
- STAT1040 - Introduction to Statistics (QL)
  OR STAT1045 - Introduction to Statistics with Elements with Algebra (QL)

MLT2450 - Clinical Chemistry II - 4 - Credits

Course Overview

Course Prefix
MLT

Course Number
2450

Department
Technology, Design & Technical Ed

Course Title
Clinical Chemistry II

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers the theory and practice of clinical chemistry, emphasizing endocrinology, therapeutic drug monitoring, and toxicology. Additional topics include vitamin analysis, tumor markers, pancreatic and gastrointestinal function, hemoglobin and myoglobin analysis, porphyrins and porphyrias, quality control and laboratory instrumentation.

Credit Hours

Credit Hours
Min:
4

Contact Hours

Contact Hours
Min:
4

Billing Hours

Billing Hours
Min:
4

Lecture Hours

Lecture Hours
Min:
4

Registration Restrictions
Admission to the MDLC-MDLC_AAS-MAJOR - Missing program program

Special Approval
Instructor permission

MLT2550 - Practicum in Medical Technology - 3 - Credits

Course Overview

Course Prefix
MLT

Course Number
2550

Department
Technology, Design & Technical Ed

Course Title
Practicum in Medical Technology

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Supervised clinical practicum providing hands-on experience in hematology, urinalysis, microbiology, serology, clinical chemistry, and immunohematology. Students develop skills in specimen handling, instrumentation, data management, quality control, blood typing, compatibility testing, and laboratory analysis, preparing for workforce entry.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

MLT2570 - Clinical Microbiology I - 5 - Credits

Course Overview

Course Prefix
MLT

Course Number
2570

Department
Technology, Design & Technical Ed

Course Title
Clinical Microbiology I

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces the theory, practical application, and pathogenesis of clinical microbiology. It covers collection, setup, identification, susceptibility testing, and reporting procedures. Laboratory exercises emphasize clinically-significant microorganism identification. Students participate in the culture, staining, and antibiotic testing of various organisms.

Credit Hours

Credit Hours Min:
5

Contact Hours

Contact Hours Min:
5

Billing Hours

Billing Hours Min:
5

Lecture Hours

Lecture Hours Min:
5

Registration Restrictions
Admission to the MDLC-MDLC_AAS-MAJOR - Missing program program

Special Approval
Instructor permission

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- CHEM1010 - Introduction to Chemistry (BPS)
- ENGL1010 - Writing as Inquiry (CL1)
- STAT1040 - Introduction to Statistics (QL)
  OR STAT1045 - Introduction to Statistics with Elements with

MLT2580 - Clinical Microbiology II - 5 - Credits

Course Overview

Course Prefix
MLT

Course Number
2580

Department
Technology, Design & Technical Ed

Course Title
Clinical Microbiology II

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
The course includes the theory, practical application, and pathogenesis of clinical microbiology. Collection, set-up, identification, and reporting procedures are addressed. Pathogenic microorganisms are studied in relationship to disease. Students examine viral agents, medical mycology, parasitology, and routine medical microbiological procedures.

Credit Hours

Credit Hours
Min:
5

Contact Hours

Contact Hours
Min:
5

Billing Hours

Billing Hours
Min:
5

Lecture Hours

Lecture Hours
Min:
5

Registration Restrictions
Admission to the MDLC-MDLC_AAS-MAJOR - Missing program program

Special Approval
Instructor permission

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- CHEM1010 - Introduction to Chemistry (BPS)
- ENGL1010 - Writing as Inquiry (CL1)
- STAT1040 - Introduction to Statistics (QL)
  OR STAT1045 - Introduction to Statistics with Elements with

MSL1010 - Introduction to the Army - 2 - Credits

Course Overview

Course Prefix
MSL

Course Number
1010

Department
Military Science

Course Title
Introduction to the Army

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Students receive an introduction to the Army Profession and examine what it means to be a professional in the U.S. Army, committed to the ideal that America and its founding documents remain the most powerful force for good in history.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

No Requirements

MSL1015 - Military Science Leadership Lab - 1 - Credits

Course Overview

Course Prefix
MSL

Course Number
1015

Department
Military Science

Course Title
Military Science Leadership Lab

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Enhances self-confidence, teamwork, and leadership. Allows prospective officers to practice essential leadership skills and receive feedback on their performances. In order to continue with aspects taught in the classroom, students participate in this lab for three hours per week.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

No Requirements

MSL1020 - Foundations of Leadership - 2 - Credits

Course Overview

Course Prefix
MSL

Course Number
1020

Department
Military Science

Course Title
Foundations of Leadership

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Students learn the importance of personal development in life skills such as critical thinking, resilience, holistic health and fitness, and communication process. Students receive awareness training in Antiterrorism, Team and Squad Basic Components, Basic Movements, Basic Patrolling, and Battle Drills.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

MSL1025 - Military Science Leadership Lab - 1 - Credits

Course Overview

Course Prefix
MSL

Course Number
1025

Department
Military Science

Course Title
Military Science Leadership Lab

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Enhances self-confidence, teamwork, and leadership. Allows prospective officers to practice essential leadership skills and receive feedback on their performances. In order to continue with aspects taught in the classroom, students participate in this lab for three hours per week.

Credit Hours

Credit Hours Min:
1

Contact Hours

Contact Hours Min:
1

Billing Hours

Billing Hours Min:
1

Lecture Hours

Lecture Hours Min:
1

No Requirements

MSL2010 - Leadership and Ethics - 2 - Credits

Course Overview

Course Prefix
MSL

Course Number
2010

Department
Military Science

Course Title
Leadership and Ethics

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Students analyze leadership of famous leaders and assess their own leadership style. The Army Profession is presented through the understanding of Culture Awareness, Values, Ethics and how to apply both to different situations they may encounter as a leader.

Credit Hours

Credit Hours Min:
2

Contact Hours

Contact Hours Min:
2

Billing Hours

Billing Hours Min:
2

Lecture Hours

Lecture Hours Min:
2

No Requirements

MSL2015 - Military Science Leadership Lab - 1 - Credits

Course Overview

Course Prefix
MSL

Course Number
2015

Department
Military Science

Course Title
Military Science Leadership Lab

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Enhances self-confidence, teamwork, and leadership. Allows prospective officers to practice essential leadership skills and receive feedback on their performances. In order to continue with aspects taught in the classroom, students participate in this lab for three hours per week.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

No Requirements

MSL2020 - Army Doctrine and Decision-Making - 2 - Credits

Course Overview

Course Prefix
MSL

Course Number
2020

Department
Military Science

Course Title
Army Doctrine and Decision-Making

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Students gain insight into analytical techniques, creative thinking skills and the Army problem solving process as related to situations faced by leaders when making decisions. Squad tactics are covered in classes during Multidomain Operations, Offensive Operations and Defensive Operations.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

No Requirements

MSL2025 - Military Science Leadership Lab - 1 - Credits

Course Overview

Course Prefix
MSL

Course Number
2025

Department
Military Science

Course Title
Military Science Leadership Lab

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Enhances self-confidence, teamwork, and leadership. Allows prospective officers to practice essential leadership skills and receive feedback on their performances. In order to continue with aspects taught in the classroom, students participate in this lab for three hours per week.

Credit Hours

Credit Hours Min:
1

Contact Hours

Contact Hours Min:
1

Billing Hours

Billing Hours Min:
1

Lecture Hours

Lecture Hours Min:
1

No Requirements

MSL2400 - Physical Readiness - 1 - Credits

Course Overview

Course Prefix
MSL

Course Number
2400

Department
Military Science

Course Title
Physical Readiness

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Physical conditioning course employing U.S. Army principles of fitness. Subjects include: body composition, nutrition, cardiorespiratory fitness, muscle endurance and strength, circuit training, and drills.

Credit Hours

Credit Hours Min:
1

Contact Hours

Contact Hours Min:
1

Billing Hours

Billing Hours Min:
1

Lecture Hours

Lecture Hours Min:
1

No Requirements

MSL2420 - Ranger Preparation - 2 - Credits

Course Overview

Course Prefix
MSL

Course Number
2420

Department
Military Science

Course Title
Ranger Preparation

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Participation in Army ROTC Ranger Challenge program. Advanced military training with practical application of skills taught in MSL 1010 and MSL 4020.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

No Requirements

MSL2430 - Air Assault - 2 - Credits

Course Overview

Course Prefix
MSL

Course Number
2430

Department
Military Science

Course Title
Air Assault

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Two-week course conducted at an Army installation in the continental U.S. Provides students with training in helicopter operations, including sling loading and rappelling.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Special Approval

Instructor permission

No Requirements

MSL2440 - Airborne Operations - 2 - Credits

Course Overview

Course Prefix
MSL

Course Number
2440

Department
Military Science

Course Title
Airborne Operations

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Three-week course conducted at Fort Benning, Georgia. Provides students with training in military skydiving techniques with practical applications.

Credit Hours

Credit Hours Min:
2

Contact Hours

Contact Hours Min:
2

Billing Hours

Billing Hours Min:
2

Lecture Hours

Lecture Hours Min:
2

Special Approval
Instructor permission

No Requirements

MSL2510 - Leader's Training Course - 1 - 6 Credits

Course Overview

Course Prefix
MSL

Course Number
2510

Department
Military Science

Course Title
Leader's Training Course

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Four-week training held at Fort Knox, Kentucky. Combines intense classroom learning with hands-on field training. This course is an accelerated version of the two years of leadership development training cadets receive in the Basic Course.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
6

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
6

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
6

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
6

Lecture Hours Operator:
TO

Special Approval
Advisor Permission

Other Enrollment Recommendations
Passing score on the Army Fitness Test. For current scores please see the Army fitnessrequirement website.

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Passing score on APFT exam

MSL3000 - Leadership in Military History - 3 - Credits

Course Overview

Course Prefix
MSL

Course Number
3000

Department
Military Science

Course Title
Leadership in Military History

Grade Mode
Standard Letter

Repeat Status
NR

Course Description

This course covers military history from early colonial warfare in the eighteenth century to the global war on terrorism in the twenty-first century. This course provides an understanding of the role military officers played in the development of our country.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Course Learning Objectives

Course Learning Outcomes

1. Identify how the American profession of arms developed from a “dual military tradition” reflecting the often-ambiguous relationship between American ideals and interests.

2. Evaluate military leadership at the tactical, operational, and strategic levels of war.

3. Identify how the (extended) Industrial Revolution transformed the ways in which the United States and other societies organized armed violence to pursue their interests.

MSL3010 - Training Management and the Warfighting Functions - 3 - Credits

Course Overview

Course Prefix
MSL

Course Number
3010

Department
Military Science

Course Title
Training Management and the Warfighting Functions

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students study, practice, and apply the fundamentals of Training Management and how the Army operates through the Warfighting functions. Students plan, prepare, and execute training for a squad conducting small unit tactics.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Other Enrollment Recommendations

Only contracted Army ROTC cadets or students with at least two years prior Military Service are eligible for this course.

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- MSL1010 - Introduction to the Army
- MSL1020 - Foundations of Leadership
- MSL2010 - Leadership and Ethics
- MSL2020 - Army Doctrine and Decision-Making

(or at least two years prior Military Service)

MSL3015 - Military Science Leadership Lab - 1 - Credits

Course Overview

Course Prefix
MSL

Course Number
3015

Department
Military Science

Course Title
Military Science Leadership Lab

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Enhances self-confidence, teamwork, and leadership. Allows prospective officers to practice essential leadership skills and receive feedback on their performances. In order to continue with aspects taught in the classroom, students participate in this lab for three hours per week.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

No Requirements

MSL3020 - Applied Leadership in Small Unit Operations - 3 - Credits

Course Overview

Course Prefix
MSL

Course Number
3020

Department
Military Science

Course Title
Applied Leadership in Small Unit Operations

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students study, practice, and apply the fundamentals of direct level leadership and small unit tactics at the platoon level. Students learn to plan, coordinate, navigate, motivate and lead a platoon in the execution of a mission.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Other Enrollment Recommendations

Only contracted Army ROTC cadets or students with at least two years prior Military Service are eligible for the course.

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- MSL1010 - Introduction to the Army
- MSL1020 - Foundations of Leadership
- MSL2010 - Leadership and Ethics
- MSL2020 - Army Doctrine and Decision-Making
- MSL3010 - Training Management and the Warfighting Functions

(or at least two years prior Military Service)

MSL3025 - Military Science Leadership Lab - 1 - Credits

Course Overview

Course Prefix
MSL

Course Number
3025

Department
Military Science

Course Title
Military Science Leadership Lab

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Enhances self-confidence, teamwork, and leadership. Allows prospective officers to practice essential leadership skills and receive feedback on their performances. In order to continue with aspects taught in the classroom, students participate in this lab for three hours per week.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

No Requirements

MSL3110 - Staff Organization and Operations - 1 - 3 Credits

Course Overview

Course Prefix
MSL

Course Number
3110

Department
Military Science

Course Title
Staff Organization and Operations

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Special project staff work for joint Army/Air Force campus ceremonies, leadership labs, field training exercises, and training camps.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

Special Approval

Instructor permission

No Requirements

MSL3210 - Independent Study - 1 - 3 Credits

Course Overview

Course Prefix
MSL

Course Number
3210

Department
Military Science

Course Title
Independent Study

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Students select advanced topics of interest and arrange credit under program advisor supervision in areas related to military science.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

Special Approval

Instructor permission

No Requirements

MSL4010 - The Army Officer - 3 - Credits

Course Overview

Course Prefix
MSL

Course Number
4010

Department
Military Science

Course Title
The Army Officer

General Education Attribute
CI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students develop knowledge, skills, and abilities required of junior officers pertaining to the Army in Multidomain Operations. Students will also learn to plan, resource, and assess training at the small unit level using the Training Management Process.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Other Enrollment Recommendations
Only contracted Army Cadets are eligible for this course.

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- MSL1010 - Introduction to the Army
- MSL1020 - Foundations of Leadership
- MSL2010 - Leadership and Ethics
- MSL2020 - Army Doctrine and Decision-Making
- MSL3010 - Training Management and the Warfighting Functions
- MSL3020 - Applied Leadership in Small Unit Operations

(or at least two years prior Military Service)

MSL4015 - Military Science Leadership Lab - 1 - Credits

Course Overview

Course Prefix
MSL

Course Number
4015

Department
Military Science

Course Title
Military Science Leadership Lab

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Enhances self-confidence, teamwork, and leadership. Allows prospective officers to practice essential leadership skills and receive feedback on their performances. In order to continue with aspects taught in the classroom, students participate in this lab for three hours per week.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

No Requirements

MSL4020 - Company Grade Leadership - 3 - Credits

Course Overview

Course Prefix
MSL

Course Number
4020

Department
Military Science

Course Title
Company Grade Leadership

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students develop knowledge, skills, and abilities required of junior officers pertaining to unit level leader roles and responsibilities. Students will learn about Army programs that support counseling subordinates and evaluating performance, values and ethics, career planning, and legal responsibilities.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Other Enrollment Recommendations
Only contracted Army ROTC cadets are eligible for this course.

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- MSL1010 - Introduction to the Army
- MSL1020 - Foundations of Leadership
- MSL2010 - Leadership and Ethics
- MSL2020 - Army Doctrine and Decision-Making
- MSL3010 - Training Management and the Warfighting Functions
- MSL3020 - Applied Leadership in Small Unit Operations
- MSL4010 - The Army Officer

(or at least two years prior Military Service)

MSL4025 - Military Science Leadership Lab - 1 - Credits

Course Overview

Course Prefix
MSL

Course Number
4025

Department
Military Science

Course Title
Military Science Leadership Lab

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Enhances self-confidence, teamwork, and leadership. Allows prospective officers to practice essential leadership skills and receive feedback on their performances. In order to continue with aspects taught in the classroom, students participate in this lab for three hours per week.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

No Requirements

MSL4110 - Advanced Staff Operations - 1 - 3 Credits

Course Overview

Course Prefix
MSL

Course Number
4110

Department
Military Science

Course Title
Advanced Staff Operations

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Special project staff work for joint Army/Air Force campus ceremonies, leadership labs, field training exercises, and training camps. Students in this course provide mentoring and guidance to students in MSL 3110.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

Special Approval

Instructor permission

No Requirements

MSL4510 - ROTC Leader Development and Assessment Course - 1 - 3 Credits

Course Overview

Course Prefix
MSL

Course Number
4510

Department
Military Science

Course Title
ROTC Leader Development and Assessment Course

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
Students complete a 33-day training event that incorporates a wide range of subjects designed to develop and evaluate leadership ability. The challenges are rigorous and demanding, both mentally and physically. Warrior Forge tests intelligence, common sense, ingenuity, and stamina.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

Special Approval

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- MSL1010 - Introduction to the Army
- MSL1020 - Foundations of Leadership
- MSL2010 - Leadership and Ethics
- MSL2020 - Army Doctrine and Decision-Making

MSL4520 - Cadet Troop Leadership Training - 2 - Credits

Course Overview

Course Prefix
MSL

Course Number
4520

Department
Military Science

Course Title
Cadet Troop Leadership Training

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Two-week course conducted at an Army installation in the continental U.S. or overseas. Provides firsthand experience in an Army unit. Students learn about military life and the duties of a lieutenant.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Special Approval
Advisor Permission

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- MSL3010 - Training Management and the Warfighting Functions
- MSL3020 - Applied Leadership in Small Unit Operations
- MSL4510 - ROTC Leader Development and Assessment Course

MSL4810 - American Military History - 3 - Credits

Course Overview

Course Prefix
MSL

Course Number
4810

Department
Military Science

Cross-Listed Courses
HIST4810 - American Military History

Course Title
American Military History

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers evolution of the military in American history and society from 1775 to the present.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes
1. Identify how the American profession of arms developed from a "dual military tradition" reflecting the often ambiguous relationship between American ideals and interests.

2. Evaluate military leadership at the tactical, operational, and strategic levels of war.

3. Identify how the (extended) Industrial Revolution transformed the ways in which the United States and other societies organized armed violence to pursue their interests.

4. Integrate basic knowledge of military history into your education as a future officer.

5. Recognize the enduring tension between the Army's professional conception of itself as a warfighting organization and its routine deployment for the expansion of American frontiers, ideals, and institutions.

MSLE1800 - Leadership and Human Flourishing - 3 - Credits

Course Overview

Course Prefix
MSLE

Course Number
1800

Department
Marketing and Strategy

Cross-Listed Courses
CMST1800 - Leadership and Human Flourishing, ASTE1800 - Leadership and Human Flourishing

Course Title
Leadership and Human Flourishing

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course delves into the pivotal connection between leadership and human flourishing. Students learn leadership theories, practical skills, communication strategies, and the art of positive influence, all aimed at increasing personal and interpersonal excellence to improve global communities.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Students will explore the historical and modern questions related to human purpose, happiness, and leadership.
2. Students will practice leadership and communication approaches to improve their ability to address interpersonal and community problems.
3. Students will identify how socio-cultural context shapes human interaction, leadership methods, and self-efficacy for self and others.
4. Students will use various experiential learning methods to explore how their knowledge, skills, and values can contribute to community problem-solving and a higher quality of life for themselves and others.

MSLE2500 - Business for Good: Making an Impact through Social Entrepreneurship - 2 - Credits

Course Overview

Course Prefix
MSLE

Course Number
2500

Department
Marketing and Strategy

Course Title
Business for Good: Making an Impact through Social Entrepreneurship

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course focuses on using innovation in business to address social challenges. It includes social entrepreneurship activities like identifying social issues, creative problem-solving, building a business model, and measuring impact.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

No Requirements

MSLE2550 - Entrepreneur Leadership Series - 1 - Credits

Course Overview

Course Prefix
MSLE

Course Number
2550

Department
Marketing and Strategy

Course Title
Entrepreneur Leadership Series

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
This course entails discussion of the discovery, evaluation, and exploitation of entrepreneurial opportunities. Each week, an active or harvested entrepreneur is invited to share his or her story of new venture creation. Through discussion and a question and answer session, students interact with the entrepreneurs.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

No Requirements

MSLE2600 - Introduction to Entrepreneurship - 3 - Credits

Course Overview

Course Prefix
MSLE

Course Number
2600

Department
Marketing and Strategy

Course Title
Introduction to Entrepreneurship

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course aims to develop entrepreneurial leadership, innovation, and business development skills by offering exposure to new venture creation principles, business modeling, financial literacy, marketing strategy, and management fundamentals.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

MSLE2650 - Adobe Graphic Design - 3 - Credits

Course Overview

Course Prefix
MSLE

Course Number
2650

Department
Marketing and Strategy

Course Title
Adobe Graphic Design

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course is designed to help students gain proficiency in graphic design and earn certification in major design tools. Gaining these essential tools will help students meet common requirements for marketing jobs.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

MSLE2700 - 7-Habits of Highly Effective People - 2 - Credits

Course Overview

Course Prefix
MSLE

Course Number
2700

Department
Marketing and Strategy

Course Title
7-Habits of Highly Effective People

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course teaches the tools and theory of principle-centered leadership. The course is grounded upon the framework developed by Stephen R. Covey that is used in organizations throughout the world. Students learn how to lead with values-based leadership.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

MSLE2750 - Enhancing Happiness in Your Life and Career - 3 - Credits

Course Overview

Course Prefix
MSLE

Course Number
2750

Department
Marketing and Strategy

Course Title
Enhancing Happiness in Your Life and Career

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course addresses the causes and solutions to the epidemics of despair and incivility in our country. Students learn skills to increase their personal happiness, improve their relationships, and promote greater civility in groups, organizations, and communities.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. To help students understand the growing epidemics of despair and incivility in our country and how these are impacting satisfaction, attendance, turnover, conflicts, productivity, and increased medical costs for organizations.
2. To help students explore and discover their implicit biases and judgements of others (with the Harvard Implicit Association Tests) and how these can impact their interpersonal relationships, teamwork, and performance in their careers.
3. To give students a set of research based tools to increase their personal happiness, improve their relationships, and enhance their civil behavior in teams, organizations, and communities.
4. To help students understand that success in life does not guarantee happiness: rather, enhancing personal happiness is a key driver of success in life, relationships, and careers.

MSLE2800 - HMA Consulting - 1 - Credits

Course Overview

Course Prefix
MSLE

Course Number
2800

Department
Marketing and Strategy

Course Title
HMA Consulting

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
The course focuses on application of marketing concepts and models in industry. This is done through hands-on consulting experiences, networking events, and competitions with others to grow their skills. This class prepares students to smoothly transition from class to career.

Credit Hours

Credit Hours Min:
1

Contact Hours

Contact Hours Min:
1

Billing Hours

Billing Hours Min:
1

Lecture Hours

Lecture Hours Min:
1

MSLE2850 - PhD Prep Seminar - 1 - Credits

Course Overview

Course Prefix
MSLE

Course Number
2850

Department
Marketing and Strategy

Course Title
PhD Prep Seminar

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course prepares students to apply to business PhD programs. Students learn how to conduct research, including topics such as scientific method, literature review, hypotheses, and theory development. Example studies from different business disciplines are reviewed. Students practice presenting research.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Course Learning Objectives

Course Learning Outcomes

1. To understand the principles needed to effectively conduct academic research.
2. Independently carry out and present a research project.
3. Develop specific skills and competencies needed to effectively apply and gain admittance to a business related PhD program.

MSLE2900 - Pro Sales - 1 - Credits

Course Overview

Course Prefix
MSLE

Course Number
2900

Department
Marketing and Strategy

Course Title
Pro Sales

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course is the hub for the Huntsman ProSales Program. Students, faculty, and corporate partners unite around three pillars of building a professional, sales, and career identity. Students develop a personal and professional brand and explore career opportunities in professional sales.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Special Approval

Instructor permission

Simple Requisites

Prerequisite

Type
Prerequisite

Required

GPA of 2.5 or higher; completion of 30 credit hours

MSLE3110 - Managing Organizations and People (DSS) - 3 - Credits

Course Overview

Course Prefix
MSLE

Course Number
3110

Department
Marketing and Strategy

Course Title
Managing Organizations and People (DSS)

General Education Attribute
DSS

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides an overview of the role of management and an introduction to leadership theory and practice. It includes defining of mission and goals, organizing work, and managing human performance.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

MSLE3200 - Adobe Graphic Design - 3 - Credits

Course Overview

Course Prefix
MSLE

Course Number
3200

Department
Marketing and Strategy

Course Title
Adobe Graphic Design

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course is designed to help students gain proficiency in graphic design and earn certification in major design tools. Gaining these essential tools will help students meet common requirements for marketing jobs.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

MSLE3300 - Contemporary Issues in International Trade - 3 - Credits

Course Overview

Course Prefix
MSLE

Course Number
3300

Department
Marketing and Strategy

Course Title
Contemporary Issues in International Trade

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Examines interrelated economic, political, and social issues faced by institutions and individuals at various points in the trade process.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Admission to a USU major

Simple Requisites

Corequisite

Type
Corequisite

Required

Enroll in the following Courses:

- ECON3510 - Contemporary Issues in International Trade

Prerequisite

Type
Prerequisite

Required

Cumulative GPA of 2.75 or higher

MSLE3500 - Fundamentals of Marketing - 3 - Credits

Course Overview

Course Prefix
MSLE

Course Number
3500

Department
Marketing and Strategy

Course Title
Fundamentals of Marketing

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This is an overview of marketing function emphasizing concepts and terminology. It includes basic marketing activities of product management, pricing, distribution, promotion, marketing research, and consumer behavior.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

MSLE3510 - New Venture Creation - 3 - Credits

Course Overview

Course Prefix
MSLE

Course Number
3510

Department
Marketing and Strategy

Course Title
New Venture Creation

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This introduction to entrepreneurship explores the processes of new ventures. Students examine entrepreneurship and whether it represents a viable career path, focusing on identifying, analyzing, and developing business opportunities.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

MSLE3530 - New Venture Marketing - 3 - Credits

Course Overview

Course Prefix
MSLE

Course Number
3530

Department
Marketing and Strategy

Course Title
New Venture Marketing

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students develop the brand for a new enterprise. Strategies for gaining customer intelligence are taught, particularly primary and secondary marketing research. Topics include effective low-cost marketing strategies, gaining market presence, and implementing social and traditional media in marketing and promotion.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

MSLE3540 - New Venture Finance - 3 - Credits

Course Overview

Course Prefix
MSLE

Course Number
3540

Department
Marketing and Strategy

Course Title
New Venture Finance

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course surveys financial issues affecting entrepreneurial ventures and examines skills needed to develop financial plans, make practical financial assessments and explore sources of new funding including bootstrapping. Students also learn how to evaluate resource requirements and mobilize non-financial resources.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

MSLE3555 - Applied Artificial Intelligence in Entrepreneurship - 3 - Credits

Course Overview

Course Prefix
MSLE

Course Number
3555

Department
Marketing and Strategy

Course Title
Applied Artificial Intelligence in Entrepreneurship

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course offers an immersion experience in the field of artificial intelligence and teaches how it is being used in business. Numerous AI models are studied and applied in business situations. Students actively participate in building an artificial intelligence business.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Other Enrollment Recommendations
It is recommended that students take MSLE3510 NEW VENTURE CREATION prior this class but it is not required.

Course Learning Objectives

Course Learning Outcomes

1. To understand the developing field of artificial intelligence.
2. To explore various models for using artificial intelligence.
3. To learn how to use artificial intelligence to start, grow, and improve organizations.
4. To have an experience building a business with artificial intelligence.

MSLE3580 - New Venture Execution - 3 - Credits

Course Overview

Course Prefix
MSLE

Course Number
3580

Department
Marketing and Strategy

Course Title
New Venture Execution

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
In this entrepreneurship capstone course, students learn to launch and build ventures, write full business plans, gain industry knowledge, build strategic partnerships, and create an execution plan. Students study how to plan for pivots and diversification and pitch ideas powerfully.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

MSLE3585 - New Venture Practicum - 3 - Credits

Course Overview

Course Prefix
MSLE

Course Number
3585

Department
Marketing and Strategy

Course Title
New Venture Practicum

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Under the direction of the instructor, students work in the field in a variety of businesses: retail, ecommerce, technology, and artificial Intelligence. They learn the functions of these business types, and create plans for improving and growing them.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Special Approval
Instructor permission

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- MSLE3510 - New Venture Creation
- MSLE3530 - New Venture Marketing
- MSLE3540 - New Venture Finance

Course Learning Objectives

Course Learning Outcomes

1. To learn about the various business models available to entrepreneurs.
2. To understand the functional roles of various types of business entities.
3. To be mentored in the field by a successful serial entrepreneur.
4. To learn to create plans and goals for developing and scaling businesses.

MSLE3590 - Small Business Consulting - 2 - Credits

Course Overview

Course Prefix
MSLE

Course Number
3590

Department
Marketing and Strategy

Course Title
Small Business Consulting

Grade Mode
Standard Letter

Repeat Status
RP

Course Description

This course is for interns and students enrolled in the SEED Social Venturing program. It covers the entire cycle of new venture creation with emphasis on teaching these skills to student entrepreneurs and aspiring entrepreneurs in developing countries.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

No Requirements

MSLE3610 - Strategic Planning for Career and Life (CI) - 2 - Credits

Course Overview

Course Prefix
MSLE

Course Number
3610

Department
Marketing and Strategy

Course Title
Strategic Planning for Career and Life (CI)

General Education Attribute
CI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description

This integrative course is designed to fast-track careers of marketing majors by helping them develop the essential skills, confidence, and industry connections for a seamless transition from college to corporate life. It also focuses on developing business judgment and perspective.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- MSLE3500 - Fundamentals of Marketing

MSLE3620 - Marketing Research and Analytics - 2 - Credits

Course Overview

Course Prefix
MSLE

Course Number
3620

Department
Marketing and Strategy

Course Title
Marketing Research and Analytics

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces the identification of actionable business insights and potential competitive advantages achievable from data. It emphasizes developing the ability to think critically about complex questions in real-world data science and marketing analytics challenges related to customers and competitors.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- MSLE3500 - Fundamentals of Marketing

may be taken concurrently

MSLE3630 - E-Commerce and Internet Marketing - 2 - Credits

Course Overview

Course Prefix
MSLE

Course Number
3630

Department
Marketing and Strategy

Course Title
E-Commerce and Internet Marketing

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides students with a deep understanding of the rapidly evolving online marketplace. Students explore the multifaceted world of online business, from foundational concepts to cutting-edge strategies being used right now by successful companies.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Course Learning Objectives

Course Learning Outcomes

1. Understand what are competitive intelligence, dis-intelligence, and the intelligence process used by businesses and other organizations.
2. Understand principles of competitiveness, including what are the difference(s) between strategy, business models, competences, capabilities, dynamic capabilities, and market orientation.
3. Develop improved ethical reasoning in the context of competitive intelligence and marketing toward the development of a clearer understanding of, and commitment to, the student's personal values, good business practices, and human flourishing.
4. Learn to improve critical thinking and problem-solving decisions in business in the context of competitive intelligence and marketing.
5. Gain practice in critical thinking (applying cognition and meta-cognition) applied to one's own personal decision-marking.

MSLE3710 - Leading Teams - 2 - Credits

Course Overview

Course Prefix
MSLE

Course Number
3710

Department
Marketing and Strategy

Course Title
Leading Teams

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course focuses on the theory and practice of leading groups and teams. It provides conceptual guidelines for analyzing and diagnosing group dynamics and determining strategic options for leaders. Students learn interpersonal skills for implementing effective strategies for group situations.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

No Requirements

MSLE3800 - Leadership - 2 - Credits

Course Overview

Course Prefix
MSLE

Course Number
3800

Department
Marketing and Strategy

Course Title
Leadership

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course fosters leadership development through a focus on integrity, authenticity, and commitment to a purpose higher than oneself. Students become more effective leaders by removing constraints and allowing leadership to emerge as natural self-expression.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

No Requirements

MSLE3805 - Practical Leadership - 2 - Credits

Course Overview

Course Prefix
MSLE

Course Number
3805

Department
Marketing and Strategy

Course Title
Practical Leadership

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course focuses upon learning leadership execution principles grounded upon core leadership theories and frameworks. Students experience learning by leading work teams through virtual reality situations. This course teaches students how to lead at any level in an organization.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Students will master collaboration in order to solve complex problems in teams in an ever changing environment.
2. Students will embrace articulating a unified purpose to unify a team around a difficult mission or project.
3. Students will learn how pivot on a team, avoid catastrophic failures, and adapt to changes in the environment, problem definition, information and resources.
4. Students will learn how to create a team culture of high reliability and low stress while giving and receiving real time feedback.

MSLE3810 - Personal Leadership - 2 - Credits

Course Overview

Course Prefix
MSLE

Course Number
3810

Department
Marketing and Strategy

Course Title
Personal Leadership

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course explores leadership theories and practices at the individual level. It is designed to elevate students' leadership performance through examining leadership, motivations, mindsets and behaviors. Personal leadership models are explored, including Stephen Covey's "7 Habits of Highly Effective People."

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

No Requirements

MSLE3820 - International Business (DSS) - 3 - Credits

Course Overview

Course Prefix
MSLE

Course Number
3820

Department
Marketing and Strategy

Course Title
International Business (DSS)

General Education Attribute
DSS

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides an exploration of international culture and context of business, the impact of globalization on businesses today, and the pressures and complexities of operating in global markets, including the processes of managing multicultural human resources.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

MSLE3855 - Sustainability Marketing - 2 - Credits

Course Overview

Course Prefix
MSLE

Course Number
3855

Department
Marketing and Strategy

Course Title
Sustainability Marketing

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students learn key marketing concepts of leading sustainability topics, including green marketing, sustainable transportation, collaborative consumption, and clean energy. The class integrates managerial and socio-ecological aspects in order to understand the relationship between sustainability and marketing in the twenty-first century.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

No Requirements

MSLE3875 - Strategic Advertising Campaigns - 2 - Credits

Course Overview

Course Prefix
MSLE

Course Number
3875

Department
Marketing and Strategy

Course Title
Strategic Advertising Campaigns

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course focuses on creating consumer advertising: developing concepts, copywriting, design, and layout and production. Students leave with an advertising campaign portfolio suitable for presentation in a job interview setting.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Earn a minimum grade of B in the following:

- MSLE3500 - Fundamentals of Marketing

MSLE3890 - Systems Strategy and Problem Solving - 2 - Credits

Course Overview

Course Prefix
MSLE

Course Number
3890

Department
Marketing and Strategy

Course Title
Systems Strategy and Problem Solving

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course examines the concepts, models, and procedures for identifying and addressing functional-level problems and opportunities. The course examines the necessary coordination and synergy of functional units within a firm for optimal firm performance.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ACCT2020 - Managerial Accounting Principles
- FIN3200 - Corporate Finance (QI)
- MSLE3500 - Fundamentals of Marketing

MSLE4000 - Leading in Constant Change - 3 - Credits

Course Overview

Course Prefix
MSLE

Course Number
4000

Department
Marketing and Strategy

Course Title
Leading in Constant Change

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides information about how to lead amid forces of change through embracing principles, change, and choice. Students learn by engaging with some of history's most inspiring and impactful leaders about how to meet the needs and challenges of today.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

MSLE4050 - International Marketing - 3 - Credits

Course Overview

Course Prefix
MSLE

Course Number
4050

Department
Marketing and Strategy

Course Title
International Marketing

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers issues related to retailing in international markets, such as motivations, cultural influence on consumer behavior, and entry strategies.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

MSLE4200 - Strategic Consulting - 3 - Credits

Course Overview

Course Prefix
MSLE

Course Number
4200

Department
Marketing and Strategy

Course Title
Strategic Consulting

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course prepares students to be consultants. Students learn how to consult clients using their technical and non-technical disciplines with various enterprises and government agencies. They learn a systematic process to solve technical and organizational problems and manage client relations.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Admission to the Consulting Minor program

Simple Requisites

Prerequisites

Type
Prerequisite

Required

Complete ALL of the following Courses:

- MGT3100 - Organizational Behavior
- MGT3600 - Project Management

MSLE4250 - Marketing-Strategy-Leadership-Entrepreneurship Internship - 2 - Credits

Course Overview

Course Prefix
MSLE

Course Number
4250

Department
Marketing and Strategy

Course Title
Marketing-Strategy-Leadership-Entrepreneurship Internship

Grade Mode
Pass/Fail

Repeat Status
NR

Course Description
This course provides internship experience in a career-related position and may be either volunteer or paid. The pass or fail grade is based on work performance of at least 10 hours/week for a total of 150 hours/semester.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Special Approval
Instructor permission

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- MSLE3500 - Fundamentals of Marketing
  OR MSLE3800 - Leadership
  OR MGT3700 - Operations Management

MSLE4510 - Consumer Behavior - 2 - Credits

Course Overview

Course Prefix
MSLE

Course Number
4510

Department
Marketing and Strategy

Course Title
Consumer Behavior

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students learn the marketing analysis of the decision processes of individuals, households, businesses, and not-for-profit institutions. The course builds on concepts from psychology, sociology, anthropology, and economics.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Earn a minimum grade of B in the following:

- MSLE3500 - Fundamentals of Marketing

MSLE4535 - Promotional Strategy - 2 - Credits

Course Overview

Course Prefix
MSLE

Course Number
4535

Department
Marketing and Strategy

Course Title
Promotional Strategy

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces students to marketing campaigns by exploring communication strategies necessary for the successful marketing of products and services. The course focuses on various elements of campaign strategy, including advertising, promotions, point-of-purchase communications, direct techniques, and other topics.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Earn a minimum grade of B in the following:

- MSLE3500 - Fundamentals of Marketing

MSLE4541 - Marketing Strategies for Athletes and Influencers - 2 - Credits

Course Overview

Course Prefix
MSLE

Course Number
4541

Department
Marketing and Strategy

Course Title
Marketing Strategies for Athletes and Influencers

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides an introduction to best practices and strategies to capitalize on name, image, and likeness opportunities for student-athletes and others to build personal brands.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Recognize potential personal brand opportunities available for student-athletes and influencers.
2. Leverage resources to craft successful personal brand strategies.
3. Successfully negotiate with businesses and organizations.
4. Evaluate and successfully execute entrepreneurial opportunities.

MSLE4545 - Digital Marketing - 2 - Credits

Course Overview

Course Prefix
MSLE

Course Number
4545

Department
Marketing and Strategy

Course Title
Digital Marketing

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course integrates the technological and managerial aspects of information technology within the business environment. It examines the fit of technology into business and how its deployment changes interactions and processes within organizations, across organizations, within industries, and across society.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Earn a minimum grade of B in the following:

- MSLE3500 - Fundamentals of Marketing

MSLE4555 - Pricing & B2B Buyer-Seller Decisions - 2 - Credits

Course Overview

Course Prefix
MSLE

Course Number
4555

Department
Marketing and Strategy

Course Title
Pricing & B2B Buyer-Seller Decisions

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course emphasizes strategic, conceptual, and tactical aspects of business to business (B2B) marketing and retailing.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Earn a minimum grade of B in the following:

- MSLE3500 - Fundamentals of Marketing

MSLE4560 - Strategic Sales (CI) - 2 - Credits

Course Overview

Course Prefix
MSLE

Course Number
4560

Department
Marketing and Strategy

Course Title
Strategic Sales (CI)

General Education Attribute
CI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course focuses on the development and management of strategic accounts. Emphasis is placed on understanding and practicing all phases of the key account process, including prospecting, contacting, qualifying, proposal presentation, and closing.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

No Requirements

MSLE4562 - Sales and Marketing Practicum - 2 - Credits

Course Overview

Course Prefix
MSLE

Course Number
4562

Department
Marketing and Strategy

Course Title
Sales and Marketing Practicum

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course adopts an experiential learning pedagogy using internships. Students choose to be a sales/business development representative or a marketing representative/analyst for company partners. Students receive coaching from company partners and execute sales and marketing activities for the company.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Other Enrollment Recommendations

MSLE4560 STRATEGIC SALES (CI)

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Earn a minimum grade of B in the following:

- MSLE3500 - Fundamentals of Marketing

Course Learning Objectives

Course Learning Outcomes

1. To provide each student with a practical working knowledge of sales and marketing through a coached sales or marketing internship and interactive class activities.
2. To simulate a real working environment on all levels and deliverables.
3. To achieve the goals and quotas of the internship thereby accelerating students' careers.

MSLE4565 - Sales Management - 2 - Credits

Course Overview

Course Prefix
MSLE

Course Number
4565

Department
Marketing and Strategy

Course Title
Sales Management

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course combines insights from theory and practice to generate a holistic understanding of the sales management field. Students learn how the sales function works with other functional areas to achieve business objectives and how to improve sales function effectiveness.

Credit Hours

Credit Hours Min:
2

Contact Hours

Contact Hours Min:
2

Billing Hours

Billing Hours Min:
2

Lecture Hours

Lecture Hours Min:
2

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- MSLE4560 - Strategic Sales (CI)

MSLE4575 - Customer Success Strategy - 2 - Credits

Course Overview

Course Prefix
MSLE

Course Number
4575

Department
Marketing and Strategy

Course Title
Customer Success Strategy

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students gain a thorough understanding of what to do with customers once they have them, especially within recurring revenue technology businesses. The course provides practical resources for driving the Growth Loop within the Winning By Design Bow Tie Method.

Credit Hours

Credit Hours Min:
2

Contact Hours

Contact Hours Min:
2

Billing Hours

Billing Hours Min:
2

Lecture Hours

Lecture Hours Min:
2

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- MSLE4560 - Strategic Sales (CI)

MSLE4580 - Artificial Intelligence in Marketing Experimental Design - 2 - Credits

Course Overview

Course Prefix
MSLE

Course Number
4580

Department
Marketing and Strategy

Course Title
Artificial Intelligence in Marketing Experimental Design

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Fundamental principles of experimental design are discussed and applied as students leverage artificial intelligence (AI) tools to generate, refine, and test hypotheses relevant to marketing. The research emphasis is using A/B testing to improve business outcomes.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Earn a minimum grade (UG) of B in the following:

- MSLE3500 - Fundamentals of Marketing

Course Learning Objectives

Course Learning Outcomes

1. Leverage AI to generate and refine testable hypotheses relevant to achieving business success.
2. Apply AI guidance to design and execute an A/B test, then analyze and interpret experimental results.
3. Effectively communicate research findings through an oral presentation, providing meaningful insights to enhance business outcomes.
4. Summarize the advantages and limitations of AI-based experimental design in driving data-driven marketing and business decisions.

MSLE4590 - Marketing Strategy - 3 - Credits

Course Overview

Course Prefix
MSLE

Course Number
4590

Department
Marketing and Strategy

Course Title
Marketing Strategy

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course encompasses an analytical approach to strategic marketing problems facing the firm competing in global markets. It emphasizes key analytical and decision-making frameworks concerning the global marketing environment and the marketing mix and their impact on the firm's performance.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Earn a minimum grade of B in the following:

- MSLE3500 - Fundamentals of Marketing

MSLE4609 - Special Topics in Marketing - 2 - Credits

Course Overview

Course Prefix
MSLE

Course Number
4609

Department
Marketing and Strategy

Course Title
Special Topics in Marketing

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course explores emerging trends and advanced marketing strategies, focusing on real-world applications, cutting-edge technologies, and global challenges, while emphasizing ethical practices and data-driven decision-making in marketing.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- MSLE3500 - Fundamentals of Marketing

Course Learning Objectives

Course Learning Outcomes
1. Students will be able to identify and critically evaluate emerging trends and innovations in marketing, applying current research and industry developments.
2. Students will demonstrate the ability to apply advanced marketing theories and concepts to real-world business problems, using case studies and industry examples.
3. Students will be able to design and implement strategic marketing plans tailored to specific industries and markets, utilizing data-driven decision-marking processes.
4. Students will explore and assess new marketing technologies, including AI and digital platforms, as well as their implications for consumer behavior and business strategy.
5. Students will develop the skills to conduct primary and secondary market research, interpreting data to generate insights for strategic marketing initiatives.

MSLE4800 - Independent Research and Readings - 1 - 3 Credits

Course Overview

Course Prefix
MSLE

Course Number
4800

Department
Marketing and Strategy

Course Title
Independent Research and Readings

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course provides the opportunity for students to pursue special interests under tutorship of faculty.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

Special Approval
Instructor permission

No Requirements

MSLE4810 - Local Marketing Career Accelerator - 2 - Credits

Course Overview

Course Prefix
MSLE

Course Number
4810

Department
Marketing and Strategy

Course Title
Local Marketing Career Accelerator

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This capstone course is designed to fast-track the careers of marketing majors by helping them develop the essential skills, confidence, and industry connections necessary for a seamless transition from college to corporate life; focus is on local companies.

Credit Hours

Credit Hours Min:
2

Contact Hours

Contact Hours Min:
2

Billing Hours

Billing Hours Min:
2

Lecture Hours

Lecture Hours Min:
2

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- MSLE3500 - Fundamentals of Marketing

Course Learning Objectives

Course Learning Outcomes
1. Develop an understanding of various corporate roles, career paths, and job opportunities within the marketing field to refine personal career goals.
2. Enhance interview and meeting preparedness by conducting thorough research on individuals, companies, industries, and current events.
3. Cultivate professional poise through active participation in networking events

and real-world business interactions such as corporate site visits and industry-related activities.
4. Build meaningful mentor relationships with industry leaders and peers by fostering thoughtful and intentional connections in corporate environments.

MSLE4820 - National Marketing Career Accelerator - 2 - Credits

Course Overview

Course Prefix
MSLE

Course Number
4820

Department
Marketing and Strategy

Course Title
National Marketing Career Accelerator

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This capstone course is designed to fast-track the careers of marketing majors by helping them develop the essential skills, confidence, and industry connections necessary for a seamless transition from college to corporate life; focus is on national companies.

Credit Hours

Credit Hours Min:
2

Contact Hours

Contact Hours Min:
2

Billing Hours

Billing Hours Min:
2

Lecture Hours

Lecture Hours Min:
2

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- MSLE3500 - Fundamentals of Marketing

Course Learning Objectives

Course Learning Outcomes

1. Develop an understanding of vairous corporate roles, career paths, and job opportunities within the marketing field to refine personal career goals.
2. Enhance interview and meeting preparedness by conducting thorough research on individuals, companies, industries, and current events.
3. Cultivate professional poise through active participation in networking events

and real-world business interactions such as corporate site visits and industry-related activities.
4. Build meaningful mentor relationships with industry leaders and peers by fostering thoughtful and intentional connections in corporate environments.

MSLE4895 - Consulting Skills - 3 - Credits

Course Overview

Course Prefix
MSLE

Course Number
4895

Department
Marketing and Strategy

Course Title

Consulting Skills

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This Consulting Skills course prepares students to be consultants. Students learn how to consult with clients using their technical and non-technical disciplines with various enterprises. They learn systematic processes to solve technical and organizational problems and manage client relations.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Registration Restrictions
Admission to the Consulting Minor

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:
- MGT3600 - Project Management

MSLE6000 - Business Fundamentals - 1 - 3 Credits

Course Overview

Course Prefix
MSLE

Course Number
6000

Department
Marketing and Strategy

Course Title
Business Fundamentals

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides an understanding of essential, fundamental business principles. Students review core concepts, theory, and models of operations management, economics, business statistics, spreadsheet design and analysis, and business law. This course is required by all MBA students.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ACCT2010 - Financial Accounting Principles
- FIN3400 - Corporate Finance (QI) (Inactive)
- MSLE3500 - Fundamentals of Marketing

or business undergraduate degree

MSLE6200 - Executive Influence - 3 - Credits

Course Overview

Course Prefix
MSLE

Course Number
6200

Department
Marketing and Strategy

Course Title
Executive Influence

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students learn negotiation skills, develop negotiation strategy, and learn to manage integrative and distributive aspects of the negotiation process. The course is based on simulated negotiations in various contexts including dyadic, contracts, buyer-seller transactions, dispute resolution, cross-cultural and third-party.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

MSLE6250 - Graduate Internship - 1 - 6 Credits

Course Overview

Course Prefix
MSLE

Course Number
6250

Department
Marketing and Strategy

Course Title
Graduate Internship

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This is a graduate-level internship in a career-related position for graduate students wishing to develop or expand their occupational experience. It can be taken for a maximum of 6 credits.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
6

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
6

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
6

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
6

Lecture Hours Operator:
TO

Special Approval

Instructor permission

No Requirements

MSLE6310 - Career and Professional Development - 1 - 3 Credits

Course Overview

Course Prefix
MSLE

Course Number
6310

Department
Marketing and Strategy

Course Title
Career and Professional Development

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Explores theory and literature of careers, including orientation, as well as early-, mid-, and late-career issues. Students evaluate interests and capabilities, implement a personal development plan, get feedback on career development, and receive an objective outsider assessment of career readiness.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

No Requirements

MSLE6410 - Enterprise and Value Creation - 3 - Credits

Course Overview

Course Prefix
MSLE

Course Number
6410

Department
Marketing and Strategy

Course Title
Enterprise and Value Creation

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course focuses on the development of new ventures, including entrepreneurial competencies, venture teams, recognizing business opportunities, gathering resources, new venture finance, entry strategies, legal structure, licensing and regulatory requirements, patents, copyrights, and product liability.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

MSLE6430 - Enterprise Growth and Management - 2 - 3 Credits

Course Overview

Course Prefix
MSLE

Course Number
6430

Department
Marketing and Strategy

Course Title
Enterprise Growth and Management

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Analyzes the growth phase of business development. Topics include organizational competencies and systems, growth strategies, growth finance and staging, cash-flow, franchising, estate and family business issues, harvest strategies including buyouts and public offerings, and employment law for small employers.

Credit Hours

Credit Hours Min:
2

Credit Hours Max:
3

Credit Hours Operator:
OR

Contact Hours

Contact Hours Min:
2

Contact Hours Max:
3

Contact Hours Operator:
OR

Billing Hours

Billing Hours Min:
2

Billing Hours Max:
3

Billing Hours Operator:
OR

Lecture Hours

Lecture Hours Min:
2

Lecture Hours Max:
3

Lecture Hours Operator:
OR

No Requirements

MSLE6470 - Project Planning and Execution - 3 - Credits

Course Overview

Course Prefix
MSLE

Course Number
6470

Department
Marketing and Strategy

Course Title
Project Planning and Execution

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Teaches concepts of project management, while intensively involving students in entrepreneurship-related projects such as initiating a start-up or consulting with management of an emerging business. Requires integrative organizational and industry research and a professional report.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

MSLE6500 - Marketing Analysis and Decision Making - 3 - Credits

Course Overview

Course Prefix
MSLE

Course Number
6500

Department
Marketing and Strategy

Course Title
Marketing Analysis and Decision Making

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides an introduction to marketing analytics as a strategic resource in creating competitive advantage for businesses. It places an emphasis on developing the ability to think critically about complex problems in real world marketing challenges.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Special Approval

Department permission

No Requirements

MSLE6520 - Enterprise Brand and Marketing - 3 - Credits

Course Overview

Course Prefix
MSLE

Course Number
6520

Department
Marketing and Strategy

Course Title
Enterprise Brand and Marketing

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course encompasses an advanced case approach to current marketing management problems. It emphasizes concepts, research, techniques, decision making, and marketing strategy development.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

MSLE6530 - Marketing Research and Analytics - 3 - Credits

Course Overview

Course Prefix
MSLE

Course Number
6530

Department
Marketing and Strategy

Course Title
Marketing Research and Analytics

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
The purpose of this course is to prepare students to make data-driven marketing decisions about advertising, branding, customer experience, product development, growth, pricing, promotions, salesforce management, etc. The course provides experience identifying, collecting, and analyzing information to improve decision-making.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Special Approval

Department permission

No Requirements

MSLE6640 - Selected Topics in Business Administration - 0.5 - 3 Credits

Course Overview

Course Prefix
MSLE

Course Number
6640

Department
Marketing and Strategy

Course Title
Selected Topics in Business Administration

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course consists of selected topics in management and/or human resources are pursued in depth. Topics and instructor may vary.

Credit Hours

Credit Hours Min:
0.5

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
0.5

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
0.5

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
0.5

Lecture Hours Max:
3

Lecture Hours Operator:
TO

No Requirements

MSLE6641 - Special Topics in Marketing - 0.5 - 3 Credits

Course Overview

Course Prefix
MSLE

Course Number
6641

Department
Marketing and Strategy

Course Title
Special Topics in Marketing

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course consists of selected topics in marketing. Topics and instructor may vary.

Credit Hours

Credit Hours Min:
0.5

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
0.5

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
0.5

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
0.5

Lecture Hours Max:
3

Lecture Hours Operator:
TO

No Requirements

MSLE6642 - Special Topics in Strategy - 0.5 - 3 Credits

Course Overview

Course Prefix
MSLE

Course Number
6642

Department
Marketing and Strategy

Course Title
Special Topics in Strategy

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course consists of selected topics in strategy pursued in depth. Topics and instructor may vary.

Credit Hours

Credit Hours Min:
0.5

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
0.5

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
0.5

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
0.5

Lecture Hours Max:
3

Lecture Hours Operator:
TO

No Requirements

MSLE6643 - Special Topics in Leadership - 0.5 - 3 Credits

Course Overview

Course Prefix
MSLE

Course Number
6643

Department
Marketing and Strategy

Course Title
Special Topics in Leadership

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course consists of selected topics in leadership that are pursued in depth. Topics and instructor may vary.

Credit Hours

Credit Hours Min:
0.5

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
0.5

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
0.5

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
0.5

Lecture Hours Max:
3

Lecture Hours Operator:
TO

No Requirements

MSLE6644 - Special Topics in Entrepreneurship - 0.5 - 3 Credits

Course Overview

Course Prefix
MSLE

Course Number
6644

Department
Marketing and Strategy

Course Title
Special Topics in Entrepreneurship

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course consists of selected topics in entrepreneurship that are pursued in depth. Topics and instructor may vary.

Credit Hours

Credit Hours Min:
0.5

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
0.5

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
0.5

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
0.5

Lecture Hours Max:
3

Lecture Hours Operator:
TO

No Requirements

MSLE6645 - Innovative and Inclusive Leadership - 3 - Credits

Course Overview

Course Prefix
MSLE

Course Number
6645

Department
Marketing and Strategy

Course Title
Innovative and Inclusive Leadership

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course focuses on building innovative leaders who can effectively navigate complex environments, manage constant change, and engage tomorrow's dynamic workforce. Through research-based tools, concepts and frameworks, students learn how leaders effectively utilize strategies for leveraging innovation, diversity, equity and inclusion.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

MSLE6650 - Strategic Sales Management - 3 - Credits

Course Overview

Course Prefix
MSLE

Course Number
6650

Department
Marketing and Strategy

Course Title
Strategic Sales Management

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students learn to build a sales foundation around plays, process and system; to create new value through sales architecture and sales coaching; and to lead innovation with sales blueprinting and technology tools.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

MSLE6741 - Leadership Development - 3 - Credits

Course Overview

Course Prefix
MSLE

Course Number
6741

Department
Marketing and Strategy

Course Title
Leadership Development

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course bridges the practice of leadership with the moral philosophy of leadership. Students learn the long history of leadership theory and the latest research, but they also experience both a hypothetical (case-based) application and real-world application of those ideas.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

MSLE6850 - Shingo Global Strategic Thinking - 0.5 - 3 Credits

Course Overview

Course Prefix
MSLE

Course Number
6850

Department
Marketing and Strategy

Course Title
Shingo Global Strategic Thinking

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Students improve their understanding of global strategic thinking by engaging in the process of “Shingo Go & Observe.” Students participate in global benchmarking visits to recognize operational excellence gaps and strengths, and to identify application opportunities.

Credit Hours

Credit Hours Min:
0.5

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
0.5

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
0.5

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
0.5

Lecture Hours Max:
3

Lecture Hours Operator:
TO

Repeatable for Credit:
6

Registration Restrictions
Admission to the Master of Business Administration - MBA program

Course Learning Objectives

Course Learning Outcomes

1. Recognize operational excellence strengths.
2. Recognize opportunities for improvement.
3. Identify key learning take-aways.
4. Identify insights that they can use to improve their own organizations based on their benchmarking visits.

MSLE6855 - Shingo Workshops - 0.5 - 3 Credits

Course Overview

Course Prefix
MSLE

Course Number
6855

Department
Marketing and Strategy

Course Title
Shingo Workshops

Grade Mode
Temporary Standard Letter

Repeat Status
RP

Course Description
Students improve their understanding of organizational and operational excellence by participating with professionals in the following Shingo Institute workshops: (1) Discover Excellence, (2) Systems Design, (3) Cultural Enablers, (4) Continuous Improvement, and (5) Enterprise Alignment.

Credit Hours

Credit Hours Min:
0.5

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
0.5

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
0.5

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
0.5

Lecture Hours Max:
3

Lecture Hours Operator:
TO

Repeatable for Credit:
6

Registration Restrictions
Admission to the Master of Business Administration - MBA program

Course Learning Objectives

Course Learning Outcomes

1. Recognize how to discover operational excellence.
2. Understand the fundamentals of system design.
3. Understand the principles associated with cultural enablers.
4. Identify the principles that drive continuous improvement.
5. Understand how to align principles, systems and behaviors.

MSLE6860 - Shingo Project - 0.5 - 3 Credits

Course Overview

Course Prefix
MSLE

Course Number
6860

Department
Marketing and Strategy

Course Title
Shingo Project

Grade Mode
Temporary Standard Letter

Repeat Status
RP

Course Description
Students design a system guided by the Shingo Model™ as they complete the capstone "Build Excellence" workshop. The project is intended for students to learn by doing. The project is designed to be implemented at the student's place of employment.

Credit Hours

Credit Hours Min:
0.5

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
0.5

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
0.5

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
0.5

Lecture Hours Max:
3

Lecture Hours Operator:
TO

Repeatable for Credit:
6

Registration Restrictions
Admission to the Master of Business Administration - MBA program

Course Learning Objectives

Course Learning Outcomes

1. Strengthen their abilities to design systems that drive ideal behaviors.
2. Learn how to effectively lead an improvement project.
3. Increase their abilities to think systemically.
4. Increase their abilities to create constancy of purpose.
5. Develop their presentation skills.

MSLE6870 - Global Strategic Thinking - 3 - Credits

Course Overview

Course Prefix
MSLE

Course Number
6870

Department
Marketing and Strategy

Course Title
Global Strategic Thinking

Grade Mode
Standard Letter

Repeat Status
NR

Course Description

This course exposes students to organizations throughout the world in various cultural, economic, political, and legal environments. Students learn how the quest for excellence influences business strategy and enhances agility in responding to dynamic conditions.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

MSLE6890 - Advanced Strategy - 3 - Credits

Course Overview

Course Prefix
MSLE

Course Number
6890

Department
Marketing and Strategy

Course Title
Advanced Strategy

Grade Mode
Standard Letter

Repeat Status
NR

Course Description

This course addresses global competitiveness, strategic assessment, policy development, and strategy execution from a CEO's perspective.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

MSLE6891 - Systems Thinking and Advanced Tactics - 2 - Credits

Course Overview

Course Prefix
MSLE

Course Number
6891

Department
Marketing and Strategy

Course Title
Systems Thinking and Advanced Tactics

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This experiential exercise allows students to combine knowledge from MBA courses with company experience in a quasi-consulting arrangement with executives. Using techniques developed in the course, students advise the company on how it should proceed and how to implement recommendations.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

No Requirements

MSLE6892 - Systems Thinking and Advanced Tactics II - 1 - Credits

Course Overview

Course Prefix
MSLE

Course Number
6892

Department
Marketing and Strategy

Course Title
Systems Thinking and Advanced Tactics II

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course builds upon the concepts taught in MSLE 6891 and is a deep-dive, strategic management course designed as an experiential exercise for students to use the accumulated knowledge from all MBA courses. Students will be working directly with executives in a comprehensive quasi-consulting arrangement. Along with some additional concepts and techniques developed at the beginning of the course, each student will be required to advise the company on which way it should proceed AND then advise them on how this can be implemented in the organization.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

No Requirements

MSLE6900 - Independent Research and Reading - 1 - 3 Credits

Course Overview

Course Prefix
MSLE

Course Number
6900

Department
Marketing and Strategy

Course Title
Independent Research and Reading

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course provides an opportunity for students to pursue special interests under tutorship of the faculty.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

Special Approval

Instructor and department head approval

No Requirements

MSLE6970 - Thesis - 1 - 4 Credits

Course Overview

Course Prefix
MSLE

Course Number
6970

Department
Marketing and Strategy

Course Title
Thesis

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course is designed for students preparing a master's degree thesis.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
4

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
4

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
4

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
4

Lecture Hours Operator:
TO

No Requirements

MSLE6990 - Continuing Graduate Advisement - 1 - 3 Credits

Course Overview

Course Prefix
MSLE

Course Number
6990

Department
Marketing and Strategy

Course Title
Continuing Graduate Advisement

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course is designed for students to work very closely with a faculty mentor on research, a consultative internship or a deep dive into a particular topic. Deliverables and outcomes for this course will be determined collaboratively by the faculty member and student.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

No Requirements

MSLEELEC - Marketing and Strategy Elective - 1 - 3 Credits

Course Overview

Course Prefix
MSLE

Course Number
ELEC

Department
Marketing and Strategy

Course Title
Marketing and Strategy Elective

Grade Mode
Non-gradable

Course Description
This course is used for Elective Credit in Degreeworks

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

No Requirements

MSLEEXPE - Marketing and Strategy International Experience - - Credits

Course Overview

Course Prefix
MSLE

Course Number
EXPE

Department
Marketing and Strategy

Course Title
Marketing and Strategy International Experience

Grade Mode
Non-gradable

Course Description
This course is used for Elective Credit in Degreeworks

Credit Hours

Credit Hours Min:
0

Contact Hours

Contact Hours Min:
0

Billing Hours

Billing Hours Min:
0

Lecture Hours

Lecture Hours Min:
0

No Requirements

MSLEINTLE - Marketing International Language - 2 - 3 Credits

Course Overview

Course Prefix
MSLE

Course Number
INTLE

Department
Marketing and Strategy

Course Title
Marketing International Language

Grade Mode
Non-gradable

Course Description
This course is used for Elective Credit in Degreeworks

Credit Hours

Credit Hours Min:
2

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
2

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
2

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
2

Lecture Hours Max:
3

Lecture Hours Operator:
TO

No Requirements

MSLELANG - Marketing and Strategy International Language - 1 - 16 Credits

Course Overview

Course Prefix
MSLE

Course Number
LANG

Department
Marketing and Strategy

Course Title
Marketing and Strategy International Language

Grade Mode
Non-gradable

Course Description
This course is used for Elective Credit in Degreeworks

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
16

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
16

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
16

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
16

Lecture Hours Operator:
TO

No Requirements

MSLEMKT - Marketing and Strategy Marketing Elective - 2 - Credits

Course Overview

Course Prefix
MSLE

Course Number
MKT

Department
Marketing and Strategy

Course Title
Marketing and Strategy Marketing Elective

Grade Mode
Non-gradable

Course Description
This course is used for Elective Credit in Degreeworks

Credit Hours

Credit Hours Min:
2

Contact Hours

Contact Hours Min:
2

Billing Hours

Billing Hours Min:
2

Lecture Hours

Lecture Hours Min:
2

No Requirements

MSLEMKTRE - Marketing Research - 2 - Credits

Course Overview

Course Prefix
MSLE

Course Number
MKTRE

Department
Marketing and Strategy

Course Title
Marketing Research

Grade Mode
Non-gradable

Course Description
This course is used for Elective Credit in Degreeworks

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

No Requirements

MUSC1010 - Introduction to Music (BCA) - 3 - Credits

Course Overview

Course Prefix
MUSC

Course Number
1010

Department
Music

Course Title
Introduction to Music (BCA)

General Education Attribute
BCA

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This is a nontechnical course to develop critical listening skills. Students explore the meaning and purpose of music in a variety of theoretical, cultural, and historic contexts, helping the student develop a lifelong appreciation of music in all its forms.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

MUSC1050 - Contemporary Pop A Cappella: Context, Arranging, and Performance (BCA) - 3 - Credits

Course Overview

Course Prefix
MUSC

Course Number
1050

Department
Music

Course Title
Contemporary Pop A Cappella: Context, Arranging, and Performance (BCA)

General Education Attribute
BCA

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students learn about the phenomenon called “Collegiate Pop A Cappella.” No previous experience with music studies is required. Assessments include quizzes on history and principles, listening quizzes, song analyses and simple arrangements, and a group performance.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

MUSC1100 - Fundamentals of Music for Non-Music Majors (BCA) - 3 - Credits

Course Overview

Course Prefix
MUSC

Course Number
1100

Department
Music

Course Title
Fundamentals of Music for Non-Music Majors (BCA)

General Education Attribute
BCA

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
In-depth look at the basic elements of music: notes, rhythm, scales, intervals, key signatures, chords, cadences, and chord progressions. Includes basic ear training.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

MUSC1105 - Fundamentals for Music Majors (BCA) - 3 - Credits

Course Overview

Course Prefix
MUSC

Course Number
1105

Department
Music

Course Title
Fundamentals for Music Majors (BCA)

General Education Attribute
BCA

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students study the foundational elements of music. Topics include music notation, instrumental transposition, time signatures, intervals, scales, key signatures, chord labels (root/quality, Roman numerals, lead sheet symbols), non-chord tones, and cadences.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Admission to a Pre-Music, Music, or Music Therapy major

No Requirements

MUSC1110 - Music Theory I (BCA) - 3 - Credits

Course Overview

Course Prefix
MUSC

Course Number
1110

Department
Music

Course Title
Music Theory I (BCA)

General Education Attribute
BCA

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course is part of the foundation of music theory for music majors. Traditional diatonic harmony in four parts, using triads in root position, first inversion, and second inversion.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Earn a minimum grade of C in the following:

- MUSC1105 - Fundamentals for Music Majors (BCA)

MUSC1120 - Music Theory II - 3 - Credits

Course Overview

Course Prefix
MUSC

Course Number
1120

Department
Music

Course Title
Music Theory II

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course is an in-depth study of chromatic harmony and modulation. Topics include secondary dominants, modal mixture, Neapolitan and augmented sixths, closely-related modulation, distantly-delated modulation, binary form, and writing about music for different audiences..

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Admission to Music (MUSC) , Music Education (MSCE), or Music Therapy (MUTH) programs, including Pre-Program Music Department students.

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Earn a minimum grade of C in the following:

- MUSC1110 - Music Theory I (BCA)

MUSC1130 - Aural Skills I - 1 - Credits

Course Overview

Course Prefix
MUSC

Course Number
1130

Department
Music

Course Title
Aural Skills I

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course is the first in a three-semester sequence of aural skills (ear training) courses, which develop the skills of sight singing, dictation, and the composite skill of critical listening.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Simple Requisites

A minimum grade of 'C' in Course MUSC1105

Type
Prerequisite

Required

Earn a minimum grade of C in the following:

- MUSC1105 - Fundamentals for Music Majors (BCA)

MUSC1140 - Aural Skills II - 1 - Credits

Course Overview

Course Prefix
MUSC

Course Number
1140

Department
Music

Course Title
Aural Skills II

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course is the second in a three-semester sequence of aural skills (ear training) courses, which develop the skills of sight singing, dictation, and the composite skill of critical listening

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Earn a minimum grade of C in the following:

- MUSC1130 - Aural Skills I

MUSC1150 - Group Piano - 1 - Credits

Course Overview

Course Prefix
MUSC

Course Number
1150

Department
Music

Course Title
Group Piano

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course consists of group piano instruction for nonmusic majors.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

No Requirements

MUSC1160 - Intermediate Group Piano - 1 - Credits

Course Overview

Course Prefix
MUSC

Course Number
1160

Department
Music

Course Title
Intermediate Group Piano

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Group piano instruction for nonmusic majors.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Earn a minimum grade of C- in the following:

- MUSC1150 - Group Piano

MUSC1170 - Keyboard Harmony I - 1 - Credits

Course Overview

Course Prefix
MUSC

Course Number
1170

Department
Music

Course Title
Keyboard Harmony I

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Development of keyboard skills, in conjunction with MUSC 1105, for pre-music majors and music majors.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Registration Restrictions

Admission to Pre-music and music major programs

No Requirements

MUSC1180 - Keyboard Harmony II - 1 - Credits

Course Overview

Course Prefix
MUSC

Course Number
1180

Department
Music

Course Title
Keyboard Harmony II

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Development of keyboard skills, in conjunction with MUSC 1110, for pre-music majors and music majors.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Earn a minimum grade of C in the following:

- MUSC1170 - Keyboard Harmony I

MUSC1185 - Group Piano for Music Therapy Majors - 1 - Credits

Course Overview

Course Prefix
MUSC

Course Number
1185

Department
Music

Course Title
Group Piano for Music Therapy Majors

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
In this course, students develop piano/keyboard clinical musicianship skills including interpreting lead sheets, developing stylistic accompaniment patterns, and increasing aural skills necessary for effective musicianship within clinical communities.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Registration Restrictions
Admission to Music Therapy majors only

Special Approval
Instructor Permission

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Earn a minimum grade of B- in the following:

- MUSC1170 - Keyboard Harmony I
  AND MUSC1180 - Keyboard Harmony II

MUSC1190 - World Music - 3 - Credits

Course Overview

Course Prefix
MUSC

Course Number
1190

Department
Music

Course Title
World Music

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course explores the diverse musical cultures of the world through an ethnographic perspective.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Admission to a Music or Music Therapy major

No Requirements

MUSC1195 - Global Perspectives in Performance (BCA) - 3 - Credits

Course Overview

Course Prefix
MUSC

Course Number
1195

Department
Music

Course Title
Global Perspectives in Performance (BCA)

General Education Attribute
BCA

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course examines specific musical practices of various world cultures, explores how music is perceived within its sociocultural context, and seeks to establish a mindset for global interconnections.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

MUSC1220 - Individual Harp Instruction for Nonmusic Majors - 1 - 2 Credits

Course Overview

Course Prefix
MUSC

Course Number
1220

Department
Music

Course Title
Individual Harp Instruction for Nonmusic Majors

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Variable credit offered, depending upon lesson time (1 credit equals 30 minutes). Designed to give nonmusic majors private harp instruction at any and all stages of advancement.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
2

Credit Hours Operator:
OR

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
2

Contact Hours Operator:
OR

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
2

Billing Hours Operator:
OR

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
2

Lecture Hours Operator:
OR

No Requirements

MUSC1225 - Individual Pre-Music Harp Instruction - 1 - 2 Credits

Course Overview

Course Prefix
MUSC

Course Number
1225

Department
Music

Course Title
Individual Pre-Music Harp Instruction

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course is designed to give pre-music majors a flexible course of study leading to advanced musical and technical skill, and greater understanding of the instrument and its repertoire. This individualized course employs specific pedagogical strategies. Materials differ from student to student. Enrollment in two credits requires permission from the private instructor and area head. Students advance to 2000-level instruction after successful completion of a jury.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
2

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
2

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
2

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
2

Lecture Hours Operator:
TO

Registration Restrictions

Admission to Pre-music majors only

No Requirements

MUSC1270 - Keyboard Skills I - 1 - Credits

Course Overview

Course Prefix
MUSC

Course Number
1270

Department
Music

Course Title
Keyboard Skills I

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course is designed to develop technical facility and musical fluency at the keyboard. Students focus on skills such as harmonic paradigms, voice-leading, transposition, harmonization, figured bass, improvisation, score reading, and sight reading.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Registration Restrictions

Admission to pre-program or admitted into the Music: Piano Performance and Pedagogy - BM

No Requirements

MUSC1280 - Keyboard Skills II - 1 - Credits

Course Overview

Course Prefix
MUSC

Course Number
1280

Department
Music

Course Title
Keyboard Skills II

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course is designed to develop technical facility and musical fluency at the keyboard. Students focus on skills such as harmonic paradigms, voice-leading, transposition, harmonization, figured bass, improvisation, score reading, and sight reading.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Registration Restrictions

Admission to the pre-program or admitted into the Music: Piano Performance and Pedagogy - BM

No Requirements

MUSC1310 - Introduction to Music Therapy - 2 - Credits

Course Overview

Course Prefix
MUSC

Course Number
1310

Department
Music

Course Title
Introduction to Music Therapy

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Introduces students to the theoretical foundations of the music therapy profession through lectures, readings, experiential work, and clinical observations of music therapy in the community. Course topics include, history of the profession, terminology, populations served, career settings, and research.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

No Requirements

MUSC1320 - Improvisation Facilitation in Music Therapy - 2 - Credits

Course Overview

Course Prefix
MUSC

Course Number
1320

Department
Music

Course Title
Improvisation Facilitation in Music Therapy

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Instructs students on facilitation skills for music therapy individual, dyad, and group ensemble experiences, introducing students to new techniques and instruments traditionally used for improvisatory music-making experiences that are accessible for all clinical communities.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Registration Restrictions

Admission to Music Therapy majors

Simple Requisites

Prerequisite

Type
Completion Requirement

Required

Earn a minimum grade of B in the following:

- MUSC1310 - Introduction to Music Therapy

MUSC1360 - Introduction to Audio Technology - 3 - Credits

Course Overview

Course Prefix
MUSC

Course Number
1360

Department
Music

Course Title
Introduction to Audio Technology

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces the fundamentals and practical applications of audio technology. Topics include signal flow and routing; file handling; microphone principles and applications; signal processing; live sound; audio recording and mixing. Instruction includes in-person demonstrations and hands-on training.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Identify common recording equipment and their uses.
2. Demonstrate a variety of microphone recording and live sound techniques.
3. Participate in live sound reinforcement and recording setup and take down.
4. Demonstrate effect editing and mixing techniques on live audio recordings.

MUSC1430 - Piano Pedagogy I - 3 - Credits

Course Overview

Course Prefix
MUSC

Course Number
1430

Department
Music

Course Title
Piano Pedagogy I

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Designed to prepare qualified pianists to teach piano effectively and to acquaint them with new materials and techniques from the beginning to intermediate levels.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

MUSC1440 - Piano Pedagogy II - 3 - Credits

Course Overview

Course Prefix
MUSC

Course Number
1440

Department
Music

Course Title
Piano Pedagogy II

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Designed to prepare qualified pianists to teach piano effectively and to acquaint them with new materials and techniques from the intermediate to early advanced levels.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

MUSC1450 - Pedagogy Practicum - 1 - Credits

Course Overview

Course Prefix
MUSC

Course Number
1450

Department
Music

Course Title
Pedagogy Practicum

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course provides piano students with actual teaching situations for the practical application of principles studied in piano pedagogy. It includes supervised planning, presentation, and evaluation of lessons.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Registration Restrictions

Admission to the Music: Piano Performance and Pedagogy - BM major

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- MUSC1430 - Piano Pedagogy I

MUSC1460 - Organ Literature I - 3 - Credits

Course Overview

Course Prefix
MUSC

Course Number
1460

Department
Music

Course Title
Organ Literature I

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Examines the history of the organ, as well as composers and literature from the Romantic Period through the end of the Twentieth Century.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

MUSC1470 - Organ Literature II - 3 - Credits

Course Overview

Course Prefix
MUSC

Course Number
1470

Department
Music

Course Title
Organ Literature II

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Examines the history of the organ, as well as composers and literature from the Middle Ages through the Baroque Period.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

MUSC1480 - Individual Piano Instruction for Nonmusic Majors - 1 - 2 Credits

Course Overview

Course Prefix
MUSC

Course Number
1480

Department
Music

Course Title
Individual Piano Instruction for Nonmusic Majors

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Variable credit offered, depending upon lesson time (1 credit equals 30 minutes). Designed to give nonmusic majors private piano instruction at any and all stages of advancement.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
2

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
2

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
2

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
2

Lecture Hours Operator:
TO

No Requirements

MUSC1484 - Individual Pre-Music Piano Instruction for Music Therapy Majors - 1 - 2 Credits

Course Overview

Course Prefix
MUSC

Course Number
1484

Department
Music

Course Title
Individual Pre-Music Piano Instruction for Music Therapy Majors

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course is designed to give pre-music majors a flexible course of study leading to advanced musical and technical skill, and greater understanding of the instrument and its repertoire. This individualized course employs specific pedagogical strategies. Materials differ from student to student. Enrollment in two credits requires permission from the private instructor and area head. Students advance to 2000-level instruction after successful completion of a jury.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
2

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
2

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
2

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
2

Lecture Hours Operator:
TO

Registration Restrictions

Admission to Music therapy majors only

No Requirements

MUSC1485 - Individual Pre-Music Piano Instruction - 1 - 2 Credits

Course Overview

Course Prefix
MUSC

Course Number
1485

Department
Music

Course Title
Individual Pre-Music Piano Instruction

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course is designed to give pre-music majors a flexible course of study leading to advanced musical and technical skill, and greater understanding of the instrument and its repertoire. This individualized course employs specific pedagogical strategies. Materials differ from student to student. Enrollment in two credits requires permission from the private instructor and area head. Students advance to 2000-level instruction after successful completion of a jury.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
2

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
2

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
2

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
2

Lecture Hours Operator:
TO

Registration Restrictions

Admission to Pre-music majors only

No Requirements

MUSC1490 - Individual Organ Instruction for Nonmusic Majors - 1 - 2 Credits

Course Overview

Course Prefix
MUSC

Course Number
1490

Department
Music

Course Title
Individual Organ Instruction for Nonmusic Majors

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Variable credit offered, depending upon lesson time (1 credit equals 30 minutes). Designed to give nonmusic majors private organ instruction at any and all stages of advancement.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
2

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
2

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
2

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
2

Lecture Hours Operator:
TO

No Requirements

MUSC1495 - Individual Pre-Music Organ Instruction - 1 - 2 Credits

Course Overview

Course Prefix
MUSC

Course Number
1495

Department
Music

Course Title
Individual Pre-Music Organ Instruction

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course is designed to give pre-music majors a flexible course of study leading to advanced musical and technical skill, and greater understanding of the instrument and its repertoire. This individualized course employs specific pedagogical strategies. Materials differ from student to student. Enrollment in two credits requires permission from the private instructor and area head. Students advance to 2000-level instruction after successful completion of a jury.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
2

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
2

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
2

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
2

Lecture Hours Operator:
TO

Registration Restrictions

Admission to Pre-music majors only

No Requirements

MUSC1500 - String Techniques - 1 - Credits

Course Overview

Course Prefix
MUSC

Course Number
1500

Department
Music

Course Title
String Techniques

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Designed to give non-string music education majors a basic playing experience and theoretical understanding of the string instruments.

Credit Hours

Credit Hours Min:
1

Contact Hours

Contact Hours Min:
1

Billing Hours

Billing Hours Min:
1

Lecture Hours

Lecture Hours Min:
1

Registration Restrictions

Admission to Pre-major music and Music majors only

No Requirements

MUSC1510 - Individual Cello Instruction for Nonmusic Majors - 1 - 2 Credits

Course Overview

Course Prefix
MUSC

Course Number
1510

Department
Music

Course Title
Individual Cello Instruction for Nonmusic Majors

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Variable credit is offered for this course depending upon lesson time (1 credit equals 30 minutes). It is designed to give nonmusic majors private cello instruction at any and all stages of advancement.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
2

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
2

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
2

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
2

Lecture Hours Operator:
TO

No Requirements

MUSC1515 - Individual Pre-major Cello Instruction - 1 - 2 Credits

Course Overview

Course Prefix
MUSC

Course Number
1515

Department
Music

Course Title
Individual Pre-major Cello Instruction

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course is designed to give pre-music majors a flexible course of study leading to advanced musical and technical skill, and greater understanding of the instrument and its repertoire. This individualized course employs specific pedagogical strategies. Materials differ from student to student. Enrollment in two credits requires permission from the private instructor and area head. Students advance to 2000-level instruction after successful completion of a jury.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
2

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
2

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
2

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
2

Lecture Hours Operator:
TO

Registration Restrictions

Admission to Pre-music majors only

No Requirements

MUSC1520 - Individual Viola Instruction for Nonmusic Majors - 1 - 2 Credits

Course Overview

Course Prefix
MUSC

Course Number
1520

Department
Music

Course Title
Individual Viola Instruction for Nonmusic Majors

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Variable credit offered, depending upon lesson time (1 credit equals 30 minutes). Designed to give nonmusic majors private viola instruction at any and all stages of advancement.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
2

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
2

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
2

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
2

Lecture Hours Operator:
TO

No Requirements

MUSC1525 - Individual Pre-music Viola Instruction - 1 - 2 Credits

Course Overview

Course Prefix
MUSC

Course Number
1525

Department
Music

Course Title
Individual Pre-music Viola Instruction

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course is designed to give pre-music majors a flexible course of study leading to advanced musical and technical skill, and greater understanding of the instrument and its repertoire. This individualized course employs specific pedagogical strategies. Materials differ from student to student. Enrollment in two credits requires permission from the private instructor and area head. The student advances to 2000-level instruction after successful completion of a jury.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
2

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
2

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
2

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
2

Lecture Hours Operator:
TO

Registration Restrictions

Admission to Pre-music majors only

No Requirements

MUSC1530 - Individual Violin Instruction for Nonmusic Majors - 1 - 2 Credits

Course Overview

Course Prefix
MUSC

Course Number
1530

Department
Music

Course Title
Individual Violin Instruction for Nonmusic Majors

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Variable credit offered, depending upon lesson time (1 credit equals 30 minutes). Designed to give nonmusic majors private violin instruction at any and all stages of advancement.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
2

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
2

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
2

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
2

Lecture Hours Operator:
TO

No Requirements

MUSC1535 - Individual Pre-Music Violin Instruction - 1 - 2 Credits

Course Overview

Course Prefix
MUSC

Course Number
1535

Department
Music

Course Title
Individual Pre-Music Violin Instruction

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course is designed to give pre-music majors a flexible course of study leading to advanced musical and technical skill, and greater understanding of the instrument and its repertoire. This individualized course employs specific pedagogical strategies. Materials differ from student to student. Enrollment in two credits requires permission from the private instructor and area head. Students advance to 2000-level instruction after successful completion of a jury.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
2

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
2

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
2

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
2

Lecture Hours Operator:
TO

Registration Restrictions

Admission to Pre-music majors only

No Requirements

MUSC1540 - Individual String Bass Instruction for Nonmusic Majors - 1 - 2 Credits

Course Overview

Course Prefix
MUSC

Course Number
1540

Department
Music

Course Title
Individual String Bass Instruction for Nonmusic Majors

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Variable credit offered, depending upon lesson time (1 credit equals 30 minutes). Designed to give nonmusic majors private string bass instruction at any and all stages of advancement.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
2

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
2

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
2

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
2

Lecture Hours Operator:
TO

No Requirements

MUSC1545 - Individual Pre-Music String Bass Instruction - 1 - 2 Credits

Course Overview

Course Prefix
MUSC

Course Number
1545

Department
Music

Course Title
Individual Pre-Music String Bass Instruction

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course is designed to give pre-music majors a flexible course of study leading to advanced musical and technical skill, and greater understanding of the instrument and its repertoire. This individualized course employs specific pedagogical strategies. Materials differ from student to student. Enrollment in two credits requires permission from the private instructor and area head. Students advance to 2000-level instruction after successful completion of a jury.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
2

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
2

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
2

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
2

Lecture Hours Operator:
TO

Registration Restrictions

Admission to Pre-music majors only

No Requirements

MUSC1550 - Beginning Group Guitar - 1 - Credits

Course Overview

Course Prefix
MUSC

Course Number
1550

Department
Music

Course Title
Beginning Group Guitar

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Fundamentals of guitar; basic chords, note reading, tablature reading, and accompaniment styles, including strumming and fingerpicking.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

No Requirements

MUSC1555 - Group Guitar for Music Therapists - 1 - Credits

Course Overview

Course Prefix
MUSC

Course Number
1555

Department
Music

Course Title
Group Guitar for Music Therapists

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
A Beginning Group Guitar course teaching repertoire, improvisation, transposition and accompaniment skills relevant to the duties of a Music Therapist.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Registration Restrictions
Admission to the Music Therapy major

No Requirements

MUSC1560 - Intermediate Group Guitar - 1 - Credits

Course Overview

Course Prefix
MUSC

Course Number
1560

Department
Music

Course Title
Intermediate Group Guitar

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Intermediate-level strumming and fingerpicking techniques, barre chords, and solos written in standard notation and tablature will be presented.

Credit Hours

Credit Hours Min:
1

Contact Hours

Contact Hours Min:
1

Billing Hours

Billing Hours Min:
1

Lecture Hours

Lecture Hours Min:
1

No Requirements

MUSC1580 - Individual Guitar Instruction for Nonmusic Majors - 1 - 2 Credits

Course Overview

Course Prefix
MUSC

Course Number
1580

Department
Music

Course Title
Individual Guitar Instruction for Nonmusic Majors

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Variable credit offered, depending upon lesson time (1 credit equals 30 minutes). Designed to give nonmusic majors private guitar instruction at any and all stages of advancement.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
2

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
2

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
2

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
2

Lecture Hours Operator:
TO

No Requirements

MUSC1585 - Individual Pre-music Guitar Instruction - 1 - 2 Credits

Course Overview

Course Prefix
MUSC

Course Number
1585

Department
Music

Course Title
Individual Pre-music Guitar Instruction

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course is designed to give pre-music majors a flexible course of study leading to advanced musical and technical skill, and greater understanding of the instrument and its repertoire. This individualized course employs specific pedagogical strategies. Materials differ from student to student. Enrollment in two credits requires permission from the private instructor and area head. Students advance to 2000-level instruction after successful completion of a jury.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
2

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
2

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
2

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
2

Lecture Hours Operator:
TO

Registration Restrictions

Admission to Pre-music majors only

No Requirements

MUSC1600 - Voice Techniques - 1 - Credits

Course Overview

Course Prefix
MUSC

Course Number
1600

Department
Music

Course Title
Voice Techniques

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Acquaints the nonvocal Music Education major with the vocal instrument; its mechanism, terminology, and techniques.

Credit Hours

Credit Hours Min:
1

Contact Hours

Contact Hours Min:
1

Billing Hours

Billing Hours Min:
1

Lecture Hours

Lecture Hours Min:
1

Registration Restrictions

Admission to the Pre-program Music, Music major, Music Education major, or Music Therapy major

No Requirements

MUSC1610 - Introduction to Musical Theatre - 2 - Credits

Course Overview

Course Prefix
MUSC

Course Number
1610

Department
Music

Course Title
Introduction to Musical Theatre

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Survey course dealing with history, evolution, influence, practice, and production of the American Musical Theatre.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

No Requirements

MUSC1620 - Introduction to Opera - 2 - Credits

Course Overview

Course Prefix
MUSC

Course Number
1620

Department
Music

Course Title
Introduction to Opera

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Survey course tracing history and style of opera from Peri and Caccini's "Eurdice" of 1594 to contemporary works of John Eaton and Phillip Glass.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

No Requirements

MUSC1630 - Individual Vocal Instruction for Nonmusic Majors - 1 - 2 Credits

Course Overview

Course Prefix
MUSC

Course Number
1630

Department
Music

Course Title
Individual Vocal Instruction for Nonmusic Majors

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Variable credit offered, depending upon lesson time (1 credit equals 30 minutes). Designed to give nonmusic majors private vocal instruction at any and all stages of advancement.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
2

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
2

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
2

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
2

Lecture Hours Operator:
TO

No Requirements

MUSC1635 - Individual Pre-Music Voice Instruction - 1 - 2 Credits

Course Overview

Course Prefix
MUSC

Course Number
1635

Department
Music

Course Title
Individual Pre-Music Voice Instruction

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course is designed to give pre-music majors a flexible course of study leading to advanced musical and technical skill, and greater understanding of the instrument and its repertoire. This individualized course employs specific pedagogical strategies. Materials differ from student to student. Enrollment in two credits requires permission from the private instructor and area head. Students advance to 2000-level instruction after successful completion of a jury.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
2

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
2

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
2

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
2

Lecture Hours Operator:
TO

Registration Restrictions

Admission to Pre-music majors only

No Requirements

MUSC1700 - Individual Flute Instruction for Nonmusic Majors - 1 - 2 Credits

Course Overview

Course Prefix
MUSC

Course Number
1700

Department
Music

Course Title
Individual Flute Instruction for Nonmusic Majors

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Variable credit offered, depending upon lesson time (1 credit equals 30 minutes). Designed to give nonmusic majors private flute instruction at any and all stages of advancement.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
2

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
2

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
2

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
2

Lecture Hours Operator:
TO

No Requirements

MUSC1705 - Individual Pre-music Flute Instruction - 1 - 3 Credits

Course Overview

Course Prefix
MUSC

Course Number
1705

Department
Music

Course Title
Individual Pre-music Flute Instruction

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course is designed to give pre-music majors a flexible course of study leading to advanced musical and technical skill, and greater understanding of the instrument and its repertoire. This individualized course employs specific pedagogical strategies. Materials differ from student to student. Enrollment in two credits requires permission from the private instructor and area head. Students advance to 2000-level instruction after successful completion of a jury.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

Registration Restrictions

Admission to Pre-music majors only

No Requirements

MUSC1710 - Individual Oboe Instruction for Nonmusic Majors - 1 - 2 Credits

Course Overview

Course Prefix
MUSC

Course Number
1710

Department
Music

Course Title
Individual Oboe Instruction for Nonmusic Majors

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Variable credit offered, depending upon lesson time (1 credit equals 30 minutes). Designed to give nonmusic majors private oboe instruction at any and all stages of advancement.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
2

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
2

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
2

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
2

Lecture Hours Operator:
TO

No Requirements

MUSC1715 - Individual Pre-Music Oboe Instruction - 1 - 3 Credits

Course Overview

Course Prefix
MUSC

Course Number
1715

Department
Music

Course Title
Individual Pre-Music Oboe Instruction

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course is designed to give pre-music majors a flexible course of study leading to advanced musical and technical skill, and greater understanding of the instrument and its repertoire. This individualized course employs specific pedagogical strategies. Materials differ from student to student. Enrollment in two credits requires permission from the private instructor and area head. Students advance to 2000-level instruction after successful completion of a jury.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

Registration Restrictions

Admission to Pre-music majors only

No Requirements

MUSC1720 - Individual Clarinet Instruction for Nonmusic Majors - 1 - 2 Credits

Course Overview

Course Prefix
MUSC

Course Number
1720

Department
Music

Course Title
Individual Clarinet Instruction for Nonmusic Majors

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Variable credit offered, depending upon lesson time (1 credit equals 30 minutes). Designed to give nonmusic majors private clarinet instruction at any and all stages of advancement.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
2

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
2

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
2

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
2

Lecture Hours Operator:
TO

No Requirements

MUSC1725 - Individual Pre-Music Clarinet Instruction - 1 - 3 Credits

Course Overview

Course Prefix
MUSC

Course Number
1725

Department
Music

Course Title
Individual Pre-Music Clarinet Instruction

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course is designed to give pre-music majors a flexible course of study leading to advanced musical and technical skill, and greater understanding of the instrument and its repertoire. This individualized course employs specific pedagogical strategies. Materials differ from student to student. Enrollment in two credits requires permission from the private instructor and area head. Students advance to 2000-level instruction after successful completion of a jury.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

Registration Restrictions

Admission to Pre-music majors only

No Requirements

MUSC1730 - Individual Bassoon Instruction for Nonmusic Majors - 1 - 2 Credits

Course Overview

Course Prefix
MUSC

Course Number
1730

Department
Music

Course Title
Individual Bassoon Instruction for Nonmusic Majors

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Variable credit offered, depending upon lesson time (1 credit equals 30 minutes). Designed to give nonmusic majors private bassoon instruction at any and all stages of advancement.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
2

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
2

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
2

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
2

Lecture Hours Operator:
TO

No Requirements

MUSC1735 - Individual Pre-Music Bassoon Instruction - 1 - 3 Credits

Course Overview

Course Prefix
MUSC

Course Number
1735

Department
Music

Course Title
Individual Pre-Music Bassoon Instruction

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course is designed to give pre-music majors a flexible course of study leading to advanced musical and technical skill, and greater understanding of the instrument and its repertoire. This individualized course employs specific pedagogical strategies. Materials differ from student to student. Enrollment in two credits requires permission from the private instructor and area head. Students advance to 2000-level instruction after successful completion of a jury.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

Registration Restrictions
Admission to Pre-music majors only

No Requirements

MUSC1740 - Individual Saxophone Instruction for Nonmusic Majors - 1 - 2 Credits

Course Overview

Course Prefix
MUSC

Course Number
1740

Department
Music

Course Title
Individual Saxophone Instruction for Nonmusic Majors

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Variable credit offered, depending upon lesson time (1 credit equals 30 minutes). Designed to give nonmusic majors private saxophone instruction at any and all stages of advancement.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
2

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
2

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
2

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
2

Lecture Hours Operator:
TO

No Requirements

MUSC1745 - Individual Pre-Music Saxophone Instruction - 1 - 3 Credits

Course Overview

Course Prefix
MUSC

Course Number
1745

Department
Music

Course Title
Individual Pre-Music Saxophone Instruction

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course is designed to give pre-music majors a flexible course of study leading to advanced musical and technical skill, and greater understanding of the instrument and its repertoire. This individualized course employs specific pedagogical strategies. Materials differ from student to student. Enrollment in two credits requires permission from the private instructor and area head. Students advance to 2000-level instruction after successful completion of a jury.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

Registration Restrictions

Admission to Pre-music majors only

No Requirements

MUSC1800 - Percussion Techniques - 1 - Credits

Course Overview

Course Prefix
MUSC

Course Number
1800

Department
Music

Course Title
Percussion Techniques

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Provides basic playing experience and theoretical understanding of percussion instruments. Designed for Music Education majors.

Credit Hours

Credit Hours Min:
1

Contact Hours

Contact Hours Min:
1

Billing Hours

Billing Hours Min:
1

Lecture Hours

Lecture Hours Min:
1

Registration Restrictions

Admission to the Pre-program music, Music major, Music Education major, or Music Therapy major

No Requirements

MUSC1810 - Individual Trumpet Instruction for Nonmusic Majors - 1 - 2 Credits

Course Overview

Course Prefix
MUSC

Course Number
1810

Department
Music

Course Title
Individual Trumpet Instruction for Nonmusic Majors

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Variable credit offered, depending upon lesson time (1 credit equals 30 minutes). Designed to give nonmusic majors private trumpet instruction at any and all stages of advancement.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
2

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
2

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
2

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
2

Lecture Hours Operator:
TO

No Requirements

MUSC1815 - Individual Pre-Music Trumpet Instruction - 1 - 3 Credits

Course Overview

Course Prefix
MUSC

Course Number
1815

Department
Music

Course Title
Individual Pre-Music Trumpet Instruction

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course is designed to give pre-music majors a flexible course of study leading to advanced musical and technical skill, and greater understanding of the instrument and its repertoire. This individualized course employs specific pedagogical strategies. Materials differ from student to student. Enrollment in two credits requires permission from the private instructor and area head. Students advance to 2000-level instruction after successful completion of a jury.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

Registration Restrictions

Admission to Pre-music majors only

No Requirements

MUSC1820 - Individual Trombone Instruction for Nonmusic Majors - 1 - 2 Credits

Course Overview

Course Prefix
MUSC

Course Number
1820

Department
Music

Course Title
Individual Trombone Instruction for Nonmusic Majors

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Variable credit offered, depending upon lesson time (1 credit equals 30 minutes). Designed to give nonmusic majors private trombone instruction at any and all stages of advancement.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
2

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
2

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
2

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
2

Lecture Hours Operator:
TO

No Requirements

MUSC1825 - Individual Pre-Music Trombone Instruction - 1 - 3 Credits

Course Overview

Course Prefix
MUSC

Course Number
1825

Department
Music

Course Title
Individual Pre-Music Trombone Instruction

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course is designed to give pre-music majors a flexible course of study leading to advanced musical and technical skill, and greater understanding of the instrument and its repertoire. This individualized course employs specific pedagogical strategies. Materials differ from student to student. Enrollment for two credits requires permission from the private instructor and area head. Students advance to 2000-level instruction after successful completion of a jury.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

Registration Restrictions

Admission to Pre-music majors only

No Requirements

MUSC1830 - Individual French Horn Instruction for Nonmusic Majors - 1 - 2 Credits

Course Overview

Course Prefix
MUSC

Course Number
1830

Department
Music

Course Title
Individual French Horn Instruction for Nonmusic Majors

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Variable credit offered, depending upon lesson time (1 credit equals 30 minutes). Designed to give nonmusic majors private French horn instruction at any and all stages of advancement.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
2

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
2

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
2

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
2

Lecture Hours Operator:
TO

No Requirements

MUSC1835 - Individual Pre-music French Horn Instruction - 1 - 3 Credits

Course Overview

Course Prefix
MUSC

Course Number
1835

Department
Music

Course Title
Individual Pre-music French Horn Instruction

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course is designed to give pre-music majors a flexible course of study leading to advanced musical and technical skill, and greater understanding of the instrument and its repertoire. This individualized course employs specific pedagogical strategies. Materials differ from student to student. Enrollment in two credits requires permission from the private instructor and area head. Students advance to 2000-level instruction after successful completion of a jury.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

Registration Restrictions
Admission to Pre-music majors only

No Requirements

MUSC1840 - Individual Tuba/Euphonium Instruction for Nonmusic Majors - 1 - 2 Credits

Course Overview

Course Prefix
MUSC

Course Number
1840

Department
Music

Course Title
Individual Tuba/Euphonium Instruction for Nonmusic Majors

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Variable credit offered, depending upon lesson time (1 credit equals 30 minutes). Designed to give nonmusic majors private tuba/euphonium instruction at any and all stages of advancement.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
2

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
2

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
2

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
2

Lecture Hours Operator:
TO

No Requirements

MUSC1845 - Individual Pre-Music Tuba/ Euphonium Instruction - 1 - 3 Credits

Course Overview

Course Prefix
MUSC

Course Number
1845

Department
Music

Course Title
Individual Pre-Music Tuba/Euphonium Instruction

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course is designed to give pre-music majors a flexible course of study leading to advanced musical and technical skill, and greater understanding of the instrument and its repertoire. This individualized course employs specific pedagogical strategies. Materials differ from student to student. Enrollment in two credits requires permission from the private instructor and area head. Students advance to 2000-level instruction after successful completion of a jury.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

Registration Restrictions
Admission to Pre-music majors only

No Requirements

MUSC1850 - Individual Percussion Instruction for Nonmusic Majors - 1 - 2 Credits

Course Overview

Course Prefix
MUSC

Course Number
1850

Department
Music

Course Title
Individual Percussion Instruction for Nonmusic Majors

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Variable credit offered, depending upon lesson time (1 credit equals 30 minutes). Designed to give nonmusic majors private percussion instruction at any and all stages of advancement.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
2

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
2

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
2

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
2

Lecture Hours Operator:
TO

No Requirements

MUSC1855 - Individual Pre-Music Percussion Instruction - 1 - 3 Credits

Course Overview

Course Prefix
MUSC

Course Number
1855

Department
Music

Course Title
Individual Pre-Music Percussion Instruction

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course is designed to give pre-music majors a flexible course of study leading to advanced musical and technical skill, and greater understanding of the instrument and its repertoire. This individualized course employs specific pedagogical strategies. Materials differ from student to student. Enrollment in two credits requires permission from the private instructor and area head. Students advance to 2000-level instruction after successful completion of a jury.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

Registration Restrictions
Admission to Pre-music majors only

No Requirements

MUSC2110 - Music Theory III - 3 - Credits

Course Overview

Course Prefix
MUSC

Course Number
2110

Department
Music

Course Title
Music Theory III

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course is an in-depth study of musical form and overview of post-tonal music and analysis. Topics include fugue, ternary form, variations, sonata form, rondo form, song forms, analysis of complete pieces of music, and large-scale analytical writing.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Registration Restrictions
Admission to Music (MUSC), Music Education (MSCE), or Music Therapy (MUTH) programs, including Pre-Program Music Department students.

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Earn a minimum grade of C in the following:

- MUSC1120 - Music Theory II

MUSC2120 - Music Theory IV - 3 - Credits

Course Overview

Course Prefix
MUSC

Course Number
2120

Department
Music

Course Title
Music Theory IV

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course studies the twentieth-century tonal, atonal, and avant-garde harmonies and compositional techniques.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Earn a minimum grade of C in the following:

- MUSC2110 - Music Theory III
- MUSC3120 - Music History II: The Baroque and Classical Periods

MUSC2130 - Aural Skills III - 1 - Credits

Course Overview

Course Prefix
MUSC

Course Number
2130

Department
Music

Course Title
Aural Skills III

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course is the third in a three-semester sequence of aural skills (ear training) courses, which develop the skills of sight singing, dictation, and the composite skill of critical listening.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Earn a minimum grade of C in the following:

- MUSC1140 - Aural Skills II

MUSC2180 - Computer Applications in Music Proficiency Exam - 1 - Credits

Course Overview

Course Prefix
MUSC

Course Number
2180

Department
Music

Course Title
Computer Applications in Music Proficiency Exam

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course consists of a series of three proficiency exams that all music majors must complete prior to completion of four semesters of study.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Registration Restrictions

Admission to one of the following programs:

- Pre- Music Education
- Music Education
- Pre-Music Therapy
- Music Therapy

No Requirements

MUSC2210 - Advanced Conducting Ensemble - 1 - Credits

Course Overview

Course Prefix
MUSC

Course Number
2210

Department
Music

Course Title
Advanced Conducting Ensemble

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Lab ensemble for MUSC 4240. Music and non-music majors perform on major and secondary instruments or voice. Section 1 (Fall) is instrumental, Section 2 (Spring) is choral.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

No Requirements

MUSC2220 - Individual Harp Instruction (Second Instrument) for Music Majors - 1 - Credits

Course Overview

Course Prefix
MUSC

Course Number
2220

Department
Music

Course Title
Individual Harp Instruction (Second Instrument) for Music Majors

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Designed to give music majors private harp instruction at any and all stages of advancement. One credit given for 30-minute lessons.

Credit Hours

Credit Hours Min:
1

Contact Hours

Contact Hours Min:
1

Billing Hours

Billing Hours Min:
1

Lecture Hours

Lecture Hours Min:
1

Registration Restrictions

Admission to a Pre-Music major, Music major, Music Education major, or Music Therapy major

No Requirements

MUSC2225 - Individual Pre-Barrier Harp Instruction - 1 - 2 Credits

Course Overview

Course Prefix
MUSC

Course Number
2225

Department
Music

Course Title
Individual Pre-Barrier Harp Instruction

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course is designed to give pre-barrier majors a flexible course of study leading to advanced musical and technical skill, and greater understanding of the instrument and its repertoire. This individualized course employs specific pedagogical strategies. Materials differ from student to student. Enrollment in two credits requires permission from the private instructor and area head. Students advance to 3/4000-level instruction after successful completion of a barrier jury.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
2

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
2

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
2

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
2

Lecture Hours Operator:
TO

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- MUSC1225 - Individual Pre-Music Harp Instruction

MUSC2240 - Introduction to Music Business - 3 - Credits

Course Overview

Course Prefix
MUSC

Course Number
2240

Department
Music

Course Title
Introduction to Music Business

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides a basic knowledge of the inner workings of the business of music. Record label management, marketing, product development, accounting principles, budget development and show/product concept management will be examined and business techniques as relating to music will be explored.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

MUSC2265 - Audio Technology Practicum - 1 - 2 Credits

Course Overview

Course Prefix
MUSC

Course Number
2265

Department
Music

Course Title
Audio Technology Practicum

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course is designed to give students one-on-one and small group interaction and instruction. Students propose and work on approved music technology related projects developing composition, recording, editing and mixing, performance and collaboration skills with feedback and guidance.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
2

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
2

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
2

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
2

Lecture Hours Operator:
TO

Special Approval
Instructor permission

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- MUSC1360 - Introduction to Audio Technology

Course Learning Objectives

Course Learning Outcomes

1. Discuss and create a project or series of projects and activities that will provide meaningful work experience in audio technology.

2. Create and present a portfolio of your work.

MUSC2270 - Keyboard Improvisation - 1 - Credits

Course Overview

Course Prefix
MUSC

Course Number
2270

Department
Music

Course Title
Keyboard Improvisation

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course introduces pianists to the art of improvisation in jazz, popular, and other music styles.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- MUSC1280 - Keyboard Skills II
  OR MUSC2494 - Individual Pre-Barrier Piano Instruction for Music Therapy Majors

MUSC2275 - Audio Technology Capstone - 2 - Credits

Course Overview

Course Prefix
MUSC

Course Number
2275

Department
Music

Course Title
Audio Technology Capstone

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This class is intended for students wishing to complete a more comprehensive project in audio technology.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Special Approval
Instructor permission

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- MUSC4930 - Readings and Conference
  OR MUSC1360 - Introduction to Audio Technology

Course Learning Objectives

Course Learning Outcomes
1. Discuss and create a project or series of projects and activities that will provide meaningful work experience in audio technology.
2. Create and present a portfolio of your work.

MUSC2310 - Music Therapy Treatment I - 2 - Credits

Course Overview

Course Prefix
MUSC

Course Number
2310

Department
Music

Course Title
Music Therapy Treatment I

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course connects the music therapy treatment protocol (i.e. assessment, treatment plan, and evaluation) with the four methods of music therapy. Students will participate in lectures, readings, class experientials, and observations of clinical communities.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Registration Restrictions
Admission to music therapy majors

Special Approval
Instructor permission

Other Enrollment Recommendations
Successful Completion of Level I Exam

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Earn a minimum Standard of B in the following:

- MUSC1310 - Introduction to Music Therapy

MUSC2320 - Music Therapy Treatment II - 2 - Credits

Course Overview

Course Prefix
MUSC

Course Number
2320

Department
Music

Course Title
Music Therapy Treatment II

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course continues to connect the music therapy treatment protocol (i.e. assessment, treatment plan, and evaluation) with the four methods of music therapy. Students will participate in lectures, readings, class experientials, and observations of clinical communities.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Earn a minimum grade of B in the following:

- MUSC2310 - Music Therapy Treatment I

MUSC2350 - Conducting - 2 - Credits

Course Overview

Course Prefix
MUSC

Course Number
2350

Department
Music

Course Title
Conducting

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Designed to provide students with basic conducting techniques.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Registration Restrictions

Admission to one of the following programs:

- Pre- Music Education
- Music Education
- Pre-Music Therapy
- Music Therapy

MUSC2360 - Live Music Production - 3 - Credits

Course Overview

Course Prefix
MUSC

Course Number
2360

Department
Music

Course Title
Live Music Production

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces students to the aesthetic considerations and operation of equipment used in live sound, audio recording, and streaming. Topics include mixing consoles; individual and ensemble microphone techniques; planning, setting up, and running a successful live sound production.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ANY of the following Courses:

- MUSC1360 - Introduction to Audio Technology
  OR MUSC4930 - Readings and Conference

Course Learning Objectives

Course Learning Outcomes
1. Create and interpret stage plots and channel assignment lists.

2. Participate in setting up, managing, and taking down sound reinforcement equipment at several live events.

3. Identify and operate key functions and proper usage of a mixing console.

4. Demonstrate effective communications, planning, and participation in a live sound event.

MUSC2370 - Music Recording and Post-Production - 3 - Credits

Course Overview

Course Prefix
MUSC

Course Number
2370

Department
Music

Course Title
Music Recording and Post-Production

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course is a hands-on study of recording, mixing, and post-production techniques. Through a series of hands-on recording and mixing projects, students will learn microphones fundamentals; recording techniques; session management and file exchange; editing, mixing, and mastering techniques.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- MUSC1360 - Introduction to Audio Technology
  OR MUSC4930 - Readings and Conference

Course Learning Objectives

Course Learning Outcomes

1. Identify common recording equipment and their uses.

2. Demonstrate proper microphone and recording techniques for a variety of instruments.

3. Participate in several studio recording experiences.

4. Edit and mix audio recordings with a variety of multimedia formats.

5. Demonstrate an understanding of appropriate formats and industry standards in audio and multimedia.

MUSC2390 - Audio Technology Internship - 3 - Credits

Course Overview

Course Prefix
MUSC

Course Number
2390

Department
Music

Course Title
Audio Technology Internship

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides audio technology internship experience in a career-related position approved by the instructor.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Special Approval
Instructor approval

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- MUSC1360 - Introduction to Audio Technology
  OR MUSC4930 - Readings and Conference

Course Learning Objectives

Course Learning Outcomes
1. Successfully obtain internship experience in a career-related position.

2. Demonstrate understanding and competence in the knowledge and skills necessary to work in an audio technology position.

3. Demonstrate growth and development throughout the internship experience.

MUSC2410 - Individual Organ Instruction (Second Instrument) for Music Majors - 1 - Credits

Course Overview

Course Prefix
MUSC

Course Number
2410

Department
Music

Course Title
Individual Organ Instruction (Second Instrument) for Music Majors

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Designed to give music majors private organ instruction at any and all stages of advancement. One credit given for 30-minute lessons.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Registration Restrictions
Admission to a Pre-Music major, Music major, Music Education major, or Music Therapy major

No Requirements

MUSC2415 - Individual Pre-Barrier Organ Instruction - 1 - 2 Credits

Course Overview

Course Prefix
MUSC

Course Number
2415

Department
Music

Course Title
Individual Pre-Barrier Organ Instruction

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course is designed to give pre-barrier majors a flexible course of study leading to advanced musical and technical skill, and greater understanding of the instrument and its repertoire. This individualized course employs specific pedagogical strategies. Materials differ from student to student. Enrollment in two credits requires permission from the private instructor and area head. Students advance to 3/4000-level instruction after successful completion of a barrier jury.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
2

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
2

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
2

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
2

Lecture Hours Operator:
TO

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- MUSC1495 - Individual Pre-Music Organ Instruction

MUSC2420 - Piano Literature I - 3 - Credits

Course Overview

Course Prefix
MUSC

Course Number
2420

Department
Music

Course Title
Piano Literature I

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course acquaints pianists with notable composers and literature from the earliest keyboard music through the Classical Period.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Registration Restrictions

Admission to the piano program

No Requirements

MUSC2430 - Piano Literature II - 3 - Credits

Course Overview

Course Prefix
MUSC

Course Number
2430

Department
Music

Course Title
Piano Literature II

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course acquaints pianists with the standard piano composers and keyboard literature from the Romantic era.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Admission to the piano program

No Requirements

MUSC2440 - Piano Literature III - 3 - Credits

Course Overview

Course Prefix
MUSC

Course Number
2440

Department
Music

Course Title
Piano Literature III

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course acquaints pianists with notable composers and keyboard literature from the early 20th century to the present.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Admission to the piano program

No Requirements

MUSC2460 - Individual Jazz Piano Instruction for Nonmusic Majors - 1 - 2 Credits

Course Overview

Course Prefix
MUSC

Course Number
2460

Department
Music

Course Title
Individual Jazz Piano Instruction for Nonmusic Majors

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Variable credit offered, depending upon lesson time (1 credit equals 30 minutes). Designed to give nonmusic majors private jazz piano instruction at any and all stages of advancement.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
2

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
2

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
2

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
2

Lecture Hours Operator:
TO

No Requirements

MUSC2470 - Individual Jazz Piano Instruction (Second Instrument) for Music Majors - 1 - Credits

Course Overview

Course Prefix
MUSC

Course Number
2470

Department
Music

Course Title
Individual Jazz Piano Instruction (Second Instrument) for Music Majors

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Designed to give music majors private jazz piano instruction at any and all stages of advancement. One credit given for 30-minute lessons.

Credit Hours

Credit Hours Min:
1

Contact Hours

Contact Hours Min:
1

Billing Hours

Billing Hours Min:
1

Lecture Hours

Lecture Hours Min:
1

Registration Restrictions

Admission to a Pre-Music major, Music major, Music Education major, or Music Therapy major

No Requirements

MUSC2490 - Individual Piano Instruction (Second Instrument) for Music Majors - 1 - 2 Credits

Course Overview

Course Prefix
MUSC

Course Number
2490

Department
Music

Course Title
Individual Piano Instruction (Second Instrument) for Music Majors

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Individual lessons designed to give music majors piano instruction as a second instrument at any and all stages of advancement.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
2

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
2

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
2

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
2

Lecture Hours Operator:
TO

Registration Restrictions
Admission to Pre-Music and Music majors only

No Requirements

MUSC2494 - Individual Pre-Barrier Piano Instruction for Music Therapy Majors - 1 - 2 Credits

Course Overview

Course Prefix
MUSC

Course Number
2494

Department
Music

Course Title
Individual Pre-Barrier Piano Instruction for Music Therapy Majors

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course is designed to give pre-barrier majors a flexible course of study leading to advanced musical and technical skill, and greater understanding of the instrument and its repertoire. This individualized course employs specific pedagogical strategies. Materials differ from student to student. Enrollment in two credits requires permission from the private instructor and area head. Students advance to 3/4000-level instruction after successful completion of a barrier jury.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
2

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
2

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
2

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
2

Lecture Hours Operator:
TO

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- MUSC1484 - Individual Pre-Music Piano Instruction for Music Therapy Majors

MUSC2495 - Individual Pre-Barrier Piano Instruction - 1 - 2 Credits

Course Overview

Course Prefix
MUSC

Course Number
2495

Department
Music

Course Title
Individual Pre-Barrier Piano Instruction

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course is designed to give pre-barrier majors a flexible course of study leading to advanced musical and technical skill, and greater understanding of the instrument and its repertoire. This individualized course employs specific pedagogical strategies. Materials differ from student to student. Enrollment in two credits requires permission from the private instructor and area head. Students advance to 3/4000-level instruction after successful completion of a barrier jury.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
2

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
2

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
2

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
2

Lecture Hours Operator:
TO

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- MUSC1485 - Individual Pre-Music Piano Instruction

MUSC2500 - Individual String Bass Instruction (Second Instrument) for Music Majors - 1 - Credits

Course Overview

Course Prefix
MUSC

Course Number
2500

Department
Music

Course Title
Individual String Bass Instruction (Second Instrument) for Music Majors

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Designed to give music majors private string bass instruction at any and all stages of advancement. One credit given for 30-minute lessons.

Credit Hours

Credit Hours Min:
1

Contact Hours

Contact Hours Min:
1

Billing Hours

Billing Hours Min:
1

Lecture Hours

Lecture Hours Min:
1

Registration Restrictions

Admission to a Pre-Music major, Music major, Music Education major, or Music Therapy major

No Requirements

MUSC2505 - Individual Pre-Barrier String Bass Instruction - 1 - 2 Credits

Course Overview

Course Prefix
MUSC

Course Number
2505

Department
Music

Course Title
Individual Pre-Barrier String Bass Instruction

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course is designed to give pre-barrier majors a flexible course of study leading to advanced musical and technical skill, and greater understanding of the instrument and its repertoire. This individualized course employs specific pedagogical strategies. Materials differ from student to student. Enrollment in two credits requires permission from the private instructor and area head. Students advance to 3/4000-level instruction after successful completion of a barrier jury.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
2

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
2

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
2

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
2

Lecture Hours Operator:
TO

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- MUSC1545 - Individual Pre-Music String Bass Instruction

MUSC2510 - Castle Valley Symphonic Orchestra - 1 - Credits

Course Overview

Course Prefix
MUSC

Course Number
2510

Department
Music

Course Title
Castle Valley Symphonic Orchestra

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course provides an enriching performance experience for students and community members, offering an introduction to standard orchestral literature. Open to all instrumentalists regardless of major, the ensemble helps players develop performance skills in a collaborative large-ensemble setting.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Course Learning Objectives

Course Learning Outcomes

Upon successful completion of this course, students will be able to:

1. Perform in a Large Instrumental Ensemble: Effectively contribute to a large ensemble, demonstrating the ability to blend, balance, and follow a conductor in a live performance setting.
2. Develop Musical Literacy and Technique: Improve their sight-reading, rhythm, and instrumental technique through the study and performance of diverse orchestral repertoire.
3. Engage in Collaborative Performance: Cultivate strong collaborative skills, including active listening, expressive interpretation, and non-verbal communication, essential for successful group performance.
4. Contribute to the University's Land-Grant Mission: Connect the university to the broader community by providing an accessible, high-quality ensemble experience for instrumental music, helping fulfill USU's commitment to education and engagement throughout the state.

MUSC2520 - Individual Cello Instruction (Second Instrument) for Music Majors - 1 - Credits

Course Overview

Course Prefix
MUSC

Course Number
2520

Department
Music

Course Title
Individual Cello Instruction (Second Instrument) for Music Majors

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Designed to give music majors private cello instruction at any and all stages of advancement. One credit given for 30-minute lessons.

Credit Hours

Credit Hours Min:
1

Contact Hours

Contact Hours Min:
1

Billing Hours

Billing Hours Min:
1

Lecture Hours

Lecture Hours Min:
1

Registration Restrictions

Admission to a Pre-Music major, Music major, Music Education major, or Music Therapy major

No Requirements

MUSC2525 - Individual Pre-Barrier Cello Instruction - 1 - 2 Credits

Course Overview

Course Prefix
MUSC

Course Number
2525

Department
Music

Course Title
Individual Pre-Barrier Cello Instruction

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course is designed to give pre-barrier majors a flexible course of study leading to advanced musical and technical skill, and greater understanding of the instrument and its repertoire. This individualized course employs specific pedagogical strategies. Materials differ from student to student. Enrollment in two credits requires permission from the private instructor and area head. Students advance to 3/4000-level instruction after successful completion of a barrier jury.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
2

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
2

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
2

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
2

Lecture Hours Operator:
TO

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- MUSC1515 - Individual Pre-major Cello Instruction

MUSC2530 - Individual Viola Instruction (Second Instrument) for Music Majors - 1 - Credits

Course Overview

Course Prefix
MUSC

Course Number
2530

Department
Music

Course Title
Individual Viola Instruction (Second Instrument) for Music Majors

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Designed to give music majors private viola instruction at any and all stages of advancement. One credit given for 30-minute lessons.

Credit Hours

Credit Hours Min:
1

Contact Hours

Contact Hours Min:
1

Billing Hours

Billing Hours Min:
1

Lecture Hours

Lecture Hours Min:
1

Registration Restrictions

Admission to a Pre-Music major, Music major, Music Education major, or Music Therapy major

No Requirements

MUSC2535 - Individual Pre-barrier Viola Instruction - 1 - 2 Credits

Course Overview

Course Prefix
MUSC

Course Number
2535

Department
Music

Course Title
Individual Pre-barrier Viola Instruction

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course is designed to give pre-barrier majors a flexible course of study leading to advanced musical and technical skill, and greater understanding of the instrument and its repertoire. This individualized course employs specific pedagogical strategies. Materials differ from student to student. 2-credit enrollment in two credits requires permission from the private instructor and area head. Students advance to 3/4000-level instruction after successful completion of a barrier jury.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
2

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
2

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
2

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
2

Lecture Hours Operator:
TO

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- MUSC1525 - Individual Pre-music Viola Instruction

MUSC2540 - Individual Violin Instruction (Second Instrument) for Music Majors - 1 - Credits

Course Overview

Course Prefix
MUSC

Course Number
2540

Department
Music

Course Title

Individual Violin Instruction (Second Instrument) for Music Majors

Grade Mode
Standard Letter

Repeat Status
RP

Course Description

Designed to give music majors private violin instruction at any and all stages of advancement. One credit given for 30-minute lessons.

Credit Hours

Credit Hours Min:
1

Contact Hours

Contact Hours Min:
1

Billing Hours

Billing Hours Min:
1

Lecture Hours

Lecture Hours Min:
1

Registration Restrictions

Admission to a Pre-Music major, Music major, Music Education major, or Music Therapy major

No Requirements

MUSC2545 - Individual Pre-Barrier Violin Instruction - 1 - 2 Credits

Course Overview

Course Prefix
MUSC

Course Number
2545

Department
Music

Course Title

Individual Pre-Barrier Violin Instruction

Grade Mode
Standard Letter

Repeat Status
RP

Course Description

This course is designed to give pre-barrier majors a flexible course of study leading to advanced musical and technical skill, and greater understanding of the instrument and its repertoire. This individualized course employs specific pedagogical strategies. Materials differ from student to student. Enrollment for two credits requires permission from the private instructor and area head. Students advance to 3/4000-level instruction after successful completion of a barrier jury.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
2

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
2

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
2

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
2

Lecture Hours Operator:
TO

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- MUSC1535 - Individual Pre-Music Violin Instruction

MUSC2550 - Guitar Styles: Blues - 2 - Credits

Course Overview

Course Prefix
MUSC

Course Number
2550

Department
Music

Course Title
Guitar Styles: Blues

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Designed to teach students to play blues guitar styles. Presentation of musical form and repertoire.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Other Enrollment Recommendations

Knowledge of basic chords and some standard notation and/or tablature.

No Requirements

MUSC2560 - Guitar Styles: Bluegrass/Folk - 2 - Credits

Course Overview

Course Prefix
MUSC

Course Number
2560

Department
Music

Course Title
Guitar Styles: Bluegrass/Folk

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Designed to teach students to play bluegrass and folk guitar styles. Presentation of musical form and repertoire. Prerequisite: Knowledge of basic chords and some experience reading standard notation and/or tablature.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

No Requirements

MUSC2570 - Fingerboard Theory I - 2 - Credits

Course Overview

Course Prefix
MUSC

Course Number
2570

Department
Music

Course Title
Fingerboard Theory I

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Basic music theory course in which students use the guitar as a tool for learning the fundamentals of music.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

No Requirements

MUSC2580 - Fingerboard Theory II - 2 - Credits

Course Overview

Course Prefix
MUSC

Course Number
2580

Department
Music

Course Title
Fingerboard Theory II

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Follow-up to MUSC 2570. Examination of theoretical concepts of music and how they can be visualized and played on the guitar.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

No Requirements

MUSC2590 - Individual Guitar Instruction (Second Instrument) for Music Majors - 1 - Credits

Course Overview

Course Prefix
MUSC

Course Number
2590

Department
Music

Course Title
Individual Guitar Instruction (Second Instrument) for Music Majors

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Designed to give music majors private guitar instruction at any and all stages of advancement. One credit given for 30-minute lessons.

Credit Hours

Credit Hours Min:
1

Contact Hours

Contact Hours Min:
1

Billing Hours

Billing Hours Min:
1

Lecture Hours

Lecture Hours Min:
1

Registration Restrictions

Admission to a Pre-Music major, Music major, Music Education major, or Music Therapy major

No Requirements

MUSC2595 - Individual Pre-Barrier Guitar Instruction - 1 - 2 Credits

Course Overview

Course Prefix
MUSC

Course Number
2595

Department
Music

Course Title
Individual Pre-Barrier Guitar Instruction

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course is designed to give pre-barrier majors a flexible course of study leading to advanced musical and technical skill, and greater understanding of the instrument and its repertoire. This individualized course employs specific pedagogical strategies. Materials differ from student to student. Enrollment in two credits requires permission from the private instructor and area head. Students advance to 3/4000-level instruction after successful completion of a barrier jury.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
2

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
2

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
2

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
2

Lecture Hours Operator:
TO

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- MUSC1585 - Individual Pre-music Guitar Instruction

MUSC2600 - Sapphire Singers - 1 - Credits

Course Overview

Course Prefix
MUSC

Course Number
2600

Department
Music

Course Title
Sapphire Singers

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course performs choral works in a large choral organization, open to all treble singers without auditions.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

MUSC2640 - Individual Vocal Instruction (Second Instrument) for Music Majors - 1 - Credits

Course Overview

Course Prefix
MUSC

Course Number
2640

Department
Music

Course Title
Individual Vocal Instruction (Second Instrument) for Music Majors

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Designed to give music majors private vocal instruction at any and all stages of advancement. One credit given for 30-minute lessons.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Registration Restrictions
Admission to a Pre-Music major, Music major, Music Education major, or Music Therapy major

No Requirements

MUSC2645 - Individual Pre-Barrier Voice Instruction - 1 - 2 Credits

Course Overview

Course Prefix
MUSC

Course Number
2645

Department
Music

Course Title
Individual Pre-Barrier Voice Instruction

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course is designed to give pre-barrier majors a flexible course of study leading to advanced musical and technical skill, and greater understanding of the instrument and its repertoire. This individualized course employs specific pedagogical strategies. Materials differ from student to student. Enrollment in two credits requires permission from the private instructor and area head. Students advance to 3/4000-level instruction after successful completion of a barrier jury.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
2

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
2

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
2

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
2

Lecture Hours Operator:
TO

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- MUSC1635 - Individual Pre-Music Voice Instruction

MUSC2660 - Italian Diction for Singers - 2 - Credits

Course Overview

Course Prefix
MUSC

Course Number
2660

Department
Music

Course Title
Italian Diction for Singers

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Study of singing diction in Italian using International Phonetic Alphabet in spoken, sung, and written drills.

Credit Hours

Credit Hours Min:
2

Contact Hours

Contact Hours Min:
2

Billing Hours

Billing Hours Min:
2

Lecture Hours

Lecture Hours Min:
2

No Requirements

MUSC2670 - German Diction for Singers - 2 - Credits

Course Overview

Course Prefix
MUSC

Course Number
2670

Department
Music

Course Title
German Diction for Singers

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Study of singing diction in German using International Phonetic Alphabet in spoken, sung, and written drills.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

No Requirements

MUSC2680 - French Diction for Singers - 2 - Credits

Course Overview

Course Prefix
MUSC

Course Number
2680

Department
Music

Course Title
French Diction for Singers

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Study of singing diction in French using International Phonetic Alphabet in spoken, sung, and written drills.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

No Requirements

MUSC2690 - Concert Choir - 1 - Credits

Course Overview

Course Prefix
MUSC

Course Number
2690

Department
Music

Course Title
Concert Choir

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Concert Choir is a general choral class for singers of all interests and levels. Provides concerts for the college at large. Most students stay in the choir for the entire year. No audition is required.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

No Requirements

MUSC2695 - USU Eastern Chamber Choir - 1 - Credits

Course Overview

Course Prefix
MUSC

Course Number
2695

Department
Music

Course Title
USU Eastern Chamber Choir

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Students perform a wide range of choral literature in an auditioned ensemble. The course is available at the USU Eastern campus only.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

No Requirements

MUSC2700 - Woodwind Techniques I: Flute, Clarinet - 1 - Credits

Course Overview

Course Prefix
MUSC

Course Number
2700

Department
Music

Course Title
Woodwind Techniques I: Flute, Clarinet

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Provides music education major with an introduction to performance and pedagogy of the flute and clarinet.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Registration Restrictions

Admission to majors

No Requirements

MUSC2710 - Woodwind Techniques II: Saxophone, Oboe, Bassoon - 1 - Credits

Course Overview

Course Prefix
MUSC

Course Number
2710

Department
Music

Course Title
Woodwind Techniques II: Saxophone, Oboe, Bassoon

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides music education majors with an introduction to performance and pedagogy for the saxophone, oboe, and bassoon.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Registration Restrictions

Admission to Pre-Music and Music majors

Special Approval
Instructor permission

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Earn a minimum grade of C in the following:

- MUSC2700 - Woodwind Techniques I: Flute, Clarinet

MUSC2730 - Basketball Band - 1 - Credits

Course Overview

Course Prefix
MUSC

Course Number
2730

Department
Music

Course Title
Basketball Band

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Preparation of "pops" type music for basketball games. Audition necessary.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- MUSC3785 - Marching Band (DHA)

MUSC2745 - Wind Symphony - 1 - Credits

Course Overview

Course Prefix
MUSC

Course Number
2745

Department
Music

Course Title
Wind Symphony

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Wind Symphony provides experiences for woodwind, brass and percussion players in a concert band setting. Repertoire includes literature representing many traditional and contemporary styles. Performances are presented in various college and community venues.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Special Approval

Audition

No Requirements

MUSC2750 - Individual Flute Instruction (Second Instrument) for Music Majors - 1 - Credits

Course Overview

Course Prefix
MUSC

Course Number
2750

Department
Music

Course Title
Individual Flute Instruction (Second Instrument) for Music Majors

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Designed to give music majors private flute instruction at any and all stages of advancement. One credit given for 30-minute lessons.

Credit Hours

Credit Hours Min:
1

Contact Hours

Contact Hours Min:
1

Billing Hours

Billing Hours Min:
1

Lecture Hours

Lecture Hours Min:
1

Registration Restrictions

Admission to a Pre-Music major, Music major, Music Education major, or Music Therapy major

No Requirements

MUSC2755 - Individual Pre-barrier Flute Instruction - 1 - 3 Credits

Course Overview

Course Prefix
MUSC

Course Number
2755

Department
Music

Course Title
Individual Pre-barrier Flute Instruction

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course is designed to give pre-barrier majors a flexible course of study leading to advanced musical and technical skill, and greater understanding of the instrument and its repertoire. This individualized course employs specific pedagogical strategies. Materials differ from student to student. Enrollment in two credits requires permission from the private instructor and area head. Students advance to 3/4000-level instruction after successful completion of a barrier jury.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- MUSC1705 - Individual Pre-music Flute Instruction

MUSC2760 - Individual Oboe Instruction (Second Instrument) for Music Majors - 1 - Credits

Course Overview

Course Prefix
MUSC

Course Number
2760

Department
Music

Course Title
Individual Oboe Instruction (Second Instrument) for Music Majors

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Designed to give music majors private oboe instruction at any and all stages of advancement. One credit given for 30-minute lessons.

Credit Hours

Credit Hours Min:
1

Contact Hours

Contact Hours Min:
1

Billing Hours

Billing Hours Min:
1

Lecture Hours

Lecture Hours Min:
1

Registration Restrictions

Admission to a Pre-Music major, Music major, Music Education major, or Music Therapy major

No Requirements

MUSC2765 - Individual Pre-Barrier Oboe Instruction - 1 - 3 Credits

Course Overview

Course Prefix
MUSC

Course Number
2765

Department
Music

Course Title
Individual Pre-Barrier Oboe Instruction

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course is designed to give pre-barrier majors a flexible course of study leading to advanced musical and technical skill, and greater understanding of the instrument and its repertoire. This individualized course employs specific pedagogical strategies. Materials differ from student to student. Enrollment in two credits requires permission from the private instructor and area head. Students advance to 3/4000-level instruction after successful completion of a barrier jury.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- MUSC1715 - Individual Pre-Music Oboe Instruction

MUSC2770 - Individual Clarinet Instruction (Second Instrument) for Music Majors - 1 - Credits

Course Overview

Course Prefix
MUSC

Course Number
2770

Department
Music

Course Title

Individual Clarinet Instruction (Second Instrument) for Music Majors

Grade Mode
Standard Letter

Repeat Status
RP

Course Description

Designed to give music majors private clarinet instruction at any and all stages of advancement. One credit given for 30-minute lessons.

Credit Hours

Credit Hours Min:
1

Contact Hours

Contact Hours Min:
1

Billing Hours

Billing Hours Min:
1

Lecture Hours

Lecture Hours Min:
1

Registration Restrictions

Admission to a Pre-Music major, Music major, Music Education major, or Music Therapy major

No Requirements

MUSC2775 - Individual Pre-Barrier Clarinet instruction - 1 - 3 Credits

Course Overview

Course Prefix
MUSC

Course Number
2775

Department
Music

Course Title

Individual Pre-Barrier Clarinet instruction

Grade Mode
Standard Letter

Repeat Status
RP

Course Description

This course is designed to give pre-barrier majors a flexible course of study leading to advanced musical and technical skill, and greater understanding of the instrument and its repertoire. This individualized course employs specific pedagogical strategies. Materials differ from student to student. Enrollment in two credits requires permission from the private instructor and area head. Students advance to 3/4000-level instruction after successful completion of a barrier jury.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- MUSC1725 - Individual Pre-Music Clarinet Instruction

MUSC2780 - Individual Bassoon Instruction (Second Instrument) for Music Majors - 1 - Credits

Course Overview

Course Prefix
MUSC

Course Number
2780

Department
Music

Course Title
Individual Bassoon Instruction (Second Instrument) for Music Majors

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Designed to give music majors private bassoon instruction at any and all stages of advancement. One credit given for 30-minute lessons.

Credit Hours

Credit Hours Min:
1

Contact Hours

Contact Hours Min:
1

Billing Hours

Billing Hours Min:
1

Lecture Hours

Lecture Hours Min:
1

Registration Restrictions

Admission to a Pre-Music major, Music major, Music Education major, or Music Therapy major

No Requirements

MUSC2785 - Individual Pre-Barrier Bassoon Instruction - 1 - 3 Credits

Course Overview

Course Prefix
MUSC

Course Number
2785

Department
Music

Course Title
Individual Pre-Barrier Bassoon Instruction

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course is designed to give pre-barrier majors a flexible course of study leading to advanced musical and technical skill, and greater understanding of the instrument and its repertoire. This individualized course employs specific pedagogical strategies. Materials differ from student to student. Enrollment in two credits requires permission from the private instructor and area head. Students advance to 3/4000-level instruction after successful completion of a barrier jury.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- MUSC1735 - Individual Pre-Music Bassoon Instruction

MUSC2790 - Individual Saxophone Instruction (Second Instrument) for Music Majors - 1 - Credits

Course Overview

Course Prefix
MUSC

Course Number
2790

Department
Music

Course Title
Individual Saxophone Instruction (Second Instrument) for Music Majors

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Designed to give music majors private saxophone instruction at any and all stages of advancement. One credit given for 30-minute lessons.

Credit Hours

Credit Hours Min:
1

Contact Hours

Contact Hours Min:
1

Billing Hours

Billing Hours Min:
1

Lecture Hours

Lecture Hours Min:
1

Registration Restrictions

Admission to a Pre-Music major, Music major, Music Education major, or Music Therapy major

No Requirements

MUSC2795 - Individual Pre-Barrier Saxophone Instruction - 1 - 3 Credits

Course Overview

Course Prefix
MUSC

Course Number
2795

Department
Music

Course Title
Individual Pre-Barrier Saxophone Instruction

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course is designed to give pre-barrier majors a flexible course of study leading to advanced musical and technical skill, and greater understanding of the instrument and its repertoire. This individualized course employs specific pedagogical strategies. Materials differ from student to student. Enrollment in two credits requires permission from the private instructor and area head. Students advance to 3/4000-level instruction after successful completion of a barrier jury.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- MUSC1745 - Individual Pre-Music Saxophone Instruction

MUSC2800 - High Brass Techniques - 1 - Credits

Course Overview

Course Prefix
MUSC

Course Number
2800

Department
Music

Course Title
High Brass Techniques

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course is designed to give prospective music teachers a basic playing experience and theoretical understanding of the high brass instruments.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Registration Restrictions

Admission to a Pre-music or Music major

No Requirements

MUSC2810 - Low Brass Techniques - 1 - Credits

Course Overview

Course Prefix
MUSC

Course Number
2810

Department
Music

Course Title
Low Brass Techniques

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course is designed to give prospective music teachers a basic playing experience and theoretical understanding of the low brass instruments.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Registration Restrictions

Admission to a Pre-music or Music major

No Requirements

MUSC2850 - Individual Trumpet Instruction (Second Instrument) for Music Majors - 1 - Credits

Course Overview

Course Prefix
MUSC

Course Number
2850

Department
Music

Course Title
Individual Trumpet Instruction (Second Instrument) for Music Majors

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Designed to give music majors private trumpet instruction at any and all stages of advancement. One credit given for 30-minute lessons.

Credit Hours

Credit Hours Min:
1

Contact Hours

Contact Hours Min:
1

Billing Hours

Billing Hours Min:
1

Lecture Hours

Lecture Hours Min:
1

Registration Restrictions

Admission to a Pre-Music major, Music major, Music Education major, or Music Therapy major

No Requirements

MUSC2855 - Individual Pre-Barrier Trumpet Instruction - 1 - 3 Credits

Course Overview

Course Prefix
MUSC

Course Number
2855

Department
Music

Course Title
Individual Pre-Barrier Trumpet Instruction

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course is designed to give pre-barrier majors a flexible course of study leading to advanced musical and technical skill, and greater understanding of the instrument and its repertoire. This individualized course employs specific pedagogical strategies. Materials differ from student to student. Enrollment in two credits requires permission from the private instructor and area head. Students advance to 3/4000-level instruction after successful completion of a barrier jury.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- MUSC1815 - Individual Pre-Music Trumpet Instruction

MUSC2860 - Individual Trombone Instruction (Second Instrument) for Music Majors - 1 - Credits

Course Overview

Course Prefix
MUSC

Course Number
2860

Department
Music

Course Title
Individual Trombone Instruction (Second Instrument) for Music Majors

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Designed to give music majors private trombone instruction at any and all stages of advancement. One credit given for 30-minute lessons.

Credit Hours

Credit Hours Min:
1

Contact Hours

Contact Hours Min:
1

Billing Hours

Billing Hours Min:
1

Lecture Hours

Lecture Hours Min:
1

Registration Restrictions

Admission to a Pre-Music major, Music major, Music Education major, or Music Therapy major

No Requirements

MUSC2865 - Individual Pre-Barrier Trombone Instruction - 1 - 3 Credits

Course Overview

Course Prefix
MUSC

Course Number
2865

Department
Music

Course Title
Individual Pre-Barrier Trombone Instruction

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course is designed to give pre-barrier majors a flexible course of study leading to advanced musical and technical skill, and greater understanding of the instrument and its repertoire. This individualized course employs specific pedagogical strategies. Materials differ from student to student. Enrollment in two credits requires permission from the private instructor and area head. Students advance to 3/4000-level instruction after successful completion of a barrier jury.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

Simple Requisites

Prerequiste

Type
Prerequisite

Required

Complete ALL of the following Courses:

- MUSC1825 - Individual Pre-Music Trombone Instruction

MUSC2870 - Individual French Horn Instruction (Second Instrument) for Music Majors - 1 - Credits

Course Overview

Course Prefix
MUSC

Course Number
2870

Department
Music

Course Title
Individual French Horn Instruction (Second Instrument) for Music Majors

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Designed to give music majors private French horn instruction at any and all stages of advancement. One credit given for 30-minute lessons.

Credit Hours

Credit Hours Min:
1

Contact Hours

Contact Hours Min:
1

Billing Hours

Billing Hours Min:
1

Lecture Hours

Lecture Hours Min:
1

Registration Restrictions

Admission to a Pre-Music major, Music major, Music Education major, or Music Therapy major

No Requirements

MUSC2875 - Individual Pre-barrier French Horn Instruction - 1 - 3 Credits

Course Overview

Course Prefix
MUSC

Course Number
2875

Department
Music

Course Title
Individual Pre-barrier French Horn Instruction

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course is designed to give pre-barrier majors a flexible course of study leading to advanced musical and technical skill, and greater understanding of the instrument and its repertoire. This individualized course employs specific pedagogical strategies. Materials differ from student to student. Enrollment in two credits requires permission from the private instructor and area head. Students advance to 3/4000-level instruction after successful completion of a barrier jury.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- MUSC1835 - Individual Pre-music French Horn Instruction

MUSC2880 - Individual Tuba/Euphonium Instruction (Second Instrument) for Music Majors - 1 - Credits

Course Overview

Course Prefix
MUSC

Course Number
2880

Department
Music

Course Title

Individual Tuba/Euphonium Instruction (Second Instrument) for Music Majors

Grade Mode
Standard Letter

Repeat Status
RP

Course Description

Designed to give music majors private tuba/euphonium instruction at any and all stages of advancement. One credit given for 30-minute lessons.

Credit Hours

Credit Hours Min:
1

Contact Hours

Contact Hours Min:
1

Billing Hours

Billing Hours Min:
1

Lecture Hours

Lecture Hours Min:
1

Registration Restrictions

Admission to a Pre-Music major, Music major, Music Education major, or Music Therapy major

No Requirements

MUSC2885 - Individual Pre-Barrier Tuba/Euph Instruction - 1 - 3 Credits

Course Overview

Course Prefix
MUSC

Course Number
2885

Department
Music

Course Title

Individual Pre-Barrier Tuba/Euph Instruction

Grade Mode
Standard Letter

Repeat Status
RP

Course Description

This course is designed to give pre-barrier majors a flexible course of study leading to advanced musical and technical skill, and greater understanding of the instrument and its repertoire. This individualized course employs specific pedagogical strategies. Materials differ from student to student. Enrollment in two credits requires permission from the private instructor and area head. Students advance to 3/4000-level instruction after successful completion of a barrier jury.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- MUSC1845 - Individual Pre-Music Tuba/Euphonium Instruction

MUSC2890 - Individual Percussion Instruction (Second Instrument) for Music Majors - 1 - Credits

Course Overview

Course Prefix
MUSC

Course Number
2890

Department
Music

Course Title
Individual Percussion Instruction (Second Instrument) for Music Majors

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Designed to give music majors private percussion instruction at any and all stages of advancement. One credit given for 30-minute lessons.

Credit Hours

Credit Hours Min:
1

Contact Hours

Contact Hours Min:
1

Billing Hours

Billing Hours Min:
1

Lecture Hours

Lecture Hours Min:
1

Registration Restrictions
Admission to a Pre-Music major, Music major, Music Education major, or Music Therapy major

No Requirements

MUSC2895 - Individual Pre-Barrier Percussion Instruction - 1 - 3 Credits

Course Overview

Course Prefix
MUSC

Course Number
2895

Department
Music

Course Title
Individual Pre-Barrier Percussion Instruction

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course is designed to give pre-barrier majors a flexible course of study leading to advanced musical and technical skill, and greater understanding of the instrument and its repertoire. This individualized course employs specific pedagogical strategies. Materials differ from student to student. Enrollment in two credits requires permission from the private instructor and area head. Students advance to 3/4000-level instruction after successful completion of a barrier jury.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- MUSC1855 - Individual Pre-Music Percussion Instruction

MUSC2920 - Sophomore Recital - 1 - 2 Credits

Course Overview

Course Prefix
MUSC

Course Number
2920

Department
Music

Course Title
Sophomore Recital

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course involves the performance of pieces selected by the second-year student and approved by the instructor, for performance in accordance with specific music-area requirements. Please note that there is an additional charge to use some campus venues.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
2

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
2

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
2

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
2

Lecture Hours Operator:
TO

Special Approval

Instructor permission

No Requirements

MUSC2977 - Cooperative Education - 1 - 3 Credits

Course Overview

Course Prefix
MUSC

Course Number
2977

Department
Music

Course Title
Cooperative Education

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Provides supervised on-the-job training in music. Students meet with the instructor/coordinator periodically to determine and evaluate learning objectives, hours to be worked, and credit.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

Special Approval

Instructor permission

No Requirements

MUSC2988 - Special Problems - 1 - 3 Credits

Course Overview

Course Prefix
MUSC

Course Number
2988

Department
Music

Course Title
Special Problems

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Independent study work for the serious musician to be approved by instructor. Time and credit to be arranged.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

No Requirements

MUSC3010 - Masterpieces of Music (DHA) - 3 - Credits

Course Overview

Course Prefix
MUSC

Course Number
3010

Department
Music

Course Title
Masterpieces of Music (DHA)

General Education Attribute
DHA

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Acquaints students with great masterpieces of music representing all periods of music history. Examines lives and times of various composers.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

MUSC3020 - History of Jazz (DHA) - 3 - Credits

Course Overview

Course Prefix
MUSC

Course Number
3020

Department
Music

Course Title
History of Jazz (DHA)

General Education Attribute
DHA

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Designed to give students an understanding of the development of jazz, popular music, and contemporary idioms, and their contributions to music and culture.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

MUSC3030 - Rock and Roll-Catalyst for Social Change (DSS) - 3 - Credits

Course Overview

Course Prefix
MUSC

Course Number
3030

Department
Music

Course Title
Rock and Roll-Catalyst for Social Change (DSS)

General Education Attribute
DSS

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
A study of the cultural, economic, social and political impact of rock and other popular music on social groups and movements around the world. Students will be challenged to consider how various types of music influence their own cultural perspectives.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Course Sets:

- Communications Literacy (CL1) Course
- Breadth Social Sciences (BSS) Course
- Communications Literacy (CL2) Course

MUSC3040 - History of African American Music (DHA) - 3 - Credits

Course Overview

Course Prefix
MUSC

Course Number
3040

Department
Music

Course Title
History of African American Music (DHA)

General Education Attribute
DHA

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
The course examines African American musical contributions. It provides an in-depth understanding and appreciation for African American culture through their music's study and experience, including styles developed from the 17th century to the 21st century in the United States.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

MUSC3100 - Motivation and Classroom Management Strategies in Secondary Classroom Music - 3 - Credits

Course Overview

Course Prefix
MUSC

Course Number
3100

Department
Music

Course Title
Motivation and Classroom Management Strategies in Secondary Classroom Music

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Provides experience in current materials, methods, and management of general music education program in secondary (grades 6-12) public schools. Designed for music education majors.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Admission to Pre-Music and Music majors only

No Requirements

MUSC3110 - Music History I: Antiquity through the Renaissance - 3 - Credits

Course Overview

Course Prefix
MUSC

Course Number
3110

Department
Music

Course Title
Music History I: Antiquity through the Renaissance

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers the history and literature of early music through the Renaissance.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Sophomore standing or higher and admission to a music major

MUSC3120 - Music History II: The Baroque and Classical Periods - 3 - Credits

Course Overview

Course Prefix
MUSC

Course Number
3120

Department
Music

Course Title
Music History II: The Baroque and Classical Periods

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers the history and literature of the music of the Baroque and Classical periods.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Earn a minimum grade of C in the following:

- MUSC3110 - Music History I: Antiquity through the Renaissance

MUSC3170 - Special Topics in Music Theory - 3 - Credits

Course Overview

Course Prefix
MUSC

Course Number
3170

Department
Music

Course Title
Special Topics in Music Theory

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Students will synthesize and apply information learned in Music Theory 1–3 through analysis and/or composition. Topics and focus vary by semester.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Admission to Music (MUSC), Music Education (MSCE), or Music Therapy (MUTH) programs, including Pre-Program Music Department students.

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Earn a minimum grade of C in the following:

- MUSC2110 - Music Theory III

MUSC3180 - Orchestration - 2 - Credits

Course Overview

Course Prefix
MUSC

Course Number
3180

Department
Music

Course Title
Orchestration

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Theoretical and practical study of scoring for orchestral instruments in various combinations, ranging from small ensembles to full orchestra.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- MUSC1110 - Music Theory I (BCA)
- MUSC1120 - Music Theory II
- MUSC2110 - Music Theory III
- MUSC2180 - Computer Applications in Music Proficiency Exam

MUSC3190 - Music History III: Romanticism through the 21st Century (CI) - 3 - Credits

Course Overview

Course Prefix
MUSC

Course Number
3190

Department
Music

Course Title
Music History III: Romanticism through the 21st Century (CI)

General Education Attribute
CI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course explores the historical and cultural context of important composers and works of the Romantic period through the 21st century.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Earn a minimum grade of C in the following:

- MUSC3120 - Music History II: The Baroque and Classical Periods

MUSC3210 - Individual Harp Instruction for Music Majors - 1 - 2 Credits

Course Overview

Course Prefix
MUSC

Course Number
3210

Department
Music

Course Title
Individual Harp Instruction for Music Majors

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course is designed to give music majors a flexible course of study leading to advanced musical and technical skill, and greater understanding of the instrument and its repertoire. This individualized course employs specific pedagogical strategies. Materials differ from student to student. 2-credit enrollment requires permission from the private instructor and area head. The number of credits granted depends upon practice time and extent of literature required.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
2

Credit Hours Operator:
OR

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
2

Contact Hours Operator:
OR

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
2

Billing Hours Operator:
OR

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
2

Lecture Hours Operator:
OR

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- MUSC2225 - Individual Pre-Barrier Harp Instruction

Requires successful completion of barrier jury

MUSC3220 - Choral Methods and Materials - 2 - Credits

Course Overview

Course Prefix
MUSC

Course Number
3220

Department
Music

Course Title
Choral Methods and Materials

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
nvestigates factors relating to administration and teaching of choral music in middle and secondary schools. To be taken final Fall before Student Teaching.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Registration Restrictions
Admission to STEP program; to be taken final Fall before Student Teaching

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Concurrent Enrollment in one of the following courses:

Enroll in the following Courses:

- SCED3300 - Clinical Experience I
  OR SCED4300 - Clinical Experience II

MUSC3230 - Choral Literature - 2 - Credits

Course Overview

Course Prefix
MUSC

Course Number
3230

Department
Music

Course Title
Choral Literature

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Survey of choral music from the Renaissance, Baroque, Classical, Romantic, and Twentieth Century suitable for middle and secondary school choirs.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

No Requirements

MUSC3240 - Instrumental Methods and Materials - 2 - Credits

Course Overview

Course Prefix
MUSC

Course Number
3240

Department
Music

Course Title
Instrumental Methods and Materials

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Examination of teaching methods and materials related to wind and percussion pedagogy. Study of literature, organization and administration, and teaching techniques.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Registration Restrictions

Admission to STEP program; to be taken final Spring before Student Teaching

Simple Requisites

Corequisite

Type
Corequisite

Required

Enroll in the following Courses:

- SCED3300 - Clinical Experience I
  OR SCED4300 - Clinical Experience II

MUSC3260 - Elementary School Music - 3 - Credits

Course Overview

Course Prefix
MUSC

Course Number
3260

Department
Music

Course Title
Elementary School Music

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers methods and materials in singing, rhythms, creating music, listening, using classroom instruments, fundamentals of music, and movement skills, with emphasis on contemporary approaches to music education.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Admission to one of the following majors: Pre-Music, Music Education, Music Therapy, any Pre-Elementary or Pre-Early Childhood Education program, any Elementary or Early Childhood Education major

Other Enrollment Recommendations

MUSC1010 INTRO TO MUSIC (BCA) (recommended but not required)

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Completion of at least 45 credits

MUSC3310 - Music Therapy With Diverse Clinical Populations - 3 - Credits

Course Overview

Course Prefix
MUSC

Course Number
3310

Department
Music

Course Title
Music Therapy With Diverse Clinical Populations

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers music therapy models, methods, techniques, and orientations informing clinical practice with children, teens, and young adults of diverse abilities, including early childhood, SPED, autism, medical settings, mental health, physical disabilities, and wellness.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Special Approval
Instructor permission

Other Enrollment Recommendations
Successful Completion of Level II Exam

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Earn a minimum grade of B in the following:

- MUSC2320 - Music Therapy Treatment II

MUSC3320 - Psychology of Music - 2 - Credits

Course Overview

Course Prefix
MUSC

Course Number
3320

Department
Music

Course Title
Psychology of Music

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course explores the psychological foundations of musical behavior, including psychoacoustics; rhythmic, melodic, and harmonic foundations; affective behaviors and music; musical preferences; functional music; musical ability; and music learning.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

No Requirements

MUSC3331 - Music Therapy Practicum: Field Experience 1 - 1 - Credits

Course Overview

Course Prefix
MUSC

Course Number
3331

Department
Music

Course Title
Music Therapy Practicum: Field Experience 1

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This is a supervised practicum experience in a community setting. Students gain experiences within a variety of clinical communities throughout their pre-internship training including, early childhood, individuals with disabilities, mental health, and/or medical settings.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Special Approval
Instructor permission

Other Enrollment Recommendations
Successful Completion of Level II Exam

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Earn a minimum grade of B in the following:
- MUSC2320 - Music Therapy Treatment II

MUSC3332 - Music Therapy Practicum: Field Experience 2 - 2 - Credits

Course Overview

Course Prefix
MUSC

Course Number
3332

Department
Music

Course Title
Music Therapy Practicum: Field Experience 2

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course is a supervised practicum experience in a community setting. Students gain experiences within a variety of clinical communities throughout their pre-internship training including, early childhood, individuals with disabilities, mental health, and/or medical settings.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Special Approval
Instructor permission

Other Enrollment Recommendations
- Successful Completion of Level III Exam

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Earn a minimum grade of B in the following:
- MUSC3331 - Music Therapy Practicum: Field Experience 1

MUSC3333 - Music Therapy Practicum: Field Experience 3 - 3 - Credits

Course Overview

Course Prefix
MUSC

Course Number
3333

Department
Music

Course Title
Music Therapy Practicum: Field Experience 3

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course is a supervised practicum experience in a community setting. Students gain experiences within a variety of clinical communities throughout their pre-internship training including, early childhood, individuals with disabilities, mental health, and/or medical settings.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Earn a minimum grade of B in the following:

- MUSC3332 - Music Therapy Practicum: Field Experience 2

MUSC3334 - Music Therapy Practicum: Field Experience 4 - 3 - Credits

Course Overview

Course Prefix
MUSC

Course Number
3334

Department
Music

Course Title
Music Therapy Practicum: Field Experience 4

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course is a supervised practicum experience in a community setting. Students gain experiences within a variety of clinical communities throughout their pre-internship training including, early childhood, individuals with disabilities, mental health, and/or medical settings.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Earn a minimum grade of B in the following:

- MUSC3333 - Music Therapy Practicum: Field Experience 3

MUSC3360 - Audio Engineering I - 3 - Credits

Course Overview

Course Prefix
MUSC

Course Number
3360

Department
Music

Course Title
Audio Engineering I

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces students to modern studio recording techniques using the latest computer programs and technological advances in microphones, acoustics and sound modification.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

MUSC3370 - Audio Engineering II - 3 - Credits

Course Overview

Course Prefix
MUSC

Course Number
3370

Department
Music

Course Title
Audio Engineering II

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course presents advanced recording techniques involving sound/tone manipulation; multi-track recording; sound tracks for video and film; sound editing; and other state-of-the-art processes using sound studio applications.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- MUSC3360 - Audio Engineering I

MUSC3410 - Collaborative Piano in Ensemble - 1 - 2 Credits

Course Overview

Course Prefix
MUSC

Course Number
3410

Department
Music

Course Title
Collaborative Piano in Ensemble

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course teaches collaborative piano skills in vocal and instrumental works. Topics include accompanying vocal and instrumental works, ensemble music for two pianos and four hands, and sight-reading and repertoire development. Instructor approval is required for 2 credits.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
2

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
2

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
2

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
2

Lecture Hours Operator:
TO

Registration Restrictions

Admission to one of the following programs: Pre-Program Piano Performance, Piano Performance; or admission to the course by audition

No Requirements

MUSC3440 - Individual Jazz Piano Instruction for Music Majors - 1 - 2 Credits

Course Overview

Course Prefix
MUSC

Course Number
3440

Department
Music

Course Title
Individual Jazz Piano Instruction for Music Majors

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Provides 60-minute lessons, for either 1 or 2 credits, for music majors only. Number of credits granted depends upon practice time and extent of literature required. Designed to give music majors private jazz piano instruction at any and all stages of advancement.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
2

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
2

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
2

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
2

Lecture Hours Operator:
TO

Registration Restrictions

Admission to a Pre-Music major, Music major, Music Education major, or Music Therapy major

No Requirements

MUSC3445 - Individual Piano Instruction for Music Therapy Majors - 1 - 2 Credits

Course Overview

Course Prefix
MUSC

Course Number
3445

Department
Music

Course Title
Individual Piano Instruction for Music Therapy Majors

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course is designed to give music majors a flexible course of study leading to advanced musical and technical skill, and greater understanding of the instrument and its repertoire. This individualized course employs specific pedagogical strategies. Materials differ from student to student. Enrollment in two credits requires permission from the private instructor and area head. The number of credits granted depends upon practice time and extent of literature required.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
2

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
2

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
2

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
2

Lecture Hours Operator:
TO

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- MUSC2494 - Individual Pre-Barrier Piano Instruction for Music Therapy Majors

MUSC3450 - Individual Piano Instruction for Music Majors - 1 - 2 Credits

Course Overview

Course Prefix
MUSC

Course Number
3450

Department
Music

Course Title
Individual Piano Instruction for Music Majors

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course is designed to give music majors a flexible course of study leading to advanced musical and technical skill, and greater understanding of the instrument and its repertoire. This individualized course employs specific pedagogical strategies. Materials differ from student to student. Enrollment in two credits requires permission from the private instructor and area head. The number of credits granted depends upon practice time and extent of literature required.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
2

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
2

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
2

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
2

Lecture Hours Operator:
TO

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- MUSC2495 - Individual Pre-Barrier Piano Instruction

MUSC3460 - Church Music for Organists I - 3 - Credits

Course Overview

Course Prefix
MUSC

Course Number
3460

Department
Music

Course Title
Church Music for Organists I

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Teaches students to read open scores, transpose hymns, and read scores using alto and tenor clefs. Explores history of hymnody, as well as history of church worship services.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

MUSC3470 - Church Music for Organists II - 3 - Credits

Course Overview

Course Prefix
MUSC

Course Number
3470

Department
Music

Course Title
Church Music for Organists II

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Teaches students to read open scores, transpose hymns, and read scores using alto and tenor clefs. Explores history of hymnody, as well as history of church worship services.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

MUSC3480 - Individual Organ Instruction for Music Majors - 1 - 2 Credits

Course Overview

Course Prefix
MUSC

Course Number
3480

Department
Music

Course Title
Individual Organ Instruction for Music Majors

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course is designed to give music majors a flexible course of study leading to advanced musical and technical skill, and greater understanding of the instrument and its repertoire. This individualized course employs specific pedagogical strategies. Materials differ from student to student. 2-credit enrollment requires permission from the private instructor and area head. The number of credits granted depends upon practice time and extent of literature required.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
2

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
2

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
2

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
2

Lecture Hours Operator:
TO

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- MUSC2415 - Individual Pre-Barrier Organ Instruction

MUSC3500 - Symphony Orchestra (DHA) - 1 - Credits

Course Overview

Course Prefix
MUSC

Course Number
3500

Department
Music

Course Title
Symphony Orchestra (DHA)

General Education Attribute
DHA

Grade Mode
Standard Letter

Repeat Status
RP

Course Description

Provides experience in performing standard orchestral literature.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Special Approval

Admission by audition only

No Requirements

MUSC3510 - Orchestra Literature - 2 - Credits

Course Overview

Course Prefix
MUSC

Course Number
3510

Department
Music

Course Title
Orchestra Literature

Grade Mode
Standard Letter

Repeat Status
NR

Course Description

Survey of materials, methods, and literature appropriate for elementary school, junior high/middle school, or high school level orchestra programs.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

No Requirements

MUSC3515 - Orchestral Auditions Seminar - 2 - Credits

Course Overview

Course Prefix
MUSC

Course Number
3515

Department
Music

Course Title
Orchestral Auditions Seminar

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course is designed to prepare students for the unique and specific nature of excerpt study and the taking of professional orchestra auditions, while gaining familiarity with the standard orchestral literature. The instructor will usually be a member of the Utah Symphony, with extensive experience both taking and listening to auditions.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Registration Restrictions

Admission the string program

No Requirements

MUSC3520 - String Pedagogy and Solo Literature - 2 - Credits

Course Overview

Course Prefix
MUSC

Course Number
3520

Department
Music

Course Title
String Pedagogy and Solo Literature

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
For qualified string players whose interest is primarily in teaching stringed instruments. Materials and teaching techniques via actual teaching experience.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Special Approval

Instructor permission

No Requirements

MUSC3530 - Cache Symphony Orchestra - 1 - Credits

Course Overview

Course Prefix
MUSC

Course Number
3530

Department
Music

Course Title
Cache Symphony Orchestra

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Provides experience for nonmusic majors in performing standard orchestral literature.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Special Approval

By audition only Contact the conductor

No Requirements

MUSC3540 - Guitar Performance Practicum - 1 - Credits

Course Overview

Course Prefix
MUSC

Course Number
3540

Department
Music

Course Title
Guitar Performance Practicum

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
On a weekly basis, students required to perform for other class members. Repertoire selected in consultation with the instructor. Community performances also required.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

No Requirements

MUSC3550 - Individual Guitar Instruction for Music Majors - 1 - 2 Credits

Course Overview

Course Prefix
MUSC

Course Number
3550

Department
Music

Course Title
Individual Guitar Instruction for Music Majors

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course is designed to give music majors a flexible course of study leading to advanced musical and technical skill, and greater understanding of the instrument and its repertoire, employing specific pedagogical strategies. Materials differ from student to student. 2-credit enrollment requires permission from the private instructor and area head. The number of credits granted depends upon practice time and extent of literature required.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
2

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
2

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
2

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
2

Lecture Hours Operator:
TO

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- MUSC2595 - Individual Pre-Barrier Guitar Instruction

MUSC3560 - Guitar History and Literature - 3 - Credits

Course Overview

Course Prefix
MUSC

Course Number
3560

Department
Music

Course Title
Guitar History and Literature

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Presents a history of the development of guitar from its earliest ancestors to the present, including study of composers of music for guitar, guitarists, and changes to the instrument itself.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

MUSC3570 - Guitar Pedagogy I - 2 - Credits

Course Overview

Course Prefix
MUSC

Course Number
3570

Department
Music

Course Title
Guitar Pedagogy I

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Prepares qualified guitarists to teach beginning and intermediate level students. Familiarizes participants with "business" aspects of teaching, how to set up a private studio, available materials, and teaching techniques.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

No Requirements

MUSC3580 - Guitar Pedagogy II - 2 - Credits

Course Overview

Course Prefix
MUSC

Course Number
3580

Department
Music

Course Title
Guitar Pedagogy II

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Instruction in teaching various guitar styles. Experience in teaching class guitar and in private instruction. Review of available methods and materials.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

No Requirements

MUSC3590 - Electric Guitar Ensemble - 1 - Credits

Course Overview

Course Prefix
MUSC

Course Number
3590

Department
Music

Course Title
Electric Guitar Ensemble

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Offers opportunity for guitarists to rehearse and perform ensemble music written for electric guitar. Ensemble includes bass and drums.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

No Requirements

MUSC3610 - Vocal Repertory I - 2 - Credits

Course Overview

Course Prefix
MUSC

Course Number
3610

Department
Music

Course Title
Vocal Repertory I

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course surveys the art song of Western Classical music, including history and performance practice. Intended for music majors.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

No Requirements

MUSC3620 - Vocal Repertory II (CI) - 2 - Credits

Course Overview

Course Prefix
MUSC

Course Number
3620

Department
Music

Course Title
Vocal Repertory II (CI)

General Education Attribute
CI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course surveys the opera and oratorio of Western Classical music, including history, performance practice, and recital programming. Intended for music majors.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- MUSC3610 - Vocal Repertory I

MUSC3630 - Vocal Pedagogy I - 3 - Credits

Course Overview

Course Prefix
MUSC

Course Number
3630

Department
Music

Course Title
Vocal Pedagogy I

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Theoretical course studying anatomy and function of the voice, methods for teaching techniques, respiration, phonation, articulation, and support and health of the voice.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

MUSC3640 - Vocal Pedagogy II - 3 - Credits

Course Overview

Course Prefix
MUSC

Course Number
3640

Department
Music

Course Title
Vocal Pedagogy II

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Application of vocal theory to teaching of young, post-pubescent, and mature male and female voices, including challenges of teaching each particular type. Includes practicum in which students teach individual vocal lessons under instructor's supervision.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

MUSC3660 - Opera by Children - 3 - Credits

Course Overview

Course Prefix
MUSC

Course Number
3660

Department
Music

Course Title
Opera by Children

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Creative process of developing opera in a classroom for fine-arts and language-arts core instruction. Instruction in opera history, music, drama, art and dance elements, and necessary facilitation skills to build on individual's natural curiosity and creativity utilized in the process.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

MUSC3670 - Individual Vocal Instruction for Music Majors - 1 - 2 Credits

Course Overview

Course Prefix
MUSC

Course Number
3670

Department
Music

Course Title
Individual Vocal Instruction for Music Majors

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course is designed to give music majors a flexible course of study leading to advanced musical and technical skill, and greater understanding of the instrument and its repertoire. This individualized course employs specific pedagogical strategies. Materials differ from student to student. 2-credit enrollment requires permission from the private instructor and area head. The number of credits granted depends upon practice time and extent of literature required.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
2

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
2

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
2

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
2

Lecture Hours Operator:
TO

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- MUSC2645 - Individual Pre-Barrier Voice Instruction

requires successful completion of barrier jury

MUSC3700 - Woodwind Ensemble - 1 - 2 Credits

Course Overview

Course Prefix
MUSC

Course Number
3700

Department
Music

Course Title
Woodwind Ensemble

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Helps students gain knowledge and understanding of literature for woodwind ensemble, to gain knowledge of rehearsal techniques for perfecting chamber music, and to demonstrate mastery of these skills through performance.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
2

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
2

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
2

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
2

Lecture Hours Operator:
TO

Special Approval

Instructor permission

No Requirements

MUSC3710 - Individual Flute Instruction for Music Majors - 1 - 3 Credits

Course Overview

Course Prefix
MUSC

Course Number
3710

Department
Music

Course Title
Individual Flute Instruction for Music Majors

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course is designed to give music majors a flexible course of study leading to advanced musical and technical skill, and greater understanding of the instrument and its repertoire. This individualized course employs specific pedagogical strategies. Materials differ from student to student. 2-credit enrollment requires permission from the private instructor and area head. The number of credits granted depends upon practice time and extent of literature required.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- MUSC2755 - Individual Pre-barrier Flute Instruction

requires successful completion of barrier jury

MUSC3720 - Individual Oboe Instruction for Music Majors - 1 - 3 Credits

Course Overview

Course Prefix
MUSC

Course Number
3720

Department
Music

Course Title
Individual Oboe Instruction for Music Majors

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Designed to give music majors a flexible course of study leading to advanced musical and technical skill, and greater understanding of the instrument and its repertoire. This individualized course employs specific pedagogical strategies. Materials will differ from student to student. 2-credit enrollment requires permission from the private instructor and area head. Number of credits granted depends upon practice time and extent of literature required.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- MUSC2765 - Individual Pre-Barrier Oboe Instruction

requires successful completion of barrier jury

MUSC3730 - Individual Clarinet Instruction for Music Majors - 1 - 3 Credits

Course Overview

Course Prefix
MUSC

Course Number
3730

Department
Music

Course Title
Individual Clarinet Instruction for Music Majors

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Designed to give music majors a flexible course of study leading to advanced musical and technical skill, and greater understanding of the instrument and its repertoire. This individualized course employs specific pedagogical strategies. Materials will differ from student to student. 2-credit enrollment requires permission from the private instructor and area head. Number of credits granted depends upon practice time and extent of literature required.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- MUSC2775 - Individual Pre-Barrier Clarinet instruction

requires successful completion of barrier jury

MUSC3740 - Individual Bassoon Instruction for Music Majors - 1 - 3 Credits

Course Overview

Course Prefix
MUSC

Course Number
3740

Department
Music

Course Title
Individual Bassoon Instruction for Music Majors

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course is designed to give music majors a flexible course of study leading to advanced musical and technical skill, and greater understanding of the instrument and its repertoire. This individualized course employs specific pedagogical strategies. Materials differ from student to student. 2-credit enrollment requires permission from the private instructor and area head. The number of credits granted depends upon practice time and extent of literature required.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- MUSC2785 - Individual Pre-Barrier Bassoon Instruction

requires successful completion of barrier jury

MUSC3750 - Individual Saxophone Instruction for Music Majors - 1 - 3 Credits

Course Overview

Course Prefix
MUSC

Course Number
3750

Department
Music

Course Title
Individual Saxophone Instruction for Music Majors

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course is designed to give music majors a flexible course of study leading to advanced musical and technical skill, and greater understanding of the instrument and its repertoire. This individualized course employs specific pedagogical strategies. Materials differ from student to student. 2-credit enrollment requires permission from the private instructor and area head. The number of credits granted depends upon practice time and extent of literature required.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- MUSC2795 - Individual Pre-Barrier Saxophone Instruction

requires successful completion of barrier jury

MUSC3760 - Jazz Ensemble - 1 - Credits

Course Overview

Course Prefix
MUSC

Course Number
3760

Department
Music

Course Title
Jazz Ensemble

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Select ensemble performing big band jazz music.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Special Approval
Admission by audition only

No Requirements

MUSC3770 - Jazz Orchestra - 1 - Credits

Course Overview

Course Prefix
MUSC

Course Number
3770

Department
Music

Course Title
Jazz Orchestra

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Preparation and performance of big band jazz music.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Special Approval
Admission by audition only

No Requirements

MUSC3780 - Flute Ensemble - 1 - Credits

Course Overview

Course Prefix
MUSC

Course Number
3780

Department
Music

Course Title
Flute Ensemble

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Students play all members of the flute family to gain knowledge about flute ensemble repertoire, rehearsal techniques, and chamber music performance skills. No audition required, but students will be assigned to one hour rehearsal time based on playing ability.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Special Approval

Instructor approval

No Requirements

MUSC3785 - Marching Band (DHA) - 1 - Credits

Course Overview

Course Prefix
MUSC

Course Number
3785

Department
Music

Course Title
Marching Band (DHA)

General Education Attribute
DHA

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Preparation of musical entertainment and marching drills for football games.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Special Approval

Consent of director

No Requirements

MUSC3790 - Symphonic Band (DHA) - 1 - Credits

Course Overview

Course Prefix
MUSC

Course Number
3790

Department
Music

Course Title
Symphonic Band (DHA)

General Education Attribute
DHA

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Performance of significant works from symphonic band repertoire.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Special Approval
Previous experience on band instruments; audition for chair placement only

No Requirements

MUSC3795 - Wind Symphony - 1 - Credits

Course Overview

Course Prefix
MUSC

Course Number
3795

Department
Music

Course Title
Wind Symphony

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
In this laboratory course, students participate in the Cache Wind Symphony, engaging the local community and studying music in depth through individual and group learning and sharing. Students gain experience through rehearsal and performance, both performing and conducting.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Special Approval
Instructor permission

No Requirements

MUSC3800 - Low Brass Choir - 1 - Credits

Course Overview

Course Prefix
MUSC

Course Number
3800

Department
Music

Course Title
Low Brass Choir

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Small ensemble for trombone, euphonium, and tuba players, intended to provide students the opportunity to grow as musicians in a low brass setting. Non-auditioned. Open to students of all majors.

Credit Hours

Credit Hours Min:
1

Contact Hours

Contact Hours Min:
1

Billing Hours

Billing Hours Min:
1

Lecture Hours

Lecture Hours Min:
1

MUSC3810 - Individual Trumpet Instruction for Music Majors - 1 - 3 Credits

Course Overview

Course Prefix
MUSC

Course Number
3810

Department
Music

Course Title
Individual Trumpet Instruction for Music Majors

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course is designed to give music majors a flexible course of study leading to advanced musical and technical skill, and greater understanding of the instrument and its repertoire. This individualized course employs specific pedagogical strategies. Materials differ from student to student. 2-credit enrollment requires permission from the private instructor and area head. The number of credits granted depends upon practice time and extent of literature required.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- MUSC2855 - Individual Pre-Barrier Trumpet Instruction

requires successful completion of barrier jury

MUSC3820 - Individual Trombone Instruction for Music Majors - 1 - 3 Credits

Course Overview

Course Prefix
MUSC

Course Number
3820

Department
Music

Course Title
Individual Trombone Instruction for Music Majors

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course is designed to give music majors a flexible course of study leading to advanced musical and technical skill, and greater understanding of the instrument and its repertoire. This individualized course employs specific pedagogical strategies. Materials differ from student to student. 2-credit enrollment requires permission from the private instructor and area head. The number of credits granted depends upon practice time and extent of literature required.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- MUSC2865 - Individual Pre-Barrier Trombone Instruction

requires successful completion of barrier jury

MUSC3830 - Individual French Horn Instruction for Music Majors - 1 - 3 Credits

Course Overview

Course Prefix
MUSC

Course Number
3830

Department
Music

Course Title
Individual French Horn Instruction for Music Majors

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course is designed to give music majors a flexible course of study leading to advanced musical and technical skill, and greater understanding of the instrument and its repertoire. This individualized course employs specific pedagogical strategies. Materials differ from student to student. Enrollment in two credits requires permission from the private instructor and area head. The number of credits granted depends upon practice time and extent of literature required.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- MUSC2875 - Individual Pre-barrier French Horn Instruction

requires successful completion of barrier jury

MUSC3840 - Individual Tuba/Euphonium Instruction for Music Majors - 1 - 3 Credits

Course Overview

Course Prefix
MUSC

Course Number
3840

Department
Music

Course Title

Individual Tuba/Euphonium Instruction for Music Majors

Grade Mode
Standard Letter

Repeat Status
RP

Course Description

This course is designed to give music majors a flexible course of study leading to advanced musical and technical skill, and greater understanding of the instrument and its repertoire. This individualized course employs specific pedagogical strategies. Materials differ from student to student. Enrollment in 2 credits requires permission from the private instructor and area head. The number of credits granted depends upon practice time and extent of literature required.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- MUSC2885 - Individual Pre-Barrier Tuba/Euph Instruction

requires successful completion of barrier jury

MUSC3850 - Brass Ensemble - 1 - Credits

Course Overview

Course Prefix
MUSC

Course Number
3850

Department
Music

Course Title
Brass Ensemble

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Helps students gain knowledge and understanding of brass ensemble, gain knowledge of rehearsal techniques for perfecting chamber music, and demonstrate mastery of these skills through performance.

Credit Hours

Credit Hours Min:
1

Contact Hours

Contact Hours Min:
1

Billing Hours

Billing Hours Min:
1

Lecture Hours

Lecture Hours Min:
1

Special Approval

Instructor permission

No Requirements

MUSC3860 - Individual Percussion Instruction for Music Majors - 1 - 3 Credits

Course Overview

Course Prefix
MUSC

Course Number
3860

Department
Music

Course Title
Individual Percussion Instruction for Music Majors

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course is designed to give music majors a flexible course of study leading to advanced musical and technical skill, and greater understanding of the instrument and its repertoire. This individualized course employs specific pedagogical strategies. Materials differ from student to student. Enrollment for two credits requires permission from the private instructor and area head. The number of credits granted depends upon practice time and extent of literature required.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- MUSC2895 - Individual Pre-Barrier Percussion Instruction

requires successful completion of barrier jury

MUSC3870 - Percussion Ensemble - 1 - Credits

Course Overview

Course Prefix
MUSC

Course Number
3870

Department
Music

Course Title
Percussion Ensemble

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Provides opportunity for percussionists to perform select percussion literature in a chamber music setting.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

No Requirements

MUSC3900 - Improvisation I - 2 - Credits

Course Overview

Course Prefix
MUSC

Course Number
3900

Department
Music

Course Title
Improvisation I

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Study of techniques of jazz improvisation applicable to all instruments.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- MUSC2110 - Music Theory III
- MUSC2130 - Aural Skills III

MUSC3905 - Improvisation II - 2 - Credits

Course Overview

Course Prefix
MUSC

Course Number
3905

Department
Music

Course Title
Improvisation II

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course is a continuation and development of Improvisation I. Advanced improvisational techniques including key change, complex chord progressions and improvisation in various periods and styles will be presented.

Credit Hours

Credit Hours Min:
2

Contact Hours

Contact Hours Min:
2

Billing Hours

Billing Hours Min:
2

Lecture Hours

Lecture Hours Min:
2

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- MUSC3900 - Improvisation I

MUSC3910 - Individual Composition Instruction - 1 - 2 Credits

Course Overview

Course Prefix
MUSC

Course Number
3910

Department
Music

Course Title
Individual Composition Instruction

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Individual study of techniques and procedures of music composition, emphasizing assistance in completing individual compositional projects, building composition portfolio, and preparing for composition recitals.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
2

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
2

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
2

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
2

Lecture Hours Operator:
TO

Special Approval

Instructor permission

No Requirements

MUSC3915 - Composition Seminar - 1 - Credits

Course Overview

Course Prefix
MUSC

Course Number
3915

Department
Music

Course Title
Composition Seminar

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This weekly seminar provides group feedback on student compositions, study of new works, and other special composition-related topics.

Credit Hours

Credit Hours Min:
1

Contact Hours

Contact Hours Min:
1

Billing Hours

Billing Hours Min:
1

Lecture Hours

Lecture Hours Min:
1

Registration Restrictions
Admission to a Music Performance program or the Music - BA program; Junior or senior standing

No Requirements

MUSC3920 - Junior Recital - 1 - 2 Credits

Course Overview

Course Prefix
MUSC

Course Number
3920

Department
Music

Course Title
Junior Recital

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course involves the performance of pieces selected by the third-year student and approved by the instructor, for performance in accordance with specific music area requirements. Please note that there is an additional charge to use some campus venues.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
2

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
2

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
2

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
2

Lecture Hours Operator:
TO

Special Approval
Instructor permission

No Requirements

MUSC3930 - Band Literature - 2 - Credits

Course Overview

Course Prefix
MUSC

Course Number
3930

Department
Music

Course Title
Band Literature

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Study of literature appropriate for beginning, intermediate, and advanced level band programs.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Special Approval

Instructor permission

No Requirements

MUSC3940 - Music and Media - 2 - Credits

Course Overview

Course Prefix
MUSC

Course Number
3940

Department
Music

Course Title
Music and Media

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course explores the complexities of music in film, video, gaming, TV, radio and other electronic media. The course includes copyright and licensing issues, computer technologies used in creating and interfacing media, and the creative processes involved with media production.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- MUSC2180 - Computer Applications in Music Proficiency Exam

MUSC3950 - Jazz Choir - 1 - Credits

Course Overview

Course Prefix
MUSC

Course Number
3950

Department
Music

Course Title
Jazz Choir

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Emphasizes vocal ability, harmonic ear training, and rhythmic understanding. Ability to vocally improvise is helpful, though not a necessary prerequisite. Auditions held during the first week of fall semester.

Credit Hours

Credit Hours Min:
1

Contact Hours

Contact Hours Min:
1

Billing Hours

Billing Hours Min:
1

Lecture Hours

Lecture Hours Min:
1

No Requirements

MUSC3970 - Non-Profit Arts Management - 3 - Credits

Course Overview

Course Prefix
MUSC

Course Number
3970

Department
Music

Course Title
Non-Profit Arts Management

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
A practical study of non-profit arts organizations including Articles of Incorporation and Bylaws, Boards, long and short range plannimg, budgeting process, fundraising and event planning.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- MUSC2240 - Introduction to Music Business

MUSC4240 - Advanced Conducting - 2 - Credits

Course Overview

Course Prefix
MUSC

Course Number
4240

Department
Music

Course Title
Advanced Conducting

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Covers techniques, procedures, materials, and philosophies appropriate to the motor skill of conducting and the pedagogy of rehearsal techniques with a band/choir/string ensemble. Students will be able to demonstrate techniques in music selection, score analysis, conducting gesture, and pedagogy. (F—instrumental) (Sp—Choral).

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

No Requirements

MUSC4310 - Music Therapy with Adult Populations - 3 - Credits

Course Overview

Course Prefix
MUSC

Course Number
4310

Department
Music

Course Title
Music Therapy with Adult Populations

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers music therapy models, methods, techniques, and psychotherapeutic orientations informing clinical practice with adult populations including addictive disorders, older adults, medical settings, mental health, physical disabilities, and wellness.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Special Approval
Instructor permission

Other Enrollment Recommendations
Successful Completion of Level III Exam.

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Earn a minimum grade of B in the following:

- MUSC3310 - Music Therapy With Diverse Clinical Populations

MUSC4320 - Research in Music Therapy (CI) - 2 - Credits

Course Overview

Course Prefix
MUSC

Course Number
4320

Department
Music

Course Title
Research in Music Therapy (CI)

General Education Attribute
CI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students gain an introductory look into research design, methods, and data analyses appropriate to research in music education and music therapy. Students will design and complete an IRB approved classroom research project.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Registration Restrictions
Required for music therapy majors; open to all students.

Special Approval
Instructor permission

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- STAT1040 - Introduction to Statistics (QL)
  OR STAT1080 - Foundations of Data Science (QL)

MUSC4330 - Clinical and Professional Issues in Music Therapy - 3 - Credits

Course Overview

Course Prefix
MUSC

Course Number
4330

Department
Music

Course Title
Clinical and Professional Issues in Music Therapy

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers music therapy group work in clinical settings and explores advanced practices of music therapy, including Guided Imagery and Music. An emphasis will be placed on ethical practice and issues related to private practice, marketing, and reimbursement.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Admission to the Music Therapy major

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Earn a minimum grade of B in the following:

- MUSC4310 - Music Therapy with Adult Populations

MUSC4340 - Internship in Music Therapy - 2 - Credits

Course Overview

Course Prefix
MUSC

Course Number
4340

Department
Music

Course Title
Internship in Music Therapy

Grade Mode
Pass/Fail

Repeat Status
NR

Course Description
This course is a six-month residential internship placement with an AMTA National Roster Internship or USU University-Affiliated Internship setting.

Credit Hours

Credit Hours Min:
2

Contact Hours

Contact Hours Min:
2

Billing Hours

Billing Hours Min:
2

Lecture Hours

Lecture Hours Min:
2

Simple Requisites

Corequisite

Type
Corequisite

Required

Enroll in the following Courses:

- MUSC4330 - Clinical and Professional Issues in Music Therapy

MUSC4410 - Special Topics in Performance and Pedagogy - 1 - 2 Credits

Course Overview

Course Prefix
MUSC

Course Number
4410

Department
Music

Course Title
Special Topics in Performance and Pedagogy

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course is a continuation of MUSC 1430 and MUSC 1440 with analysis, performance, and teaching of basic repertoire at intermediate to advanced levels. Instructor approval is required to register for two credits.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
2

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
2

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
2

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
2

Lecture Hours Operator:
TO

Registration Restrictions

Admission to the Piano Performance and Pedagogy major

MUSC4460 - Keyboard Skills III - 2 - Credits

Course Overview

Course Prefix
MUSC

Course Number
4460

Department
Music

Course Title
Keyboard Skills III

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course is designed to develop technical facility and musical fluency at the keyboard. Students focus on skills such as harmonic paradigms, voice-leading, transposition, harmonization, figured bass, improvisation, score reading, and sight reading.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Registration Restrictions

Admission to the pre-program or admitted into the Music: Piano Performance and Pedagogy - BM program or admitted by audition

No Requirements

MUSC4500 - String Ensemble - 1 - Credits

Course Overview

Course Prefix
MUSC

Course Number
4500

Department
Music

Course Title
String Ensemble

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Offers opportunity for capable string players to study and perform music written for variety of small ensemble combinations.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Registration Restrictions

Admission to music or pre-music major

No Requirements

MUSC4510 - Individual Violin Instruction for Music Majors - 1 - 2 Credits

Course Overview

Course Prefix
MUSC

Course Number
4510

Department
Music

Course Title
Individual Violin Instruction for Music Majors

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course was designed to give music majors a flexible course of study leading to advanced musical and technical skill, and greater understanding of the instrument and its repertoire. This individualized course employs specific pedagogical strategies. Materials differ from student to student. Enrollment for two credits requires permission from the private instructor and area head. The number of credits granted depends upon practice time and extent of literature required.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
2

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
2

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
2

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
2

Lecture Hours Operator:
TO

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- MUSC2545 - Individual Pre-Barrier Violin Instruction

requires successful completion of barrier jury

MUSC4520 - Individual Viola Instruction for Music Majors - 1 - 2 Credits

Course Overview

Course Prefix
MUSC

Course Number
4520

Department
Music

Course Title
Individual Viola Instruction for Music Majors

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course is designed to give music majors a flexible course of study leading to advanced musical and technical skill, and greater understanding of the instrument and its repertoire. This individualized course employs specific pedagogical strategies. Materials will differ from student to student. Enrollment in two credits requires permission from the private instructor and area head. The number of credits granted depends upon practice time and extent of literature required.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
2

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
2

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
2

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
2

Lecture Hours Operator:
TO

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- MUSC2535 - Individual Pre-barrier Viola Instruction

(successful completion of barrier jury)

MUSC4530 - Individual Cello Instruction for Music Majors - 1 - 2 Credits

Course Overview

Course Prefix
MUSC

Course Number
4530

Department
Music

Course Title
Individual Cello Instruction for Music Majors

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course is designed to give music majors a flexible course of study leading to advanced musical and technical skill, and greater understanding of the instrument and its repertoire. This individualized course employs specific pedagogical strategies. Materials differ from student to student. Enrollment in two credits requires permission from the private instructor and area head. The number of credits granted depends upon practice time and extent of literature required.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
2

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
2

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
2

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
2

Lecture Hours Operator:
TO

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- MUSC2525 - Individual Pre-Barrier Cello Instruction

requires successful completion of barrier jury

MUSC4540 - Individual String Bass Instruction for Music Majors - 1 - 2 Credits

Course Overview

Course Prefix
MUSC

Course Number
4540

Department
Music

Course Title
Individual String Bass Instruction for Music Majors

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course is designed to give music majors a flexible course of study leading to advanced musical and technical skill, and greater understanding of the instrument and its repertoire. This individualized course employs specific pedagogical strategies. Materials differ from student to student. Enrollment in two credits requires permission from the private instructor and area head. The number of credits granted depends upon practice time and extent of literature required.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
2

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
2

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
2

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
2

Lecture Hours Operator:
TO

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- MUSC2505 - Individual Pre-Barrier String Bass Instruction

requires successful completion of barrier jury

MUSC4550 - Acoustic Guitar Ensemble - 1 - Credits

Course Overview

Course Prefix
MUSC

Course Number
4550

Department
Music

Course Title
Acoustic Guitar Ensemble

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Offers opportunity for guitarists to rehearse and perform intermediate and advanced music written for acoustic guitar.

Credit Hours

Credit Hours Min:
1

Contact Hours

Contact Hours Min:
1

Billing Hours

Billing Hours Min:
1

Lecture Hours

Lecture Hours Min:
1

No Requirements

MUSC4600 - University Chorale (DHA) - 1 - Credits

Course Overview

Course Prefix
MUSC

Course Number
4600

Department
Music

Course Title
University Chorale (DHA)

General Education Attribute
DHA

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Select mixed choir performing a wide range of choral literature.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Special Approval

Admission by audition only

No Requirements

MUSC4620 - Choral Conducting Practicum - 1 - Credits

Course Overview

Course Prefix
MUSC

Course Number
4620

Department
Music

Course Title
Choral Conducting Practicum

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Application of principles of choral music education in public school setting.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

No Requirements

MUSC4650 - Chamber Singers (DHA) - 1 - Credits

Course Overview

Course Prefix
MUSC

Course Number
4650

Department
Music

Course Title
Chamber Singers (DHA)

General Education Attribute
DHA

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Select small ensemble performing a wide range of choral literature.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Special Approval

Admission by audition only

No Requirements

MUSC4700 - Wind Orchestra (DHA) - 1 - Credits

Course Overview

Course Prefix
MUSC

Course Number
4700

Department
Music

Course Title
Wind Orchestra (DHA)

General Education Attribute
DHA

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Highly-selective group, performing important traditional and contemporary works from the wind band repertoire.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Special Approval

Admission by audition only

No Requirements

MUSC4710 - Jazz Combo - 1 - 2 Credits

Course Overview

Course Prefix
MUSC

Course Number
4710

Department
Music

Course Title
Jazz Combo

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Study and performance of the finest literature for the small jazz ensemble.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
2

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
2

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
2

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
2

Lecture Hours Operator:
TO

Special Approval

Audition and instructor permission

No Requirements

MUSC4720 - Saxophone Quartet - 1 - 2 Credits

Course Overview

Course Prefix
MUSC

Course Number
4720

Department
Music

Course Title
Saxophone Quartet

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Study and performance of the finest classical, jazz, and popular music for the saxophone quartet.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
2

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
2

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
2

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
2

Lecture Hours Operator:
TO

Special Approval

Audition and instructor permission

No Requirements

MUSC4730 - Directed Project in Instrumental Pedagogy and Literature (CI) - 3 - Credits

Course Overview

Course Prefix
MUSC

Course Number
4730

Department
Music

Course Title
Directed Project in Instrumental Pedagogy and Literature (CI)

General Education Attribute
CI

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course will acquaint the student with curricular and business issues involved in setting up a private studio and with solo and chamber music repertoire, providing an opportunity for written analysis, interviews, and oral presentations.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Registration Restrictions
Admission to the Music Performance major

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ENGL2010 - Research and Argument Across Perspectives (CL2)

MUSC4920 - Senior Recital - 1 - 2 Credits

Course Overview

Course Prefix
MUSC

Course Number
4920

Department
Music

Course Title
Senior Recital

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course involves the performance of pieces selected by the student and approved by the instructor for performance in accordance with specific music-area requirements. Please note that there is an additional charge to use some campus venues.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
2

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
2

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
2

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
2

Lecture Hours Operator:
TO

Special Approval
Instructor permission

No Requirements

MUSC4930 - Readings and Conference - 1 - 6 Credits

Course Overview

Course Prefix
MUSC

Course Number
4930

Department
Music

Course Title
Readings and Conference

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Undergraduate course designed to provide special interest study.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
6

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
6

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
6

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
6

Lecture Hours Operator:
TO

No Requirements

MUSC4935 - Music BA Capstone Project - 2 - 3 Credits

Course Overview

Course Prefix
MUSC

Course Number
4935

Department
Music

Course Title
Music BA Capstone Project

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This class is for Bachelor of Arts students completing their capstone projects, most often in their final semester of enrollment.

Credit Hours

Credit Hours Min:
2

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
2

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
2

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
2

Lecture Hours Max:
3

Lecture Hours Operator:
TO

Special Approval
Instructor permission

No Requirements

MUSC4940 - Senior Thesis - 1 - 6 Credits

Course Overview

Course Prefix
MUSC

Course Number
4940

Department
Music

Course Title
Senior Thesis

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
As partial fulfillment of Honors Program requirements, students design and complete a major paper/project. Examples of projects include performance, composition, and musical analysis.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
6

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
6

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
6

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
6

Lecture Hours Operator:
TO

No Requirements

MUSC5261 - Level I Orff-Schulwerk Teacher Certification - 4 - Credits

Course Overview

Course Prefix
MUSC

Course Number
5261

Department
Music

Course Title
Level I Orff-Schulwerk Teacher Certification

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Curriculum guidelines of the American Orff-Schulwerk Association are the foundation for this teacher education course in music and movement pedagogy. Level 1 is the first of three levels that, when completed, provide national certification in Orff-Schulwerk Teacher Education.

Credit Hours

Credit Hours Min:
4

Contact Hours

Contact Hours Min:
4

Billing Hours

Billing Hours Min:
4

Lecture Hours

Lecture Hours Min:
4

Other Enrollment Recommendations

Ability to read and write music notation; This is a graduate level course that may be taken by upper-level music education students prior to student teaching.

MUSC5262 - Level II Orff-Schulwerk Teacher Certification - 4 - Credits

Course Overview

Course Prefix
MUSC

Course Number
5262

Department
Music

Course Title
Level II Orff-Schulwerk Teacher Certification

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Curriculum guidelines of the American Orff-Schulwerk Association are the foundation for this teacher education course in music and movement pedagogy. Level II is the second of three levels that, when completed, provide national certification in Orff-Schulwerk Teacher Education.

Credit Hours

Credit Hours
Min:
4

Contact Hours

Contact Hours
Min:
4

Billing Hours

Billing Hours
Min:
4

Lecture Hours

Lecture Hours
Min:
4

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Fulfill ANY of the following requirements:

Option 1

Complete ALL of the following Courses:

- MUSC5261 - Level I Orff-Schulwerk Teacher Certification

OR

Option 2

Successful completion of Level 1 Orff-Schulwerk Teacher Education course approved by American Orff-Schulwerk Association

MUSC5263 - Level Three Orff-Schulwerk Teacher Education - 4 - Credits

Course Overview

Course Prefix
MUSC

Course Number
5263

Department
Music

Course Title
Level Three Orff-Schulwerk Teacher Education

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Level Three Orff-Schulwerk Teacher Education is a comprehensive course in music and movement pedagogy that satisfies partial requirements towards certification by the American Orff-Schulwerk Association. Level Three explores group instruction through improvisation, speech, body percussion, singing, movement, and playing instruments.

Credit Hours

Credit Hours
Min:
4

Contact Hours

Contact Hours
Min:
4

Billing Hours

Billing Hours
Min:
4

Lecture Hours

Lecture Hours
Min:
4

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Fulfill ANY of the following requirements:

Option 1

Complete ALL of the following Courses:

- MUSC5261 - Level I Orff-Schulwerk Teacher Certification **OR** MUSC5262 - Level II Orff-Schulwerk Teacher Certification

OR

Option 2

Successful completion of Level One and Level Two Orff-Schulwerk Teacher Education at a course approved by the American Orff-Schulwerk Association

MUSC5470 - Keyboard Skills IV - 2 - Credits

Course Overview

Course Prefix
MUSC

Course Number
5470

Department
Music

Dual-Listed Courses
MUSC6470 - Keyboard Skills IV

Course Title
Keyboard Skills IV

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course is designed to develop technical facility and musical fluency at the keyboard. Students focus on skills such as harmonic paradigms, voice-leading, transposition, harmonization, figured bass, improvisation, score reading, and sight reading. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Special Approval

Instructor approval

No Requirements

MUSC5500 - Seminar for Student Teaching - 2 - Credits

Course Overview

Course Prefix
MUSC

Course Number
5500

Department
Music

Course Title
Seminar for Student Teaching

Grade Mode
Pass/Fail

Repeat Status
NR

Course Description
This is a capstone seminar focused on student teaching issues, professional development, and principles of effective instruction with an emphasis on reflective teaching.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Simple Requisites

Corequisite

Type
Corequisite

Required

Enroll in the following Courses:

- MUSC5630 - Student Teaching in the Schools

MUSC5600 - Opera Theatre Production - 1 - 3 Credits

Course Overview

Course Prefix
MUSC

Course Number
5600

Department
Music

Course Title
Opera Theatre Production

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Techniques of musical theater, including participation as cast or crew in musical or operatic stage productions or excerpts.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

MUSC5630 - Student Teaching in the Schools - 10 - Credits

Course Overview

Course Prefix
MUSC

Course Number
5630

Department
Music

Course Title
Student Teaching in the Schools

Grade Mode
Pass/Fail

Repeat Status
NR

Course Description
This is a thirteen-week culminating practicum in which students assume full-time teaching responsibilities under the direction of a collaborating teacher and university supervisor.

Credit Hours

Credit Hours Min:
10

Contact Hours

Contact Hours Min:
10

Billing Hours

Billing Hours Min:
10

Lecture Hours

Lecture Hours Min:
10

Registration Restrictions

Admission to Teacher Education and Admission to Elementary Education or Secondary Education Student Teaching

Simple Requisites

Corequisite

Type
Corequisite

Required

Enroll in the following Courses:

- MUSC5500 - Seminar for Student Teaching

MUSC5640 - American Festival Chorus - 1 - Credits

Course Overview

Course Prefix
MUSC

Course Number
5640

Department
Music

Course Title
American Festival Chorus

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Large select mixed choir performing major works for chorus and orchestra.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Special Approval
Admission by audition only

MUSC5915 - Careers in Music - 3 - Credits

Course Overview

Course Prefix
MUSC

Course Number
5915

Department
Music

Dual-Listed Courses
MUSC6915 - Careers in Music

Course Title
Careers in Music

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course seeks to provide a clear path for music majors who are often not aware of the variety of career plans open to them, and to help them outline clear professional pathways towards their future success in these fields. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Admission to a Music major, junior/senior standing.

No Requirements

MUSC6010 - Introduction to Music Research - 3 - Credits

Course Overview

Course Prefix
MUSC

Course Number
6010

Department
Music

Course Title
Introduction to Music Research

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course acquaints graduate students with music research, information science, and technical writing. Topics addressed include print and electronic resources, historical editions, manuscripts and holographs, period recordings, performance practice resources, writing styles, and bibliographic resources.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

MUSC6100 - Graduate Performance Ensemble - 1 - 2 Credits

Course Overview

Course Prefix
MUSC

Course Number
6100

Department
Music

Course Title
Graduate Performance Ensemble

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Designed to give students opportunity for a high-level music experience in choral and instrumental performance ensembles.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
2

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
2

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
2

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
2

Lecture Hours Operator:
TO

No Requirements

MUSC6110 - Advanced Conducting - 2 - Credits

Course Overview

Course Prefix
MUSC

Course Number
6110

Department
Music

Course Title
Advanced Conducting

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Students master manual techniques of conducting and improve score study procedures, resulting in analysis and communication of musical ideas.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

No Requirements

MUSC6120 - Advanced Rehearsal Techniques - 2 - Credits

Course Overview

Course Prefix
MUSC

Course Number
6120

Department
Music

Course Title
Advanced Rehearsal Techniques

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Provides students with conducting experience within their major performance areas; i.e., chorale, band, orchestra. This is accomplished through observation of rehearsal techniques and procedures, and by conducting rehearsals at the instructor's discretion.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

No Requirements

MUSC6130 - Music History Seminar - 3 - Credits

Course Overview

Course Prefix
MUSC

Course Number
6130

Department
Music

Course Title
Music History Seminar

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Close study and discussion of a special topic in music history, emphasizing individual research and presentation. Since content differs each semester, course may be repeated for credit.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- MUSC6010 - Introduction to Music Research

MUSC6140 - Music Theory Seminar - 3 - Credits

Course Overview

Course Prefix
MUSC

Course Number
6140

Department
Music

Course Title
Music Theory Seminar

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course involves close study and discussion of a special topic in music theory, emphasizing individual analysis and presentation. Since content differs each semester, the course may be repeated for credit.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Admission to the Master of Music program

MUSC6300 - Graduate Piano Literature I - 2 - Credits

Course Overview

Course Prefix
MUSC

Course Number
6300

Department
Music

Course Title
Graduate Piano Literature I

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides comprehensive examination of piano literature, the history of the instrument, and performance practice.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

MUSC6400 - Graduate Piano Literature II - 2 - Credits

Course Overview

Course Prefix
MUSC

Course Number
6400

Department
Music

Course Title
Graduate Piano Literature II

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides comprehensive examination of piano literature, the history of the instrument, and performance practice.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

MUSC6410 - Collaborative Artistry - 2 - Credits

Course Overview

Course Prefix
MUSC

Course Number
6410

Department
Music

Course Title
Collaborative Artistry

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Helps graduate pianists to develop the skills needed for vocal and instrumental accompaniment. Addresses techniques in score analysis, transposition, ensemble skills, etc. Students receive coaching from piano, voice, and instrumental faculty.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

No Requirements

MUSC6420 - Pedagogy Practicum - 2 - Credits

Course Overview

Course Prefix
MUSC

Course Number
6420

Department
Music

Course Title
Pedagogy Practicum

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Observation of master instructors, practice teaching (private and classroom), and supervised studio instruction.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

No Requirements

MUSC6430 - Special Topics in Performance and Pedagogy - 2 - Credits

Course Overview

Course Prefix
MUSC

Course Number
6430

Department
Music

Course Title
Special Topics in Performance and Pedagogy

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course consists of the pedagogy of beginning, intermediate, and advanced methods of teaching piano, as well as strategies for developing a private studio.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

No Requirements

MUSC6470 - Keyboard Skills IV - 2 - Credits

Course Overview

Course Prefix
MUSC

Course Number
6470

Department
Music

Dual-Listed Courses
MUSC5470 - Keyboard Skills IV

Course Title
Keyboard Skills IV

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course is designed to develop technical facility and musical fluency at the keyboard. Students focus on skills such as harmonic paradigms, voice-leading, transposition, harmonization, figured bass, improvisation, score reading, and sight reading. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Special Approval
Instructor permission required.

No Requirements

MUSC6610 - Practicum in Music Performance - 1 - 4 Credits

Course Overview

Course Prefix
MUSC

Course Number
6610

Department
Music

Course Title
Practicum in Music Performance

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Provides the graduate student with insight into advanced techniques and methods of preparing music ensembles for performance by rehearsing one of the University ensembles on assigned musical selections while being critiqued by the ensemble director.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
4

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
4

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
4

Lecture Hours Operator:
TO

No Requirements

MUSC6620 - Seminar in Musical Literature - 2 - Credits

Course Overview

Course Prefix
MUSC

Course Number
6620

Department
Music

Course Title
Seminar in Musical Literature

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Designed to study and internalize principal forms of music through discussion of historical evolution and stylistic characteristics of the periods of music. Embraces significant choral functions of every style period.

Credit Hours

Credit Hours Min:
2

Contact Hours

Contact Hours Min:
2

Billing Hours

Billing Hours Min:
2

Lecture Hours

Lecture Hours Min:
2

No Requirements

MUSC6630 - Individual Instruction for Graduates - 1 - 2 Credits

Course Overview

Course Prefix
MUSC

Course Number
6630

Department
Music

Course Title
Individual Instruction for Graduates

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Includes 60-minute lessons for either 1 or 2 credits. Number of credits granted depends upon practice time and extent of literature required. Designed to give graduate students private instruction at any and all stages of advancement.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
2

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
2

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
2

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
2

Lecture Hours Operator:
TO

Special Approval

Instructor permission

No Requirements

MUSC6640 - Graduate Vocal Pedagogy Seminar - 3 - Credits

Course Overview

Course Prefix
MUSC

Course Number
6640

Department
Music

Course Title
Graduate Vocal Pedagogy Seminar

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students learn pedagogy of beginning through advanced methods and stylistic approaches for teaching voice. Students apply vocal theory to teaching young, post-pubescent, and mature voices. It includes practicum in which students teach individual vocal lessons under instructor's supervision.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

MUSC6650 - Graduate Advanced Coaching and Repertoire Study - 1 - Credits

Course Overview

Course Prefix
MUSC

Course Number
6650

Department
Music

Course Title
Graduate Advanced Coaching and Repertoire Study

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course teaches the musicality, diction, and interpretation of applied art song and operatic repertoire in a private coaching context. The course is repeatable and geared towards recital and operatic role preparation.

Credit Hours

Credit Hours Min:
1

Contact Hours

Contact Hours Min:
1

Billing Hours

Billing Hours Min:
1

Lecture Hours

Lecture Hours Min:
1

No Requirements

MUSC6900 - Independent Study - 1 - 6 Credits

Course Overview

Course Prefix
MUSC

Course Number
6900

Department
Music

Course Title
Independent Study

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Advanced course designed to meet specific problems of the music educator and the applied music specialist.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
6

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
6

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
6

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
6

Lecture Hours Operator:
TO

No Requirements

MUSC6910 - Individual Recital - 1 - 3 Credits

Course Overview

Course Prefix
MUSC

Course Number
6910

Department
Music

Course Title
Individual Recital

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course involves preparation and presentation of a graduate recital, under the supervision of a major professor. Please note that there is an additional charge to use some campus venues.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

No Requirements

MUSC6915 - Careers in Music - 3 - Credits

Course Overview

Course Prefix
MUSC

Course Number
6915

Department
Music

Dual-Listed Courses
MUSC5915 - Careers in Music

Course Title
Careers in Music

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course seeks to provide a clear path for music majors who are often not aware of the variety of career plans open to them, and to help them outline clear professional pathways towards their future success in these fields. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Special Approval

Instructor permission required.

No Requirements

MUSC6970 - Research and Thesis - 2 - 6 Credits

Course Overview

Course Prefix
MUSC

Course Number
6970

Department
Music

Course Title
Research and Thesis

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
Individual work in thesis writing with guidance and criticism.

Credit Hours

Credit Hours Min:
2

Credit Hours Max:
6

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
2

Contact Hours Max:
6

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
2

Billing Hours Max:
6

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
2

Lecture Hours Max:
6

Lecture Hours Operator:
TO

No Requirements

MUSM1010 - Introduction to Museums - 3 - Credits

Course Overview

Course Prefix
MUSM

Course Number
1010

Department
School of Social Sciences

Course Title
Introduction to Museums

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students are introduced to museums and the role museums play in society. Historical and theoretical framework for museums science will be established and museums will be placed in a global perspective. Students will become familiar with the broad-based implications of museum work as a science.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

MUSM1020 - Museum Administration - 3 - Credits

Course Overview

Course Prefix
MUSM

Course Number
1020

Department
School of Social Sciences

Course Title
Museum Administration

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Instruction in aspects of museum management and administration, including policies and procedures, personnel management, budget formulation, governance, and interaction with support organizations.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

MUSM1030 - Museum Collection Management and Ethics - 3 - Credits

Course Overview

Course Prefix
MUSM

Course Number
1030

Department
School of Social Sciences

Course Title
Museum Collection Management and Ethics

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Course defines the role of museum collections and focuses on general museum concepts, procedures, and issues related to the management and care of collections. In addressing ethical considerations and legal obligations of museum collections and management, attention is given to international concerns as well as to state and national issues.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Other Enrollment Recommendations

Previous or current museum experience or coursework would be helpful

No Requirements

MUSM2010 - Museum Exhibitions I - 3 - Credits

Course Overview

Course Prefix
MUSM

Course Number
2010

Department
School of Social Sciences

Course Title
Museum Exhibitions I

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Designed to give students a background in the early aspects of exhibition preparation, this course will emphasize exhibit planning, research and writing.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Other Enrollment Recommendations

Previous or current museum experience or coursework would be helpful

No Requirements

MUSM2011 - Museum Exhibitions II - 3 - Credits

Course Overview

Course Prefix
MUSM

Course Number
2011

Department
School of Social Sciences

Course Title
Museum Exhibitions II

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Designed as a continuation of MUSM 2010. Emphasizes writing and preparing exhibit labels, fabrication of the exhibit, and exhibit evaluation.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- MUSM2010 - Museum Exhibitions I

MUSM2020 - Museum Preventative Conservation - 3 - Credits

Course Overview

Course Prefix
MUSM

Course Number
2020

Department
School of Social Sciences

Course Title
Museum Preventative Conservation

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Introduction to the current methods and theories pertaining to museum collections care, with an emphasis on handling, storing, and exhibiting collections as safely as possible. Low cost ideas will be shared.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Other Enrollment Recommendations

Previous or current museum experience or coursework helpful

No Requirements

MUSM2090 - Museum Practicum - 3 - Credits

Course Overview

Course Prefix
MUSM

Course Number
2090

Department
School of Social Sciences

Course Title
Museum Practicum

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Designed to meet the needs of individual students or museums. Involves individualized instruction under the supervision of faculty (or museum administrators at other locations) utilizing hands-on experiences in museum administration, collections, education, and exhibitions. It may be done at a student's local museum with approved supervision. A project or paper is required for completion of the course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Special Approval

Instructor permission

No Requirements

MUSM2977 - Cooperative Education - 1 - 3 Credits

Course Overview

Course Prefix
MUSM

Course Number
2977

Department
School of Social Sciences

Course Title
Cooperative Education

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Provides supervised on-the-job training in museum studies. Student meet with the instructor/coordinator periodically to determine and evaluate learning objectives, hours to be worked, and credit.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

Special Approval

Instructor permission

No Requirements

MUSM2988 - Independent Studies - 1 - 3 Credits

Course Overview

Course Prefix
MUSM

Course Number
2988

Department
School of Social Sciences

Course Title
Independent Studies

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Individual work approved by instructor. Time and credit to be arranged.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

Special Approval

Instructor permission

No Requirements

MUSM2999 - Workshop - 1 - 3 Credits

Course Overview

Course Prefix
MUSM

Course Number
2999

Department
School of Social Sciences

Course Title
Workshop

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Designed to meet the changing needs of the student in Museum Studies.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

Special Approval

Instructor permission

No Requirements

MUSM3310 - Introduction to Museum Studies (CI) - 3 - Credits

Course Overview

Course Prefix
MUSM

Course Number
3310

Department
School of Social Sciences

Cross-Listed Courses
ANTH3310 - Introduction to Museum Studies (CI)

Course Title
Introduction to Museum Studies (CI)

General Education Attribute
CI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Explores all aspects of museum work, from the acquisition and storage of collections to fundraising and educational programs. As part of the course requirements, students tour area museums and get first-hand perspectives on the challenges and rewards of museum work from professionals in the field. Course fee for field trip(s) required.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

NAS1010 - Introduction to Native American Studies (BHU) - 3 - Credits

Course Overview

Course Prefix
NAS

Course Number
1010

Department
School of Social Sciences

Course Title
Introduction to Native American Studies (BHU)

General Education Attribute
BHU

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course explores the socio-cultural, environmental, and historical complexity of Native American experience and introduces students to the major issues and interdisciplinary nature of Native American and indigenous studies. It is required for the Native American Studies minor.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

NAV1010 - Beginning Navajo for Native Speakers - 3 - Credits

Course Overview

Course Prefix
NAV

Course Number
1010

Department
World Languages and Cultures

Course Title
Beginning Navajo for Native Speakers

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course is designed to introduce the native Navajo speaker to the written orthography of the Navajo language. Emphasis is placed on developing reading and writing skills.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Other Enrollment Recommendations
Recommended for native speakers of the language

No Requirements

NAV1030 - Beginning Navajo for Non-Native Speakers - 3 - Credits

Course Overview

Course Prefix
NAV

Course Number
1030

Department
World Languages and Cultures

Course Title
Beginning Navajo for Non-Native Speakers

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Designed to help students achieve basic functional communication skills in the Navajo language. These skills include vocabulary, listening comprehension, pronunciation, reading, writing, and cultural awareness.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

NAV2010 - Intermediate Navajo for Native Speakers - 3 - Credits

Course Overview

Course Prefix
NAV

Course Number
2010

Department
World Languages and Cultures

Course Title
Intermediate Navajo for Native Speakers

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Continuation of NAV 1010. Students will continue developing their reading and writing skills. Students are expected to have a fundamental knowledge of vocabulary and Navajo orthography.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- NAV1010 - Beginning Navajo for Native Speakers

NAV2030 - Intermediate Navajo for Non-Native Speakers - 3 - Credits

Course Overview

Course Prefix
NAV

Course Number
2030

Department
World Languages and Cultures

Course Title
Intermediate Navajo for Non-Native Speakers

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Continuation of NAV 1030. Students will continue to develop speaking fluency, listening comprehension, reading, and writing skills, comprehension, pronunciation, reading, writing, and cultural awareness.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- NAV1030 - Beginning Navajo for Non-Native Speakers

NAV2070 - Navajo Literacy for Native Speakers - 3 - Credits

Course Overview

Course Prefix
NAV

Course Number
2070

Department
World Languages and Cultures

Course Title
Navajo Literacy for Native Speakers

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course assists the Native Navajo speaker in building communication skills of reading, writing, and speaking the Navajo language. Emphasis on using technology and on personal, historical, cultural, and educational materials.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Other Enrollment Recommendations

Recommended for native speakers of the language

No Requirements

NAV2080 - Advanced Navajo for Native Speakers - 3 - Credits

Course Overview

Course Prefix
NAV

Course Number
2080

Department
World Languages and Cultures

Course Title
Advanced Navajo for Native Speakers

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Assists the Native speaker of Navajo in building advanced writing skills. Emphasis will be given to developing curriculum materials to be used in the public school classroom setting. Curriculum and writing assignments will be done on the computer.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Other Enrollment Recommendations
Recommended for native speakers of the language

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- NAV2070 - Navajo Literacy for Native Speakers

NAV3040 - Navajo Literacy and Grammar for Native Speakers - 3 - Credits

Course Overview

Course Prefix
NAV

Course Number
3040

Department
World Languages and Cultures

Course Title
Navajo Literacy and Grammar for Native Speakers

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Designed to develop advanced skills in the grammar, comprehension, reading, and writing of Navajo. Integrates Dine holistic teaching concepts in accordance with the "Hozhoogo lina" four-direction Dine philosophy of learning paradigm.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Special Approval
Instructor permission

No Requirements

NAV3050 - Navajo Descriptive and Narrative Writing - 3 - Credits

Course Overview

Course Prefix
NAV

Course Number
3050

Department
World Languages and Cultures

Course Title
Navajo Descriptive and Narrative Writing

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Presents reading and writing in the genres of Navajo narration and description. Prepares students to take the Navajo Language Proficiency Exam, and integrates holistic teachings in accordance with the "Hozhoogo lina" four-direction Dine philosophy of learning paradigm.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Special Approval

Instructor permission

No Requirements

NAV3100 - Navajo Healthcare Terminology - 3 - Credits

Course Overview

Course Prefix
NAV

Course Number
3100

Department
World Languages and Cultures

Course Title
Navajo Healthcare Terminology

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course is a comprehensive and foundational exploration of the specialized language used in healthcare and medical fields. Designed for students, healthcare professionals, and anyone interested in gaining proficiency in medical terminology to communicate in healthcare settings.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Other Enrollment Recommendations

Recommended for native speakers or advanced speakers of Navajo

Course Learning Objectives

Course Learning Outcomes

1. Develop vocabulary and understanding of basic medical terminology and concepts in Navajo and English
2. Build professional communication skills and language proficiency for the healthcare context

NAV4400 - Teaching Navajo as a Second Language - 3 - Credits

Course Overview

Course Prefix
NAV

Course Number
4400

Department
World Languages and Cultures

Course Title
Teaching Navajo as a Second Language

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Addresses major issues in the teaching/learning of second languages, with emphasis on Navajo as taught in the public schools. Integrates Dine holistic teaching concepts in accordance with the "Hozhoogo lina" four-direction Dine philosophy of learning paradigm.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Special Approval

Instructor permission

No Requirements

NAV4410 - Teaching Navajo to Native Speakers - 3 - Credits

Course Overview

Course Prefix
NAV

Course Number
4410

Department
World Languages and Cultures

Course Title
Teaching Navajo to Native Speakers

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Addresses major issues and methods in teaching Navajo literacy and Navajo language arts to native speakers of Navajo. Integrates Dine holistic teaching concepts in accordance with the "Hozhoogo lina" four-direction Dine philosophy of learning paradigm.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Special Approval

Instructor permission

No Requirements

NDFS1000 - Introduction to Food Science and Technology - 3 - Credits

Course Overview

Course Prefix
NDFS

Course Number
1000

Department
Nutrition, Dietetics & Food Sciences

Course Title
Introduction to Food Science and Technology

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course explores the science and technology of food, including careers, disciplines, food commodities, food product development, and the future of food science.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Understand the basic principles of food science and technology.
2. Analyze the impact of food processing and preservation on food quality and safety.
3. Apply food science concepts to personal and industrial settings
4. Communicate scientific findings effectively through writing and discussion.

NDFS1010 - Chocolate: Science, History, and Society (BPS) - 3 - Credits

Course Overview

Course Prefix
NDFS

Course Number
1010

Department
Nutrition, Dietetics & Food Sciences

Course Title
Chocolate: Science, History, and Society (BPS)

General Education Attribute
BPS

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course will introduce students to the science behind chocolate manufacturing. The course will focus on physical and scientific concepts behind chocolate making and will tie these concepts to the history and social impacts associated with this high-value product.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Gaining a basic understanding of the subject (e.g., factual knowledge
2. Developing knowledge and understanding of diverse perspectives, global awareness, or other cultures methods, principles, generalizations, theories)
3. Learning to apply course material (to improve thinking, problem solving, and decisions)

NDFS1020 - Science and Application of Human Nutrition (BLS) - 3 - Credits

Course Overview

Course Prefix
NDFS

Course Number
1020

Department
Nutrition, Dietetics & Food Sciences

Course Title
Science and Application of Human Nutrition (BLS)

General Education Attribute
BLS

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Role of dietary choices in providing nutrients and their relationship to the social, mental, and physical well-being of people. How to evaluate nutritional status with personal data using computer diet analysis program.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Differentiate between credible science-based sources of nutrition information and unreliable sources.
2. Describe the digestion and metabolism of the macronutrients (carbohydrates, lipids, protein).
3. Identify essential nutrients needed to maintain health & body function. Be familiar with symptoms of nutrient deficiencies and toxicities. Recognize food sources for each nutrient.
4. Discuss the role of nutrition in relation to health and the prevention of chronic disease.
5. Discuss the factors that contribute to energy balance and proper weight management.
6. Describe and discuss the concept of Intuitive Eating and its impact on physical health.
7. Evaluate the adequacy of a diet to maintain health utilizing nutrient density, MyPlate, the Dietary Guidelines, and Dietary Reference Intakes (DRIs).
8. Evaluate food quality based on food labeling, nutrition labeling, and food safety practices.
9. Apply course material to improve thinking & decisions regarding food choices and health.
10. Analyze a dietary food record (using sample NutritionCalc reports).

NDFS1030 - Introduction to Dietetics and Nutrition Science - 1 - Credits

Course Overview

Course Prefix
NDFS

Course Number
1030

Department
Nutrition, Dietetics & Food Sciences

Course Title
Introduction to Dietetics and Nutrition Science

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides an introduction to the Dietetics and Nutrition Science majors, including emphasis areas and education pathways. Students learn about careers in each area as well as about the process of becoming a registered dietitian.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Communicate scientific findings effectively through writing and discussion.

NDFS1240 - Food Literacy - 3 - Credits

Course Overview

Course Prefix
NDFS

Course Number
1240

Department
Nutrition, Dietetics & Food Sciences

Course Title
Food Literacy

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Food literacy is an essential skill in today's complex and ever-changing food landscape. This course is designed to empower individuals with the knowledge and skills needed to make informed, healthy, and sustainable choices when preparing and selecting food.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Admission to a major in one of the following areas: Nutrition, Dietetics, and Food Sciences; Family and Consumer Sciences; Family and Consumer Sciences Education

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Students will be able to: Identify kitchen hazards; explain how to prevent injury; define general culinary terms; identify appropriate cooking methods and applications for various types of meats, vegetables, sauces, starches, and baked goods; and discuss food systems and sustainability.

2. Students will: Apply the idea of mise-en-place by effectively and efficiently completing assigned lab work; prepare and cook food in lab using basic cooking methods learned in course material; apply basic math skills in unit and recipe conversions, food costing, and figuring baker's percentages.
3. Students will demonstrate: Proper weighing and measuring techniques; appropriate sanitation and safety procedures; basic knife skills by safely and correctly reproducing basic culinary cuts; and responsible use of resources to achieve a more sustainable food system.
4. Students will design a food blog post using their culinary knowledge and skills

NDFS1250 - Sanitation and Safety - 3 - Credits

Course Overview

Course Prefix
NDFS

Course Number
1250

Department
Nutrition, Dietetics & Food Sciences

Course Title
Sanitation and Safety

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Principles of sanitation and safety applied to food operations. Emphasizes personal hygiene habits and food handling practices that protect the health and safety of employees and consumers.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Describe the role of pathogenic microorganisms in food borne illness. 2. Apply process control techniques to food preparation and personal hygiene. 3. Implement HACCP principles in food handling from farm to table. 4. Discuss food safety in food preparation and manufacturing operations from the perspective of research and education.

NDFS1600 - Medical Terminology for Health Care Professionals - 2 - Credits

Course Overview

Course Prefix
NDFS

Course Number
1600

Department
Nutrition, Dietetics & Food Sciences

Course Title
Medical Terminology for Health Care Professionals

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This internet-based course teaches medical terminology by focusing on medical word-building rules, prefixes, suffixes, and whole-body terminology related to human body systems. It also includes coverage of anatomy, pathological conditions, and diagnostic treatments and procedures.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

No Requirements

NDFS2020 - Nutrition Throughout the Life Cycle - 3 - Credits

Course Overview

Course Prefix
NDFS

Course Number
2020

Department
Nutrition, Dietetics & Food Sciences

Course Title
Nutrition Throughout the Life Cycle

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Application of nutrition principles to the human life cycle: nutrient functions, needs, sources, and alterations during pregnancy, lactation, growth, development, maturation, and aging.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- NDFS1020 - Science and Application of Human Nutrition (BLS)

Course Learning Objectives

Course Learning Outcomes

1. Determine nutrient recommendations & needs associated with different life stages.
2. Discuss the impact of biological, socioeconomic, cultural, and psychological factors on eating behavior.

3. Explain the role of nutrition relative to the promotion of health & prevention of chronic disease for each stage of the life cycle.
4. Become acquainted with nutrition-specific community programs and resources in the United States.
5. Describe common nutrition-related medical conditions and concerns of each stage of the life cycle and appropriate interventions and assessment methods.
6. Develop specific knowledge and skills needed by professionals in the field of nutrition and dietetics.
7. Learn to appropriately evaluate dietary intakes for individuals at different life cycle stages.
8. Evaluate and correctly interpret peer-reviewed literature related to nutrition.
9. Improve ability to organize information and express ideas in writing.
10. Acquire skills in working with others as a member of a group.

NDFS2030 - Nutrition and Physical Performance - 2 - Credits

Course Overview

Course Prefix
NDFS

Course Number
2030

Department
Nutrition, Dietetics & Food Sciences

Course Title
Nutrition and Physical Performance

Grade Mode
Standard Letter

Repeat Status
NR

Course Description

This course covers current interests regarding macro/micronutrient metabolism, energy systems used during exercise, and specific problems experienced by active individuals. Myths regarding diet and dietary supplements as they relate to physical performance are also discussed.

Credit Hours

Credit Hours Min:
2

Contact Hours

Contact Hours Min:
2

Billing Hours

Billing Hours Min:
2

Lecture Hours

Lecture Hours Min:
2

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- NDFS1020 - Science and Application of Human Nutrition (BLS)

Course Learning Objectives

Course Learning Outcomes

1. Discuss the principles of exercise physiology to energy requirements and nutrient requirements during exercise/competition.

2. Discuss appropriate fluid intake programs for specific active individuals prior to, during and after exercise/competition.
3. Describe the effects of ergogenic aids/dietary supplements on athletic performance.
4. Discuss health screening tools and dietary assessment tools.
5. Discuss appropriate methods used to assess body size and composition.
6. Describe appropriate techniques used to manage body weight.
7. Develop skills to assist active individuals with sport nutrition recommendations.
8. Identify characteristics, consequences and contributing causes of eating disorders in active individuals.
9. Compare and evaluate the sources of nutritional information related to fitness and sports performance.
10. Discuss sport specific nutrition guidelines for a variety of sports and athletes.

NDFS2040 - Fundamentals of Food Processing - 3 - Credits

Course Overview

Course Prefix
NDFS

Course Number
2040

Department
Nutrition, Dietetics & Food Sciences

Course Title
Fundamentals of Food Processing

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students learn principles of major food components, principles of food properties relevant to processing operations, and principles of the most relevant types of food processing operations, such as thermal processing, low temperature preservation, food dehydration, and separation and concentration.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

NDFS2500 - Dietetics-Related Experiences I - 1 - 6 Credits

Course Overview

Course Prefix
NDFS

Course Number
2500

Department
Nutrition, Dietetics & Food Sciences

Course Title
Dietetics-Related Experiences I

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course provides opportunities for students to gain and document dietetics related experience hours.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
6

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
6

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
6

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
6

Lecture Hours Operator:
TO

Registration Restrictions
Admission to the Dietetics: Didactic Program in Dietetics - BS or General Dietetics major

Course Learning Objectives

Course Learning Outcomes

1. Become familiar with one or more dietetics-related settings.
2. Identify skills gained and lessons learned from participating in dietetics-related experiences.
3. Identify personal strengths that are beneficial when contributing to dietetics-related experiences.
4. Prepare a cover letter to communicate personal strengths and experiences that can be used when applying for a dietetics program.

NDFS3010 - Didactic Program in Dietetics Orientation - 1 - Credits

Course Overview

Course Prefix
NDFS

Course Number
3010

Department
Nutrition, Dietetics & Food Sciences

Course Title
Didactic Program in Dietetics Orientation

Grade Mode
Pass/Fail

Repeat Status
NR

Course Description
This course provides an orientation to the Didactic Program in Dietetics (DPD). DPD information and expectations are covered. Additional topics such as time and stress management, study skills and more are discussed to help students succeed.

Credit Hours

Credit Hours Min:
1

Contact Hours

Contact Hours Min:
1

Billing Hours

Billing Hours Min:
1

Lecture Hours

Lecture Hours Min:
1

Registration Restrictions

Admission to the Dietetics: Didactic Emphasis - BS program

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Students will understand the DPD policies and expectations.
2. Students will gain time management skills, practice test taking strategies, and employ professional behavior in their interactions with professors and peers.
3. Students will develop learning communities to enhance their understanding of traditionally difficult topics in the dietetics curriculum.

NDFS3040 - Nutrition Assessment - 3 - Credits

Course Overview

Course Prefix
NDFS

Course Number
3040

Department
Nutrition, Dietetics & Food Sciences

Course Title
Nutrition Assessment

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides an introduction to the methods used in individual and group nutrition assessment and the application of evidence-based interventions to improve general nutrition status in normal and chronic disease states.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Registration Restrictions

Admission to one of the following programs: Dietetics: Didactic Emphasis in Dietetics - BS; Nutrition Science - BS; Gerontology - Certificate; Health Education and Promotion: Health Science Emphasis - BS

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- NDFS1020 - Science and Application of Human Nutrition (BLS)

Course Learning Objectives

Course Learning Outcomes

1. Perform accurate anthropometrics, Nutrition Focus Physical Examination (NFPE), and dietary assessment on test subjects.
2. Accurately interpret medical, biochemical, NFPE, dietary, and anthropometric data to identify nutrition problems & suggest solutions.
3. Collaborating with the team to assess the nutrition case study, identify problems, and develop potential solutions.

NDFS3045 - Nutrition Assessment Lab - 1 - Credits

Course Overview

Course Prefix
NDFS

Course Number
3045

Department
Nutrition, Dietetics & Food Sciences

Course Title
Nutrition Assessment Lab

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course is designed to provide practice in assessment skills specific to dietitians and hospital-based assessment environments. The course utilizes the assessment recommendations given by the Academy of Nutrition and Dietetics.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Registration Restrictions
Admission to the Dietetics: Didactic Program in Dietetics - BS program

Simple Requisites

Corequisite

Type
Corequisite

Required

Enroll in the following Courses:

- NDFS3040 - Nutrition Assessment

Course Learning Objectives

Course Learning Outcomes

1. Utilize the nutrition care process to apply the principles of nutrition assessment to identify problems
2. Understand the standardized language utilized by the nutrition care process
3. Collaborating with the team to assess the nutrition case study, identify problems, and develop potential solutions

NDFS3050 - Education and Counseling Methods in Dietetics I (CI) - 3 - Credits

Course Overview

Course Prefix
NDFS

Course Number
3050

Department
Nutrition, Dietetics & Food Sciences

Course Title
Education and Counseling Methods in Dietetics I (CI)

General Education Attribute
CI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students learn principles of education, counseling, and communication as applied to the field of nutrition education and clinical dietetics practice.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Admission to the Dietetics: Didactic Program in Dietetics - BS program

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Discuss the need for nutrition education and identify factors affecting the provision of effective nutrition education and counseling.
2. Plan, implement, and deliver oral and PowerPoint presentations using appropriate educational principles and strategies, behavioral theories/objectives, teaching methods/technology, and evaluation techniques.
3. Describe effective communications with individuals and groups while considering physiological, psychological, social, cultural and economic factors.

4. Determine how and when to implement and utilize different teaching and delivery methods, communication skills, and visual aids.
5. Explain the benefits, considerations, and science behind Intuitive Eating and the Health-at-Every-Size® approach.
6. KRDN 2.1 Demonstrate effective and professional oral and written communication and documentation.
7. KRDN 3.2 Develop an educational session or program/educational strategy for a target population.

NDFS3060 - Education and Counseling Methods in Dietetics II (CI) - 3 - Credits

Course Overview

Course Prefix
NDFS

Course Number
3060

Department
Nutrition, Dietetics & Food Sciences

Course Title
Education and Counseling Methods in Dietetics II (CI)

General Education Attribute
CI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course builds on the content and principles covered in NDFS 3050.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- NDFS3050 - Education and Counseling Methods in Dietetics I (CI)

NDFS3065 - Education and Counseling Lab - 1 - Credits

Course Overview

Course Prefix
NDFS

Course Number
3065

Department
Nutrition, Dietetics & Food Sciences

Course Title
Education and Counseling Lab

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students gain practical experience through completing at least 45 hours of approved activities applying NDFS 3060 content. Students serve the campus and community, delivering nutrition education and counseling under instructor (or qualified preceptor) supervision to enhance skills in real-world settings.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Registration Restrictions

Admission to the Dietetics: Didactic Emphasis in Dietetics - BS program

Simple Requisites

Corequisite

Type
Corequisite

Required

Enroll in the following Courses:

- NDFS3060 - Education and Counseling Methods in Dietetics II (CI)

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- NDFS3050 - Education and Counseling Methods in Dietetics I (CI)

Course Learning Objectives

Course Learning Outcomes

1. Students will utilize motivational interviewing skills in conducting one on one nutrition consultations.
2. Students will complete at least 45 hours of approved experiences that apply the content discussed in NDFS 3060: Education and Counseling II.
3. Students will provide service at various locations on campus and in the community by providing education and counseling while being overseen by the course instructor or qualified preceptor.

NDFS3070 - Science of Food Preparation - 4 - Credits

Course Overview

Course Prefix
NDFS

Course Number
3070

Department
Nutrition, Dietetics & Food Sciences

Course Title
Science of Food Preparation

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers science principles underlying modern food theory and practice. It also covers the relation of physical and chemical properties of food components and their systems to food preparation.

Credit Hours

Credit Hours
Min:
4

Contact Hours

Contact Hours
Min:
4

Billing Hours

Billing Hours
Min:
4

Lecture Hours

Lecture Hours
Min:
4

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- CHEM1120 - General Chemistry II (BPS)
  OR CHEM2300 - Principles of Organic Chemistry
  OR CHEM2310 - Organic Chemistry I

CHEM1120 GENERAL CHEMISTRY II (BPS) may be taken concurrently

Course Learning Objectives

Course Learning Outcomes

1. Identify important biomolecules (e.g. sugars, carbohydrates, lipids, and proteins) based on structural characteristics, and explain their function(s) in foods.
2. Describe conditions that affect different biomolecules in the storage and preparation of foods.
3. Predict the effect of altering an ingredient and/or preparation method on the quality of the final project.
4. Formulate a hypothesis relating to a specific food ingredient and/or preparation method, design and conduct appropriate experiments, and interpret results in relation to the original hypothesis.

NDFS3080 - Community Nutrition - 3 - Credits

Course Overview

Course Prefix
NDFS

Course Number
3080

Department
Nutrition, Dietetics & Food Sciences

Course Title
Community Nutrition

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides an introduction to public health nutrition, food programs, and national nutrition monitoring.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- NDFS1020 - Science and Application of Human Nutrition (BLS)

Course Learning Objectives

Course Learning Outcomes

1. Demonstrate foundational knowledge of public health nutrition, including key food programs and national nutrition monitoring systems.
2. Effectively communicate public health nutrition concepts through oral presentations and written assignments.
3. Critically evaluate public health nutrition policies and programs, considering diverse perspectives and evidence-based arguments.

NDFS3110 - Food, Technology, Sustainability and Health (DSC) - 3 - Credits

Course Overview

Course Prefix
NDFS

Course Number
3110

Department
Nutrition, Dietetics & Food Sciences

Course Title
Food, Technology, Sustainability and Health (DSC)

General Education Attribute
DSC

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
In this class, students learn about food technology, production, distribution, and consumption, with a focus on sustainability, safety and human health outcomes. The course connects scientific principles with real-world applications through hands-on activities and discussion.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete at least 1 course in the following course sets:

- Breadth Life Sciences (BLS) Course

Course Learning Objectives

Course Learning Outcomes

1. List the basic composition of foods
2. Understand the relationship between microbes and humans and how the impact human health and illness
3. Understand how technology influences the food we eat
4. Be able to better evaluate information (specifically concerning food and health) obtained through the media or the internet for scientific merit

NDFS4010 - Preparation for Supervised Practice - 1 - Credits

Course Overview

Course Prefix
NDFS

Course Number
4010

Department
Nutrition, Dietetics & Food Sciences

Course Title
Preparation for Supervised Practice

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course aims to assist students in navigating the various choices within dietetics supervised practice programs, supporting them through the application process, and ensuring their success in their upcoming careers.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Registration Restrictions

Admission to the Dietetics: Didactic Program in Dietetics - BS program

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Identify at least 3 Supervised Practice programs that they are interested in.
2. Compose a professional resume and personal statement.
3. Participate in a mock interview.
4. Apply to a Supervised Practice program.

NDFS4020 - Advanced Nutrition - 3 - Credits

Course Overview

Course Prefix
NDFS

Course Number
4020

Department
Nutrition, Dietetics & Food Sciences

Course Title
Advanced Nutrition

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Structures, properties, and metabolism of protein, lipids, carbohydrates, vitamins, and minerals. Includes digestion, absorption, hormonal control, cellular biochemistry, metabolic interrelationships, excretion, etc.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- NDFS1020 - Science and Application of Human Nutrition (BLS)
- CHEM3700 - Introductory Biochemistry
- BIOL2420 - Human Physiology
  OR BIOL2320 - Human Anatomy

Course Learning Objectives

Course Learning Outcomes

1. At the end of the course students will be able to recognize how major organs and tissues of an organism interact through the integration of key metabolic pathways.

2. At the end of the course students will be able to describe the role of integrated metabolism in the development or exacerbation of metabolic disease.
3. At the end of the course students will be able to evaluate the scholarly merits of information sources against a set of criteria.

NDFS4440 - Fundamentals of Food Engineering (QI) - 4 - Credits

Course Overview

Course Prefix
NDFS

Course Number
4440

Department
Nutrition, Dietetics & Food Sciences

Course Title
Fundamentals of Food Engineering (QI)

General Education Attribute
QI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers engineering concepts taught in a fundamental sense and applied to food processing. Concepts include: general problem-solving techniques, material and energy balances, fluid dynamics, heat transfer, refrigeration, and kinetics of common biological processes used in food preparation.

Credit Hours

Credit Hours Min:
4

Contact Hours

Contact Hours Min:
4

Billing Hours

Billing Hours Min:
4

Lecture Hours

Lecture Hours Min:
4

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- NDFS2040 - Fundamentals of Food Processing
- PHYS2110 - General Physics—Life Sciences I

Course Learning Objectives

Course Learning Outcomes

1. Gain basic understanding in the principles of Food Engineering topics
2. Apply such principles to solve related quantitative problems

3. Analyze numerical information relevant to them.

NDFS4560 - Medical Nutrition Therapy (CI) - 4 - Credits

Course Overview

Course Prefix
NDFS

Course Number
4560

Department
Nutrition, Dietetics & Food Sciences

Course Title
Medical Nutrition Therapy (CI)

General Education Attribute
CI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students explore the connections between nutrition, pathophysiology, and methods of disease treatment. Students complete case studies using the Nutrition Care Process per the Academy of Nutrition and Dietetics.

Credit Hours

Credit Hours
Min:
4

Contact Hours

Contact Hours
Min:
4

Billing Hours

Billing Hours
Min:
4

Lecture Hours

Lecture Hours
Min:
4

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- NDFS3045 - Nutrition Assessment Lab

Course Learning Objectives

Course Learning Outcomes

1. Demonstrate how to locate, interpret, evaluate and use professional literature to complete a case study

2. Identify and describe the work of interprofessional teams (3)assess nutritional parameters, diagnose nutrition related problems and determine appropriate nutrition interventions
3. Practice routine health screening assessments

NDFS4710 - Food Service Systems - 3 - Credits

Course Overview

Course Prefix
NDFS

Course Number
4710

Department
Nutrition, Dietetics & Food Sciences

Course Title
Food Service Systems

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers principles of food preparation applied to large quantity production, menu planning, food selection, storage, and equipment.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Registration Restrictions

Admission to the Dietetics: Didactic Program in Dietetics - BS program

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- NDFS1250 - Sanitation and Safety
- NDFS3070 - Science of Food Preparation

Course Learning Objectives

Course Learning Outcomes

1. Explain the principles of foodservice systems and their application in various operational settings.

2. Demonstrate competency in procurement, food production, inventory management, distribution and service of food.
3. Effectively plan standardized recipes, cycle menus, and meals.
4. Apply principles of federal school nutrition program requirements, including incorporating the proper meal components.

NDFS4720 - Management in Dietetics (QI) - 3 - Credits

Course Overview

Course Prefix
NDFS

Course Number
4720

Department
Nutrition, Dietetics & Food Sciences

Course Title
Management in Dietetics (QI)

General Education Attribute
QI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Principles of organization, management theory, financial controls, human and labor relations, employee training, layout, and sanitation.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- NDFS4710 - Food Service Systems

Course Learning Objectives

Course Learning Outcomes

1. Demonstrate effective management and leadership skills in foodservice operations, including planning, organizing, decision-making, and time management.
2. Apply principles of quality and financial management to ensure efficient and sustainable foodservice systems.

3. Understand and implement human resource management practices, including employment laws, recruitment, workforce development, and labor relations.
4. Demonstrate effective communication by applying models and strategies to support organizational goal.
5. Design and develop a comprehensive foodservice operation, including menu planning, staffing, budgeting, equipment needs, and organizational structure.

NDFS4780 - Maternal and Child Nutrition (CI) - 3 - Credits

Course Overview

Course Prefix
NDFS

Course Number
4780

Department
Nutrition, Dietetics & Food Sciences

Course Title
Maternal and Child Nutrition (CI)

General Education Attribute
CI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students learn about clinical nutrition requirements in pregnancy, lactation, and pediatrics. Topics include interventions for high-risk populations.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Admission to the Dietetics: Didactic Program in Dietetics - BS program

Course Learning Objectives

Course Learning Outcomes

1. Students will be able to:

   Describe physiological changes in pregnancy

   Explain the changing nutrition needs during pregnancy and lactation

   Identify special cases in pregnancy and lactation and discuss management

   Explain nutritional needs and feeding approaches during different stages of growth and development

   Describe nutritional interventions for certain medical complications during growth and development.

2. Students will be able to:

   Critically analyze and apply course lectures and assigned readings.

KRDN 2.9: Defend a position on issues impacting the nutrition and dietetics profession

NDFS4900 - Special Problems - 1 - 4 Credits

Course Overview

Course Prefix
NDFS

Course Number
4900

Department
Nutrition, Dietetics & Food Sciences

Course Title
Special Problems

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Individual problems and research problems in Nutrition and Food Sciences.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
4

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
4

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
4

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
4

Lecture Hours Operator:
TO

Special Approval
Instructor Permission required

No Requirements

NDFS5010 - Hunger Issues and Solutions - 3 - Credits

Course Overview

Course Prefix
NDFS

Course Number
5010

Department
Nutrition, Dietetics & Food Sciences

Dual-Listed Courses
NDFS6010 - Hunger Issues and Solutions

Course Title
Hunger Issues and Solutions

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course examines domestic and global hunger issues and solutions. The course focuses on advancing knowledge and skills in advocacy, leadership, and critical thinking, all of which are essential for professionals working towards eradicating hunger.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Registration Restrictions
Admission to the Hunger and Food Security Studies - Minor

Course Learning Objectives

Course Learning Outcomes

1. Assess global and domestic issues that contribute to hunger and solutions to reduce worldwide hunger.
2. Evaluate the effectiveness of a variety of domestic and global hunger solutions.
3. Develop a solution for a specific hunger related issue in a specific country or region.

NDFS5020 - Meat Science and Technology - 4 - Credits

Course Overview

Course Prefix
NDFS

Course Number
5020

Department
Nutrition, Dietetics & Food Sciences

Dual-Listed Courses
NDFS6020 - Meat Science and Technology

Course Title
Meat Science and Technology

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
The science of topics related to the production of fresh and processed meats. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours Min:
4

Contact Hours

Contact Hours Min:
4

Billing Hours

Billing Hours Min:
4

Lecture Hours

Lecture Hours Min:
4

Course Learning Objectives

Course Learning Outcomes

1. Students will gain knowledge of the terminology used in meat animal production and processing.
2. Students will understand the complexities involved in the conversion of live tissue into consumable meat.
3. Students will learn the classifications of animals, muscles, muscle microstructure, and meat types.
4. Students will understand the key factors affecting meat quality development, allowing them to judge its quality.
5. Students will identify common challenges in meat production and apply scientific methods to improve efficiency and product quality.
6. Students will gain knowledge regarding various meat defects and the strategies to avert their occurrence.
7. Students will understand how meat science fits into the animal and food industries.
8. Students will become aware of how the conversion of muscle to meat affects quality.
9. Students will learn how to better select and utilize meat products.

NDFS5030 - Dairy Technology and Processing - 3 - Credits

Course Overview

Course Prefix
NDFS

Course Number
5030

Department
Nutrition, Dietetics & Food Sciences

Course Title
Dairy Technology and Processing

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers biochemistry, microbiology, and technology of milk processing. It includes heat processing, fat separation, homogenization, concentration, drying, fermentation, freezing, and manufacture of dairy foods, such as pasteurized milk, UHT milks, ice cream, cheeses, and yogurt.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- NDFS5110 - Food Microbiology (CI)
  OR NDFS6110 - Food Microbiology
- NDFS5560 - Food Chemistry
  OR NDFS6560 - Food Chemistry

Course Learning Objectives

Course Learning Outcomes

1. Describe and understand the chemical and microbiological aspects of milk.
2. Understand the various processes involved in converting milk into a variety of high quality dairy foods and the technology that allows control of those processes.

NDFS5040 - Dairy Foods Processing Laboratory - 1 - Credits

Course Overview

Course Prefix
NDFS

Course Number
5040

Department
Nutrition, Dietetics & Food Sciences

Dual-Listed Courses
NDFS6040 - Dairy Foods Processing Laboratory

Course Title
Dairy Foods Processing Laboratory

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students obtain hands-on experience in the manufacture of various dairy foods and learn about processes such as cream separation, homogenization, pasteurization, sterilization, ultrafiltration, and fermentation of milk. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours Min:
1

Contact Hours

Contact Hours Min:
1

Billing Hours

Billing Hours Min:
1

Lecture Hours

Lecture Hours Min:
1

Simple Requisites

Corequisite

Type
Corequisite

Required

Enroll in the following Courses:
- NDFS5030 - Dairy Technology and Processing

Course Learning Objectives

Course Learning Outcomes
Cleaning

1. Learn the methods for cleaning dairy processing equipment.
2. Understand the components of a CIP cleaning system
3. Understand how a HTST pasteurizer is cleaned using CIP.

Cottage Cheeses

4. Learn how to make cottage cheese using direct acidification.
5. Learn about acid coagulation of milk
6. Learn the ingredients used to make cheddar cheese.
7. Learn about rennet coagulation of milk
8. Know how to make Cheddar and Mozzarella cheese.

Milk Pasteurization

9. Learn the components of a cream separator
10. Learn the components of an HTST pasteurizer
11. Understand how to measure the holding time of an HTST pasteurizer
12. Understand the influence of heat treatment on milk flavor.
13. Ultra-High Temperature Milk
14. Know the difference between UHT and ultra-pasteurization of milk.
15. Learn how to UHT process milk
16. Know the difference between direct and indirect heating.
17. Learn how storage time and temperature influences UHT milk quality

Fluid Milk

18. Know the components and requirements for batch pasteurizing milk.
19. Know the common time and temperature treatments for fluid milk.
20. Learn how to manufacture chocolate milk
21. Understand the influence of ingredients on chocolate milk.
22. Learn how to operate a 2-stage homogenizer

Ice Cream

23. Learn how to manufacture an ice cream mix
24. Know the common ingredients used for manufacture of ice cream.
25. Know how to calculate a mix formulation
26. Learn the processing steps used when making ice cream.
27. Understand how ice cream can be made using batch and continuous freezing
28. Be able to calculate ice cream overrun.
29. Learn how a homogenizer works.

Yogurt

30. Understand the differences in manufacture of set and stirred yogurt.
31. Know how to make yogurt.
32. Understand the acidification of milk using fermentation.
33. Concentration and Fractionation of Milk
34. Understand how a spiral wound membrane is used
35. Understand the components of a membrane filtration system.

36. Learn how milk components are fractionated using ultrafiltration.
37. Understand how membrane systems are cleaned.

Process Cheese

38. Learn how to make pasteurized process cheese products.
39. Know the ingredients that are used to make process cheese products."

NDFS5050 - Clinical Skills I - 1 - Credits

Course Overview

Course Prefix
NDFS

Course Number
5050

Department
Nutrition, Dietetics & Food Sciences

Course Title
Clinical Skills I

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Clinical Skills I introduce the student to hospital dietetics. Through VR labs, simulations, and skills training, the student gains the necessary skills in preparation for hospital-based rotations.

Credit Hours

Credit Hours Min:
1

Contact Hours

Contact Hours Min:
1

Billing Hours

Billing Hours Min:
1

Lecture Hours

Lecture Hours Min:
1

Registration Restrictions

Admission to the Applied Practice in Dietetics - Post-Bachelor's Certificate

Course Learning Objectives

Course Learning Outcomes

1. Conduct nutrition focused physical exams.
2. Perform routine health screening assessments including measuring blood pressure, conducting waived point-of-care laboratory testing (such as blood glucose or cholesterol), recommending and/or initiating nutrition-related pharmacotherapy plans (such as modifications to bowel regimens, carbohydrate to insulin ratio, B12 or iron supplementation).
3. Provide instruction to clients/patients for self-monitoring blood glucose considering diabetes medication and medical nutrition therapy plan.
4. Explain the steps involved and observe the placement of nasogastric or nasoenteric feeding tubes, if available, assist in the process of placing nasogastric or nasoenteric feeding tubes.
5. Conduct a swallow screen and refer to the appropriate health care professional for full swallow evaluation when needed.
6. Demonstrate effective communication and documentation skills for clinical and client services in a variety of formats and settings, which include telehealth and

other information technologies and digital media.
7. Engage in the process for coding and billing for nutrition and dietetics services to obtain reimbursement from public or private payers, fee-for-service and value-based payment systems.

NDFS5060 - Clinical Skills II - 2 - Credits

Course Overview

Course Prefix
NDFS

Course Number
5060

Department
Nutrition, Dietetics & Food Sciences

Course Title
Clinical Skills II

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Clinical Skills II provides credit for dietetics training in hospital facilities in Logan and Ogden

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Registration Restrictions
Admission to the Applied Practice in Dietetics - Post Bachelor's Certificate

Course Learning Objectives

Course Learning Outcomes
1. Perform Medical Nutrition Therapy by utilizing the Nutrition Care Process including use of standardized nutrition terminology as a part of the clinical workflow elements for individuals, groups and populations of differing ages and health status, in a variety of settings.

NDFS5080 - Food Service Skills - 2 - Credits

Course Overview

Course Prefix
NDFS

Course Number
5080

Department
Nutrition, Dietetics & Food Sciences

Course Title
Food Service Skills

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course instructs students in the skills and competencies necessary for entry-level practice as a dietitian in food service management.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Registration Restrictions
Admission to the Practitioner of Food Safety - Post Bachelor's Certificate

Course Learning Objectives

Course Learning Outcomes
1. Demonstrate active participation, teamwork and contributions in group settings.
2. Demonstrate negotiation skills.
3. Develop and deliver products, programs or services that promote consumer health, wellness and lifestyle management.
4. Coordinate procurement, production, distribution and service of goods and services, demonstrating and promoting responsible use of resources.
5. Perform management functions related to safety, security and sanitation that affect employees, clients, patients, facilities and food.

NDFS5090 - Community Skills I - 1 - Credits

Course Overview

Course Prefix
NDFS

Course Number
5090

Department
Nutrition, Dietetics & Food Sciences

Course Title
Community Skills I

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Community Skills I introduces the student to practice in community dietetics. Through projects, simulations, and skills labs, the student gains the necessary skills to be utilized in community rotations.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Registration Restrictions
Admission to the Applied Practice in Dietetics - Post Bachelor's Certificate

Course Learning Objectives

Course Learning Outcomes
1. Select indicators of program quality and/or customer service and measure achievement of objectives.
2. Implement culturally sensitive strategies to address cultural biases and differences.
3. Advocate for local, state or national legislative and regulatory issues or policies impacting the nutrition and dietetics profession.
4. Mentor others.

NDFS5100 - Sensory Evaluation of Food (QI) - 3 - Credits

Course Overview

Course Prefix
NDFS

Course Number
5100

Department
Nutrition, Dietetics & Food Sciences

Dual-Listed Courses
NDFS6100 - Sensory Evaluation of Food

Course Title
Sensory Evaluation of Food (QI)

General Education Attribute
QI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers the design and implementation of sensory testing of foods. It emphasizes physiology of senses, testing methods, statistical analysis, and taste panel experience. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:
- STAT3000 - Statistics for Scientists (QI)
  OR STAT2000 - Statistical Methods (QI)

NDFS5110 - Food Microbiology (CI) - 3 - Credits

Course Overview

Course Prefix
NDFS

Course Number
5110

Department
Nutrition, Dietetics & Food Sciences

Course Title
Food Microbiology (CI)

General Education Attribute
CI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers microorganisms in food spoilage, poisoning, preservation, and sanitation.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- BIOL2060 - Elementary Microbiology
  OR BIOL3300 - General Microbiology

NDFS5111 - Food Microbiology Laboratory - 1 - Credits

Course Overview

Course Prefix
NDFS

Course Number
5111

Department
Nutrition, Dietetics & Food Sciences

Course Title
Food Microbiology Laboratory

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides students laboratory experience working with microorganisms in food spoilage, poisoning, preservation, and sanitation.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Simple Requisites

Corequisite

Type
Corequisite

Required

Enroll in the following Courses:

- NDFS5110 - Food Microbiology (CI)

NDFS5210 - Advanced Public Health Nutrition (CI) - 3 - Credits

Course Overview

Course Prefix
NDFS

Course Number
5210

Department
Nutrition, Dietetics & Food Sciences

Course Title
Advanced Public Health Nutrition (CI)

General Education Attribute
CI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Effects of diet on development and prevention of disease. Conditions of public health significance, including birth defects, coronary heart disease, hypertension, stroke, Alzheimer?s disease and other causes of dementia, cancer, osteoporosis, diabetes, and international health problems. Discussion of health concerns of minority populations, cross-cultural studies, government policy, and establishment of dietary recommendations.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- NDFS4020 - Advanced Nutrition
- STAT1040 - Introduction to Statistics (QL)
  OR STAT1045 - Introduction to Statistics with Elements with Algebra (QL)

or higher STAT course

Course Learning Objectives

Course Learning Outcomes

1. Describe the evidence supporting public health recommendations regarding diet and nutrition.
2. Describe the role of nutrition in wide range of chronic diseases among various demographic groups.
3. Discuss how evolution biology has shaped genetic adaptation among a wide range of dietary patterns.
4. Develop skills in reviewing, analyzing, critiquing, and peer reviewing public health nutrition research.
5. Develop skills in critical thinking and research writing.

NDFS5230 - Communication of Current Topics in Nutrition (CI) - 3 - Credits

Course Overview

Course Prefix
NDFS

Course Number
5230

Department
Nutrition, Dietetics & Food Sciences

Course Title
Communication of Current Topics in Nutrition (CI)

General Education Attribute
CI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students learn best practices for effective scientific communication using a variety of methods. Students demonstrate communication skills by completing several assignments based on a current nutrition topic of their choice. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- NDFS1020 - Science and Application of Human Nutrition (BLS)

Course Learning Objectives

Course Learning Outcomes

1. Locate relevant and timely scientific evidence on a given topic.
2. Develop a working knowledge of communication and behavior change theories.
3. Develop learning goals and objectives and evaluation strategies for a targeted communication event that is selected to meet the needs of the audience.
4. Demonstrate skills in the appropriate use of professional citations and referencing in a variety of communication methods and styles.
5. Review, critique, and synthesize scientific evidence on a given topic.
6. Demonstrate skills in effectively communicating information to a variety of audiences (professional peers, lay public, media) using a variety of communication channels (written reports, web-based tools, oral presentations, etc).
7. Review and critique communication programs and distinguish effective from ineffective communication techniques.
8. Demonstrates critical thinking and problem-solving skills when communicating with others.
9. Demonstrate a skillful ability to write, using visual communication as appropriate, by accomplishing an intentional purpose, engaging with texts or source material, and adapting the written work to different audiences the discipline may need to address.

NDFS5250 - Occupational Experiences in Nutrition and Food Sciences - 1 - 3 Credits

Course Overview

Course Prefix
NDFS

Course Number
5250

Department
Nutrition, Dietetics & Food Sciences

Course Title
Occupational Experiences in Nutrition and Food Sciences

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This cooperative education work experience course offers students an opportunity to work in related fieldwork of the major.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

Special Approval

Instructor permission

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- NDFS1020 - Science and Application of Human Nutrition (BLS)

NDFS5300 - Advanced Micronutrient Nutrition - 3 - Credits

Course Overview

Course Prefix
NDFS

Course Number
5300

Department
Nutrition, Dietetics & Food Sciences

Dual-Listed Courses
NDFS6300 - Advanced Micronutrient Nutrition

Course Title
Advanced Micronutrient Nutrition

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Explores the function, interaction, and practical significance of micronutrients in human metabolism and the ability of the diet to meet these needs. Relates nutrient biochemical functions to specific deficiency symptoms.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- NDFS4020 - Advanced Nutrition

Course Learning Objectives

Course Learning Outcomes

1. Understand how vitamins and minerals impact human health and metabolism

NDFS5310 - Fundamentals of Nutrition Research - 3 - Credits

Course Overview

Course Prefix
NDFS

Course Number
5310

Department
Nutrition, Dietetics & Food Sciences

Dual-Listed Courses
NDFS6310 - Fundamentals of Nutrition Research

Course Title
Fundamentals of Nutrition Research

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course will instruct students on the theoretical, practical and ethical aspects associated with the design, execution and dissemination of pre-clinical and clinical nutrition research studies.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- NDFS4020 - Advanced Nutrition

NDFS5320 - Advanced Sports Nutrition - 3 - Credits

Course Overview

Course Prefix
NDFS

Course Number
5320

Department
Nutrition, Dietetics & Food Sciences

Dual-Listed Courses
NDFS6320 - Advanced Sports Nutrition

Course Title
Advanced Sports Nutrition

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course explores the evidence-based theoretical and applied aspects of sports nutrition delivered in an interactive online format. Students read and discuss current peer-reviewed articles and apply information learned to nutrition prescriptions for athletes. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- NDFS2030 - Nutrition and Physical Performance
- NDFS4020 - Advanced Nutrition

***NDFS4020 ADV NUTRITION* may be taken concurrently**

NDFS5410 - Nutrient Gene Interactions (CI) - 3 - Credits

Course Overview

Course Prefix
NDFS

Course Number
5410

Department
Nutrition, Dietetics & Food Sciences

Dual-Listed Courses
NDFS6410 - Nutrient Gene Interactions

Course Title
Nutrient Gene Interactions (CI)

General Education Attribute
CI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Focuses on molecular interactions between nutrients and mechanisms of gene expression, including transcriptional regulation, post-transcriptional regulation, and epigenetics. Emphasizes nutrient/gene interactions involved in the etiology or prevention of chronic disease, such as cancer, cardiovascular disease, and metabolic syndrome.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- CHEM3700 - Introductory Biochemistry

Course Learning Objectives

Course Learning Outcomes

1. Describe the structure of genes and explain the key steps of gene transcription and post-transcriptional regulation, including chromatin dynamics and mRNA processing.
2. Explain how major nutrient classes (carbohydrates, proteins, lipids) influence gene expression through transcription factors, signaling pathways, and metabolic regulators.
3. Evaluate the molecular mechanisms by which vitamins and minerals (such as vitamin A, selenium, iron, zinc, biotin, vitamin B6, and vitamin C) modulate gene expression and contribute to the etiology or prevention of chronic disease.
4. Analyze how nutrient–gene interactions contribute to metabolic disorders, including obesity, metabolic syndrome, and appetite regulation.
5. Describe how nutrition influences epigenetic mechanisms such as DNA methylation and one-carbon metabolism, and explain their relevance to disease risk and development.
6. Explain how dietary compounds such as polyphenols and phytochemicals regulate gene expression and modulate inflammation, cancer risk, and cellular signaling pathways.
7. Interpret the role of the gut microbiome in nutrient–gene interactions, including effects of diet on microbial metabolism and host gene regulation.
8. Critically evaluate primary research on nutrient–gene interactions and synthesize information from peer-reviewed sources to write a scientific research paper.
9. Communicate scientific findings effectively through oral presentations that summarize complex molecular interactions clearly and accurately.
10. Apply molecular nutrition concepts to chronic disease etiology, including cancer, cardiovascular disease, and metabolic disorders, integrating mechanistic knowledge with current research literature.

NDFS5430 - Nutrition Assessment - 3 - Credits

Course Overview

Course Prefix
NDFS

Course Number
5430

Department
Nutrition, Dietetics & Food Sciences

Course Title
Nutrition Assessment

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides an introduction to the methods used in individual and group nutrition assessment and the application of evidence-based interventions to improve general nutrition status in normal and chronic disease states.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Admission to the Didactic Program in Dietetics - Post-Bachelor's Certificate program

Course Learning Objectives

Course Learning Outcomes

1) Perform accurate anthropometrics, Nutrition Focus Physical Examination (nfpe), and dietary assessment on test subjects,

2) Accurately interpret medical information, including biochemical, NFPE, dietary, and written medical notes,

3) Collaborating with the team to assess the nutrition case study, identify problems, and develop potential solutions,

4) Utilize evidence-based practices to recommend an appropriate nutrition regimen.

NDFS5431 - Education and Counseling Methods in Dietetics I - 3 - Credits

Course Overview

Course Prefix
NDFS

Course Number
5431

Department
Nutrition, Dietetics & Food Sciences

Course Title
Education and Counseling Methods in Dietetics I

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students learn principles of education, counseling, and communication as applied to the field of nutrition education and clinical dietetics practice.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Admission to the Didactic Program in Dietetics - Post-Bachelor's Certificate program

Course Learning Objectives

Course Learning Outcomes

1. Discuss the need for nutrition education and identify factors affecting the provision of effective nutrition education and counseling.
2. Plan, implement, and deliver oral and PowerPoint presentations using appropriate educational principles and strategies, behavioral theories/objectives, teaching methods/technology, and evaluation techniques.
3. Describe effective communications with individuals and groups while considering physiological, psychological, social, cultural, and economic factors.
4. Determine how and when to implement and utilize different teaching and delivery methods, communication skills, and visual aids.

5. Explain the benefits, considerations, and science behind Intuitive Eating and the Health-at-Every-Size® approach.
6. KRDN 2.1 Demonstrate effective and professional oral and written communication and documentation.
7. KRDN 3.2 Develop an educational session or program/educational strategy for a target population.

NDFS5432 - Community Nutrition - 3 - Credits

Course Overview

Course Prefix
NDFS

Course Number
5432

Department
Nutrition, Dietetics & Food Sciences

Course Title
Community Nutrition

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides an introduction to public health nutrition, food programs, and national nutrition monitoring.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- NDFS1020 - Science and Application of Human Nutrition (BLS)

Course Learning Objectives

Course Learning Outcomes

1. Demonstrate foundational knowledge of public health nutrition, including key food programs and national nutrition monitoring systems.

2. Effectively communicate public health nutrition concepts through oral presentations and written assignments.

NDFS5433 - Advanced Nutrition - 3 - Credits

Course Overview

Course Prefix
NDFS

Course Number
5433

Department
Nutrition, Dietetics & Food Sciences

Course Title
Advanced Nutrition

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers structures, properties, and metabolism of protein, lipids, carbohydrates, vitamins, and minerals. Includes digestion, absorption, hormonal control, cellular biochemistry, metabolic interrelationships, excretion, etc.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- NDFS1020 - Science and Application of Human Nutrition (BLS)
- CHEM3700 - Introductory Biochemistry
- BIOL2320 - Human Anatomy
  OR BIOL2420 - Human Physiology

Course Learning Objectives

Course Learning Outcomes

1. At the end of the course, students will be able to recognize how major organs and tissues of an organism interact through the integration of key metabolic pathways.

2. At the end of the course, students will be able to describe the role of integrated metabolism in the development or exacerbation of metabolic disease.

3. At the end of the course, students will be able to evaluate the scholarly merits of information sources against a set of criteria.

NDFS5434 - Food Service Systems - 3 - Credits

Course Overview

Course Prefix
NDFS

Course Number
5434

Department
Nutrition, Dietetics & Food Sciences

Course Title
Food Service Systems

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides an in-depth exploration of foodservice systems within dietetics practice, emphasizing the systems approach to management in institutional and conventional settings. The course covers topics in sanitation and safety, foodservice trends, equipment, procurement, production, distribution, and menu planning.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Admission to the Didactic Program in Dietetics - Post-Bachelor's Certificate program

Course Learning Objectives

Course Learning Outcomes

1. Explain the principles of foodservice systems and their application in various operational settings.

2. Demonstrate competency in procurement, food production, inventory management, distribution and service of food.

3. Effectively plan standardized recipes, cycle menus, and meals.

4. Apply principles of federal school nutrition program requirements, including incorporating the proper meal components.

NDFS5435 - Education and Counseling Methods in Dietetics II - 3 - Credits

Course Overview

Course Prefix
NDFS

Course Number
5435

Department
Nutrition, Dietetics & Food Sciences

Course Title
Education and Counseling Methods in Dietetics II

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course builds on the content and principles covered in Education and Counseling Methods in Dietetics I.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Admission to the Didactic Program in Dietetics - Post-Bachelor's Certificate

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- NDFS3050 - Education and Counseling Methods in Dietetics I (CI)

Course Learning Objectives

Course Learning Outcomes

1. *Demonstrate ability to incorporate nutrition education theories and models into programs for individuals and groups from a wide variety of backgrounds while considering physiological, psychological, socioeconomic, and cultural factors.*
2. *Develop and evaluate written materials suitable for consumers.*
3. *Demonstrate the ability to use counseling methods and techniques.*

NDFS5436 - Science of Food Preparation - 4 - Credits

Course Overview

Course Prefix
NDFS

Course Number
5436

Department
Nutrition, Dietetics & Food Sciences

Course Title
Science of Food Preparation

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers science principles underlying modern food theory and practice. It also covers the relation of physical and chemical properties of food components and their systems to food preparation.

Credit Hours

Credit Hours
Min:
4

Contact Hours

Contact Hours
Min:
4

Billing Hours

Billing Hours
Min:
4

Lecture Hours

Lecture Hours
Min:
4

Registration Restrictions

Admission to the Didactic Program in Dietetics - Post-Bachelor's Certificate

Course Learning Objectives

Course Learning Outcomes

1. Identify important biomolecules (e.g. sugars, carbohydrates, lipids, and proteins) based on structural characteristics, and explain their function(s) in foods.
2. Describe conditions that affect different biomolecules in the storage and preparation of foods.
3. Predict the effect of altering an ingredient and/or preparation method on the quality of the final project.
4. Formulate a hypothesis relating to a specific food ingredient and/or preparation method, design and conduct appropriate experiments, and interpret results in relation to the original hypothesis.

NDFS5437 - Medical Nutrition Therapy - 4 - Credits

Course Overview

Course Prefix
NDFS

Course Number
5437

Department
Nutrition, Dietetics & Food Sciences

Course Title
Medical Nutrition Therapy

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students explore the connections between nutrition, pathophysiology, and methods of disease treatment. Students complete case studies using the Nutrition Care Process per the Academy of Nutrition and Dietetics.

Credit Hours

Credit Hours
Min:
4

Contact Hours

Contact Hours
Min:
4

Billing Hours

Billing Hours
Min:
4

Lecture Hours

Lecture Hours
Min:
4

Registration Restrictions
Admission to the Didactic Program in Dietetics - Post-Bachelor's Certificate

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- NDFS3040 - Nutrition Assessment

Course Learning Objectives

Course Learning Outcomes

1. To utilize current informatics in the practice of medical nutrition therapy.
2. To recall basic principles of medical nutrition therapy for common conditions.
3. To apply clinical guidelines to patient care.
4. To utilize the nutrition care process in decision-making.

NDFS5438 - Management in Dietetics - 3 - Credits

Course Overview

Course Prefix
NDFS

Course Number
5438

Department
Nutrition, Dietetics & Food Sciences

Course Title
Management in Dietetics

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Principles of organization, management theory, financial controls, human and labor relations, employee training, layout, and sanitation.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Admission to the Didactic Program in Dietetics - Post-Bachelor's Certificate

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- NDFS4710 - Food Service Systems

Course Learning Objectives

Course Learning Outcomes

1. Demonstrate effective management and leadership skills in foodservice operations, including planning, organizing, decision-making, and time management.
2. Apply principles of quality and financial management to ensure efficient and sustainable foodservice systems.
3. Understand and implement human resource management practices, including employment laws, recruitment, workforce development, and labor relations.
4. Demonstrate effective communication by applying models and strategies to support organizational goal.
5. Design and develop a comprehensive foodservice operation, including menu planning, staffing, budgeting, equipment needs, and organizational structure.

NDFS5450 - Study Abroad Experience - 1 - 5 Credits

Course Overview

Course Prefix
NDFS

Course Number
5450

Department
Nutrition, Dietetics & Food Sciences

Cross-Listed Courses
ASTE5450 - Study Abroad Experience

Course Title
Study Abroad Experience

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Students examine topics and issues within Nutrition, Dietetics, and Food Sciences (NDFS) disciplines through experiential learning in international settings.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
5

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
5

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
5

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
5

Lecture Hours Operator:
TO

Course Learning Objectives

Course Learning Outcomes
1. Identify global career opportunities within NDFS disciplines.
2. Examine the role of agriculture, science, and technology in global contexts.
3. Demonstrate cultural competence and global literacy.
4. Assess changes in beliefs and attitudes as a result of the global engagement experience.
5. Explore aspects and opportunities within various occupations in international settings.

NDFS5500 - Food Analysis (QI) - 4 - Credits

Course Overview

Course Prefix
NDFS

Course Number
5500

Department
Nutrition, Dietetics & Food Sciences

Dual-Listed Courses
NDFS6500 - Food Analysis

Course Title
Food Analysis (QI)

General Education Attribute
QI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Application and theory of physical, chemical, and instrumental techniques for determination of composition and quality of food.

Credit Hours

Credit Hours
Min:
4

Contact Hours

Contact Hours
Min:
4

Billing Hours

Billing Hours
Min:
4

Lecture Hours

Lecture Hours
Min:
4

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- NDFS5560 - Food Chemistry
  OR NDFS6560 - Food Chemistry

Course Learning Objectives

Course Learning Outcomes

1. Students will gain knowledge of the terminology used in food analysis.
2. Students will learn relevant procedures and equipment.
3. Students will become familiar with precision and accuracy through experiences with components of analysis and reporting results.
4. Students will utilize various separation and quantification techniques frequently used for food analysis.
5. Students will gain experience with proximate analysis of foods.
6. Students will understand how food analysis fits into the food industry.
7. Students will become aware of how analytical techniques may be used to determine food composition and quality.
8. Students will learn the proper selection and application of appropriate methods of analysis.

NDFS5510 - Food Laws and Regulations - 3 - Credits

Course Overview

Course Prefix
NDFS

Course Number
5510

Department
Nutrition, Dietetics & Food Sciences

Course Title
Food Laws and Regulations

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides background of federal/state laws and regulations and case law history affecting foodproduction, processing, packaging, marketing, and distribution of food products.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Course Learning Objectives

Course Learning Outcomes

1. Recall government regulatory frameworks required for the manufacture and sale of food products.
2. Describe the processes involved in formulating food policy.
3. Locate sources of food laws and regulations.
4. Examine issues related to food laws and regulations.

NDFS5560 - Food Chemistry - 4 - Credits

Course Overview

Course Prefix
NDFS

Course Number
5560

Department
Nutrition, Dietetics & Food Sciences

Dual-Listed Courses
NDFS6560 - Food Chemistry

Course Title
Food Chemistry

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Chemical structure, properties, reactions, and interactions of the important chemical constituents of food.

Credit Hours

Credit Hours
Min:
4

Contact Hours

Contact Hours
Min:
4

Billing Hours

Billing Hours
Min:
4

Lecture Hours

Lecture Hours
Min:
4

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Fulfill ANY of the following requirements:

Option 1

Complete ALL of the following Courses:

- NDFS3070 - Science of Food Preparation

OR

Option 2

Complete ALL of the following Courses:

- CHEM3700 - Introductory Biochemistry
- CHEM3710 - Introductory Biochemistry Laboratory

Course Learning Objectives

Course Learning Outcomes

1. Analyze how water, carbohydrates, lipids, and proteins interact to determine texture, color, flavor, and stability
2. Apply food-chemistry principles to predict and control key reactions
3. Communicate technical findings clearly in writing and orally, using correct chemical terminology, defensible visuals, and audience-appropriate framing for both scientific and lay audiences."

NDFS5610 - Food and Bioprocess Engineering - 3 - Credits

Course Overview

Course Prefix
NDFS

Course Number
5610

Department
Nutrition, Dietetics & Food Sciences

Cross-Listed Courses
BENG5610 - Food and Bioprocess Engineering

Dual-Listed Courses
NDFS6610 - Food and Bioprocess Engineering

Course Title
Food and Bioprocess Engineering

Grade Mode
Standard Letter

Repeat Status
NR

Course Description

This course covers the standardization and compounding of biomaterials and food products, as well as preservation processing using heat, refrigeration, concentration, and dehydration. It also covers basic unit operations in the bioprocessing industry. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Earn a minimum grade of C- in the following:

- BENG3200 - Introduction to Unit Operations in Biological Engineering

Course Learning Objectives

Course Learning Outcomes

1. Gain basic understanding in the principles of Food and Bioprocess Engineering topics
2. Apply such principles to solve related quantitative problems
3. Analyze numerical information relevant to them.

NDFS5710 - Cereal Science and Technology - 3 - Credits

Course Overview

Course Prefix
NDFS

Course Number
5710

Department
Nutrition, Dietetics & Food Sciences

Dual-Listed Courses
NDFS6710 - Cereal Science and Technology

Course Title
Cereal Science and Technology

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students learn the anatomy of various types of cereal grains and starch chemistry, developing a knowledge of agricultural and processing technologies, including milling, baking, malting, brewing, pasta, and ready-to-eat cereals, and learning industry analytical methods for quality and food safety. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Other Enrollment Recommendations
The student is recommended to have had a life science and a physical science breadth course. No other prerequisites are necessary. Some chemistry and biochemistry is presented in the course, especially the biological polymers, but the student should be able to understand the concepts presented without any previous biochemical background other than the Life Science Breadth course.

Course Learning Objectives

Course Learning Outcomes
Students will gain an understanding of the scientific principles behind cereal grains, technologies, manufacturing, and food safety.

Students will apply knowledge to scenarios regarding quality of grains, technical trouble shooting, and food safety scenarios.

Students will develop key and critical understanding and application of quality and food safety methods used for the analytical evaluation of cereal grains and cereal based products needed by professionals in the field.

Students will be required to research and document findings through technical writing and an evaluation of a hypothesis through the scientific method.

NDFS5750 - Advanced Dietetics Practicum - 2 - Credits

Course Overview

Course Prefix
NDFS

Course Number
5750

Department
Nutrition, Dietetics & Food Sciences

Course Title
Advanced Dietetics Practicum

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Advanced dietetics practicum in clinical nutrition, community nutrition, food service management, or research.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Registration Restrictions

Admission to the Dietetics - Didactic Program in Dietetics Emphasis - BS

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- NDFS3060 - Education and Counseling Methods in Dietetics II (CI)

NDFS5800 - Counseling and Motivational Interviewing for Health Professionals - 3 - Credits

Course Overview

Course Prefix
NDFS

Course Number
5800

Department
Nutrition, Dietetics & Food Sciences

Course Title
Counseling and Motivational Interviewing for Health Professionals

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course is designed to provide in-depth counseling and motivational interviewing theories, concepts, and skill development for healthcare professionals. The course relies heavily on practice-based learning opportunities. Additional coursework is required for those enrolled in the graduate-level course

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- NDFS2020 - Nutrition Throughout the Life Cycle
  OR NDFS2030 - Nutrition and Physical Performance
  OR NDFS3080 - Community Nutrition

Course Learning Objectives

Course Learning Outcomes

1. Assess motivational interviewing skills used by health professionals.
2. Demonstrate the ability to use counseling and motivational interviewing techniques in practice.
3. Evaluate motivational interviewing skills of self and peers.

NDFS5920 - Food Product Development (CI) - 3 - Credits

Course Overview

Course Prefix
NDFS

Course Number
5920

Department
Nutrition, Dietetics & Food Sciences

Course Title
Food Product Development (CI)

General Education Attribute
CI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Capstone course that incorporates and unifies the principles of food chemistry, microbiology, engineering, processing, nutrition, sensory analysis, and statistics.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Senior standing

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- NDFS5100 - Sensory Evaluation of Food (QI)
  OR NDFS6100 - Sensory Evaluation of Food
- NDFS5110 - Food Microbiology (CI)
- NDFS5560 - Food Chemistry

NDFS6010 - Hunger Issues and Solutions - 3 - Credits

Course Overview

Course Prefix
NDFS

Course Number
6010

Department
Nutrition, Dietetics & Food Sciences

Dual-Listed Courses
NDFS5010 - Hunger Issues and Solutions

Course Title
Hunger Issues and Solutions

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course examines domestic and global hunger issues and solutions. The course focuses on advancing knowledge and skills in advocacy, leadership, and critical thinking, all of which are essential for professionals working towards eradicating hunger.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Assess global and domestic issues that contribute to hunger and solutions to reduce worldwide hunger.
2. Evaluate the effectiveness of a variety of domestic and global hunger solutions.
3. Develop a solution for a specific hunger related issue in a specific country or region.

NDFS6020 - Meat Science and Technology - 4 - Credits

Course Overview

Course Prefix
NDFS

Course Number
6020

Department
Nutrition, Dietetics & Food Sciences

Dual-Listed Courses
NDFS5020 - Meat Science and Technology

Course Title
Meat Science and Technology

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
The science of topics related to the production of fresh and processed meats. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
4

Contact Hours

Contact Hours
Min:
4

Billing Hours

Billing Hours
Min:
4

Lecture Hours

Lecture Hours
Min:
4

No Requirements

NDFS6030 - Dairy Technology and Processing - 3 - Credits

Course Overview

Course Prefix
NDFS

Course Number
6030

Department
Nutrition, Dietetics & Food Sciences

Course Title
Dairy Technology and Processing

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers biochemistry, microbiology, and technology of milk processing. It includes heat processing, fat separation, homogenization, concentration, drying, fermentation, freezing, and manufacture of dairy foods, such as pasteurized milk, UHT milks, ice cream, cheeses, and yogurt.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Course Learning Objectives

Course Learning Outcomes

1. Describe and understand the chemical and microbiological aspects of milk.
2. Understand the various processes involved in converting milk into a variety of high quality dairy foods.
3. Understand and describe the technology and the factors that allows control of dairy foods manufacturing processes."

NDFS6040 - Dairy Foods Processing Laboratory - 1 - Credits

Course Overview

Course Prefix
NDFS

Course Number
6040

Department
Nutrition, Dietetics & Food Sciences

Dual-Listed Courses
NDFS5040 - Dairy Foods Processing Laboratory

Course Title
Dairy Foods Processing Laboratory

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students obtain hands-on experience in the manufacture of various dairy foods and learn about processes such as cream separation, homogenization, pasteurization, sterilization, ultrafiltration, and fermentation of milk. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours Min:
1

Contact Hours

Contact Hours Min:
1

Billing Hours

Billing Hours Min:
1

Lecture Hours

Lecture Hours Min:
1

Simple Requisites

Corequisite

Type
Corequisite

Required

Enroll in the following Courses:
- NDFS6030 - Dairy Technology and Processing

Course Learning Objectives

Course Learning Outcomes
Cleaning

1. Learn the methods for cleaning dairy processing equipment.
2. Understand the components of a CIP cleaning system
3. Understand how a HTST pasteurizer is cleaned using CIP.

Cottage Cheeses

4. Learn how to make cottage cheese using direct acidification.
5. Learn about acid coagulation of milk
6. Learn the ingredients used to make cheddar cheese.
7. Learn about rennet coagulation of milk
8. Know how to make Cheddar and Mozzarella cheese.

Milk Pasteurization

9. Learn the components of a cream separator
10. Learn the components of an HTST pasteurizer
11. Understand how to measure the holding time of an HTST pasteurizer
12. Understand the influence of heat treatment on milk flavor.
13. Ultra-High Temperature Milk
14. Know the difference between UHT and ultra-pasteurization of milk.
15. Learn how to UHT process milk
16. Know the difference between direct and indirect heating.
17. Learn how storage time and temperature influences UHT milk quality

Fluid Milk

18. Know the components and requirements for batch pasteurizing milk.
19. Know the common time and temperature treatments for fluid milk.
20. Learn how to manufacture chocolate milk
21. Understand the influence of ingredients on chocolate milk.
22. Learn how to operate a 2-stage homogenizer

Ice Cream

23. Learn how to manufacture an ice cream mix
24. Know the common ingredients used for manufacture of ice cream.
25. Know how to calculate a mix formulation
26. Learn the processing steps used when making ice cream.
27. Understand how ice cream can be made using batch and continuous freezing
28. Be able to calculate ice cream overrun.
29. Learn how a homogenizer works.

Yogurt

30. Understand the differences in manufacture of set and stirred yogurt.
31. Know how to make yogurt.
32. Understand the acidification of milk using fermentation.
33. Concentration and Fractionation of Milk
34. Understand how a spiral wound membrane is used
35. Understand the components of a membrane filtration system.

36. Learn how milk components are fractionated using ultrafiltration.
37. Understand how membrane systems are cleaned.

    Process Cheese
38. Learn how to make pasteurized process cheese products.
39. Know the ingredients that are used to make process cheese products."

NDFS6050 - Community Nutrition Experience - 3 - Credits

Course Overview

Course Prefix
NDFS

Course Number
6050

Department
Nutrition, Dietetics & Food Sciences

Course Title
Community Nutrition Experience

Grade Mode
Temporary Standard Letter

Repeat Status
NR

Course Description
This course provides community nutrition supervised experiential learning which takes place in various facility types. Rotations occur in government and other non-profit nutrition-related agencies.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Registration Restrictions

Admission to the Master of Dietetics Administration - MDA program, Pre-RD track

Simple Requisites

Corequisite

Type
Corequisite

Required

Enroll in the following Courses:

- NDFS6051 - Advanced Community Nutrition

Course Learning Objectives

Course Learning Outcomes

1. Develop nutrition education materials tailored to individuals and community-based populations.
2. Practice the Nutrition Care Process in different populations and settings
3. Identify and apply education and counseling principles to a diverse audience
4. Demonstrate at least entry-level proficiency in ACEND competencies outlined in this course

NDFS6051 - Advanced Community Nutrition - 2 - Credits

Course Overview

Course Prefix
NDFS

Course Number
6051

Department
Nutrition, Dietetics & Food Sciences

Course Title
Advanced Community Nutrition

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers a variety of topics in advanced community nutrition designed to build on prior community nutrition coursework.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Registration Restrictions

Admission to the Master of Dietetics Administration - MDA Pre-RD track

Simple Requisites

Corequisite

Type
Corequisite

Required

Enroll in the following Courses:

- NDFS6050 - Community Nutrition Experience

Course Learning Objectives

Course Learning Outcomes

1. Demonstrate and apply knowledge and skills related to current and emerging public health nutrition and community nutrition issues.
2. Apply the Nutrition Care Process in with different population and settings.
3. Identify and apply education and counseling principles to a diverse audience.
4. Demonstrate entry-level proficiency of ACEND competencies outlined in the course.

NDFS6060 - Community Skills II - 2 - Credits

Course Overview

Course Prefix
NDFS

Course Number
6060

Department
Nutrition, Dietetics & Food Sciences

Course Title
Community Skills II

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Community Skills II provides credit for dietetics training in community health organizations in Logan and Ogden.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Registration Restrictions

Admission to the Applied Practice in Dietetics - Post-Bachelor's Certificate

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Show cultural humility in interactions with colleagues, staff, clients, patients and the public.
2. Develop nutrition education materials that are culturally and age appropriate and designed for the literacy level of the audience.
3. Conduct clinical and client service quality management activities (such as quality improvement or quality assurance projects).

NDFS6100 - Sensory Evaluation of Food - 3 - Credits

Course Overview

Course Prefix
NDFS

Course Number
6100

Department
Nutrition, Dietetics & Food Sciences

Dual-Listed Courses
NDFS5100 - Sensory Evaluation of Food (QI)

Course Title
Sensory Evaluation of Food

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers the design and implementation of sensory testing of foods. It emphasizes physiology of senses, testing methods, statistical analysis, and taste panel experience. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Contact Hours Operator:
OR

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- STAT3000 - Statistics for Scientists (QI)
  OR STAT2000 - Statistical Methods (QI)

NDFS6110 - Food Microbiology - 3 - Credits

Course Overview

Course Prefix
NDFS

Course Number
6110

Department
Nutrition, Dietetics & Food Sciences

Course Title
Food Microbiology

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers microorganisms in food spoilage, poisoning, preservation, and sanitation.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

NDFS6111 - Food Microbiology Laboratory - 1 - Credits

Course Overview

Course Prefix
NDFS

Course Number
6111

Department
Nutrition, Dietetics & Food Sciences

Course Title
Food Microbiology Laboratory

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides students laboratory experience working with microorganisms in food spoilage, poisoning, preservation, and sanitation.

Credit Hours

Credit Hours Min:
1

Contact Hours

Contact Hours Min:
1

Billing Hours

Billing Hours Min:
1

Lecture Hours

Lecture Hours Min:
1

Simple Requisites

Corequisite

Type
Corequisite

Required

Enroll in the following Courses:

- NDFS6110 - Food Microbiology

NDFS6140 - Introduction to Public Health - 3 - Credits

Course Overview

Course Prefix
NDFS

Course Number
6140

Department
Nutrition, Dietetics & Food Sciences

Course Title
Introduction to Public Health

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces basic principles, methods, and issues in public health. It includes an overview of policy and administration, epidemiology, biostatistics, disease control, environmental factors, and behavioral health. Students also study historical and current challenges in public health.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Integrate foundational concepts, values, and historical developments of public health to explain how they shape contemporary approaches to disease prevention, health promotion, and population health improvement.
2. Understand the interplay of biological, environmental, behavioral, political, and social determinants of health to identify sources of health disparities.
3. Describe key sources of public health data and explain how data are used to identify population health trends, inform policy decisions, and guide evidence-based interventions.

4. Understand how systems and ecological perspectives, including One Health, can assess how globalization, environmental change, and animal, human, and environmental connections influence population health outcomes.

NDFS6150 - Principles of Food Sanitation - 3 - Credits

Course Overview

Course Prefix
NDFS

Course Number
6150

Department
Nutrition, Dietetics & Food Sciences

Course Title
Principles of Food Sanitation

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This independent course addresses sanitation and hygiene principles and their impact on food safety. It includes information on soils, cleaning compounds, sanitizers, cleaning equipment and regulations.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Course Learning Objectives

Course Learning Outcomes

1. Possess a broad foundation of knowledge in the principles of sanitation as it relates to the food industry
2. Understand of scientific rationale related to sanitation
3. Apply critical thinking skills about food sanitation applications within the food safety and quality system

NDFS6160 - Principles of Food Toxicology - 3 - Credits

Course Overview

Course Prefix
NDFS

Course Number
6160

Department
Nutrition, Dietetics & Food Sciences

Course Title
Principles of Food Toxicology

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This independent study course addresses the toxins and allergens in foods and their impact on food safety. It includes information on allergens, non-nutrient chemicals, genetically engineered foods, microbial toxins, plant toxins, pesticide residues, and food additives.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Course Learning Objectives

Course Learning Outcomes

1. Identify and evaluate common and emerging foodborne toxins (chemical, microbial, and allergenic) in real-world food production and processing environments.
2. Apply toxicological principles (dose-response, hazard characterization) to food safety decisions in HACCP, GMPs, SSOPs, and Preventive Controls.
3. Interpret regulatory frameworks and industry guidance on food toxins, residues, and allowable limits (FDA, USDA, GFSI Schemes).
4. Analyze real cases of contamination, recalls, or foodborne illness outbreaks involving toxins or allergens and propose preventive strategies.

5. Critically assess food additives, processing aids, and novel ingredients for toxicological risk in the context of product development and consumer safety.

NDFS6170 - Food Safety and Quality: Food Safety Management - 1 - Credits

Course Overview

Course Prefix
NDFS

Course Number
6170

Department
Nutrition, Dietetics & Food Sciences

Course Title
Food Safety and Quality: Food Safety Management

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students explore modern issues and programs of safety and quality assurance related to the food industry. This course focuses on global food safety management systems.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Course Learning Objectives

Course Learning Outcomes

1. Demonstrate mastery of 3rd party auditing and quality control requirements for food facilities

NDFS6171 - Food Safety and Quality: Current Good Manufacturing Practice - 1 - Credits

Course Overview

Course Prefix
NDFS

Course Number
6171

Department
Nutrition, Dietetics & Food Sciences

Course Title
Food Safety and Quality: Current Good Manufacturing Practice

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students explore modern issues and programs of safety and quality assurance related to the food industry. This course focuses on Current Good Manufacturing Practices required by regulations enforced by the U.S. Food and Drug Administration and U.S. Department of Agriculture.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Demonstrate mastery of food Good Manufacturing Practices for foods (21 CFR 117 Part B)

NDFS6172 - Food Safety and Quality: Hazard Analysis and Critical Control Points - 1 - Credits

Course Overview

Course Prefix
NDFS

Course Number
6172

Department
Nutrition, Dietetics & Food Sciences

Course Title
Food Safety and Quality: Hazard Analysis and Critical Control Points

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students explore modern issues and programs of safety and quality assurance related to the food industry. This course focuses on Hazard Analysis and Critical Control Points.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Demonstrate mastery of Hazard Analysis and Critical Control Points requirements 9 CFR 417 or 21 CFR 120)

NDFS6173 - Food Safety and Quality: Preventive Controls - 1 - Credits

Course Overview

Course Prefix
NDFS

Course Number
6173

Department
Nutrition, Dietetics & Food Sciences

Course Title
Food Safety and Quality: Preventive Controls

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students explore modern issues and programs of safety and quality assurance related to the food industry. This course focuses on the Preventive Controls for Human Food Rule required by regulations enforced by the U.S. Food and Drug Administration.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Demonstrate mastery of Preventive Controls for Human Foods requirements (21 CFR 117)

NDFS6174 - Food Safety and Quality: Standards for Produce Safety - 1 - Credits

Course Overview

Course Prefix
NDFS

Course Number
6174

Department
Nutrition, Dietetics & Food Sciences

Course Title
Food Safety and Quality: Standards for Produce Safety

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students explore modern issues and programs of safety and quality assurance related to the food industry. This course focuses on the Produce Safety Rule required by regulations enforced by the U.S. Food and Drug Administration.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Demonstrate mastery of Produce Safety Rule requirements (21 CFR 112)

NDFS6175 - Food Safety and Quality: Acidified Foods - 1 - Credits

Course Overview

Course Prefix
NDFS

Course Number
6175

Department
Nutrition, Dietetics & Food Sciences

Course Title
Food Safety and Quality: Acidified Foods

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students explore modern issues and programs of safety and quality assurance related to the food industry. This course focuses on the requirements for safe processing of canned acidified foods required by regulations enforced by the U.S. Food and Drug Administration.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Demonstrate mastery of Acidified Food processing requirements (21 CFR 114)

NDFS6180 - Food Safety Inspection and Auditing - 1 - 2 Credits

Course Overview

Course Prefix
NDFS

Course Number
6180

Department
Nutrition, Dietetics & Food Sciences

Course Title
Food Safety Inspection and Auditing

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This is an experiential course. Students will arrange to shadow regulatory and industry food safety inspectors (travel off-campus is required). The main objective is to understand and experience the contents and goals of different types of food safety inspections (local, state, industry audits.)

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
2

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
2

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
2

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
2

Lecture Hours Operator:
TO

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Analyze the structure and intent of food safety inspections and apply principles from MFSQ coursework to real-world audit findings.
2. Demonstrate professional conduct while observing inspections and reporting findings accurately and critically.

NDFS6200 - Nutritional Epidemiology - 3 - Credits

Course Overview

Course Prefix
NDFS

Course Number
6200

Department
Nutrition, Dietetics & Food Sciences

Course Title
Nutritional Epidemiology

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Introduction to epidemiologic methods and their application to the study of nutrition, human health, and disease. Useful for students with career interests in nutrition, food sciences, dietetics, human health sciences, veterinary sciences, biology, public health, anthropology, social work, and public policy.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- NDFS1020 - Science and Application of Human Nutrition (BLS)
- STAT1040 - Introduction to Statistics (QL)
  OR STAT1045 - Introduction to Statistics with Elements with Algebra (QL)

or higher STAT course

Course Learning Objectives

Course Learning Outcomes

1. Learn appropriate methods for collecting, analyzing, and interpreting numerical information related to epidemiology, nutrition, and public health (IDEA Objective 13)
2. Learn to apply course material to improve thinking, problem solving, and decisions about issues in nutritional epidemiology and public health (IDEA Objective 3)

NDFS6210 - Advanced Public Health Nutrition - 3 - Credits

Course Overview

Course Prefix
NDFS

Course Number
6210

Department
Nutrition, Dietetics & Food Sciences

Course Title
Advanced Public Health Nutrition

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course examines the effects of diet on human development and disease prevention. Students study several public health conditions, both in the United States and internationally, as well as health concerns of minority populations, government policy, and establishment of dietary recommendations.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- NDFS4020 - Advanced Nutrition
- STAT1040 - Introduction to Statistics (QL)
  OR STAT1045 - Introduction to Statistics with Elements with Algebra (QL)

or higher STAT course

Course Learning Objectives

Course Learning Outcomes

1. Describe the evidence supporting public health recommendations regarding diet and nutrition.
2. Describe the role of nutrition in a wide range of chronic diseases among various demographic groups.
3. Discuss how evolutionary biology has shaped genetic adaptation among a wide range of dietary patterns.
4. Develop skills in reviewing, analyzing, critiquing and peer reviewing public health nutrition research.
5. Develop skills in critical thinking and research writing.

NDFS6230 - Communicating Current Topics in Public Health - 3 - Credits

Course Overview

Course Prefix
NDFS

Course Number
6230

Department
Nutrition, Dietetics & Food Sciences

Course Title
Communicating Current Topics in Public Health

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students learn best practices for effective scientific communication using a variety of methods. Students demonstrate communication skills by completing several assignments based on a current nutrition topic of their choice. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Must be enrolled in the online MPH program

No Requirements

NDFS6240 - Program Planning and Evaluation in Public Health - 3 - Credits

Course Overview

Course Prefix
NDFS

Course Number
6240

Department
Nutrition, Dietetics & Food Sciences

Course Title
Program Planning and Evaluation in Public Health

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides students with an overview of how to develop culturally competent and effective public health programs at the local, state, and national levels. Students develop a program and evaluation plan for an innovative public health program.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Define and describe the core components of program planning and evaluation in public health.
2. Apply theoretical frameworks to guide the design and assessment of health programs.
3. Conduct community needs assessments and translate findings into program goals, objectives, and activities.
4. Develop a logic model and a comprehensive evaluation plan using appropriate data collection and analysis methods.
5. Collaborate effectively in teams to plan, design, and evaluate programs that serve the public good.

NDFS6250 - Clinical Nutrition Experience - 3 - 7 Credits

Course Overview

Course Prefix
NDFS

Course Number
6250

Department
Nutrition, Dietetics & Food Sciences

Course Title
Clinical Nutrition Experience

Grade Mode
Temporary Standard Letter

Repeat Status
NR

Course Description
This course covers principles and application of the nutrition research process including research ethics, study design, data collection, analysis and interpretation, and results dissemination for both qualitative and quantitative research. Students will practice oral and written communication of research findings.

Credit Hours

Credit Hours Min:
3

Credit Hours Max:
7

Credit Hours Operator:
OR

Contact Hours

Contact Hours Min:
3

Contact Hours Max:
7

Contact Hours Operator:
OR

Billing Hours

Billing Hours Min:
3

Billing Hours Max:
7

Billing Hours Operator:
OR

Lecture Hours

Lecture Hours Min:
3

Lecture Hours Max:
7

Lecture Hours Operator:
OR

Registration Restrictions

Admission to the Master of Dietetics Administration - MDA, program Pre-RD track

Simple Requisites

Corequisite

Type
Corequisite

Required

Enroll in the following Courses:

- NDFS6251 - Advanced Clinical Nutrition

Course Learning Objectives

Course Learning Outcomes

1. Develop skills in critical thinking and research writing.

NDFS6251 - Advanced Clinical Nutrition - 2 - Credits

Course Overview

Course Prefix
NDFS

Course Number
6251

Department
Nutrition, Dietetics & Food Sciences

Course Title
Advanced Clinical Nutrition

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers a variety of topics in advanced clinical nutrition designed to build on prior clinical nutrition coursework.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Registration Restrictions

Admission to the Master of Dietetics Administration - MDA Pre-RD track

Simple Requisites

Corequisite

Type
Corequisite

Required

Enroll in the following Courses:

- NDFS6250 - Clinical Nutrition Experience

Course Learning Objectives

Course Learning Outcomes

1. Demonstrate at least entry level proficiency of ACEND competencies outlined in Clinical Nutrition Learning Activities.
2. Demonstrates knowledge of pathophysiology and nutritional biochemistry to physiology, health and disease.
3. Demonstrate proficiency with general nutrition calculations.
4. Demonstrate ability to review research and communicate evidence-informed results in oral and written formats.
5. Analyze and critically evaluate clinical ideas, practices, and procedures.
6. Identify and utilize appropriate resources to solve clinical questions and problems.

NDFS6280 - Public Health Administration and Leadership - 3 - Credits

Course Overview

Course Prefix
NDFS

Course Number
6280

Department
Nutrition, Dietetics & Food Sciences

Course Title
Public Health Administration and Leadership

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides an overview of management processes for public health professionals, including: basic principles of resource management; comparison of organization, structure, and function of health care and public health systems; and the essentials of public health leadership.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Apply leadership and management theories to analyze and address organizational challenges in public health practice, demonstrating ethical decision-making and strategic thinking.
2. Develop and apply negotiation, mediation, and communication skills to manage conflict and build consensus in diverse, multidisciplinary public health teams.
3. Design strategies to engage stakeholders and build effective coalitions and partnerships that influence policy, promote collaboration, and advance equitable public health outcomes.
4. Strengthen professional development and career readiness by refining professional materials and networking skills essential for success in public health leadership roles.

NDFS6300 - Advanced Micronutrient Nutrition - 3 - Credits

Course Overview

Course Prefix
NDFS

Course Number
6300

Department
Nutrition, Dietetics & Food Sciences

Dual-Listed Courses
NDFS5300 - Advanced Micronutrient Nutrition

Course Title
Advanced Micronutrient Nutrition

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Explores the function, interaction, and practical significance of micronutrients in human metabolism and the ability of the diet to meet these needs. Relates nutrient biochemical functions to specific deficiency symptoms.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- NDFS4020 - Advanced Nutrition

NDFS6310 - Fundamentals of Nutrition Research - 3 - Credits

Course Overview

Course Prefix
NDFS

Course Number
6310

Department
Nutrition, Dietetics & Food Sciences

Dual-Listed Courses
NDFS5310 - Fundamentals of Nutrition Research

Course Title
Fundamentals of Nutrition Research

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course will instruct students on the theoretical, practical and ethical aspects associated with the design, execution and dissemination of pre-clinical and clinical nutrition research studies.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:
- NDFS4020 - Advanced Nutrition

NDFS6320 - Advanced Sports Nutrition - 3 - Credits

Course Overview

Course Prefix
NDFS

Course Number
6320

Department
Nutrition, Dietetics & Food Sciences

Dual-Listed Courses
NDFS5320 - Advanced Sports Nutrition

Course Title
Advanced Sports Nutrition

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course explores the evidence-based theoretical and applied aspects of sports nutrition delivered in an interactive online format. Students read and discuss current peer-reviewed articles and apply information learned to nutrition prescriptions for athletes. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:
- NDFS2030 - Nutrition and Physical Performance
- NDFS4020 - Advanced Nutrition

NDFS6350 - Food Service Management Experience - 3 - 5 Credits

Course Overview

Course Prefix
NDFS

Course Number
6350

Department
Nutrition, Dietetics & Food Sciences

Course Title
Food Service Management Experience

Grade Mode
Temporary Standard Letter

Repeat Status
RP

Course Description
This course provides food service management supervised experiential learning which takes place in K-12 school districts participating in the USDA school lunch program.

Credit Hours

Credit Hours Min:
3

Credit Hours Max:
5

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
3

Contact Hours Max:
5

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
3

Billing Hours Max:
5

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
3

Lecture Hours Max:
5

Lecture Hours Operator:
TO

Registration Restrictions

Admission to the Master of Dietetics Administration - MDA program, Pre-RD track

Simple Requisites

Corequisite

Type
Corequisite

Required

Enroll in the following Courses:

- NDFS6351 - Advanced Food Service Management

Course Learning Objectives

Course Learning Outcomes

1. Apply food service management knowledge and skills in a school food service setting.
2. Function as a contributing member of the school food service team.
3. Identify and use appropriate resources to solve food service/ management questions and problems.
4. Demonstrate at least entry-level proficiency of ACEND competencies outlined in this course.
5. Demonstrate and apply knowledge related to principles of foodservice management.
6. Analyze and critically evaluate management ideas, arguments, and points of view.

NDFS6351 - Advanced Food Service Management - 2 - Credits

Course Overview

Course Prefix
NDFS

Course Number
6351

Department
Nutrition, Dietetics & Food Sciences

Course Title
Advanced Food Service Management

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course covers a variety of topics in advanced food service management designed to build on prior food service management coursework.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Registration Restrictions

Admission to the Master of Dietetics Administration - MDA Pre-RD track

Simple Requisites

Corequisite

Type
Corequisite

Required

Enroll in the following Courses:

- NDFS6350 - Food Service Management Experience

Course Learning Objectives

Course Learning Outcomes

1. Demonstrate and apply knowledge related to principles of foodservice management.
2. Identify and utilize appropriate resources to solve food service/management questions.
3. Analyze and critically evaluate management ideas, arguments, and points of view.
4. Demonstrate at least entry-level proficiency of ACEND competencies outlined course.

NDFS6410 - Nutrient Gene Interactions - 3 - Credits

Course Overview

Course Prefix
NDFS

Course Number
6410

Department
Nutrition, Dietetics & Food Sciences

Dual-Listed Courses
NDFS5410 - Nutrient Gene Interactions (CI)

Course Title
Nutrient Gene Interactions

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Focuses on molecular interactions between nutrients and mechanisms of gene expression, including transcriptional regulation, post-transcriptional regulation, and epigenetics. Emphasizes nutrient/gene interactions involved in the etiology or prevention of chronic disease, such as cancer, cardiovascular disease, and metabolic syndrome.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- CHEM3700 - Introductory Biochemistry

Course Learning Objectives

Course Learning Outcomes

1. Describe the structure of genes and explain the key steps of gene transcription and post-transcriptional regulation, including chromatin dynamics and mRNA processing.
2. Explain how major nutrient classes (carbohydrates, proteins, lipids) influence gene expression through transcription factors, signaling pathways, and metabolic regulators.
3. Evaluate the molecular mechanisms by which vitamins and minerals (such as vitamin A, selenium, iron, zinc, biotin, vitamin B6, and vitamin C) modulate gene expression and contribute to the etiology or prevention of chronic disease.
4. Analyze how nutrient–gene interactions contribute to metabolic disorders, including obesity, metabolic syndrome, and appetite regulation.
5. Describe how nutrition influences epigenetic mechanisms such as DNA methylation and one-carbon metabolism, and explain their relevance to disease risk and development.
6. Explain how dietary compounds such as polyphenols and phytochemicals regulate gene expression and modulate inflammation, cancer risk, and cellular signaling pathways.
7. Interpret the role of the gut microbiome in nutrient–gene interactions, including effects of diet on microbial metabolism and host gene regulation.
8. Critically evaluate primary research on nutrient–gene interactions and synthesize information from peer-reviewed sources to write a scientific research paper.
9. Communicate scientific findings effectively through oral presentations that summarize complex molecular interactions clearly and accurately.
10. Apply molecular nutrition concepts to chronic disease etiology, including cancer, cardiovascular disease, and metabolic disorders, integrating mechanistic knowledge with current research literature.

NDFS6440 - Food Composition and Analysis - 3 - Credits

Course Overview

Course Prefix
NDFS

Course Number
6440

Department
Nutrition, Dietetics & Food Sciences

Course Title
Food Composition and Analysis

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
As part of the Master in Food Safety and Quality program (MFSQ), this course provides students with the tools to understand the principles behind the major food components and the most relevant techniques for their analysis.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Identify the proximate components of food
2. Describe the chemical and physical nature of those proximate components
3. Implement basic data analysis and justifiably report the result
4. Describe the priority importance of sampling for reliable analysis of food
5. Identify the key considerations for obtaining, storing, and preparing samples for analysis
6. Describe the principles and procedures of the most relevant analytical methodologies for the proximate components of food

NDFS6450 - Dietetics Career Essentials - 1 - Credits

Course Overview

Course Prefix
NDFS

Course Number
6450

Department
Nutrition, Dietetics & Food Sciences

Course Title
Dietetics Career Essentials

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course addresses key issues in dietetics, including professionalism, safety, ethics, risk management, and professional development.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Registration Restrictions

Admission to the Dietetic Internship (DI) or Master of Dietetics Administration - MDA program

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Demonstrate professional readiness by adhering to ethical standards, HIPAA and OSHA regulations, and appropriate professional communication expected in supervised practice rotations .
2. Develop confidence and competence in preparing for supervised practice rotations through mastery of professionalism, time management, and effective collaboration with preceptors and interprofessional teams.

3. Apply career preparation skills by creating a professional résumé, practicing interview techniques, and formulating effective job offer negotiation strategies to support successful transition into dietetic practice.

NDFS6460 - Medical Dietetics (CI) - 4 - Credits

Course Overview

Course Prefix
NDFS

Course Number
6460

Department
Nutrition, Dietetics & Food Sciences

Course Title
Medical Dietetics (CI)

General Education Attribute
CI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course involves in-depth study of nutrition relationships in disease development and treatment with clinical experience in medical facilities in Salt Lake City.

Credit Hours

Credit Hours Min:
4

Contact Hours

Contact Hours Min:
4

Billing Hours

Billing Hours Min:
4

Lecture Hours

Lecture Hours Min:
4

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- NDFS3040 - Nutrition Assessment
- NDFS4560 - Medical Nutrition Therapy (CI)

Course Learning Objectives

Course Learning Outcomes

1. Incorporate critical-thinking skills in overall practice.

2. Practice in compliance with current federal regulations and state statutes and rules, as applicable, and in accordance with accreditation standards and the Scope of Practice for the Registered Dietitian Nutritionist, Standards of Professional Performance, and Code of Ethics for the Profession of Nutrition and Dietetics.
3. Demonstrate professional writing skills in preparing professional communications.
4. Function as a member of interprofessional teams and work collaboratively with support personnel in other disciplines.
5. Show cultural humility in interactions with colleagues, staff, clients, patients, and the public.
6. Use effective education and counseling skills to facilitate behavior change.
7. Prepare a plan for professional development according to Commission on Dietetic Registration Guidelines.
8. Evaluate research and apply evidence-based guidelines, systematic reviews and scientific literature in nutrition and dietetics practice.

NDFS6470 - Global Public Health - 3 - Credits

Course Overview

Course Prefix
NDFS

Course Number
6470

Department
Nutrition, Dietetics & Food Sciences

Course Title
Global Public Health

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
As the world becomes increasingly connected, the health of one population often affects the health of another. In this course, students will explore public health issues and solutions at the global level.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Students will discuss global public health issues.
2. Students will identify examples of successful international public health programs and policies.
3. Students will propose multi-level strategies to address public health issues in a region of interest.

NDFS6500 - Food Analysis - - 4 Credits

Course Overview

Course Prefix
NDFS

Course Number
6500

Department
Nutrition, Dietetics & Food Sciences

Dual-Listed Courses
NDFS5500 - Food Analysis (QI)

Course Title
Food Analysis

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Application and theory of physical, chemical, and instrumental techniques for determination of composition and quality of food.

Credit Hours

Credit Hours Min:
0

Credit Hours Max:
4

Credit Hours Operator:
OR

Contact Hours

Contact Hours Min:
0

Contact Hours Max:
4

Contact Hours Operator:
OR

Billing Hours

Billing Hours Min:
0

Billing Hours Max:
4

Billing Hours Operator:
OR

Lecture Hours

Lecture Hours Min:
0

Lecture Hours Max:
4

Lecture Hours Operator:
OR

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- NDFS6560 - Food Chemistry
  OR NDFS5560 - Food Chemistry

Course Learning Objectives

Course Learning Outcomes

NDFS6510 - Food Laws and Regulations - 3 - Credits

Course Overview

Course Prefix
NDFS

Course Number
6510

Department
Nutrition, Dietetics & Food Sciences

Course Title
Food Laws and Regulations

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides background of federal/state laws and regulations and case law history affecting foodproduction, processing, packaging, marketing, and distribution of food products.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Recall government regulatory frameworks required for the manufacture and sale of food products.
2. Describe the processes involved in formulating food policy.
3. Locate sources of food laws and regulations.
4. Examine issues related to food laws and regulations.

NDFS6530 - Food Packaging and Labeling - 3 - Credits

Course Overview

Course Prefix
NDFS

Course Number
6530

Department
Nutrition, Dietetics & Food Sciences

Course Title
Food Packaging and Labeling

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers the examination of modern packaging options and current U.S. federal regulations. It emphasizes chemical, physical, and antimicrobial characteristics of packaging systems, federal labeling rules, and the regulatory status of packaging materials.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

NDFS6540 - Introduction to Epidemiology and Biostatistics - 3 - Credits

Course Overview

Course Prefix
NDFS

Course Number
6540

Department
Nutrition, Dietetics & Food Sciences

Course Title
Introduction to Epidemiology and Biostatistics

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course presents basic epidemiology concepts and statistical methods in a broad range of medical or public health problems. The course emphasizes the use of these methods and the interpretation of results using clinical and translational science applications.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Registration Restrictions
Admission to the MPH Nutrition and Veterinary Public Health program and students from other graduate programs with permission from the instructor.

Other Enrollment Recommendations
Previous exposure to elementary algebra and introductory statistics is helpful, as is familiarity with Microsoft Excel

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Differentiate between approaches of data collection and study design and understand how the strength of evidence varies among these approaches.
2. Differentiate among common statistical methods, and describe what statistical methods are appropriate based on study design, type of data collected, types of variables, and specific research.
3. Apply statistical concepts to actual data related to particular health fields and generate descriptive and inferential statistics using statistical software.
4. Develop tables and figures to present results from analyses, and explain their results in the context of the data set.
5. Draw conclusions from statistical analyses, place them into the appropriate public health context, and effectively communicate the process (methods, results, and conclusions of a project) orally and in writing.

NDFS6550 - Public Health Policy and Advocacy - 3 - Credits

Course Overview

Course Prefix
NDFS

Course Number
6550

Department
Nutrition, Dietetics & Food Sciences

Course Title
Public Health Policy and Advocacy

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides an overview of the role of advocacy and policy to advance programs, regulations, and laws that protect the health of the public. Students explore the policymaking process and current issues in public health advocacy and policy.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Critically differentiate between categories and characteristics of healthcare and public health systems across countries.
2. Describe the policymaking process of a specific public health topic.
3. Demonstrate an awareness of ethical dilemmas, conflicts of interest, fairness principles, and potential impacts of policymaking process on stakeholders
4. Identify where evidences such as data, research findings, or expert opinions and ethical considerations might influence policy decisions at different stages.
5. Clearly communicates the key elements of a chosen public health issue, showcasing the ability to capture attention, convey urgency, articulate a call to action, and motivate stakeholders to support the proposed changes.
6. Demonstrate proficiency in incorporating evidence-based information, research findings, and showcase their expert opinions in making recommendations for public health policy changes.

NDFS6560 - Food Chemistry - 4 - Credits

Course Overview

Course Prefix
NDFS

Course Number
6560

Department
Nutrition, Dietetics & Food Sciences

Dual-Listed Courses
NDFS5560 - Food Chemistry

Course Title
Food Chemistry

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Chemical structure, properties, reactions, and interactions of the important chemical constituents of food.

Credit Hours

Credit Hours
Min:
4

Contact Hours

Contact Hours
Min:
4

Billing Hours

Billing Hours
Min:
4

Lecture Hours

Lecture Hours
Min:
4

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Fulfill ANY of the following requirements:

Option 1

Complete ALL of the following Courses:

- NDFS3070 - Science of Food Preparation

OR

Option 2

Complete ALL of the following Courses:

- CHEM3700 - Introductory Biochemistry
- CHEM3710 - Introductory Biochemistry Laboratory

Course Learning Objectives

Course Learning Outcomes

1. Analyze how water, carbohydrates, lipids, and proteins interact to determine texture, color, flavor, and stability
2. Apply food-chemistry principles to predict and control key reactions
3. Communicate technical findings clearly in writing and orally, using correct chemical terminology, defensible visuals, and audience-appropriate framing for both scientific and lay audiences.

NDFS6570 - Communication Techniques in Dietetics - 3 - Credits

Course Overview

Course Prefix
NDFS

Course Number
6570

Department
Nutrition, Dietetics & Food Sciences

Course Title
Communication Techniques in Dietetics

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers theory and application of effective communication for dietetics professionals. Students learn translation of research for a variety of audiences, effective public speaking, impactful social and print media creation along with business communication for food and nutrition organizations.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Admission to the Master of Dietetics Administration - MDA program

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Increase knowledge in theory and evidence-based communication related to the dietetics profession.
2. Practice written and oral skills in translating and communicating current nutrition information.
3. Develop skills in social and print media related to nutrition and dietetics.

NDFS6580 - Application of Research Principles in Dietetics - 3 - Credits

Course Overview

Course Prefix
NDFS

Course Number
6580

Department
Nutrition, Dietetics & Food Sciences

Course Title
Application of Research Principles in Dietetics

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers principles and application of the nutrition research process including research ethics, study design, data collection, analysis and interpretation, and results dissemination for both qualitative and quantitative research. Students practice oral and written communication of research findings.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Admission to the Master of Dietetics Administration - MDA program or instructor permission

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Increase knowledge in the nutrition research process including research ethics, study design, data collection, data analysis and interpretation, and results dissemination for both qualitative and quantitative research.
2. Gain experience in research article evaluation, review of the literature, proposal writing, survey development, data collection, data analysis and dissemination.
3. Develop skills in communicating research findings orally and in writing.
4. Applies knowledge of math and statistics.

NDFS6600 - Current Topics in Obesity - 3 - Credits

Course Overview

Course Prefix
NDFS

Course Number
6600

Department
Nutrition, Dietetics & Food Sciences

Course Title
Current Topics in Obesity

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers current and emerging topics in obesity research. Students learn how to evaluate scientific papers, ask critical questions, and find research-based answers while becoming familiar with current research and seminal papers in the area of obesity.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Critically evaluate current scientific literature related to obesity, including its causes, consequences, treatment, and prevention, to identify strengths, limitations, and implications for practice.
2. Translate and communicate scientific evidence about obesity to diverse audiences, bridging the gap between research and practical application in public health and nutrition practice.
3. Apply research methods and evidence-based principles to analyze emerging trends and controversies in obesity prevention and management.
4. Synthesize findings from multiple sources to develop informed perspectives on obesity-related policies, treatment approaches, and social influences such as stigma and misinformation.

NDFS6610 - Food and Bioprocess Engineering - 3 - Credits

Course Overview

Course Prefix
NDFS

Course Number
6610

Department
Nutrition, Dietetics & Food Sciences

Cross-Listed Courses
BENG6610 - Food and Bioprocess Engineering

Dual-Listed Courses
NDFS5610 - Food and Bioprocess Engineering

Course Title
Food and Bioprocess Engineering

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers the standardization and compounding of biomaterials and food products, as well as preservation processing using heat, refrigeration, concentration, and dehydration. It also covers basic unit operations in the bioprocessing industry. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Earn a minimum grade of C- in the following:

- BENG3200 - Introduction to Unit Operations in Biological Engineering

Course Learning Objectives

Course Learning Outcomes

1. Gain basic understanding in the principles of Food and Bioprocess Engineering topics
2. Apply such principles to solve related quantitative problems
3. Analyze numerical information relevant to them.

NDFS6620 - Microbiology of Fermented Dairy Foods - 3 - Credits

Course Overview

Course Prefix
NDFS

Course Number
6620

Department
Nutrition, Dietetics & Food Sciences

Course Title
Microbiology of Fermented Dairy Foods

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course explores the microbiology and physiology of dairy starter and nonstarter bacteria. Particular emphasis is placed on important metabolic functions and biochemical pathways used by these microorganisms in food fermentations and their influence on product attributes.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

NDFS6640 - Food Proteins and Enzymes - 3 - Credits

Course Overview

Course Prefix
NDFS

Course Number
6640

Department
Nutrition, Dietetics & Food Sciences

Course Title
Food Proteins and Enzymes

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This graduate-level course covers topics in protein functionality (solubility, foaming, emulsions, gelation) and protein allergens. Students gain an understanding of major food enzymes (hydrolases and isomerases) and the roles of enzymes in food processing and general enzyme kinetics.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

NDFS6660 - Cheese Science - 3 - Credits

Course Overview

Course Prefix
NDFS

Course Number
6660

Department
Nutrition, Dietetics & Food Sciences

Course Title
Cheese Science

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students study the application of chemistry and microbiology to the manufacture of cheese.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Understand the processes that are occurring during cheese manufacture
2. Control cheese making based on your knowledge of the chemical and microbiological processes taking place
3. Apply general cheese making principles to a variety of cheeses

NDFS6680 - Milk Concentration and Fractionation - 3 - Credits

Course Overview

Course Prefix
NDFS

Course Number
6680

Department
Nutrition, Dietetics & Food Sciences

Course Title
Milk Concentration and Fractionation

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers principles and practices of milk concentration using thermal evaporation and fractionation of various milk components using various membrane processing techniques (RO, NF, UF, and MF). It also discusses physico-chemical properties of various concentrated and fractionated milk products.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

NDFS6700 - Dairy Chemistry - 2 - Credits

Course Overview

Course Prefix
NDFS

Course Number
6700

Department
Nutrition, Dietetics & Food Sciences

Course Title
Dairy Chemistry

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students gain an understanding of the chemical structure, properties, biosynthesis, and reactions of the main constituents in milk. Students apply this knowledge to the development and processing of dairy foods.

Credit Hours

Credit Hours Min:
2

Contact Hours

Contact Hours Min:
2

Billing Hours

Billing Hours Min:
2

Lecture Hours

Lecture Hours Min:
2

No Requirements

NDFS6710 - Cereal Science and Technology - 3 - Credits

Course Overview

Course Prefix
NDFS

Course Number
6710

Department
Nutrition, Dietetics & Food Sciences

Dual-Listed Courses
NDFS5710 - Cereal Science and Technology

Course Title
Cereal Science and Technology

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students learn the anatomy of various types of cereal grains and starch chemistry, developing a knowledge of agricultural and processing technologies, including milling, baking, malting, brewing, pasta, and ready-to-eat cereals, and learning industry analytical methods for quality and food safety. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Other Enrollment Recommendations
The student is recommended to have had a life science and a physical science breadth course. No other prerequisites are necessary. Some chemistry and biochemistry is presented in the course, especially the biological polymers, but the student should be able to understand the concepts presented without any previous biochemical background other than the life science breadth course.

Course Learning Objectives

Course Learning Outcomes
Students will gain an understanding of the scientific principles behind cereal grains, technologies, manufacturing, and food safety.

Students will apply knowledge to scenarios regarding quality of grains, technical trouble shooting, and food safety scenarios.

Students will develop key and critical understanding and application of quality and food safety methods used for the analytical evaluation of cereal grains and cereal based products needed by professionals in the field.

Students will be required to research and document findings through technical writing and an evaluation of a hypothesis through the scientific method.

NDFS6760 - Special Topics in Nutrition and Food Science - 1 - 3 Credits

Course Overview

Course Prefix
NDFS

Course Number
6760

Department
Nutrition, Dietetics & Food Sciences

Course Title
Special Topics in Nutrition and Food Science

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Selected topics in nutrition and food science, based on individual faculty interests.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

No Requirements

NDFS6770 - Dietetics Leadership and Management I - 3 - Credits

Course Overview

Course Prefix
NDFS

Course Number
6770

Department
Nutrition, Dietetics & Food Sciences

Course Title
Dietetics Leadership and Management I

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course is the first in a two-part series that encompasses leadership and management principles in all practice areas of dietetics (clinical, food service management, and community). It focuses on personal leadership development and application of organizational management.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Admission to the Master of Dietetics Administration - MDA program

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Apply leadership and management frameworks to analyze workplace practices, identify strengths and weaknesses, and recommend improvements.
2. Demonstrate professional communication skills by completing written assignments and participating in discussions that reflect workplace standards and personal leadership perspectives.

NDFS6780 - Dietetics Leadership and Management II - 3 - Credits

Course Overview

Course Prefix
NDFS

Course Number
6780

Department
Nutrition, Dietetics & Food Sciences

Course Title
Dietetics Leadership and Management II

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course is the second in a two-part series that encompasses leadership and management principles in all practice areas of dietetics (clinical, food service management, and community). It focuses on personal leadership development and application of organizational management.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Admission to the Master of Dietetics Administration - MDA program

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- NDFS6770 - Dietetics Leadership and Management I

Course Learning Objectives

Course Learning Outcomes

1. Apply concepts learned in class to the workplace in analyzing documents and practices, self-evaluation of skills, and case studies.
2. Apply leadership principles within a team, ensuring that ideas, goals, and expectations are clearly articulated and understood.
3. Develop and apply leadership and management principles to effectively lead teams in various areas within dietetics.
4. Develop skills in recognizing biases, assessing consequences, and choosing actions that align with ethical principles.

NDFS6790 - Current Issues in Dietetics - 3 - Credits

Course Overview

Course Prefix
NDFS

Course Number
6790

Department
Nutrition, Dietetics & Food Sciences

Course Title
Current Issues in Dietetics

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course explores topics that are new or emerging in areas of dietetics practice and management. Focus includes current topics in ethics, research and policy development and applying these to dietetics management and practice.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Admission to the MDA degree program

No Requirements

NDFS6800 - Counseling and Motivational Interviewing for Health Professionals - 3 - Credits

Course Overview

Course Prefix
NDFS

Course Number
6800

Department
Nutrition, Dietetics & Food Sciences

Course Title
Counseling and Motivational Interviewing for Health Professionals

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course is designed to provide in-depth counseling and motivational interviewing theories, concepts, and skill development for healthcare professionals. The course relies heavily on practice-based learning opportunities. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Assess motivational interviewing skills used by health professionals.
2. Demonstrate the ability to use counseling and motivational interviewing techniques in practice.
3. Evaluate motivational interviewing skills of self and peers.

NDFS6810 - Social Determinants of Health - 3 - Credits

Course Overview

Course Prefix
NDFS

Course Number
6810

Department
Nutrition, Dietetics & Food Sciences

Course Title
Social Determinants of Health

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students explore various social and economic conditions that influence health and longevity including race, ethnicity, gender, income, education, living conditions, social capital, and others.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Analyze how structural bias and social inequities create and perpetuate health disparities at individual, community, and systemic levels, and propose strategies to promote health equity.
2. Apply systems thinking to illustrate the complex interactions among social, environmental, and behavioral determinants of health
3. Evaluate how cultural values, beliefs, and practices influence health behaviors and outcomes, and apply cultural awareness in critiquing or designing public health programs and policies.

NDFS6850 - Applied Practice Experience in Public Health Nutrition - 3 - 6 Credits

Course Overview

Course Prefix
NDFS

Course Number
6850

Department
Nutrition, Dietetics & Food Sciences

Course Title
Applied Practice Experience in Public Health Nutrition

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course provides instruction and mentorship for Master of Public Health Nutrition (MPH) students during their applied practice experiences (APE).

Credit Hours

Credit Hours Min:
3

Credit Hours Max:
6

Credit Hours Operator:
OR

Contact Hours

Contact Hours Min:
3

Contact Hours Max:
6

Contact Hours Operator:
OR

Billing Hours

Billing Hours Min:
3

Billing Hours Max:
6

Billing Hours Operator:
OR

Lecture Hours

Lecture Hours Min:
3

Lecture Hours Max:
6

Lecture Hours Operator:
OR

Registration Restrictions

Admission to the Master of Public Health: Public Health Nutrition Specialization - MPH program

Course Learning Objectives

Course Learning Outcomes

1. Integrate and apply knowledge and skills from coursework to a practical setting to strengthen public health competencies.

2. Demonstrate competency attainment related to at least five MPH competencies through an applied practice experience.
3. Develop at least two high quality outputs that benefit a public health organization and/or the public.

NDFS6900 - Special Problems - 1 - 4 Credits

Course Overview

Course Prefix
NDFS

Course Number
6900

Department
Nutrition, Dietetics & Food Sciences

Course Title
Special Problems

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Individual problems and research problems for upper-division students in Nutrition and Food Sciences.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
4

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
4

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
4

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
4

Lecture Hours Operator:
TO

No Requirements

NDFS6910 - Teaching Experiences in Nutrition and Food Sciences - 1 - 2 Credits

Course Overview

Course Prefix
NDFS

Course Number
6910

Department
Nutrition, Dietetics & Food Sciences

Course Title
Teaching Experiences in Nutrition and Food Sciences

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Students work with faculty in the Nutrition, Dietetics, and Food Sciences Department to gain experience in teaching.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
2

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
2

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
2

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
2

Lecture Hours Operator:
TO

No Requirements

NDFS6950 - MFSQ Special Problems - 1 - 4 Credits

Course Overview

Course Prefix
NDFS

Course Number
6950

Department
Nutrition, Dietetics & Food Sciences

Course Title
MFSQ Special Problems

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course covers individual problems and research problems for students in the Master of Food Safety and Quality program.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
4

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
4

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
4

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
4

Lecture Hours Operator:
TO

No Requirements

NDFS6960 - MFSQ Capstone - 1 - 4 Credits

Course Overview

Course Prefix
NDFS

Course Number
6960

Department
Nutrition, Dietetics & Food Sciences

Course Title
MFSQ Capstone

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course involves a capstone project for students in the Master of Food Safety and Quality program.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
4

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
4

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
4

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
4

Lecture Hours Operator:
TO

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Apply knowledge from coursework to an industry or regulatory setting to address food safety, food quality, or other food processing issues.

NDFS6970 - Thesis Research - 1 - 12 Credits

Course Overview

Course Prefix
NDFS

Course Number
6970

Department
Nutrition, Dietetics & Food Sciences

Course Title
Thesis Research

Grade Mode
Temporary Pass/Fail

Repeat Status
RP

Course Description
For students working on MS research.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
12

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
12

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
12

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
12

Lecture Hours Operator:
TO

No Requirements

NDFS6980 - MDA Master's Project - 1 - 3 Credits

Course Overview

Course Prefix
NDFS

Course Number
6980

Department
Nutrition, Dietetics & Food Sciences

Course Title
MDA Master's Project

Grade Mode
Temporary Standard Letter

Repeat Status
RP

Course Description
This course includes the development, implementation, and evaluation of an applied dietetics practice project.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
OR

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
OR

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
OR

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
OR

Registration Restrictions
Admission to the Master of Dietetics Administration - MDA program

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Identify and analyze a problem or need within a dietetics-related setting.
2. Develop a comprehensive project proposal that includes a needs assessment, implementation plan, and evaluation strategy appropriate to the identified problem.
3. Create a project proposal and final report in a manner that is consistent with high-quality professional writing. Deliver project outcomes to the organization in a professional manner.
4. Implement a project that addresses a professional or community need, demonstrating application of leadership, management, and problem-solving skills.
5. Collect, analyze, and interpret project data to evaluate outcomes and determine the project's effectiveness and impact.

NDFS6990 - Continuing Graduate Advisement - 1 - 12 Credits

Course Overview

Course Prefix
NDFS

Course Number
6990

Department
Nutrition, Dietetics & Food Sciences

Course Title
Continuing Graduate Advisement

Grade Mode
Temporary Pass/Fail

Repeat Status
RP

Course Description
This course provides graduate students with continued support and advisement. It is usually taken following completion of all coursework required for the degree.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
12

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
12

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
12

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
12

Lecture Hours Operator:
TO

No Requirements

NDFS7800 - Seminar - 1 - Credits

Course Overview

Course Prefix
NDFS

Course Number
7800

Department
Nutrition, Dietetics & Food Sciences

Course Title
Seminar

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Reports and discussion on research and current literature.

Credit Hours

Credit Hours Min:
1

Contact Hours

Contact Hours Min:
1

Billing Hours

Billing Hours Min:
1

Lecture Hours

Lecture Hours Min:
1

No Requirements

NDFS7970 - Dissertation Research - 1 - 12 Credits

Course Overview

Course Prefix
NDFS

Course Number
7970

Department
Nutrition, Dietetics & Food Sciences

Course Title
Dissertation Research

Grade Mode
Temporary Pass/Fail

Repeat Status
RP

Course Description
For students working on PhD research.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
12

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
12

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
12

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
12

Lecture Hours Operator:
TO

No Requirements

NDFS7990 - Continuing Graduate Advisement - 1 - 12 Credits

Course Overview

Course Prefix
NDFS

Course Number
7990

Department
Nutrition, Dietetics & Food Sciences

Course Title
Continuing Graduate Advisement

Grade Mode
Temporary Pass/Fail

Repeat Status
RP

Course Description
This course provides graduate students with continued support and advisement. It is usually taken following completion of all coursework required for the degree.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
12

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
12

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
12

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
12

Lecture Hours Operator:
TO

No Requirements

NEPA6200 - How to Manage the NEPA Process and Write Effective NEPA Documents - 2 - Credits

Course Overview

Course Prefix
NEPA

Course Number
6200

Department
Environment & Society

Course Title
How to Manage the NEPA Process and Write Effective NEPA Documents

Grade Mode
Temporary Standard Letter

Repeat Status
NR

Course Description
Introduction to National Environmental Policy Act (NEPA) and the Council on Environmental Quality regulations. Explores various levels of NEPA documentation and the skills necessary to identify the actions needed for a thorough environmental analysis.

Credit Hours

Credit Hours Min:
2

Contact Hours

Contact Hours Min:
2

Billing Hours

Billing Hours Min:
2

Lecture Hours

Lecture Hours Min:
2

No Requirements

NEPA6210 - Clear Writing for NEPA Specialists - 2 - Credits

Course Overview

Course Prefix
NEPA

Course Number
6210

Department
Environment & Society

Course Title
Clear Writing for NEPA Specialists

Grade Mode
Temporary Standard Letter

Repeat Status
NR

Course Description
Teaches how to identify the writing and editing requirements unique to NEPA documents, including making graphics, writing chapters, and reviewing documents for accuracy.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

No Requirements

NEPA6220 - Reviewing NEPA Documents - 2 - Credits

Course Overview

Course Prefix
NEPA

Course Number
6220

Department
Environment & Society

Course Title
Reviewing NEPA Documents

Grade Mode
Temporary Standard Letter

Repeat Status
NR

Course Description
Focuses on how to review the full range of NEPA documents, including Environmental Impact Statements (EISs), Environmental Assessments (EAs), Findings of No Significant Impacts (FONSIs), and Records of Decisions.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

No Requirements

NEPA6230 - Risk Communication for NEPA Specialists: Strategies and Implementation - 1 - Credits

Course Overview

Course Prefix
NEPA

Course Number
6230

Department
Environment & Society

Course Title
Risk Communication for NEPA Specialists: Strategies and Implementation

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Explains meaning and application of risk communication. Explores full range of response communication, including development of a communication plan and strategy, standing before an audience, and responding to comments in writing.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

No Requirements

NEPA6260 - Cultural and Natural Resource Compliance - 2 - Credits

Course Overview

Course Prefix
NEPA

Course Number
6260

Department
Environment & Society

Course Title
Cultural and Natural Resource Compliance

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Identifies stewardship responsibilities included in major cultural and natural resource laws and regulations, including the Endangered Species Act and National Historic Preservation Act. Surveys cultural and natural resource legal compliance steps, and reviews how to integrate compliance into the agency mission.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

No Requirements

NEPA6310 - NEPA Writing for Technical Specialists - 1 - Credits

Course Overview

Course Prefix
NEPA

Course Number
6310

Department
Environment & Society

Course Title
NEPA Writing for Technical Specialists

Grade Mode
Temporary Standard Letter

Repeat Status
NR

Course Description
Designed to teach students how to use a "document management process" to become more efficient writers of NEPA documents.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

No Requirements

NEPA6320 - NEPA: Cumulative Impacts - 1 - Credits

Course Overview

Course Prefix
NEPA

Course Number
6320

Department
Environment & Society

Course Title
NEPA: Cumulative Impacts

Grade Mode
Temporary Standard Letter

Repeat Status
NR

Course Description
Explores scoping and public involvement strategies leading to sound cumulative impact analysis. Students assess various impact methodologies and learn to record cumulative impact information in ways that support clear, legally sufficient EAs/EISs.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

No Requirements

NEPA6360 - Overview of the Endangered Species Act - 1 - Credits

Course Overview

Course Prefix
NEPA

Course Number
6360

Department
Environment & Society

Course Title
Overview of the Endangered Species Act

Grade Mode
Temporary Standard Letter

Repeat Status
NR

Course Description
Explores history of the Endangered Species Act and various components of the Act. Examines requirements and procedures for complying with the Act.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

No Requirements

NEPA6370 - NEPA Capstone Experience - 1 - Credits

Course Overview

Course Prefix
NEPA

Course Number
6370

Department
Environment & Society

Course Title
NEPA Capstone Experience

Grade Mode
Temporary Standard Letter

Repeat Status
NR

Course Description
Consists of a project, internship, or comprehensive examination to be negotiated by the student, based upon opportunities available at the time and preferences of the student. Helps USU to certify that students receiving the certificate have basic mastery of the material presented in the program coursework.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

No Requirements

NEPA6380 - NEPA Process Management - 1 - Credits

Course Overview

Course Prefix
NEPA

Course Number
6380

Department
Environment & Society

Course Title
NEPA Process Management

Grade Mode
Temporary Standard Letter

Repeat Status
NR

Course Description
Focuses on teaching students to be effective team leaders by understanding how to control the process of project and plan development. Introduces students to various models on time management, project management, team management, and decision-making methods. Students also learn how to frame problems in such a way that they can more clearly identify alternative solutions and develop cause-and-effect models showing how their actions impact resources.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

No Requirements

NEPA6390 - NEPA Climate Change Analysis - 1 - Credits

Course Overview

Course Prefix
NEPA

Course Number
6390

Department
Environment & Society

Course Title
NEPA Climate Change Analysis

Grade Mode
Temporary Standard Letter

Repeat Status
NR

Course Description
Introduction to climate change in the NEPA analysis process. Discussion of science of climate change and impacts in regard to greenhouse gas emissions. Takes into account the effects of climate change on projects, as well as the resources that projects may impact. Students learn to use various methods for analyzing impacts and are exposed to several case studies and court decisions. Also includes guidance on preparation of legally adequate climate change analysis documents.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

No Requirements

NEPA6410 - NEPA Administrative Record and Document Management - 1 - Credits

Course Overview

Course Prefix
NEPA

Course Number
6410

Department
Environment & Society

Course Title
NEPA Administrative Record and Document Management

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students learn what is included in the Administrative Record and how to prepare and index records for litigation during the NEPA process. The course also covers the Federal Advisory Committee Act and the Freedom of Information Act requirements.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Registration Restrictions

Admission to the NEPA Graduate Certificate Program or NEPA Certificate administrator permission

No Requirements

NEPA6420 - Tools for Efficient NEPA - 1 - Credits

Course Overview

Course Prefix
NEPA

Course Number
6420

Department
Environment & Society

Course Title
Tools for Efficient NEPA

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students learn techniques to improve their efficiency in implementing the NEPA process. The course covers a range of best practices, including project management, scoping, decision making, proposal scope and scale definition, adaptive management, interagency coordination processes, and writing.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Registration Restrictions

Admission to the NEPA Graduate Certificate Program or NEPA Certificate administrator permission

No Requirements

NEPA6430 - Environmental Justice for NEPA - 1 - Credits

Course Overview

Course Prefix
NEPA

Course Number
6430

Department
Environment & Society

Course Title
Environmental Justice for NEPA

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students learn what is meant by environmental justice (EJ) and how to address the scope of analysis for EJ in NEPA documents. Students also learn best techniques for mitigating impacts to low-income and minority communities..

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Registration Restrictions

Admission to the NEPA Graduate Certificate Program or NEPA Certificate administrator permission

No Requirements

NEPA6440 - Overview of the Marine Mammal Protection Act - 1 - Credits

Course Overview

Course Prefix
NEPA

Course Number
6440

Department
Environment & Society

Course Title
Overview of the Marine Mammal Protection Act

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This class focuses primarily on the Marine Mammal Protection Act (MMPA), including the goals of the Act and the consultation process. The class also discusses how to incorporate compliance with the MMPA into the NEPA process.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Registration Restrictions

Admission to the NEPA Graduate Certificate Program or NEPA Certificate administrator permission

No Requirements

NR4250 - Natural Resources Capstone Experience for Interdisciplinary Studies and General Studies - 1 - 3 Credits

Course Overview

Course Prefix
NR

Course Number
4250

Department
College of Agriculture & Natural Resources

Course Title
Natural Resources Capstone Experience for Interdisciplinary Studies and General Studies

Grade Mode
Pass/Fail

Repeat Status
NR

Course Description
Designed to synthesize the techniques, tools, and information learned in the individual program of study. Capstone experiences can include internships, service learning opportunities, undergraduate research, or other approved experiences.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

No Requirements

NR4251 - Natural Resources and Environmental Internships Preparation - 1 - Credits

Course Overview

Course Prefix
NR

Course Number
4251

Department
College of Agriculture & Natural Resources

Course Title
Natural Resources and Environmental Internships Preparation

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
This course is the first in a two-part Quinney College of Natural Resources summer internship course series. Course content helps prepare students for a successful internship experience, including goal-setting and other activities.

Credit Hours

Credit Hours Min:
1

Contact Hours

Contact Hours Min:
1

Billing Hours

Billing Hours Min:
1

Lecture Hours

Lecture Hours Min:
1

Special Approval
Instructor Permission

No Requirements

Course Learning Objectives

Course Learning Outcomes
1. Knowledgeable of basic professional expectations of internship supervisors and partner organizations.
2. Able to articulate a set of professional development goals for their internship experience.
3. Equipped to make the most of their experiences to achieve these goals.
4. Prepared to document their internships experiences as part of a professional portfolio.

NR4252 - Natural Resources and Environmental Internship Achievements - 1 - Credits

Course Overview

Course Prefix
NR

Course Number
4252

Department
College of Agriculture & Natural Resources

Course Title
Natural Resources and Environmental Internship Achievements

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course is the second in a two-part Quinney College of Natural Resources summer internship course series. Students reflect on and communicate internship outcomes and achievements in support of professional goals.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Special Approval

Instructor permission

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Articulate the skills, knowledge and professional attitudes gained from their internship experiences orally, as well as in written or poster format.
2. Communicate in writing for resumes and other job application materials their internship responsibilities and achievements.
3. Formulate new goals for professional development and networking.

NR6430 - Natural Resource and Environmental Policy Cornerstone Seminar - 3 - Credits

Course Overview

Course Prefix
NR

Course Number
6430

Department
College of Agriculture & Natural Resources

Course Title
Natural Resource and Environmental Policy Cornerstone Seminar

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Interdisciplinary, team-taught cornerstone course for the Natural Resource and Environmental Policy Graduate Certificate Program. Introduces different disciplinary perspectives for analyzing natural resource and environmental policies and decision-making processes. Helps students understand the role of science in policy-making and how to integrate information from contentious perspectives.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

NR6450 - Natural Resource and Environmental Policy Presentation - 1 - Credits

Course Overview

Course Prefix
NR

Course Number
6450

Department
College of Agriculture & Natural Resources

Course Title
Natural Resource and Environmental Policy Presentation

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
In their last year of graduate school, certificate candidates make a presentation on policy dimensions of thesis or dissertation, as part of this student seminar series. Students receive one semester credit for this presentation. For availability, check with the College of Natural Resources Dean's Office.

Credit Hours

Credit Hours Min:
1

Contact Hours

Contact Hours Min:
1

Billing Hours

Billing Hours Min:
1

Lecture Hours

Lecture Hours Min:
1

No Requirements

NR6500 - Wildlife Ecology and Management for Natural Resource Professionals - 3 - Credits

Course Overview

Course Prefix
NR

Course Number
6500

Department
College of Agriculture & Natural Resources

Course Title
Wildlife Ecology and Management for Natural Resource Professionals

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students integrate wildlife ecology with population and habitat management practices exploring linkages between management and ecological concepts. Science-based management practices demonstrate the importance of incorporating human dimensions, partnerships, and adaptive management into wildlife and habitat conservation practices.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Course Learning Objectives

Course Learning Outcomes
1. Relate modern management techniques for wildlife populations and habitats to the ecological principles on which those techniques are based.
2. Integrate relationship between ecology and management to assist in bridging the gap between research and practice.
3. Incorporate human dimensions, authentic tribal co-management, and partnerships in wildlife management.
4. Integrate adaptive management principles in developing, implementing, and evaluating conservation actions.

NR6510 - Biophysical and Human Dimensions of Ecosystems - 4 - Credits

Course Overview

Course Prefix
NR

Course Number
6510

Department
College of Agriculture & Natural Resources

Course Title
Biophysical and Human Dimensions of Ecosystems

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Intensive two-week course introducing key biophysical and socio-economic concepts through exploration of important concepts central to ecosystem management. Examines how ecosystem management differs from traditional approaches to the management of natural resources.

Credit Hours

Credit Hours
Min:
4

Contact Hours

Contact Hours
Min:
4

Billing Hours

Billing Hours
Min:
4

Lecture Hours

Lecture Hours
Min:
4

Special Approval

Instructor permission

No Requirements

NR6520 - Structure and Function of Ecological and Social Systems - 4 - Credits

Course Overview

Course Prefix
NR

Course Number
6520

Department
College of Agriculture & Natural Resources

Course Title
Structure and Function of Ecological and Social Systems

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Two-week course examining specific processes of landscape development. Establishes the relationship of landscape structure to vegetation and watersheds. Scale and pattern of ecosystems and classification studied at several scales.

Credit Hours

Credit Hours
Min:
4

Contact Hours

Contact Hours
Min:
4

Billing Hours

Billing Hours
Min:
4

Lecture Hours

Lecture Hours
Min:
4

Special Approval

Instructor permission

No Requirements

NR6530 - Integrated Inventory, Analysis, and Assessment of Ecosystems - 4 - Credits

Course Overview

Course Prefix
NR

Course Number
6530

Department
College of Agriculture & Natural Resources

Course Title
Integrated Inventory, Analysis, and Assessment of Ecosystems

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Course participants develop techniques and skills for assessing the biophysical and socio-political environment. Participants gain an understanding of measurement, predicting future conditions, and decision-making techniques in ecosystem management.

Credit Hours

Credit Hours
Min:
4

Contact Hours

Contact Hours
Min:
4

Billing Hours

Billing Hours
Min:
4

Lecture Hours

Lecture Hours
Min:
4

Special Approval

Instructor permission

No Requirements

NR6535 - Leadership for Natural Resources Professionals - 2 - Credits

Course Overview

Course Prefix
NR

Course Number
6535

Department
College of Agriculture & Natural Resources

Course Title
Leadership for Natural Resources Professionals

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Online course for students pursuing the professional Master of Natural Resources (MNR) degree. Primary objective is to develop knowledge of leadership techniques in the context of natural resources management through readings, discussions, and position papers.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

No Requirements

NR6540 - Ecosystem Management Implementation - 4 - Credits

Course Overview

Course Prefix
NR

Course Number
6540

Department
College of Agriculture & Natural Resources

Course Title
Ecosystem Management Implementation

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Participants develop an integrated ecosystem assessment of a landscape unit in a capstone exercise. Assessment conducted with an interdisciplinary team during a two-week period in the field.

Credit Hours

Credit Hours
Min:
4

Contact Hours

Contact Hours
Min:
4

Billing Hours

Billing Hours
Min:
4

Lecture Hours

Lecture Hours
Min:
4

Special Approval

Instructor permission

No Requirements

NR6550 - Intensive Silviculture - 3 - Credits

Course Overview

Course Prefix
NR

Course Number
6550

Department
College of Agriculture & Natural Resources

Course Title
Intensive Silviculture

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Topics for this two-week comprehensive course in silviculture include: stand development and density management; growth and yield; silvicultural systems and reproduction methods; economic evaluation of systems; and relationships between practices and forest health, harvest systems, and forest soils.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

NR6560 - Fire and Fuels Management - 4 - Credits

Course Overview

Course Prefix
NR

Course Number
6560

Department
College of Agriculture & Natural Resources

Course Title
Fire and Fuels Management

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Two-week course evaluating fire and fuels management programs, which incorporate realistically projected changes in vegetation, fuels, and fire behavior over time. Participants inventory fuels and vegetation, predict fire behavior, and predict change in vegetation structure.

Credit Hours

Credit Hours Min:
4

Contact Hours

Contact Hours Min:
4

Billing Hours

Billing Hours Min:
4

Lecture Hours

Lecture Hours Min:
4

No Requirements

NR6570 - Ecological Foundations of Natural Resource Management - 3 - Credits

Course Overview

Course Prefix
NR

Course Number
6570

Department
College of Agriculture & Natural Resources

Course Title
Ecological Foundations of Natural Resource Management

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
The overall aim of this course is to make direct links between principles of ecological theory and applied aspects of natural resource management.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

NR6580 - Data Analysis and Programming for Natural Resource Managers - 3 - Credits

Course Overview

Course Prefix
NR

Course Number
6580

Department
College of Agriculture & Natural Resources

Course Title
Data Analysis and Programming for Natural Resource Managers

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
The purpose of this course is to provide working professionals seeking a master's degree in Natural Resources with an introduction to applied statistics and programming. To achieve this, we will use an open source (freely available) program called 'R'.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Other Enrollment Recommendations
Undergraduate level programming, statistics, and calculus would be helpful, but are not required.

No Requirements

NR6599 - Literature Synthesis and Review for Natural Resource Professionals - 3 - Credits

Course Overview

Course Prefix
NR

Course Number
6599

Department
College of Agriculture & Natural Resources

Course Title
Literature Synthesis and Review for Natural Resource Professionals

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course equips natural resource professionals with the skills to effectively search, evaluate, and synthesize scientific literature, enabling them to create comprehensive reviews and evidence-based recommendations for policy and practice. Enhances students' ability to communicate findings to diverse audiences.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Course Learning Objectives

Course Learning Outcomes
1. Explain the importance of literature synthesis in the context of natural resource management.
2. Critically evaluate the credibility and relevance of different sources and identify potential biases and limitations in existing literature.
3. Integrate findings from various diverse studies to form a cohesive narrative that identifies patterns, trends, and gaps in the literature.
4. Structure a literature review in a clear and logical manner using appropriate citation styles and adhere to academic standards.
5. Apply literature synthesis techniques to address specific real-world issues in natural resource management to assist in developing evidence-based recommendations for policy and practice.
6. Demonstrate effective communication by synthesizing information in a clear and engaging manner and tailoring communication strategies to different audiences, including policymakers, stakeholders, and the general public

NR6600 - Natural Resources Integrative Experience - 1 - 6 Credits

Course Overview

Course Prefix
NR

Course Number
6600

Department
College of Agriculture & Natural Resources

Course Title
Natural Resources Integrative Experience

Grade Mode
Temporary Standard Letter

Repeat Status
RP

Course Description
Under the direction of the student's supervisory committee, student completes an integrative capstone experience in his or her specialty. During their program of study, students not allowed to take this course for more than 6 credits.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
6

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
6

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
6

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
6

Lecture Hours Operator:
TO

No Requirements

NR6805 - Introduction to Geospatial Artificial Intelligence: The Remote Sensing and GeoAI Frontier - 3 - Credits

Course Overview

Course Prefix
NR

Course Number
6805

Department
College of Agriculture & Natural Resources

Cross-Listed Courses
GEOG6805 - Introduction to Geospatial Artificial Intelligence: The Remote Sensing and GeoAI Frontier

Course Title
Introduction to Geospatial Artificial Intelligence: The Remote Sensing and GeoAI Frontier

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces the fundamental concepts of remote sensing and machine learning, providing students with hands-on experience in Python programming. Students learn to automate remote sensing data processing and train traditional machine learning models for practical geospatial artificial intelligence applications.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Other Enrollment Recommendations
GIS and Python experience is strongly recommended.

Course Learning Objectives

Course Learning Outcomes

1. Understanding GeoAI Fundamentals: Define and explain the fundamental concepts of GeoAI, including geospatial data, spatial analysis, and artificial intelligence.
2. Geospatial Data Processing with Python: Utilize Python for geospatial data manipulation and analysis.

3. Apply Python libraries for tasks such as data loading, transformation, and visualization.
4. Integration of Geospatial and AI Technologies: Explore the integration of geospatial technologies with artificial intelligence (GIS, remote sensing, and machine learning).
5. Machine Learning for Geospatial Data: Explore machine learning algorithms applicable to geospatial data. Apply supervised and unsupervised machine learning algorithms to analyze and interpret spatial patterns in geospatial datasets, with a focus on classification techniques.
6. Hands-on Programming Skills:Develop practical programming skills using relevant programming languages and libraries for implementing GeoAI algorithms.

NR6815 - Insights from Above: Processing and Analyzing Drone Data - 1 - Credits

Course Overview

Course Prefix
NR

Course Number
6815

Department
College of Agriculture & Natural Resources

Cross-Listed Courses
GEOG6815 - Insights from Above: Processing and Analyzing Drone Data

Course Title
Insights from Above: Processing and Analyzing Drone Data

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This comprehensive and hands-on course covers basic and advanced techniques for processing drone imagery. Students gain practical skills that can be applied to real-world scenarios in various industries. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

No Requirements

Course Learning Objectives

Course Learning Outcomes
1. Drone imagery: Importance of drone imagery processing in contemporary applications.
2. Basics of drone technology. Camera settings and considerations for optimal image acquisition.
3. Possible hands-on collection exercise.
4. Basic image processing Understanding image file formats and metadata in drone imagery. Introduction to basic image processing techniques: image enhancement, color correction, and filtering.
5. Advanced image processing, corrections, and feature extraction.
6. Image stitching.

7. Georeferencing Techniques Understanding significance of georeferencing: GPS, ground control points, and coordinate systems.
8. Basic Spatial Analysis with Drone Imagery Spatial analysis techniques using georeferenced drone imagery. Identifying and analyzing features in spatially referenced images.

NR6825 - Geospatial Artificial Intelligence, Ethics, & Society - 1 - Credits

Course Overview

Course Prefix
NR

Course Number
6825

Department
College of Agriculture & Natural Resources

Cross-Listed Courses
GEOG6825 - Geospatial Artificial Intelligence, Ethics, & Society

Course Title
Geospatial Artificial Intelligence, Ethics, & Society

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course addresses emerging ethical, security, and privacy issues associated with rapid developments in spatial data technologies, including in geospatial artificial intelligence and remote sensing. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Other Enrollment Recommendations
GEOG6805 INTRODUCTION TO GEO AI or NR6805 INTRODUCTION TO GEO AI

No Requirements

Course Learning Objectives

Course Learning Outcomes
1. Ethical Issues Bias and Fairness, Social Justice, Informed Consent, Ownership and Control.
2. Security Issues Data Breaches, Location-based Attacks, Infrastructure

Vulnerabilities, geospatial metadata exploitation.
3. Privacy Issues Location privacy, De-anonymization risks, Smart City Surveillance, Community Privacy Concerns.

NR6835 - Geovisualization for Remote Sensing Applications - 1 - Credits

Course Overview

Course Prefix
NR

Course Number
6835

Department
College of Agriculture & Natural Resources

Cross-Listed Courses
GEOG6835 - Geovisualization for Remote Sensing Applications

Course Title
Geovisualization for Remote Sensing Applications

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides students with a comprehensive understanding of visualization techniques unique to remote sensing.

Credit Hours

Credit Hours Min:
1

Contact Hours

Contact Hours Min:
1

Billing Hours

Billing Hours Min:
1

Lecture Hours

Lecture Hours Min:
1

Other Enrollment Recommendations
Coursework or applied experience in remote sensing

No Requirements

Course Learning Objectives

Course Learning Outcomes
1. Importance of remote sensing visualizations in various fields.
2. Understanding the role of visualization in interpreting remote sensing data.
3. Introduction to visualization principles and techniques.
4. Image Enhancement Techniques Basic image enhancement techniques for improving the visual quality of remote sensing data. Contrast stretching, histogram equalization, and other enhancement methods.
5. Color Mapping and False Color Composites Principles of color mapping in remote sensing. Creating false color composites and their applications.
6. Multispectral and Hyperspectral Visualization Visualization techniques for

multispectral and hyperspectral remote sensing data. Exploring the spectral characteristics of different materials.
7. LiDAR data visualization and terrain modeling.
8. Time-series Visualization.
9. Thermal Infrared Visualization.

NR6855 - Advanced Geospatial Artificial Intelligence - 3 - Credits

Course Overview

Course Prefix
NR

Course Number
6855

Department
College of Agriculture & Natural Resources

Cross-Listed Courses
GEOG6855 - Advanced Geospatial Artificial Intelligence

Course Title
Advanced Geospatial Artificial Intelligence

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course delves into the deep learning aspect of geospatial artificial intelligence (GeoAI), with strong emphasis on geospatial computer vision. Students gain hands-on experience with PyTorch in order to apply GeoAI principles for extracting valuable information from geospatial data.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Other Enrollment Recommendations
GIS and Python experience is strongly recommended.

Course Learning Objectives

Course Learning Outcomes
1. Understand the principles and applications of deep learning in the context of geospatial data, including convolutional neural networks (CNNs) for image analysis.
2. Integrate remote sensing data with machine learning algorithms for geospatial analysis.
3. Develop models for land cover classification, change detection, and other applications.
4. Discuss real-world applications of GeoAI through case studies, exploring how these technologies are employed in fields such as environmental monitoring, urban planning, and disaster response.

5. Analyze and interpret real-world case studies applying GeoAI to address geospatial challenges.
6. Propose innovative solutions for new applications or problem domains.
7. Gain hands-on experience with industry-standard tools for remote sensing and GeoAI.
8. Develop practical skills relevant to employment in research or industry.
9. Stay informed about current and emerging trends in remote sensing and GeoAI.
10. Discuss potential future developments and their impact on research and industry.

NR6880 - Advanced Remote Sensing & GeoAI Internship - 2 - 3 Credits

Course Overview

Course Prefix
NR

Course Number
6880

Department
College of Agriculture & Natural Resources

Cross-Listed Courses
GEOG6880 - Advanced Remote Sensing & GeoAI Internship

Course Title
Advanced Remote Sensing & GeoAI Internship

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Internships in remote sensing and geospatial artificial intelligence (GeoAI) provide graduate students with work experience applying classroom skills to real-world problem-solving. Students secure the internship opportunity and work with a faculty supervisor to establish student-specific learning objectives.

Credit Hours

Credit Hours Min:
2

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
2

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
2

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
2

Lecture Hours Max:
3

Lecture Hours Operator:
TO

Special Approval
Instructor Permission

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Students will gain hands-on experience using industry standard tools and software while meeting the geospatial demands of our communities.

NR6890 - Advanced Project Design and Implementation for Remote Sensing & GeoAI - 1 - 3 Credits

Course Overview

Course Prefix
NR

Course Number
6890

Department
College of Agriculture & Natural Resources

Cross-Listed Courses

GEOG6890 - Advanced Project Design and Implementation for Remote Sensing & GeoAI

Course Title

Advanced Project Design and Implementation for Remote Sensing & GeoAI

Grade Mode
Standard Letter

Repeat Status
RP

Course Description

This course serves as a culminating experience for the Applied Remote Sensing & GeoAI Post-Baccalaureate Certificate Program. Students plan, implement, and communicate the results of a project that employs remote sensing and geospatial artificial intelligence techniques.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

Special Approval

Instructor Permission

Course Learning Objectives

Course Learning Outcomes

1. Demonstrate the ability to select and apply appropriate remote sensing methods, such as image processing, classification, or change detection, to analyze geospatial data.
2. Demonstrate project management skills by creating a detailed plan, setting milestones, and managing resources effectively.
3. Successfully collect, organize, and preprocess remote sensing data, considering factors such as sensor characteristics, spatial resolution, and data quality.
4. Apply spatial analysis techniques to extract meaningful information from remote sensing data and interpret the findings to address the project's goals.
5. Demonstrate the ability to integrate diverse data types to enhance the comprehensiveness and accuracy of the remote sensing analysis.
6. Exhibit proficiency in using industry-standard remote sensing software and tools for tasks such as image processing, spatial analysis, and visualization.
7. Apply critical thinking skills to identify and overcome obstacles, adapting the analysis as needed to achieve meaningful results.
8. Develop clear and concise project documentation, reports, and presentations that effectively convey the purpose, methods, and results of the remote sensing analysis.
9. Demonstrate awareness of ethical considerations in remote sensing, ensuring responsible and respectful use of geospatial data.
10. Recognize the importance of staying informed about advancements in remote sensing technologies and methodologies, and exhibit adaptability in response to changing project requirements.

NR6900 - Directed Studies - 1 - 3 Credits

Course Overview

Course Prefix
NR

Course Number
6900

Department
College of Agriculture & Natural Resources

Course Title
Directed Studies

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Offers credit for special assignments, readings, seminars, and symposiums beyond regularly scheduled courses.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

No Requirements

NR6910 - Geographic Information Systems for Natural Resource Applications - 3 - Credits

Course Overview

Course Prefix
NR

Course Number
6910

Department
College of Agriculture & Natural Resources

Course Title
Geographic Information Systems for Natural Resource Applications

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course is designed for graduate students who need an introduction to GIS software and applications. Students will learn how to acquire geospatial data from various web sources as well as develop an understanding of how spatial data is created and collected in the field.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes
1. Describe and explain fundamental GIS concepts, spatial data models, and geospatial principles that underlie modern GIS practice.
2. Apply core ArcGIS tools to create, manage, and analyze spatial data to investigate natural resource questions.
3. Analyze and interpret geospatial data by selecting appropriate spatial methods and evaluating patterns, relationships, and scale in place-based contexts.
4. Communicate the results of GIS analyses effectively through maps, visualizations, and concise written explanations tailored to natural resource applications.

NR6920 - Python Programming for GIS - 3 - Credits

Course Overview

Course Prefix
NR

Course Number
6920

Department
College of Agriculture & Natural Resources

Course Title
Python Programming for GIS

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course teaches students the basics of the Python programming language and its use with ArcGIS. Students are also introduced to a few open source Python modules that are useful for working with GIS data.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- NR6910 - Geographic Information Systems for Natural Resource Applications

Course Learning Objectives

Course Learning Outcomes
1. Describe fundamental Python concepts and how scripting supports automation and analysis in GIS workflows.
2. Apply Python to automate common tasks in ArcGIS, including data management

and geoprocessing operations.
3. Create simple GIS tools, scripts, and maps using Python, including custom toolboxes or add-ins for ArcGIS.

NR6930 - Advanced GIS for Natural Resource Applications - 3 - Credits

Course Overview

Course Prefix
NR

Course Number
6930

Department
College of Agriculture & Natural Resources

Course Title
Advanced GIS for Natural Resource Applications

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Builds proficiency in GIS applications to solve spatial problems. Topics include: coordinate systems, morphometric analyses, suitability modeling, DEM construction, model building, cluster and hotspot analyses, complex raster/vector analyses, error analysis to demonstrate data quality limitations and quantify accuracy of results.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Explain and evaluate core theories of GIS to assess the appropriate capabilities and limitations for natural resource applications.
2. Apply and integrate advanced GIS tools and workflows to perform spatial analyses and produce maps that are fit-for-purpose and analytically sound.
3. Independently design and troubleshoot GIS analyses by identifying unfamiliar methods, locating community and technical resources, and iteratively refining workflows.
4. Synthesize and communicate GIS-based findings to address applied or research-driven natural resource questions through clear, accessible maps for both technical and non-technical audiences.

NR6940 - Principles of Remote Sensing of Natural Resources - 3 - Credits

Course Overview

Course Prefix
NR

Course Number
6940

Department
College of Agriculture & Natural Resources

Course Title
Principles of Remote Sensing of Natural Resources

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course is an introduction to the fundamental concepts and basic skills necessary for using remote sensing data, with particular focus on natural-resources data, including vegetation and habitat classification, soil mapping and land use/land cover.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- NR6910 - Geographic Information Systems for Natural Resource Applications

may be taken concurrently

Course Learning Objectives

Course Learning Outcomes

1. To introduce students to Remote Sensing which is a complex subject requiring knowledge of multiple areas to effectively analyze and understand the subject.

NR6950 - Geospatial Analysis for Natural Resource Management - 3 - Credits

Course Overview

Course Prefix
NR

Course Number
6950

Department
College of Agriculture & Natural Resources

Course Title
Geospatial Analysis for Natural Resource Management

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
In this course, students consider what an increasingly democratic GIS might look like. They gain hands-on experience with tools and theories that aim to make GIS a more inclusive technology by working with spatial data in the open-source programming language R.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- NR6910 - Geographic Information Systems for Natural Resource Applications

Course Learning Objectives

Course Learning Outcomes

1. Confidently interpret and manipulate the analytical tools used in geospatial analysis within the context of the powerful software R.
2. Broaden our ability to reason spatially and to formulate efficient coding thought.
3. Learn to create, summarize, interpret, and model spatial data in order solve spatial problems.
4. Improve visualizing skills through static and interactive maps, online dashboards using tmap, leaflet, Shiny.
5. Practice constructing autonomous and highly-technical problem-solving skills in the realm of the geospatial methods.

NR6960 - Python Programming for GIS - 3 - Credits

Course Overview

Course Prefix
NR

Course Number
6960

Department
College of Agriculture & Natural Resources

Course Title
Python Programming for GIS

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course teaches students the basics of the Python programming language and its use with ArcGIS to automate workflows and customize models. Emphasis is placed on scripting for spatial analysis, data management, and natural resource applications.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- NR6910 - Geographic Information Systems for Natural Resource Applications

Course Learning Objectives

Course Learning Outcomes

1. Describe fundamental Python concepts and how scripting supports automation and analysis in GIS workflows.
2. Apply Python to automate common tasks in ArcGIS, including data management and geoprocessing operations.
3. Create simple GIS tools, scripts, and maps using Python, including custom toolboxes or add-ins for ArcGIS.

NSE3910 - National Student Exchange - - 15 Credits

Course Overview

Course Prefix
NSE

Course Number
3910

Department
National Student Exchange (Inactive Code - Do Not Use)

Course Title
National Student Exchange

Grade Mode
National Student Exchange

Repeat Status
NR

Credit Hours

Credit Hours Min:
0

Credit Hours Max:
15

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
0

Contact Hours Max:
15

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
0

Billing Hours Max:
15

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
0

Lecture Hours Max:
15

Lecture Hours Operator:
TO

No Requirements

NURS1010 - Introduction to Nursing - 2 - Credits

Course Overview

Course Prefix
NURS

Course Number
1010

Department
Nursing

Course Title
Introduction to Nursing

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
An introduction to modern nursing with an emphasis on exploring foundations of knowledge, skills and attitudes needed to be successful as a practical nurse.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Registration Restrictions
Admission to the Practical Nursing - Certificate program.

Course Learning Objectives

Course Learning Outcomes
1. Identify basic skills that are the foundation for nursing care: medical terminology, charting, communication, care planning, and assessment.

2. Define the physical, emotional, intellectual, social, and spiritual needs throughout the lifespan.

3. Explain basic principles of the nursing process in the healthcare delivery system.

4. Recognize effective communication techniques.

5. Recognize the legal and ethical responsibilities of the nurse.

6. Recall current health care trends that may influence personal goals and potential growth.

7. Recognize the role of the nurse in promoting health.

NURS1020 - Fundamental Concepts of Nursing - 4 - Credits

Course Overview

Course Prefix
NURS

Course Number
1020

Department
Nursing

Course Title
Fundamental Concepts of Nursing

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
An introduction to the principles of basic nursing concepts, skills, and interventions required to provide safe, holistic care across the lifespan.

Credit Hours

Credit Hours
Min:
4

Contact Hours

Contact Hours
Min:
4

Billing Hours

Billing Hours
Min:
4

Lecture Hours

Lecture Hours
Min:
4

Registration Restrictions
Admission to the Practical Nursing - Certificate program.

Course Learning Objectives

Course Learning Outcomes
1. Explore the concepts of performing nursing skills using the nursing process while developing critical thinking.

2. Determine the physical, emotional, intellectual, social, and spiritual needs throughout the lifespan.

3. Explain the basis of nursing process, considering research evidence, tradition, and care preferences.

4. Practice effective verbal and nonverbal communication techniques in relating to the health care team.

5. Using ethical and legal principles, recognize personal accountability for personal actions as a student nurse.

6. Identify personal goals for learning experiences that allow for optimum development as a student nurse.

7. Identify situations where teaching would assist in achieving optimum health.

8. Identify own behaviors and values that may promote or inhibit nursing care that preserves dignity.

NURS1030 - Fundamental Concepts of Nursing Clinical - 4 - Credits

Course Overview

Course Prefix
NURS

Course Number
1030

Department
Nursing

Course Title
Fundamental Concepts of Nursing Clinical

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Hands on clinical experiences applying the basic nursing concepts, skills and interventions acquired in the fundamentals course.

Credit Hours

Credit Hours
Min:
4

Contact Hours

Contact Hours
Min:
4

Billing Hours

Billing Hours
Min:
4

Lecture Hours

Lecture Hours
Min:
4

Registration Restrictions

Admission to the Practical Nursing - Certificate program

Course Learning Objectives

Course Learning Outcomes

1. Perform basic nursing skills using the nursing process while developing critical thinking.
2. Incorporate basic physical, emotional, intellectual, social, and spiritual needs throughout the lifespan.
3. Provide direct care including basic assessment skills and documentation utilizing a nursing care plan.
4. Practice effective communication in relating to the health care team.
5. Assume personal accountability for nursing practice using basic ethical and legal principles.
6. Assist in teaching to promote optimal health.
7. Incorporate nursing care behaviors and values that preserve dignity.

NURS1042 - Maternal-Newborn Nursing - 1 - Credits

Course Overview

Course Prefix
NURS

Course Number
1042

Department
Nursing

Course Title
Maternal-Newborn Nursing

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Focus on the nursing process as it relates to reproduction with emphasis on providing nursing care for mother, newborn, and family.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Registration Restrictions
Admission to the Practical Nursing - Certificate program.

No Requirements

Course Learning Objectives

Course Learning Outcomes
1. Describe basic nursing skills and critical thinking related to mother, newborn, and family care.
2. Incorporate the physical, emotional, intellectual, social and spiritual dimensions when providing mother, newborn, and family care.
3. Utilize the nursing process to identify needs and appropriate mother, newborn, and family care.
4. Recognize effective communication in relating to interdisciplinary team members.
5. Acknowledge personal accountability for care according to legal and ethical principles.

NURS1110 - Pharmacology - 1 - Credits

Course Overview

Course Prefix
NURS

Course Number
1110

Department
Nursing

Course Title
Pharmacology

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Basic principles of medication administration with emphasis on competency and safe pharmacological treatment.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Registration Restrictions
Admission to the Practical Nursing - Certificate program.

Course Learning Objectives

Course Learning Outcomes
1. Identify the basic actions, indications, side effects, and nursing considerations for common drug classifications.
2. Apply the nursing process in the safe administration of medication.
3. Recognize personal accountability using knowledge of legal and ethical principles related to medication administration.
4. Identify teaching needs related to pharmacological interventions.

NURS1122 - Pediatric Nursing - 1 - Credits

Course Overview

Course Prefix
NURS

Course Number
1122

Department
Nursing

Course Title
Pediatric Nursing

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course focuses on the nursing process as it relates to care throughout the lifespan with an emphasis on basic child health issues.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Registration Restrictions

Admission to the Practical Nursing - Certificate program.

Course Learning Objectives

Course Learning Outcomes

1. Incorporate critical thinking to determine appropriate nursing skills when caring for various age groups and developmental levels.
2. Describe the factors that influence growth and development. Integrate holistic nursing care throughout the lifespan.
3. Use the nursing process to provide safe care as it relates to the family.
4. Employ effective communication in relating to interdisciplinary team members.
5. Describe personal accountability for nursing care according to legal and ethical principles.
6. Reinforce fundamental health teaching including safe practices throughout the lifespan.
7. Identify how to promote respect, compassion, and dignity in family nursing care

NURS1220 - Nursing Process I - 4 - Credits

Course Overview

Course Prefix
NURS

Course Number
1220

Department
Nursing

Course Title
Nursing Process I

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Expands concepts learned in fundamentals course with increased emphasis on professionalism, critical thinking, and the nursing process.

Credit Hours

Credit Hours
Min:
4

Contact Hours

Contact Hours
Min:
4

Billing Hours

Billing Hours
Min:
4

Lecture Hours

Lecture Hours
Min:
4

Registration Restrictions

Admission to the Practical Nursing - Certificate program.

Course Learning Objectives

Course Learning Outcomes

1. Demonstrate novice level critical thinking using case scenarios.
2. Incorporate the physical, emotional, intellectual, social, spiritual, and developmental needs throughout the lifespan.
3. Utilize the basis of nursing process, considering research evidence, tradition, and care preferences.
4. Demonstrate effective verbal and nonverbal communication in relating to the health care team.
5. Apply legal and ethical principles as it relates to personal accountability in nursing practice.
6. Establish personal goals for lifelong learning and optimal professional development.
7. Reinforce teaching that assists in health education and promotion.
8. Demonstrate behaviors and values that promote nursing care and preserve dignity.

NURS1230 - Nursing Process I Clinical - 4 - Credits

Course Overview

Course Prefix
NURS

Course Number
1230

Department
Nursing

Course Title
Nursing Process I Clinical

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Hands on clinical experiences with increased emphasis on developing competency in nursing process, skills, and interventions.

Credit Hours

Credit Hours
Min:
4

Contact Hours

Contact Hours
Min:
4

Billing Hours

Billing Hours
Min:
4

Lecture Hours

Lecture Hours
Min:
4

Registration Restrictions
Admission to the Practical Nursing - Certificate program.

Course Learning Objectives

Course Learning Outcomes
1. Demonstrate competency while performing practical nursing skills using critical thinking.
2. Incorporate holistic principles throughout the lifespan.
3. Provide safe direct care including assessment and documentation utilizing a nursing care plan.
4. Communicate in a clear, concise, and therapeutic manner.
5. Demonstrate personal accountability for nursing practice using ethical and legal principles.
6. Demonstrate a commitment to lifelong learning and professional development.
7. Identify health promotion needs and assist in teaching.
8. Demonstrate respect and caring behaviors within a therapeutic relationship.

NURS1240 - Pharmacology 2 - 1 - Credits

Course Overview

Course Prefix
NURS

Course Number
1240

Department
Nursing

Course Title
Pharmacology 2

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Principles related to holistic application of pharmacological and non-pharmacological care are applied to practice. Emphasis is placed on promoting health and safety.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Registration Restrictions
Admission to the Practical Nursing - Certificate program.

Course Learning Objectives

Course Learning Outcomes
1. Distinguish and interpret the actions, indications, side effects, adverse reactions, nursing considerations, and interactions for drug classifications.
3. Integrate the nursing process in the safe administration of medication.
4. Communicate appropriate medication efficacy to the health care team.
5. Integrate personal accountability using knowledge of legal and ethical principles related to medication administration.
6. Reinforce pharmacological and non-pharmacological teaching.
7. Identify personal behaviors and values that may promote or inhibit nursing care while preserving dignity

NURS2000 - Introduction To Nursing as a Career - 1 - Credits

Course Overview

Course Prefix
NURS

Course Number
2000

Department
Nursing

Course Title
Introduction To Nursing as a Career

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course offers a brief overview of the nursing profession, roles, traits, and core values. Students will explore the basics of patient care, communication, and the healthcare team. Ideal for those considering a career in nursing.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Other Enrollment Recommendations
This course is for students who are interested in exploring nursing as a career.

Course Learning Objectives

Course Learning Outcomes
1. Describe the basic roles and responsibilities of a professional nurse.
2. Explain the core values and ethical principles in nursing practice.
3. Discuss the nurse's role within the healthcare team.
4. Understand the expectations of nursing school.
5. Explore different healthcare paths and work settings.

NURS2020 - Nursing Process II - 5 - Credits

Course Overview

Course Prefix
NURS

Course Number
2020

Department
Nursing

Course Title
Nursing Process II

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Advanced nursing process and skills with emphasis on prioritizing and nursing judgement.

Credit Hours

Credit Hours
Min:
5

Contact Hours

Contact Hours
Min:
5

Billing Hours

Billing Hours
Min:
5

Lecture Hours

Lecture Hours
Min:
5

Registration Restrictions
Admission to the Nursing - AAS program

Course Learning Objectives

Course Learning Outcomes
1. Develop advanced nursing skills and apply creative, critical thinking when making clinical decisions in a variety of settings.
2. Modify holistic nursing care to meet the needs of individuals, families, and communities across the lifespan.
3. Create nursing care plans and determine priorities for the implementation and evaluation of holistic nursing care.
4. Evaluate the effectiveness of verbal and nonverbal communication as a provider and teacher within interdisciplinary teams.
5. Utilize legal and ethical principles to define and guide accountability in nursing practice.
6. Examine individual professional goals and demonstrate responsibility for self-development.
7. Develop teaching plans to promote health specific to developmental stage and knowledge level across the lifespan.
8. Practice being a role model of advocacy in a caring and respectful manner while preserving human dignity.

NURS2030 - Nursing Process II Clinical - 4 - Credits

Course Overview

Course Prefix
NURS

Course Number
2030

Department
Nursing

Course Title
Nursing Process II Clinical

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Hands on nursing experiences applying advanced nursing skills with emphasis on clinical reasoning and evidence-based practice.

Credit Hours

Credit Hours
Min:
4

Contact Hours

Contact Hours
Min:
4

Billing Hours

Billing Hours
Min:
4

Lecture Hours

Lecture Hours
Min:
4

Registration Restrictions

Admission to the Nursing - AAS program

Course Learning Objectives

Course Learning Outcomes

1. Demonstrate advanced nursing skills and apply creative, critical thinking when making clinical decisions in a variety of settings.
2. Anticipate holistic needs while providing nursing care to individuals, families, and communities across the lifespan.
3. Develop and prioritize an individualized plan of care to assure safety and meet outcomes.
4. Implement effective verbal and nonverbal communication as a provider and teacher within interdisciplinary teams.
5. Assume accountability in nursing practice while complying with legal and ethical principles.
6. Create individual professional goals and demonstrate responsibility for self-development.
7. Implement teaching plans to promote health specific to developmental stage and knowledge level across the lifespan.
8. Demonstrate advocacy in a caring and respectful manner while preserving human dignity.

NURS2140 - Advanced Maternal-Newborn Nursing - 1 - Credits

Course Overview

Course Prefix
NURS

Course Number
2140

Department
Nursing

Course Title
Advanced Maternal-Newborn Nursing

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Holistic higher-level critical thinking and problem solving in complex nursing care for mother, newborn, and family.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Registration Restrictions

Admission to the Nursing - AAS program

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Demonstrate nursing skills and critical thinking related to mother, newborn, and family care.
2. Evaluate and incorporate holistic principles when planning care for the mother, newborn, and family.
3. Utilize the nursing process to identify needs and establish priorities when planning mother, newborn and family care.
4. Model effective communication.
5. Model legal and ethical accountability.
6. Plan individualized health education and health promotion.
7. Promote respect, compassion, and dignity in mother, newborn, and family nursing care.

NURS2220 - Manager of Care - 5 - Credits

Course Overview

Course Prefix
NURS

Course Number
2220

Department
Nursing

Course Title
Manager of Care

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Develop nursing leadership and professionalism in complex health alterations throughout the lifespan.

Credit Hours

Credit Hours
Min:
5

Contact Hours

Contact Hours
Min:
5

Billing Hours

Billing Hours
Min:
5

Lecture Hours

Lecture Hours
Min:
5

Registration Restrictions

Admission to the Nursing - AAS program

Simple Requisites

Corequisite

Type
Completion Requirement

Required

Enroll in the following Courses:

- NURS2230 - Manager of Care Clinical

Course Learning Objectives

Course Learning Outcomes

1. Apply creative critical thinking when making complex nursing judgments.
2. Anticipate holistic needs for individuals, families, and communities across the lifespan
3. Analyze actual and potential problems related to safety and quality health care.
4. Develop and prioritize a comprehensive approach to maximize safety and

outcomes.
5. Function as an effective leader and communicator.
6. Analyze and model accountability in nursing practice.
7. Apply legal and ethical principles to issues in healthcare.
8. Promote leadership and professional development through lifelong learning in self and others.
9. Plan appropriate health education and health promotion throughout the lifespan.
10. Employ caring behaviors to protect hope, health, and healing while preserving human dignity.

NURS2230 - Manager of Care Clinical - 4 - Credits

Course Overview

Course Prefix
NURS

Course Number
2230

Department
Nursing

Course Title
Manager of Care Clinical

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Hands on higher level clinical experiences to promote proficiency in nursing care with an emphasis on developing autonomy, management, and leadership.

Credit Hours

Credit Hours
Min:
4

Contact Hours

Contact Hours
Min:
4

Billing Hours

Billing Hours
Min:
4

Lecture Hours

Lecture Hours
Min:
4

Registration Restrictions

Admission to the Nursing - AAS program

Simple Requisites

Corequisite

Type
Corequisite

Required

Enroll in the following Courses:

- NURS2220 - Manager of Care

Course Learning Objectives

Course Learning Outcomes

1. Apply creative, critical thinking when making complex nursing judgments.
2. Apply advanced holistic principles when caring for individuals, families, and communities across the lifespan.

3. Identify and evaluate actual and potential problems related to safety and quality health care in a variety of settings.
4. Develop and prioritize a comprehensive approach to maximize safety and outcomes in a variety of settings.
5. Model effective leadership and communication when collaborating within interdisciplinary teams.
6. Model accountability through legal and ethical behaviors.
7. Exemplify professionalism and be an advocate through leadership in a variety of health care settings.
8. Provide appropriate health education and health promotion in a variety of settings across the lifespan.
9. Employ caring behaviors to protect human dignity.

NURS2240 - Advanced Pediatric Nursing - 1 - Credits

Course Overview

Course Prefix
NURS

Course Number
2240

Department
Nursing

Course Title
Advanced Pediatric Nursing

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Focus on complex child and family nursing care throughout the lifespan.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Registration Restrictions

Admission to the Nursing - AAS program

Course Learning Objectives

Course Learning Outcomes

1. Incorporate critical thinking to when making complex nursing judgments when caring for various age groups and developmental levels.
2. Integrate advanced holistic nursing care throughout the lifespan.
3. Develop and prioritize safe nursing care as it relates to the family.
4. Use effective communication in accordance to functional and developmental level.
5. Apply legal and ethical principles in family nursing.
6. Promote respect, compassion, and dignity in family nursing care.
7. Plan health education including safe practices throughout the lifespan.
8. Serve as a caring and respectful advocate while preserving human dignity.

NURS2250 - Introductory Internship/Co-op - 1 - 5 Credits

Course Overview

Course Prefix
NURS

Course Number
2250

Department
Nursing

Course Title
Introductory Internship/Co-op

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
This course consists of introductory-level educational work experience in an internship or cooperative education position approved by the course instructor.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
5

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
5

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
5

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
5

Lecture Hours Operator:
TO

Special Approval
Instructor permission

No Requirements

NURS2500 - Pathophysiology for Nursing - 3 - Credits

Course Overview

Course Prefix
NURS

Course Number
2500

Department
Nursing

Course Title
Pathophysiology for Nursing

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course focuses on changes in cellular and systemic physiology that occur in human disease and dysfunction. Students Investigate the physiological basis of problems associated with major organ systems and effects upon whole body homeostasis. The course is designed to meet the needs of students preparing for careers in nursing.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- BIOL2320 - Human Anatomy
- BIOL2420 - Human Physiology

Course Learning Objectives

Course Learning Outcomes
1. Describe normal and abnormal physiologic processes associated with common disease processes. |
2. Differentiate normal and abnormal physiological findings and manifestations.

3. Evaluate the relationship between signs and symptoms and pathophysiological processes in the various systems of the human body.
4. Analyze common physiologic stressors and human adaptive and maladaptive responses.
5. Identify the importance of applying pathophysiological principles and concepts in human health and illness

NURS2988 - Special Problems - 1 - 3 Credits

Course Overview

Course Prefix
NURS

Course Number
2988

Department
Nursing

Course Title
Special Problems

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Individual or group work project relevant to nursing knowledge base arranged between a nursing faculty member and the student. Students establish learning objectives and goals, and a credit agreement with the faculty/coordinator at the beginning of the semester. Students then meet periodically with the faculty/coordinator to review progress.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Describe the basic roles and responsibilities of a professional nurse.
2. Explain the core values and ethical principles in nursing practice.
3. Discuss the nurse's role within the healthcare team.
4. Understand the expectations of nursing school.
5. Explore different healthcare paths and work settings.

NURS3000 - Professional Nursing Practice - 2 - Credits

Course Overview

Course Prefix
NURS

Course Number
3000

Department
Nursing

Course Title
Professional Nursing Practice

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students explore the role of baccalaureate professional nurses in today's evolving healthcare environment and appreciate nursing's history. Students examine nursing values, ethics, standards, professional organizations, issues and influence in professional practice, and the impact of lifelong learning on career development.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Registration Restrictions

Admission to the Nursing: RN to BSN - BS (Online Program) (online program)

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Create a personal plan for increasing critical thinking and sound clinical judgment.
2. Explain the significance of a holistic approach to nursing care.
3. Differentiate among the knowledge, skills, and roles of technical and professional nursing practice.
4. Generate assignments that demonstrate communicative, professional writing in correct APA format.
5. Value ethical and legal commitments based on sound nursing values and standards of patient care.
6. Describe factors and trends that have influenced the development of

professional nursing.
7. Discuss how selected nursing theories guide nursing practice.
8. Cultivate caring behaviors through attitudes of empathy and inclusion.

NURS3010 - Nursing Health Assessment, Teaching, & Skills - 2 - Credits

Course Overview

Course Prefix
NURS

Course Number
3010

Department
Nursing

Course Title
Nursing Health Assessment, Teaching, & Skills

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course includes completing a physical, psychosocial, spiritual, and cultural assessment throughout the client's lifespan. By differentiating between normal and abnormal findings, competence develops in performing a complete physical assessment and health history utilizing various techniques, a practice component, and specialized assessments.

Credit Hours

Credit Hours Min:
2

Contact Hours

Contact Hours Min:
2

Billing Hours

Billing Hours Min:
2

Lecture Hours

Lecture Hours Min:
2

Registration Restrictions

Admission to the Nursing - BSN program

Course Learning Objectives

Course Learning Outcomes

1. Begin to demonstrate the ability to incorporate EBP and nursing judgment into the care of adult patients.
2. Begin to incorporate holistic principles while caring for adult patients across the lifespan
3. Establish priorities and ensure safe, quality care while utilizing the nursing process in the care of adult patients.
4. Begin to model effective communication and leadership when collaborating within interdisciplinary teams.
5. Model accountability in nursing practice while adhering to legal and ethical principles when working with adult patients.
6. Incorporate advocacy skills in the care of the adult patient.

7.Implement teaching plans and health promotion in the care of adult patients.
8. Serve as a caring and respectful advocate for the adult patient in promoting hope, health, and healing.

NURS3020 - Fundamentals of Nursing - 2 - Credits

Course Overview

Course Prefix
NURS

Course Number
3020

Department
Nursing

Course Title
Fundamentals of Nursing

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course builds a theoretical basis for nursing skills, medical terminology, medication calculation, nursing process, health promotion, and interprofessional communication related to holistic care of diverse people.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Registration Restrictions

Admission to the Nursing - BSN program

Simple Requisites

Corequisite

Type
Corequisite

Required

Enroll in the following Courses:

- NURS3025 - Fundamentals of Nursing Practicum

Course Learning Objectives

Course Learning Outcomes

1. Begin to use critical thinking in the provision of nursing care and skills.
2. Determine physical, emotional, intellectual, social, and spiritual needs across the lifespan.
3. Explain the nursing process.
4. Recognize effective verbal and nonverbal communication techniques in relating to the healthcare team.
5. Recognize the legal and ethical responsibilities of the nurse.
6. Describe professional nursing behaviors, attitudes, and values.
7. Describe best practices in patient education and health promotion.
8. Recognize the need for respect and caring to promote hope, health, and healing while preserving dignity.

NURS3025 - Fundamentals of Nursing Practicum - 2 - Credits

Course Overview

Course Prefix
NURS

Course Number
3025

Department
Nursing

Course Title
Fundamentals of Nursing Practicum

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students apply and practice nursing skills, medical terminology, medication calculation, nursing process, health promotion, and interprofessional communication related to holistic care of diverse people. Interprofessional communication focuses on person-centered care planning and documentation using electronic medical records.

Credit Hours

Credit Hours Min:
2

Contact Hours

Contact Hours Min:
2

Billing Hours

Billing Hours Min:
2

Lecture Hours

Lecture Hours Min:
2

Registration Restrictions
Admission to the Nursing - BSN program

Simple Requisites

Corequisite

Type
Corequisite

Required

Enroll in the following Courses:

- NURS3020 - Fundamentals of Nursing

Course Learning Objectives

Course Learning Outcomes

1. Begin to use critical thinking in the provision of nursing care and skills.
2. Determine physical, emotional, intellectual, social, and spiritual needs across the lifespan.
3. Begin to use the nursing process.
4. Use effective verbal and nonverbal communication techniques in relating to the healthcare team.
5. Recognize the legal and ethical responsibilities of the nurse.
6. Begin to demonstrate professional nursing behaviors, attitudes, and values.
7. Begin to use best practices in patient education and health promotion.
8. Recognize the need for respect and caring to promote hope, health, and healing while preserving dignity.

NURS3030 - Nursing Management of Care I - 4 - Credits

Course Overview

Course Prefix
NURS

Course Number
3030

Department
Nursing

Course Title
Nursing Management of Care I

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students learn the nursing care of adult clients with a focus on wellness, restoring health, and end-of-life care. The course enhances critical thinking and communication knowledge and skills necessary to provide holistic, person-centered care for diverse clients in various settings.

Credit Hours

Credit Hours
Min:
4

Contact Hours

Contact Hours
Min:
4

Billing Hours

Billing Hours
Min:
4

Lecture Hours

Lecture Hours
Min:
4

Registration Restrictions

Admission to the Nursing - BSN program

Simple Requisites

Corequisite

Type
Corequisite

Required

Enroll in the following Courses:

- NURS3035 - Nursing Management of Care I Practicum

Course Learning Objectives

Course Learning Outcomes

1.Begin to demonstrate the ability to incorporate EBP and nursing judgment into the care of adult patients.
2. Begin to incorporate holistic principles while caring for adult patients across the lifespan.
3. Establish priorities and ensure safe, quality care while utilizing the nursing process and patient care technologies in the care of adult patients.
4. Begin to model effective communication when collaborating within interdisciplinary teams.
5. Model accountability in nursing practice while adhering to legal and ethical principles when working with adult patients.
6. Incorporate advocacy skills in the care of adult patient.
7. Implement teaching plans and health promotion in the care of adult patients.
8. Serve as a caring and respectful advocate for the adult patient in promoting hope, health, and healing

NURS3035 - Nursing Management of Care I Practicum - 3 - Credits

Course Overview

Course Prefix
NURS

Course Number
3035

Department
Nursing

Course Title

Nursing Management of Care I Practicum

Grade Mode
Standard Letter

Repeat Status
NR

Course Description

Students learn the application and practice of nursing skills, medical terminology, medication calculation, nursing process, health promotion, and interprofessional communication related to holistic care of diverse people. Interprofessional communication focuses on person-centered care planning and documentation using electronic medical records.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Registration Restrictions

Admission to the Nursing - BSN program

Simple Requisites

Corequisite

Type
Corequisite

Required

Enroll in the following Courses:

- NURS3030 - Nursing Management of Care I

Course Learning Objectives

Course Learning Outcomes

1. Begin to use critical thinking in the provision of nursing care and skills.
2. Determine physical, emotional, intellectual, social, and spiritual needs across the lifespan.
3. Begin to use the nursing process.
4. Use effective verbal and nonverbal communication techniques in relating to the healthcare team.
5. Recognize the legal and ethical responsibilities of the nurse.
6. Begin to demonstrate professional nursing behaviors, attitudes, and values.
7. Begin to use best practices in patient education and health promotion.
8. Recognize the need for respect and caring to promote hope, health, and healing while preserving dignity

NURS3040 - Pharmacology in Health Care - 3 - Credits

Course Overview

Course Prefix
NURS

Course Number
3040

Department
Nursing

Course Title
Pharmacology in Health Care

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course teaches pharmacologic principles and concepts related to nursing care of adult clients focusing on wellness, restoration of health, and end-of-life care. Students learn critical thinking and communication skills to provide holistic, person-centered pharmacological therapies for diverse clients in various settings.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Admission to the Nursing - BSN program

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Apply evidence, critical thinking, and sound judgment in determining the effective use of common medications and integrative therapies.
2. Incorporate holistic principles in providing pharmacological therapies.
3. Identify safety issues in administering commonly used medications.
4. Use communication effectively in reporting medication risks.
5. Describe the legal and ethical principles related to medication administration.
6. Be an advocate for the promotion of patient values and preferences in the provision of pharmacological therapies.
7. Identify a need for health risk education related to medication and form a

teaching plan to reduce risk.
8. Serve as a caring and respectful advocate for patients in the provision of pharmacological therapies.

NURS3200 - Psychiatric Mental Health Nursing - 3 - Credits

Course Overview

Course Prefix
NURS

Course Number
3200

Department
Nursing

Course Title
Psychiatric Mental Health Nursing

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course focuses on conducting psychiatric assessments for specific disorders. Students develop competence in differentiating normal and abnormal mental health findings through therapeutic techniques and evidence-based interventions. Having knowledge of psychiatric mental health benefits every nurse.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Admission to the Nursing - BSN program

Course Learning Objectives

Course Learning Outcomes

1. Understand the biological, psychological, and social factors that contribute to mental health disorders.
2. Provide holistic, patient-centered mental health care.
3. Identify and implement evidence-based interventions for psychiatric disorders, including medication management and psychotherapy approaches.
4. Develop therapeutic communication skills to support patients with mental health challenges.
5. Recognize the legal and ethical considerations in psychiatric nursing.
6. Advocate for the rights and needs of individuals with mental health disorders.
7. Educate patients, families, and communities about mental health, coping strategies, and resources to promote well-being across the lifespan.
8. Promote dignity, cultural sensitivity, and compassionate care for individuals experiencing mental health challenges.

NURS3210 - Population Health and Prevention (CI) - 3 - Credits

Course Overview

Course Prefix
NURS

Course Number
3210

Department
Nursing

Course Title
Population Health and Prevention (CI)

General Education Attribute
CI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description

This Community-Engaged Learning course provides theory and evidence to improve health and life quality of populations within communities. Students focus on community assessment, epidemiology, finance, health education, environmental health, health policy, and legislation.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Admission to the Nursing - BSN program or the Nursing: RN to BSN - BS (Online Program) (online program)

Simple Requisites

Corequisite

Type
Corequisite

Required

Enroll in the following Courses:

- NURS3215 - Population Health and Prevention Practicum

Course Learning Objectives

Course Learning Outcomes

1. Apply evidence, critical thinking, and sound judgment in determining the needs and appropriate health interventions for a population. 2. Incorporate holistic principles during the provision of population health interventions at the local, national, and global level.
3. Identify common population safety issues and describe the resources available to mitigate those issues.
4. Demonstrate effective written and oral communication for the assessment, evaluation, and recommendations for population health issues and include the use of technology to enhance both the acquisition and dissemination of information.
5. Describe the legal and ethical principles related to population health.
6. Describe the roles and responsibilities of a BSN-prepared nurse as they relate to health policy, laws, and interventions. Prepare a health policy statement directed towards a local, state, or federal lawmaker promoting a position on a population health issue.
7. Identify and apply the levels of prevention to improve health outcomes of diverse populations.
8. Balance the needs and values of the individual during the provision of population health interventions.

NURS3215 - Population Health and Prevention Practicum - 2 - Credits

Course Overview

Course Prefix
NURS

Course Number
3215

Department
Nursing

Course Title
Population Health and Prevention Practicum

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students learn to apply theory and evidence for improved health and life quality of populations within communities. Students focus on community assessment, epidemiology, finance, health education, environmental health, health policy, and legislation and are integrated into the role of the health care leader.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Registration Restrictions
Admission to the Nursing - BSN program or the Nursing: RN to BSN - BS (Online Program).

Simple Requisites

Corequisite

Type
Corequisite

Required

Enroll in the following Courses:

- NURS3210 - Population Health and Prevention (CI)

Course Learning Objectives

Course Learning Outcomes
1. Apply evidence, critical thinking, and sound judgment in determining the needs and appropriate health interventions for a population. 2. Incorporate holistic principles during the provision of population health interventions at the local, national, and global level.
3. Identify common population safety issues and describe the resources available to mitigate those issues.
4. Demonstrate effective written and oral communication for the assessment, evaluation, and recommendations for population health issues and include the use of technology to enhance both the acquisition and dissemination of information.
5. Describe the legal and ethical principles related to population health.
6. Describe the roles and responsibilities of a BSN-prepared nurse as they relate to health policy, laws, and interventions. Prepare a health policy statement directed towards a local, state, or federal lawmaker promoting a position on a population health issue.
7. Identify and apply the levels of prevention to improve health outcomes of diverse populations.
8. Balance the needs and values of the individual during the provision of population health interventions.

NURS3220 - Family Nursing through the Lifespan - 4 - Credits

Course Overview

Course Prefix
NURS

Course Number
3220

Department
Nursing

Course Title
Family Nursing through the Lifespan

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students explore theoretical and evidence-based perspectives of care that promote the health of families, women in the reproductive years, newborns, and children in a variety of settings.

Credit Hours

Credit Hours
Min:
4

Contact Hours

Contact Hours
Min:
4

Billing Hours

Billing Hours
Min:
4

Lecture Hours

Lecture Hours
Min:
4

Registration Restrictions
Admission to the Nursing - BSN program

Course Learning Objectives

Course Learning Outcomes
1. Demonstrate the ability to incorporate evidence-based practice and nursing judgment into the care of patients across the lifespan. 2. Develop holistic principles while caring for patients and their families across the lifespan.
3. Establish priorities and ensure safe, quality care while utilizing the nursing process and patient care technologies in the care of patients across the lifespan. 4. Model effective communication when collaborating within interdisciplinary teams in the nursing care of patients and families across the lifespan.
5. Model accountability in nursing practice while adhering to legal and ethical principles when caring for patients across the lifespan. 6. Incorporate leadership and advocacy skills in the care of patients across the lifespan.
7. Implement teaching plans and health promotion in the care of patients and families across the lifespan.
8. Serve as a caring and respectful advocate in promoting hope, health, and healing in patients across the lifespan, while preserving human dignity.

NURS3225 - Family Nursing through the Lifespan Practicum - 2 - Credits

Course Overview

Course Prefix
NURS

Course Number
3225

Department
Nursing

Course Title
Family Nursing through the Lifespan Practicum

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Simulation, lab, and hospital clinical assignments are supported by evidence-based practice. Students learn the practical application of evidence-based, holistic nursing care for families, women in the reproductive years, newborns, and children in a variety of settings.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Registration Restrictions
Admission to the Nursing - BSN program

Simple Requisites

Corequisite

Type
Corequisite

Required

Enroll in the following Courses:
- NURS3220 - Family Nursing through the Lifespan

Course Learning Objectives

Course Learning Outcomes

1. Demonstrate the ability to incorporate evidence-based practice and nursing judgment into the care of patients across the lifespan. 2. Develop holistic principles while caring for patients and their families across the lifespan.
3. Establish priorities and ensure safe, quality care while utilizing the nursing process and patient care technologies in the care of patients across the lifespan.
4. Model effective communication when collaborating within interdisciplinary teams in the nursing care of patients and families across the lifespan.
5. Model accountability in nursing practice while adhering to legal and ethical principles when caring for patients across the lifespan. 6. Incorporate leadership and advocacy skills in the care of patients across the lifespan.
7. Implement teaching plans and health promotion in the care of patients and families across the lifespan.
8. Serve as a caring and respectful advocate in promoting hope, health, and healing in patients across the lifespan, while preserving human dignity.

NURS3230 - Evidence-Based Health Care (QI) - 3 - Credits

Course Overview

Course Prefix
NURS

Course Number
3230

Department
Nursing

Course Title
Evidence-Based Health Care (QI)

General Education Attribute
QI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description

This course explores the foundations of evidence-based research and develops basic competence in understanding the research process. Students will critically analyze research studies, judge study merit, and application to clinical practice, emphasizing relationships between research and practice of professional nursing.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Admission to the Nursing - BSN program or the Nursing: RN to BSN - BS (Online Program) (online program)

Course Learning Objectives

Course Learning Outcomes

1. Develop the ability to incorporate evidence-based practice, research and nursing judgment into client care.
2. Advocate for the protection of human subjects in research and incorporate holistic principles while applying research and evidence-based practice in client care.
3. Develop a culture of safety while applying research and evidence-based practice in client care.
4. Employ information technology to communicate, manage knowledge, mitigate error and support research and evidence-based practice in client care.
5. Maximize accountability in nursing practice while adhering to legal and ethical principles when applying evidence-based care and research in client care.
6. Appraise leadership and advocacy skills in client care. Support patient

decision–making and use research and evidence-based practice to help patients be well informed with their decision-making.
7. Use evidence-based practice and research for health promotion, and disease prevention in client care.
8. Integrate evidence, clinical judgment, interprofessional perspectives and patient preferences in planning, implementing and evaluating outcomes of respectful care.

NURS3240 - Health Information Management and Technology - 2 - Credits

Course Overview

Course Prefix
NURS

Course Number
3240

Department
Nursing

Course Title
Health Information Management and Technology

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students learn to use health informatics principles to transform data and information into knowledge to assure safe care. The course includes emerging informatics tools for practice, administration, research, education, quality improvement, and for health throughout the lifespan.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Registration Restrictions
Admission to the Nursing - BSN program or the Nursing: RN to BSN - BS (Online Program) (online program)

Course Learning Objectives

Course Learning Outcomes

1. Use effective data, information, and knowledge technologies to support clinical decision-making.
2. Use holistic principles while caring for individuals, families, and communities across the lifespan.
3. Evaluate the usefulness of health information technologies in promoting safe nursing practice and improving patient outcomes.
4. Use current information systems to ensure the quality of the health care record and the reporting of health information.
5. Identify ethical and legal issues that arise in using, designing, and managing health care information systems.

6. Begin to apply leadership skills in advocating for the use of patient care technologies for safe, quality care.
7. Develop teaching plans using selected computer applications.
8. Recognize the need for respect and caring to promote hope, health, and healing while preserving dignity

NURS3250 - Emergency Nursing - 3 - Credits

Course Overview

Course Prefix
NURS

Course Number
3250

Department
Nursing

Course Title
Emergency Nursing

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students explore the initial assessment and treatment of non-traumatic and traumatic illnesses and injuries as well as mass casualty and disaster preparedness. Students examine various roles, responsibilities, legal, and ethical regulations inherent to emergency nursing.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Admission to the Nursing - AAS or Nursing - BSN programs, or the Nursing: RN to BSN - BS (Online Program) (online program)

No Requirements

NURS3300 - Advanced Health Assessment and Promotion - 2 - Credits

Course Overview

Course Prefix
NURS

Course Number
3300

Department
Nursing

Course Title
Advanced Health Assessment and Promotion

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course further develops health assessment in diverse adult and aging patients with complex medical conditions. The nursing process helps students develop assessment skills that expand clinical decision-making with an emphasis on primary and secondary prevention strategies.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Registration Restrictions

Admission to the Nursing: RN to BSN - BS (Online Program) (online program)

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- NURS3000 - Professional Nursing Practice

may be taken concurrently

Course Learning Objectives

Course Learning Outcomes

1. Identify normal, variations of normal, and abnormal assessment findings. Apply comprehensive and focused health assessment findings to clinical
decision-making
.
2. Demonstrate appropriate techniques to conduct a holistic health assessment of adult and aging patients. Evaluate variations in health assessment strategies for patients who have diverse needs and characteristics.
3. Include health assessment as part of the nursing process in order to manage health outcomes and ensure patient
safety.
4. Model effective interpersonal and interprofessional communication in interactions with patients, colleagues, and the health care
team.
5. Analyze ethical and legal principles that apply to health assessment.
6. Incorporate leadership and advocacy skills in the health assessment of adults and aging
patients.
7. Use health assessment techniques to determine and manage patient needs for health teaching and health
promotion.
8. Serve as a caring and respectful advocate for adult and aging patients in promoting hope, health, and healing.

NURS4010 - Leadership, Management, and Policy in Health Care (CI) - 3 - Credits

Course Overview

Course Prefix
NURS

Course Number
4010

Department
Nursing

Course Title
Leadership, Management, and Policy in Health Care (CI)

General Education Attribute
CI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students learn evidence-based knowledge of leadership and management theories and concepts to prepare professional nurses to function in a variety of health care settings. It emphasizes ethics, finance, health outcomes, organizational theory, personal career development, role transition, quality, and values.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Registration Restrictions
Admission to the Nursing - BSN program or the Nursing: RN to BSN - BS (Online Program) (online program)

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- NURS3230 - Evidence-Based Health Care (QI)

Course Learning Objectives

Course Learning Outcomes

1. Apply leadership concepts, skills, and decision-making in the provision of high-quality nursing care, health care team coordination, and oversight and accountability for care delivery in a variety of settings.
2. Incorporate holistic concepts into nursing leadership and management: human resources, cost-effectiveness, policy, power, motivation, decision-making, quality improvement, and change.
3. Utilize concepts from leadership and management theories and the nursing process to ensure safe, quality care of clients and client systems.
4. Use effective communication techniques, negotiation, conflict resolution, team building and collaborative strategies to produce positive working relationships.
5. Utilize knowledge of legal and ethical issues affecting nurse leaders and managers within a health care system.
6. Discuss and apply theories of leadership and management.
7. Provide leadership for education, health promotion, and disease prevention efforts in a variety of settings.
8. Apply caring and respectful advocacy to the role of nurse leader and manager.

NURS4015 - Leadership, Management, and Policy in Health Care Practicum - 2 - Credits

Course Overview

Course Prefix
NURS

Course Number
4015

Department
Nursing

Course Title
Leadership, Management, and Policy in Health Care Practicum

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students practice leadership and management theories and concepts in the clinical environment and simulation lab. Discussions focus on the plan and preparation to enter the nursing profession.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Registration Restrictions
Admission to the Nursing - BSN program

Simple Requisites

Corequisite

Type
Corequisite

Required

Enroll in the following Courses:

- NURS4010 - Leadership, Management, and Policy in Health Care (CI)

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- NURS3230 - Evidence-Based Health Care (QI)

NURS4020 - Nursing Management of Care II - 4 - Credits

Course Overview

Course Prefix
NURS

Course Number
4020

Department
Nursing

Course Title
Nursing Management of Care II

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course incorporates evidence-based practice to explore foundational concepts in critical care nursing within acute care settings. Students learn critical thinking, holism, the nursing process, safety, communication, ethics, advocacy, leadership, respectful care, health promotion, and patient and family teaching.

Credit Hours

Credit Hours
Min:
4

Contact Hours

Contact Hours
Min:
4

Billing Hours

Billing Hours
Min:
4

Lecture Hours

Lecture Hours
Min:
4

Registration Restrictions

Admission to the Nursing - BSN program

Simple Requisites

Corequisite

Type
Corequisite

Required

Enroll in the following Courses:

- NURS4025 - Nursing Management of Care II Practicum

Course Learning Objectives

Course Learning Outcomes

1. Develop the ability to incorporate evidence-based practice and nursing judgment into high-acuity patient care.
2. Incorporate holistic principles while caring for high-acuity patients and their families.
3. Develop a culture of safety in practice utilizing the nursing process with high-acuity patients.
4. Employ information technology to communicate, manage knowledge, mitigate error and support decision-making in patient care. Apply effective communication and leadership with interprofessional collaboration in high-acuity patient care.
5. Maximize accountability in nursing practice while adhering to legal and ethical principles when working with patients and their families.
6. Appraise leadership and advocacy skills in patient care. Support patient decision–making.
7. Develop, implement, and evaluate teaching, health promotion, and disease prevention in patient care.
8. Serve as a caring and respectful advocate for patients in promoting hope, health, and healing across patient populations.

NURS4025 - Nursing Management of Care II Practicum - 4 - Credits

Course Overview

Course Prefix
NURS

Course Number
4025

Department
Nursing

Course Title
Nursing Management of Care II Practicum

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course incorporates simulation, lab, and hospital clinical assignments. The course uses evidence-based practice as it explores the foundations of critical care nursing, cognition alterations, and acute and chronic problems in acute care settings.

Credit Hours

Credit Hours Min:
4

Contact Hours

Contact Hours Min:
4

Billing Hours

Billing Hours Min:
4

Lecture Hours

Lecture Hours Min:
4

Registration Restrictions
Admission to the Nursing - BSN program

Simple Requisites

Corequisite

Type
Corequisite

Required

Enroll in the following Courses:

- NURS4020 - Nursing Management of Care II

Course Learning Objectives

Course Learning Outcomes

1. Develop the ability to incorporate evidence-based practice and nursing judgment into high-acuity patient care.
2. Incorporate holistic principles while caring for high-acuity patients and their families.
3. Develop a culture of safety in practice utilizing the nursing process with high-acuity patients.
4. Employ information technology to communicate, manage knowledge, mitigate error and support decision-making in patient care. Apply effective communication and leadership with interprofessional collaboration in high-acuity patient care.
5. Maximize accountability in nursing practice while adhering to legal and ethical principles when working with patients and their families.
6. Appraise leadership and advocacy skills in patient care. Support patient decision–making.
7. Develop, implement, and evaluate teaching, health promotion, and disease prevention in patient care.
8. Serve as a caring and respectful advocate for patients in promoting hope, health, and healing across patient populations.

NURS4100 - Nursing Care of Aging Adults - 2 - Credits

Course Overview

Course Prefix
NURS

Course Number
4100

Department
Nursing

Course Title
Nursing Care of Aging Adults

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course focuses on the unique health needs of aging adults, emphasizing healthy aging, teaching/learning, and chronic diseases. Course content includes developmental, physiological, and psychosocial changes in aging adults in regard to health promotion, maintenance, and restoration.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Registration Restrictions

Admission to the Nursing: RN to BSN - BS (Online Program) (online program)

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- NURS3000 - Professional Nursing Practice

may be taken concurrently

Course Learning Objectives

Course Learning Outcomes

1. Implement evidence-based strategies and guidelines to manage the care of aging adult patients.
2. Incorporate holistic principles while caring for aging adult patients.
3. Establish priorities and ensure safe, quality care while utilizing the nursing process in the care of aging adult patients.
4. Model effective communication and leadership when collaborating within interdisciplinary teams in the care of aging adult patients.
5. Identify personal biases in order to develop the best professional attitudes and values in the provision of person-centered care for aging adults and their families.
6. Apply knowledge of health care policy and regulatory processes as determinants of health status in aging adult patients.
7. Identify and discuss methods of holistic education and health promotion for common physical, mental, and functional conditions of aging adult patients.
8. Serve as a caring and respectful advocate for aging adult patients in promoting hope, health, and healing.

NURS4210 - Nursing Capstone - 2 - Credits

Course Overview

Course Prefix
NURS

Course Number
4210

Department
Nursing

Course Title
Nursing Capstone

Grade Mode
Standard Letter

Repeat Status
NR

Course Description

This final capstone course is designed to provide the baccalaureate nursing student with experience to reflect on cognitive and affective skills and to integrate critical thinking, reasoning, and judgment into professional practice.

Credit Hours

Credit Hours Min:
2

Contact Hours

Contact Hours Min:
2

Billing Hours

Billing Hours Min:
2

Lecture Hours

Lecture Hours Min:
2

Registration Restrictions

Admission to the Nursing - BSN program or the Nursing: RN to BSN - BS (Online Program) (online program)

Simple Requisites

Corequisite

Type
Corequisite

Required

Complete ALL of the following Courses:

- NURS4215 - Nursing Capstone Practicum

Course Learning Objectives

Course Learning Outcomes

1. Apply creative, critical thinking when making complex nursing judgments.

2. Apply advanced holistic principles in client care.
3. Identify and evaluate actual and potential problems related to safety and quality health care.
4. Model interpersonal and interprofessional communication. Prepare for entry into professional practice with resume, cover letter, and interviewing skills.
5. Model accountability through legal and ethical behaviors.
6. Exemplify professionalism and be an advocate through leadership in a variety of health care settings.
7. Provide appropriate health education and health promotion in a variety of settings across the lifespan.
8. Employ caring behaviors to promote human dignity, hope, health, and healing.

NURS4215 - Nursing Capstone Practicum - 4 - Credits

Course Overview

Course Prefix
NURS

Course Number
4215

Department
Nursing

Course Title
Nursing Capstone Practicum

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This final capstone course is designed to provide the baccalaureate nursing student with experience to reflect on cognitive and affective skills and to integrate critical thinking, reasoning, and judgment into professional practice.

Credit Hours

Credit Hours
Min:
4

Contact Hours

Contact Hours
Min:
4

Billing Hours

Billing Hours
Min:
4

Lecture Hours

Lecture Hours
Min:
4

Registration Restrictions

Admission to the Nursing - BSN program or the Nursing: RN to BSN - BS (Online Program) (online program)

Course Learning Objectives

Course Learning Outcomes

1. Apply creative, critical thinking when making complex nursing judgments.
2. Apply advanced holistic principles in client care.
3. Identify and evaluate actual and potential problems related to safety and quality health care.
4. Model interpersonal and interprofessional communication. Prepare for entry into professional practice with resume, cover letter, and interviewing skills.
5. Model accountability through legal and ethical behaviors.
6. Exemplify professionalism and be an advocate through leadership in a variety of health care settings.

7. Provide appropriate health education and health promotion in a variety of settings across the lifespan.
8. Employ caring behaviors to promote human dignity, hope, health, and healing.

NURS4250 - Advanced Internship/Co-op - 1 - 5 Credits

Course Overview

Course Prefix
NURS

Course Number
4250

Department
Nursing

Course Title
Advanced Internship/Co-op

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
This course consists of an internship or cooperative educational position of a more professional level with increased complexity approved by the course instructor.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
5

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
5

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
5

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
5

Lecture Hours Operator:
TO

Special Approval

Instructor permission

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Apply academic knowledge and professional skills in a real-world work environment.
2. Demonstrate effective communication and problem-solving abilities.
3. Reflect critically on their experiential learning.
4. Articulate how their internship/co-op experience contributes to their career goals and personal development.

NURS4300 - Issues and Trends in Health Care - 2 - Credits

Course Overview

Course Prefix
NURS

Course Number
4300

Department
Nursing

Course Title
Issues and Trends in Health Care

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students learn the role of the professional nurse in today's evolving health care environment and examine the following: nursing history; nursing values, ethics, and standards; professional organizations; issues and influences in professional practice; and the impact of lifelong learning on career development.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Registration Restrictions
Admission to the Nursing: RN to BSN - BS (Online Program) (online program)

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- NURS3000 - Professional Nursing Practice
- NURS3230 - Evidence-Based Health Care (QI)

NURS3230 EVID-BASED HLTH CARE (QI) may be taken concurrently

Course Learning Objectives

Course Learning Outcomes

1. Appraise and critique points of view in agreement or disagreement with current health care issues.
2. Explain the significance of a holistic approach to health care and professional nursing practice.
3. Compare and contrast current issues and trends in health care that may enhance or hinder professional nurse responsibilities in maintaining safe nursing practice.
4. Demonstrate oral presentation skills and written strategies to justify opinions on issues.
5. Analyze legal and ethical issues related to current trends in health care and nursing.
6. Reflect on personal learning from the course by identifying strengths and limitations, and construct a plan for moving forward.
7. Incorporate principles and concepts of education, health promotion, and disease prevention as one lens with which to view current issues and trends in health care.
8. Value caring, respect, dignity, hope, and the human spirit in the provision of professional nursing care.

OPDD1000 - Product Concept Sketching - 3 - Credits

Course Overview

Course Prefix
OPDD

Course Number
1000

Department
Technology, Design & Technical Ed

Course Title
Product Concept Sketching

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students are introduced to the approach of communicating, presenting, and ideating through sketching. The students are exposed to various sketching methods, media, and formats, including both analog and digital.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Course Learning Objectives

Course Learning Outcomes

1. Utilize technologies and tools associated with multi-dimensional design representation, development, dissemination, and application, including color, finishes, texture, and patterns that contribute to the aesthetic, illusionistic, and practical functions of three-dimensional forms at an advanced level of proficiency.
2. Demonstrate the ability to effectively communicate concepts and specifications using verbal, written, and multiple media, including creating detailed, multi-dimensional, functional, and visual representations of sustainable product designs.
3. Express product concepts as 3D forms with 2D media
4. Rapidly communicate 3D ideas and solutions to design problems
5. Represent various product geometries, qualities, and contexts

OPDD1010 - Introduction to Digital Visualization - 3 - Credits

Course Overview

Course Prefix
OPDD

Course Number
1010

Department
Technology, Design & Technical Ed

Course Title
Introduction to Digital Visualization

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces students to the fundamentals of digital visualization in product design. It covers digital tools and software in visual communication and form development and/or product specification. It prepares students for future coursework and professional projects.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Course Learning Objectives

Course Learning Outcomes

1. Utilize technologies and tools associated with multi-dimensional design representation, development, dissemination, and application, including color, finishes, texture, and patterns that contribute to the aesthetic, illusionistic, and practical functions of three-dimensional forms at an advanced level of proficiency.
2. Demonstrate the ability to effectively communicate concepts and specifications using verbal, written, and multiple media, including creating detailed, multi-dimensional, functional, and visual representations of sustainable product designs.

OPDD1050 - Fundamentals of Design - 3 - Credits

Course Overview

Course Prefix
OPDD

Course Number
1050

Department
Technology, Design & Technical Ed

Course Title
Fundamentals of Design

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students gain experience in conceptualizing, creating, and analyzing two-dimensional compositions and three-dimensional forms through the application of the basic elements and principles of design. This is a studio course, including hands-on work, critiques, demonstrations, discussions, and presentations.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Course Learning Objectives

Course Learning Outcomes

1. Evaluate and synthesize the historical and cultural influences on design/development while analyzing their impact on current design principles and practices.
2. Demonstrate the ability to effectively communicate concepts and specifications using verbal, written, and multiple media, including creating detailed, multi-dimensional, functional, and visual representations of sustainable product designs.

OPDD1100 - Introduction to Product Creation - 3 - Credits

Course Overview

Course Prefix
OPDD

Course Number
1100

Department
Technology, Design & Technical Ed

Course Title
Introduction to Product Creation

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students are introduced to the product creation process, taking an idea to the store shelf. Students get an overview of how products are designed and developed and the various employment opportunities that exist in the process.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

OPDD1750 - History of Outdoor Products (BHU) - 3 - Credits

Course Overview

Course Prefix
OPDD

Course Number
1750

Department
Technology, Design & Technical Ed

Course Title
History of Outdoor Products (BHU)

General Education Attribute
BHU

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course examines the historical progression of outdoor products, including apparel, tools, and other equipment. Investigations include the context of the industry's past to present while considering the environment, ethics, consumer behavior, and the change in product design.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes
1. To trace the development of the industry in relation to changing social, economic, technological, and political factors, and understand the connections between them.
2. To identify how historic designs and products have had a direct influence on modern products.
3. To gain a working knowledge of historic products as reference for use in professional or practical applications (design, retail merchandising and marketing, etc).
4. To develop a personal philosophy of change related to outdoor products.
5. To demonstrate critical thinking, along with visual and written communication skills.

Evaluate and synthesize the historical and cultural influences on design/ development while analyzing their impact on current design principles and practices.

OPDD2000 - From Insight to Innovation: Design Research Foundations - 3 - Credits

Course Overview

Course Prefix
OPDD

Course Number
2000

Department
Technology, Design & Technical Ed

Course Title
From Insight to Innovation: Design Research Foundations

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course involves planning, conducting, and synthesizing design research to inform product and service creation decisions. Students learn how to formulate actionable insights and communicate evidence persuasively to stakeholders. Emphasis is placed on contextual awareness and research methodologies.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Course Learning Objectives

Course Learning Outcomes
Learning Outcomes (by the end of the term, students can…)

1. **Frame** researchable questions and scope studies that align to business, user, and technical constraints.
2. **Select & execute** appropriate methods (secondary research, observation/contextual inquiry, interviews, short surveys, diary probes, usability/concept tests).
3. **Practice research ethics** including consent, privacy, data security, and bias mitigation; produce IRB-lite documentation for class projects.
4. **Synthesize** raw data into **patterns**, **models**, and **insights**.
5. **Translate insights** into opportunity areas, value propositions, and evidence-based design criteria/briefs.

6. **Communicate** findings clearly with well-structured decks, one-page briefs, and visualizations tailored to stakeholders.
7. **Manage projects** with realistic timelines, recruiting plans, and risk mitigation.

Program competencies supported: user-centered methods; critical thinking; communication; professional ethics; collaboration.

OPDD2010 - Form Development - 3 - Credits

Course Overview

Course Prefix
OPDD

Course Number
2010

Department
Technology, Design & Technical Ed

Course Title
Form Development

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Introduction to the development of 3D physical forms for products that express meaning, accommodate ergonomic use, and stylistically connect with the user.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Course Learning Objectives

Course Learning Outcomes
At the successful conclusion of this course, the student should be able to:

- Iterate geometric and organic forms in 2D and 3D.
- Define formal qualities and articulate form languages and meaning.
- Refine three-dimensional concepts to accommodate ergonomic use and product performance.
- Imbue product concepts with meaning that connects with the customer.

OPDD2050 - Intermediate Soft Goods Gear Construction & Development - 3 - Credits

Course Overview

Course Prefix
OPDD

Course Number
2050

Department
Technology, Design & Technical Ed

Course Title
Intermediate Soft Goods Gear Construction & Development

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This soft goods gear construction and development course examines properties, techniques, and materials used in gear design. Students apply sewing techniques, pattern development, sustainable material sourcing, field testing, and problem-solving in course projects and design challenges.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Admission to the Outdoor Product Design and Development major only

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:
- FCSE1040 - Introductory Sewing

OPDD2420 - Digital Technologies for 2-D Design - 3 - Credits

Course Overview

Course Prefix
OPDD

Course Number
2420

Department
Technology, Design & Technical Ed

Course Title
Digital Technologies for 2-D Design

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Using industry-standard software, students apply creative and innovative problem-solving skills to outdoor product design. Students create and develop design ideas using 2-D modeling software within the Adobe Creative Suite (specifically Adobe Illustrator and Adobe Photoshop).

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Earn a minimum grade of C in the following:

- TEE1010 - Graphic Communication Technologies

Course Learning Objectives

Course Learning Outcomes

1. Utilize technologies and tools associated with multi-dimensional design representation, development, dissemination, and application, including color, finishes, texture, and patterns that contribute to the aesthetic, illusionistic, and practical functions of three-dimensional forms at an advanced level of proficiency.
2. Evaluate and synthesize the historical and cultural influences on design/development while analyzing their impact on current design principles and practices.
3. Demonstrate the ability to effectively communicate concepts and specifications using verbal, written, and multiple media, including creating detailed, multi-dimensional, functional, and visual representations of sustainable product designs.

OPDD2430 - Digital Technologies for 3-D Design - 3 - Credits

Course Overview

Course Prefix
OPDD

Course Number
2430

Department
Technology, Design & Technical Ed

Course Title
Digital Technologies for 3-D Design

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Using industry-standard software, students apply creative and innovative problem-solving and visualization skills to product design. Students create and develop product ideas using 3-D modeling and rendering software.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Earn a minimum grade of C in the following:

- TESY1200 - Computer-Aided Drafting and Design
  OR MAE1200 - Engineering Graphics
  OR EDDT2620 - 3-D Modeling Advanced

Course Learning Objectives

Course Learning Outcomes

1. Utilize technologies and tools associated with multi-dimensional design representation, development, dissemination, and application, including color, finishes, texture, and patterns that contribute to the aesthetic, illusionistic, and practical functions of three-dimensional forms at an advanced level of proficiency.
2. Demonstrate the ability to effectively communicate concepts and specifications using verbal, written, and multiple media, including creating detailed, multi-dimensional, functional, and visual representations of sustainable product designs.
3. Design and visualize product concepts
4. Use basic surface modeling techniques
5. Apply digital modeling methods according to form intent
6. Create realistic renderings

OPDD2710 - Outdoor Product Design& Development Professional Seminar - 1 - Credits

Course Overview

Course Prefix
OPDD

Course Number
2710

Department
Technology, Design & Technical Ed

Course Title
Outdoor Product Design& Development Professional Seminar

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Orientation to outdoor industry. Exploration of careers and professional opportunities in industry are identified and discussed. Participation of industry leaders is integrated into seminar to expose students to current issues and topics in industry.

Credit Hours

Credit Hours Min:
1

Contact Hours

Contact Hours Min:
1

Billing Hours

Billing Hours Min:
1

Lecture Hours

Lecture Hours Min:
1

OPDD3030 - Design Thinking, Methods, and Materials (CI) - 3 - Credits

Course Overview

Course Prefix
OPDD

Course Number
3030

Department
Technology, Design & Technical Ed

Course Title
Design Thinking, Methods, and Materials (CI)

General Education Attribute
CI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This is an in-depth exploration of the properties, language, and function of materials used for outdoor product design. Application of design thinking methodologies guides the exploration of how materials function when different design methods are used in outdoor product development.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Registration Restrictions

Admission to the Design or Development or Product Line Management emphasis of the Outdoor Product Design and Development - BS program

Course Learning Objectives

Course Learning Outcomes

1. Demonstrate proficiency in applying design and development knowledge and skills through practical experiences in or beyond the classroom, including but not limited to field research and experience, internships, collaborative programs with professional and industry groups, or international experiences to create sustainable products and systems.
2. Evaluate the social impact of supply chain management practices in the outdoor industry and identify strategies for addressing potential ethical and social issues and opportunities for improvement, using critical thinking and problem-solving skills.

3. Apply advanced research methods and evaluate user experience, human factors, applied ergonomics, contextual inquiry, user preference studies, and usability assessments to circular design/ development practices.
4. Demonstrate the ability to effectively communicate concepts and specifications using verbal, written, and multiple media, including creating detailed, multi-dimensional, functional, and visual representations of sustainable product designs.
5. Collaborate effectively with members of interdisciplinary or multidisciplinary teams by applying problem-solving skills, critical thinking, and effective communication strategies. This includes the ability to actively listen to and incorporate feedback from team members and the ability to adapt to different communication styles and cultural perspectives.

OPDD3400 - Color Theory & Design - 3 - Credits

Course Overview

Course Prefix
OPDD

Course Number
3400

Department
Technology, Design & Technical Ed

Course Title
Color Theory & Design

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students analyze social, cultural, and psychological implications of color in everyday life. They explore emotional responses to color, its anomalies, symbolism, and trends. Color interactions and science are applied through a series of industry-driven design projects.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Registration Restrictions

Admission to the Design, Development, or Product Line Management emphasis of the Outdoor Product Design and Development - BS program

Course Learning Objectives

Course Learning Outcomes

1. Utilize technologies and tools associated with multi-dimensional design representation, development, dissemination, and application, including color, finishes, texture, and patterns that contribute to the aesthetic, illusionistic, and practical functions of three-dimensional forms at an advanced level of proficiency.
2. Evaluate and synthesize the historical and cultural influences on design/development while analyzing their impact on current design principles and practices.

3. Demonstrate the ability to effectively communicate concepts and specifications using verbal, written, and multiple media, including creating detailed, multi-dimensional, functional, and visual representations of sustainable product designs.

OPDD3500 - Applied Material Science - 3 - Credits

Course Overview

Course Prefix
OPDD

Course Number
3500

Department
Technology, Design & Technical Ed

Course Title
Applied Material Science

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students are exposed to the different materials for product design and development. The design parameters are used to make proper metal, plastic, composite, and/or ceramic material selections. Mechanical properties, finishes, and service life are also explored.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Apply critical thinking skills to analyze business practices and their relationship to sustainable product design and development, including ethical considerations, labor issues, and decisions related to ecological and social responsibility and environmental sustainability.
2. Apply circular design or cradle-to-cradle methodologies to design/develop products and systems, including but not limited to a foundational understanding of how products and systems are made; what makes them valuable; how they are developed, realized, distributed, and recovered; and how they are related to environmental and societal issues of responsible design.

3. Demonstrate the ability to effectively communicate concepts and specifications using verbal, written, and multiple media, including creating detailed, multi-dimensional, functional, and visual representations of sustainable product designs.
4. Gain understanding of a selection of materials typically used in product design.
5. Gain awareness of manufacturing processes associated with typical materials in industry.
6. Practice principles of design while incorporating a variety of materials and processes.

OPDD3600 - Sustainable Design and Operations - 3 - Credits

Course Overview

Course Prefix
OPDD

Course Number
3600

Department
Technology, Design & Technical Ed

Course Title
Sustainable Design and Operations

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students are exposed to the concepts of sustainability as they relate to product design and development. Students learn to identify the main certifications for sustainability in the manufacturing of products and best practices as they relate to the creation of new products.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Registration Restrictions

Admission to the Design, Development, or Product Line Management emphasis of the Outdoor Product Design and Development - BS program

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Apply critical thinking skills to analyze business practices and their relationship to sustainable product design and development, including ethical considerations, labor issues, and decisions related to ecological and social responsibility and environmental sustainability.
2. Apply circular design or cradle-to-cradle methodologies to design/develop products and systems, including but not limited to a foundational understanding of how products and systems are made;

what makes them valuable; how they are developed, realized, distributed, and recovered; and how they are related to environmental and societal issues of responsible design.

3. Evaluate the social impact of supply chain management practices in the outdoor industry and identify strategies for addressing potential ethical and social issues and opportunities for improvement, using critical thinking and problem-solving skills.

OPDD3700 - Outdoor Product Design & Development Professional Seminar II - 1 - Credits

Course Overview

Course Prefix
OPDD

Course Number
3700

Department
Technology, Design & Technical Ed

Course Title
Outdoor Product Design & Development Professional Seminar II

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course expands on general concepts specific to the outdoor industry. Students identify and discuss the exploration of careers and professional opportunities in the industry. Industry leaders participate in the seminar to expose students to current issues and topics.

Credit Hours

Credit Hours Min:
1

Contact Hours

Contact Hours Min:
1

Billing Hours

Billing Hours Min:
1

Lecture Hours

Lecture Hours Min:
1

Registration Restrictions

Admission to the Design or Development or Product Line Management emphasis of the Outdoor Product Design and Development - BS program

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Analyze professional design/development theories, practices, and processes.
2. Analyze professional design/development theories, practices, and processes, including but not limited to ethical behaviors and intellectual property issues such as patents, trademarks, and copyrights, to evaluate their effectiveness and appropriateness in various contexts.

3. Analyze professional design/development theories, practices, and processes, including but not limited to ethical behaviors and intellectual property issues such as patents, trademarks, and copyrights, to evaluate their effectiveness and appropriateness in various contexts.
4. Demonstrate the ability to effectively communicate
5. Demonstrate the ability to effectively communicate concepts and specifications using verbal, written, and multiple media, including creating detailed, multi-dimensional, functional, and visual representations of sustainable product designs.
6. Analyze professional design/development theories, practices, and processes, including but not limited to ethical behaviors and intellectual property issues such as patents, trademarks, and copyrights, to evaluate their effectiveness and appropriateness in various contexts.
7. Demonstrate the ability to effectively communicate concepts and specifications using verbal, written, and multiple media, including creating detailed, multi-dimensional, functional, and visual representations of sustainable product designs.

OPDD3760 - Outdoor Product Design and Development Studio I - 3 - Credits

Course Overview

Course Prefix
OPDD

Course Number
3760

Department
Technology, Design & Technical Ed

Course Title
Outdoor Product Design and Development Studio I

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course consists of studio projects in which concepts related to materials and fasteners used in the outdoor product industry are applied. Students experiment with various combinations of materials and methodologies for the design of soft goods for leisure and sports gear.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Registration Restrictions
Admission to the Design or Development or Product Line Management emphasis of the Outdoor Product Design and Development - BS program

Course Learning Objectives

Course Learning Outcomes

1. Demonstrate proficiency in applying design and development knowledge and skills through practical experiences in or beyond the classroom, including but not limited to field research and experience, internships, collaborative programs with professional and industry groups, or international experiences to create sustainable products and systems.
2. Apply advanced research methods and evaluate user experience, human factors, applied ergonomics, contextual inquiry, user preference studies, and usability assessments to circular design/development practices.

3. Develop and communicate complex solutions to problems and requirements, using critical thinking skills such as synthesis and evaluation while considering variables such as value, aesthetics, safety, and environmental sustainability, applying circular design principles such as cradle-to-cradle and closed-loop models.
4. Demonstrate the ability to effectively communicate concepts and specifications using verbal, written, and multiple media, including creating detailed, multi-dimensional, functional, and visual representations of sustainable product designs.
5. Discover, research, and define design opportunities
6. Creatively solve design problems and generate multiple iterations
7. Prototype and test designs
8. Apply design methods to visualize, develop, and communicate concepts

OPDD3770 - Outdoor Product Design and Development Studio II - 3 - Credits

Course Overview

Course Prefix
OPDD

Course Number
3770

Department
Technology, Design & Technical Ed

Course Title
Outdoor Product Design and Development Studio II

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Studio projects applying concepts related to contexts, materials, and components of outdoor product with emphasis on designing for diverse contexts and applications. Students will experiment with new solutions, uses for products considering contextual factors that impact design.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- OPDD3760 - Outdoor Product Design and Development Studio I

OPDD3800 - Advanced Digital Visualization - 3 - Credits

Course Overview

Course Prefix
OPDD

Course Number
3800

Department
Technology, Design & Technical Ed

Course Title
Advanced Digital Visualization

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course builds on the visualization skills developed previous courses. Students will apply drawing and concept visualization principles in a digital format, focusing on 2D sketching and rendering while exploring emerging tools and software in product design.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Registration is restricted to students admitted to the program with an approved emphasis area.

Course Learning Objectives

Course Learning Outcomes
Utilize technologies and tools associated with multi-dimensional design representation, development, dissemination, and application, including color, finishes, texture, and patterns that contribute to the aesthetic, illusionistic, and practical functions of three-dimensional forms at an advanced level of proficiency.

Demonstrate the ability to effectively communicate concepts and specifications using verbal, written, and multiple media, including creating detailed, multi-dimensional, functional, and visual representations of sustainable product designs.

OPDD3810 - Performance Wear - 3 - Credits

Course Overview

Course Prefix
OPDD

Course Number
3810

Department
Technology, Design & Technical Ed

Course Title
Performance Wear

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces principles of design for performance wear. Students gain design and fabrication experience with textiles in performance wear applications. It explores various performance wear aspects such as mobility, thermal protection, and impact protection.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Registration is restricted to students admitted to the program with an approved emphasis area

Course Learning Objectives

Course Learning Outcomes
By the end of this course, students will:

1. Understand the unique situations in which performance textiles and apparel are essential.
2. Analyze the performance characteristics of materials.
3. Apply key design principles to creating performance wear.
4. Develop and present performance wear design projects that demonstrate applied skills and critical thinking.

OPDD3820 - Equipment Design - 3 - Credits

Course Overview

Course Prefix
OPDD

Course Number
3820

Department
Technology, Design & Technical Ed

Course Title
Equipment Design

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces principles of outdoor equipment design. Students gain understanding of performance, processes, materials, and other considerations found in equipment products. The equipment design process: including design research, ideation, prototyping, and design for manufacture, will be explored.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Registration Restrictions
Registration is restricted to students admitted to the program with an approved emphasis area.

Course Learning Objectives

Course Learning Outcomes
Objective 1a: Apply critical thinking skills

Apply critical thinking skills to analyze business practices and their relationship to sustainable product design and development, including ethical considerations, labor issues, and decisions related to ecological and social responsibility and environmental sustainability.

Objective 1b: Demonstrate proficiency

Demonstrate proficiency in applying design and development knowledge and skills through practical experiences in or beyond the classroom, including but not limited to field research and experience, internships, collaborative programs with professional and industry groups, or international experiences to create sustainable products and systems.

Objective 2d: Utilize technologies and tools

Utilize technologies and tools associated with multi-dimensional design representation, development, dissemination, and application, including color, finishes, texture, and patterns that contribute to the aesthetic, illusionistic, and practical functions of three-dimensional forms at an advanced level of proficiency.

Objective 4j: Demonstrate the ability to effectively communicate

Demonstrate the ability to effectively communicate concepts and specifications using verbal, written, and multiple media, including creating detailed, multi-dimensional, functional, and visual representations of sustainable product designs.

OPDD3900 - Special Problems in Outdoor Product Design and Development - 1 - 6 Credits

Course Overview

Course Prefix
OPDD

Course Number
3900

Department
Technology, Design & Technical Ed

Course Title
Special Problems in Outdoor Product Design and Development

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Students conduct a short-term investigation and/or literature analysis with a critical review of contemporary issues in outdoor product design and development. A formal contract with approved faculty is included. Activities culminate with a written report.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
6

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
6

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
6

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
6

Lecture Hours Operator:
TO

Special Approval
Instructor permission

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Evaluate and synthesize the historical and cultural influences on design/development while analyzing their impact on current design principles and practices.

OPDD4040 - Outdoor Product Testing & Research - 3 - Credits

Course Overview

Course Prefix
OPDD

Course Number
4040

Department
Technology, Design & Technical Ed

Course Title
Outdoor Product Testing & Research

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Field-based, hands-on learning offers students real-world experiences with products and their evaluation. These activities range from first-person testing by students, to crowd-sourced public feedback, to understanding the perceptions of industry professionals and user groups.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

OPDD4240 - Advanced Gear Design - 3 - Credits

Course Overview

Course Prefix
OPDD

Course Number
4240

Department
Technology, Design & Technical Ed

Course Title
Advanced Gear Design

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students learn advanced design principles and techniques applied to the construction of soft goods, gear, and accessories for the outdoor industry.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Admission to the Design or Development or Product Line Management emphasis of the Outdoor Product Design and Development - BS program

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- OPDD2430 - Digital Technologies for 3-D Design
- OPDD2050 - Intermediate Soft Goods Gear Construction & Development

Course Learning Objectives

Course Learning Outcomes

1. Apply advanced research methods and evaluate user experience, human factors, applied ergonomics, contextual inquiry, user preference studies, and usability assessments to circular design/ development practices.

OPDD4250 - Outdoor Product Design and Development Industry Experience - 1 - 6 Credits

Course Overview

Course Prefix
OPDD

Course Number
4250

Department
Technology, Design & Technical Ed

Course Title
Outdoor Product Design and Development Industry Experience

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Outdoor product industry experience applying knowledge and skills in business and industry settings.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
6

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
6

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
6

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
6

Lecture Hours Operator:
TO

Special Approval
Instructor permission

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Demonstrate proficiency in applying design and development knowledge and skills through practical experiences in or beyond the classroom, including but not limited to field research and experience, internships, collaborative programs with professional and industry groups, or international experiences to create sustainable products and systems.
2. Demonstrate the ability to effectively communicate
3. Demonstrate the ability to effectively communicate concepts and specifications using verbal, written, and multiple media, including creating detailed, multi-dimensional, functional, and visual representations of sustainable product designs.
4. Demonstrate proficiency in applying design and development knowledge and skills through practical experiences in or beyond the classroom, including but not limited to field research and experience, internships, collaborative programs with professional and industry groups, or international experiences to create sustainable products and systems.
5. Demonstrate the ability to effectively communicate concepts and specifications using verbal, written, and multiple media, including creating detailed, multi-dimensional, functional, and visual representations of sustainable product designs.

OPDD4440 - Aesthetics and Brand Identity - 3 - Credits

Course Overview

Course Prefix
OPDD

Course Number
4440

Department
Technology, Design & Technical Ed

Course Title
Aesthetics and Brand Identity

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students investigate applications between various aesthetics theories and their relationship with brand identity. They appraise sustainable aesthetics and brand strategies that influence design. Students develop detailed user and brand profiles.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Admission to the Design or Development or Product Line Management emphasis of the Outdoor Product Design and Development - BS program

Course Learning Objectives

Course Learning Outcomes

1. Demonstrate proficiency in applying design and development knowledge and skills through practical experiences in or beyond the classroom, including but not limited to field research and experience, internships, collaborative programs with professional and industry groups, or international experiences to create sustainable products and systems.
2. Utilize technologies and tools associated with multi-dimensional design representation, development, dissemination, and application, including color, finishes, texture, and patterns that contribute to the aesthetic, illusionistic, and practical functions of three-dimensional forms at an advanced level of proficiency.
3. Evaluate the social impact of supply chain management practices in the outdoor industry and identify strategies for addressing potential ethical and social issues and opportunities for improvement, using critical thinking and problem-solving skills.
4. Collaborate effectively with members of interdisciplinary or multidisciplinary teams by applying problem-solving skills, critical thinking, and effective communication strategies. This includes the ability to actively listen to and incorporate feedback from team members and the ability to adapt to different communication styles and cultural perspectives.
5. Gain awareness of how, why, and when product testing and research takes place in industry
6. Analyze existing product performance characteristics
7. Engage in simulated and/or field testing of prototypes
8. Analyze and report prototype test findings and communicate recommendations for improvement

OPDD4510 - Footwear Concepts - 3 - Credits

Course Overview

Course Prefix
OPDD

Course Number
4510

Department
Technology, Design & Technical Ed

Course Title
Footwear Concepts

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This is an advanced design course discussing construction, manufacture, sales, and design of footwear within the outdoor industry. It includes industry partner contributions to the curriculum.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Registration Restrictions
Admission to the Design or Development or Product Line Management emphasis of the Outdoor Product Design and Development - BS program

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Discover, research, and define design opportunities
2. Creatively solve design problems and generate multiple iterations
3. Prototype designs
4. Apply design methods to visualize, develop, and communicate concepts
5. Utilize technologies and tools associated with multi-dimensional design representation, development, dissemination, and application, including color, finishes, texture, and patterns that contribute to the aesthetic, illusionistic, and practical functions of three-dimensional forms at an advanced level of proficiency.
6. Demonstrate the ability to effectively communicate concepts and specifications using verbal, written, and multiple media, including creating detailed, multi-dimensional, functional, and visual representations of sustainable product designs.

OPDD4750 - Senior Design Studio I - 3 - Credits

Course Overview

Course Prefix
OPDD

Course Number
4750

Department
Technology, Design & Technical Ed

Course Title
Senior Design Studio I

Grade Mode
Standard Letter

Repeat Status
NR

Course Description

This course covers outdoor product design and development projects focusing on research, ideation, prototype development, and professional presentation using technology to communicate ideas. Consideration of economic viability and environmental impact of design is required.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- OPDD3760 - Outdoor Product Design and Development Studio I

Course Learning Objectives

Course Learning Outcomes

1. Demonstrate proficiency in applying design and development knowledge and skills through practical experiences in or beyond the classroom, including but not limited to field research and experience, internships, collaborative programs with professional and industry groups, or international experiences to create sustainable products and systems.
2. Utilize technologies and tools associated with multi-dimensional design representation, development, dissemination, and application, including color, finishes, texture, and patterns that contribute to the aesthetic, illusionistic, and practical functions of three-dimensional forms at an advanced level of proficiency.
3. Evaluate and synthesize the historical and cultural influences on design/development while analyzing their impact on current design principles and practices.
4. Demonstrate the ability to effectively communicate concepts and specifications using verbal, written, and multiple media, including creating detailed, multi-dimensional, functional, and visual representations of sustainable product designs.
5. Discover, research, and define design opportunities
6. Creatively solve design problems and generate multiple iterations
7. Prototype designs
8. Apply design methods to visualize, develop, and communicate concepts

OPDD4760 - Senior Design Studio II - 3 - Credits

Course Overview

Course Prefix
OPDD

Course Number
4760

Department
Technology, Design & Technical Ed

Course Title
Senior Design Studio II

Grade Mode
Standard Letter

Repeat Status
NR

Course Description

Emphasis on complete design and development of a collection of outdoor products. Specifications and products are developed according to industry requirements. A cohesive collection will be manufactured and presented.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Senior standing

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- OPDD4750 - Senior Design Studio I

Course Learning Objectives

Course Learning Outcomes

1. Graduates will demonstrate the ability to analyze and apply sustainable production principles, including non-polluting processes, energy and resource conservation, economic viability, safety and health for workers and consumers, and social and creative rewards in personal and professional situations.
2. Graduates will prove mastery in researching, analyzing, and creatively solving problems within the outdoor industry.
Demonstrate proficiency in applying design and development knowledge and skills through practical experiences in or beyond the classroom, including but not limited to field research and experience, internships, collaborative programs with professional and industry groups, or international experiences to create sustainable products and systems.
3. Graduates will be able to effectively communicate design concepts and specifications using various media in a collaborative, interdisciplinary setting.
Apply advanced research methods and evaluate user experience, human factors, applied ergonomics, contextual inquiry, user preference studies, and usability assessments to circular design/development practices.
Develop and communicate complex solutions to problems and requirements, using critical thinking skills such as synthesis and evaluation while considering variables such as value, aesthetics, safety, and environmental sustainability, applying circular design principles such as cradle-to-cradle and closed-loop models.
Demonstrate the ability to effectively communicate concepts and specifications using verbal, written, and multiple media, including creating detailed, multi-dimensional, functional, and visual representations of sustainable product designs.

OPDD4770 - Senior Exhibit - 1 - Credits

Course Overview

Course Prefix
OPDD

Course Number
4770

Department
Technology, Design & Technical Ed

Course Title
Senior Exhibit

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers the professional display and presentation of student work in preparation for a formal exhibit. Student work is reviewed and critiqued by industry leaders and experts before the exhibit opens.

Credit Hours

Credit Hours Min:
1

Contact Hours

Contact Hours Min:
1

Billing Hours

Billing Hours Min:
1

Lecture Hours

Lecture Hours Min:
1

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- OPDD4750 - Senior Design Studio I

Course Learning Objectives

Course Learning Outcomes

1. Utilize technologies and tools associated with multi-dimensional design representation, development, dissemination, and application, including color, finishes, texture, and patterns that contribute to the aesthetic, illusionistic, and practical functions of three-dimensional forms at an advanced level of proficiency.
2. Demonstrate the ability to effectively communicate concepts and specifications using verbal, written, and multiple media, including creating detailed, multi-dimensional, functional, and visual representations of sustainable product designs.

OPDD4900 - Senior Project Research and Creative Opportunity - 3 - Credits

Course Overview

Course Prefix
OPDD

Course Number
4900

Department
Technology, Design & Technical Ed

Course Title
Senior Project Research and Creative Opportunity

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students articulate the design elements and the development of outdoor products. Specifications and products are planned and developed according to industry requirements and are articulated and presented during the OPDD Senior Exhibit.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Admission to the Product Line Management or Development emphasis of the Outdoor Product Design and Development - BS program, and junior or senior standing

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- OPDD3030 - Design Thinking, Methods, and Materials (CI)

Course Learning Objectives

Course Learning Outcomes

1. Apply critical thinking skills to analyze business practices and their relationship to sustainable product design and development, including ethical considerations, labor issues, and decisions related to ecological and social responsibility and environmental sustainability.
2. Evaluate the social impact of supply chain management practices in the outdoor industry and identify strategies for addressing potential ethical and social issues and opportunities for improvement, using critical thinking and problem-solving skills.
3. Apply advanced research methods and evaluate user experience, human factors, applied ergonomics, contextual inquiry, user preference studies, and usability assessments to circular design/ development practices.
4. Develop and communicate complex solutions to problems and requirements, using critical thinking skills such as synthesis and evaluation while considering variables such as value, aesthetics, safety, and environmental sustainability, applying circular design principles such as cradle-to-cradle and closed-loop models.
5. Demonstrate the ability to effectively communicate concepts and specifications using verbal, written, and multiple media, including creating detailed, multi-dimensional, functional, and visual representations of sustainable product designs.

OPDDCRSE - Outdoor Product Design and Development Course - 3 - Credits

Course Overview

Course Prefix
OPDD

Course Number
CRSE

Department
Technology, Design & Technical Ed

Course Title
Outdoor Product Design and Development Course

Grade Mode
Standard Letter

Repeat Status
RP

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

OPDDTECH - OPDD Technical Elective - 3 - Credits

Course Overview

Course Prefix
OPDD

Course Number
TECH

Department
Technology, Design & Technical Ed

Course Title
OPDD Technical Elective

Grade Mode
Standard Letter

Repeat Status
RP

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

OSS1050 - Bookkeeping Essentials - 3 - Credits

Course Overview

Course Prefix
OSS

Course Number
1050

Department
Technology, Design & Technical Ed

Course Title
Bookkeeping Essentials

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Overview of accounting concepts, with special emphasis on practical applications. Taught only as a special extension course as requested.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

OSS1060 - Introduction to Personal Financial Planning - 1 - 3 Credits

Course Overview

Course Prefix
OSS

Course Number
1060

Department
Technology, Design & Technical Ed

Course Title
Introduction to Personal Financial Planning

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Introduction to concepts of financial planning for individuals. Taught only as a special extension course as requested.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

No Requirements

OSS1110 - Keyboarding - 2 - Credits

Course Overview

Course Prefix
OSS

Course Number
1110

Department
Technology, Design & Technical Ed

Course Title
Keyboarding

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
For students with no previous keyboarding experience. Designed so student can touch type and learn basic concepts related to word processing and document formatting.

Credit Hours

Credit Hours Min:
2

Contact Hours

Contact Hours Min:
2

Billing Hours

Billing Hours Min:
2

Lecture Hours

Lecture Hours Min:
2

No Requirements

OSS1400 - Microcomputer Applications - 3 - Credits

Course Overview

Course Prefix
OSS

Course Number
1400

Department
Technology, Design & Technical Ed

Course Title
Microcomputer Applications

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Introduction to operating systems, word processing, Internet, graphics, database, and spreadsheet applications.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

OSS1410 - Special Topics - 1 - 3 Credits

Course Overview

Course Prefix
OSS

Course Number
1410

Department
Technology, Design & Technical Ed

Course Title
Special Topics

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Selected topics related to using computers.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

No Requirements

OSS1420 - Word Processing Applications - 3 - Credits

Course Overview

Course Prefix
OSS

Course Number
1420

Department
Technology, Design & Technical Ed

Course Title
Word Processing Applications

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Word processing software instruction designed for office applications. Emphasizes creating business documents and improving keyboarding skills. Assumes ability to keyboard by touch at a minimum of 50 wpm.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

OSS1450 - Financial Software for Small Business Applications - 3 - Credits

Course Overview

Course Prefix
OSS

Course Number
1450

Department
Technology, Design & Technical Ed

Course Title
Financial Software for Small Business Applications

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Instruction in the use of small business accounting software.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- OSS1050 - Bookkeeping Essentials

OSS1550 - Business Correspondence - 3 - Credits

Course Overview

Course Prefix
OSS

Course Number
1550

Department
Technology, Design & Technical Ed

Course Title
Business Correspondence

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Development and application of effective business writing skills, emphasizing business correspondence. Includes thorough review of grammar, spelling, and punctuation related to business correspondence.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

OSS2300 - Data Communications and Networking - 3 - Credits

Course Overview

Course Prefix
OSS

Course Number
2300

Department
Technology, Design & Technical Ed

Course Title
Data Communications and Networking

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Emphasizes data communications in a LAN and WAN networking environment. Includes network protocols, cable technology, telecommunications standards, security issues, and general telecommunications management issues.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- OSS1400 - Microcomputer Applications

OSS2400 - Web Design Applications - 3 - Credits

Course Overview

Course Prefix
OSS

Course Number
2400

Department
Technology, Design & Technical Ed

Course Title
Web Design Applications

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Design, development, and evaluation of documents for electronic media utilizing the worldwide web.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- OSS1400 - Microcomputer Applications

OSS2450 - Spreadsheets and Databases - 3 - Credits

Course Overview

Course Prefix
OSS

Course Number
2450

Department
Technology, Design & Technical Ed

Course Title
Spreadsheets and Databases

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Use of spreadsheets and databases to accomplish application development.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- OSS1400 - Microcomputer Applications

OSS2500 - Visual Basic Applications - 3 - Credits

Course Overview

Course Prefix
OSS

Course Number
2500

Department
Technology, Design & Technical Ed

Course Title
Visual Basic Applications

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Designed to teach nontechnical students to develop application solutions using Visual Basic. Features of Microsoft Access requiring knowledge of Visual Basic are introduced.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- OSS2450 - Spreadsheets and Databases

OSS2520 - Integrating Office Technology - 3 - Credits

Course Overview

Course Prefix
OSS

Course Number
2520

Department
Technology, Design & Technical Ed

Course Title
Integrating Office Technology

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Advanced applications of office technology for production of business documents, emphasizing efficient use of word processing, graphics, and desktop publishing.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- OSS1400 - Microcomputer Applications

OSS2600 - Office Procedures - 3 - Credits

Course Overview

Course Prefix
OSS

Course Number
2600

Department
Technology, Design & Technical Ed

Course Title
Office Procedures

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Finishing course which integrates office knowledge and skills. Applies administrative activities which are part of the office process.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Fulfill ANY of the following requirements:

Option 1

Complete ALL of the following Courses:

- OSS1550 - Business Correspondence
- OSS2520 - Integrating Office Technology

OR

Option 2

Complete ALL of the following Courses:

- BUS3200 - Professional Communication with AI (CI)

OSS2800 - Principles of Selling - 2 - Credits

Course Overview

Course Prefix
OSS

Course Number
2800

Department
Technology, Design & Technical Ed

Course Title
Principles of Selling

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Focuses on the sales process, including prospecting, qualifying customers, planning and delivering the sales presentation, overcoming objections, closing the sale, and satisfying the customer's needs.

Credit Hours

Credit Hours Min:
2

Contact Hours

Contact Hours Min:
2

Billing Hours

Billing Hours Min:
2

Lecture Hours

Lecture Hours Min:
2

No Requirements

PE1010 - Aerobics - 1 - Credits

Course Overview

Course Prefix
PE

Course Number
1010

Department
Kinesiology and Health Science

Course Title
Aerobics

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
Fitness program, primarily designed to improve cardiovascular fitness, muscular endurance, and flexibility.

Credit Hours

Credit Hours Min:
1

Contact Hours

Contact Hours Min:
1

Billing Hours

Billing Hours Min:
1

Lecture Hours

Lecture Hours Min:
1

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Demonstrate proper technique in aerobic exercises to improve cardiovascular endurance.
2. Perform a complete aerobic workout that includes warm-up, conditioning, and cool-down components.
3. Apply safe stretching techniques to improve flexibility and support injury prevention.

PE1016 - Spinning - 1 - Credits

Course Overview

Course Prefix
PE

Course Number
1016

Department
Kinesiology and Health Science

Course Title
Spinning

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
Intense cardiovascular conditioning class performed on stationary bikes.

Credit Hours

Credit Hours Min:
1

Contact Hours

Contact Hours Min:
1

Billing Hours

Billing Hours Min:
1

Lecture Hours

Lecture Hours Min:
1

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Demonstrate proper form and technique while using a stationary bike to maximize cardiovascular conditioning.
2. Participate in structured spinning workouts that include warm-up, interval training, and cool-down phases.
3. Adjust bike settings and pacing to safely and effectively challenge personal cardiovascular endurance.

PE1030 - Aerobic Kickboxing - 1 - Credits

Course Overview

Course Prefix
PE

Course Number
1030

Department
Kinesiology and Health Science

Course Title
Aerobic Kickboxing

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
Designed as a fitness program to improve cardiovascular fitness, muscular endurance, and flexibility through a combination of aerobic exercise and kickboxing. Emphasis placed on safety, fitness, and enjoyment.

Credit Hours

Credit Hours Min:
1

Contact Hours

Contact Hours Min:
1

Billing Hours

Billing Hours Min:
1

Lecture Hours

Lecture Hours Min:
1

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Demonstrate basic aerobic kickboxing techniques with proper form to enhance cardiovascular fitness and muscular endurance.
2. Perform a structured aerobic kickboxing workout including warm-up, conditioning, and cool-down phases.
3. Apply safe movement practices to minimize injury risk during aerobic and kickboxing activities.
4. Incorporate flexibility exercises to improve range of motion and support overall fitness.

PE1046 - Jog/Walk - 1 - Credits

Course Overview

Course Prefix
PE

Course Number
1046

Department
Kinesiology and Health Science

Course Title
Jog/Walk

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
Provides students with opportunity to achieve and maintain personal fitness through jogging and/or walking.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Demonstrate proper jogging and walking techniques to promote cardiovascular fitness and reduce injury risk.
2. Develop and follow a personal jogging and/or walking routine aimed at achieving and maintaining fitness goals.
3. Apply pacing and endurance strategies to sustain physical activity over time.

PE1055 - Pilates - 1 - Credits

Course Overview

Course Prefix
PE

Course Number
1055

Department
Kinesiology and Health Science

Course Title
Pilates

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
Provides a mind-body exercise program designed to strengthen core stability, increase flexibility, and increase muscle tone.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Demonstrate fundamental Pilates exercises that strengthen core stability.
2. Perform Pilates movements that improve overall flexibility and muscle tone.
3. Apply proper breathing techniques to enhance mind-body connection during Pilates exercises.
4. Integrate Pilates exercises into a routine that supports physical fitness and body awareness.

PE1057 - Yoga - 1 - Credits

Course Overview

Course Prefix
PE

Course Number
1057

Department
Kinesiology and Health Science

Course Title
Yoga

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
Practice of yogic exercises to improve flexibility, range of motion, strength, and muscle tone. Instruction in proper alignment. Exploration of breathing and relaxation techniques. Development of greater self-awareness.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Demonstrate proper alignment in a variety of yoga poses to improve flexibility, strength, and muscle tone.
2. Apply breathing and relaxation techniques to enhance mental focus and reduce stress.
3. Perform sequences of yoga exercises that increase range of motion and physical endurance.
4. Explain the principles of proper posture and alignment in yoga practice.
5. Develop self-awareness through mindful movement and breathing exercises.

PE1058 - Yoga II - 1 - Credits

Course Overview

Course Prefix
PE

Course Number
1058

Department
Kinesiology and Health Science

Course Title
Yoga II

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Provides an opportunity for students to learn and practice basic and intermediate Hatha Yoga skills. May be elective credit depending on major. These courses will focus on warmups, posture, and floor exercise. Skills learned in this course will assist in the development of strength, muscle tone and weight regulation. Students will also increase endurance, flexibility, and peace of mind, while providing for a means of eliminating stress. Class includes lectured lab.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Perform basic and intermediate Hatha Yoga postures with proper alignment to improve strength, muscle tone, and flexibility.
2. Demonstrate effective warm-up and floor exercise routines as part of a comprehensive yoga practice.
3. Apply breathing and relaxation techniques to enhance endurance and reduce stress.
4. Explain the principles behind yoga's role in weight regulation and mental well-being.
5. Integrate lecture content with physical practice to deepen understanding of yoga's benefits for body and mind.

PE1063 - Conditioning - 1 - Credits

Course Overview

Course Prefix
PE

Course Number
1063

Department
Kinesiology and Health Science

Course Title
Conditioning

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
Designed to improve overall flexibility, strength, and endurance capacity of the body.

Credit Hours

Credit Hours Min:
1

Contact Hours

Contact Hours Min:
1

Billing Hours

Billing Hours Min:
1

Lecture Hours

Lecture Hours Min:
1

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Demonstrate exercises that improve overall body flexibility.
2. Perform strength-building activities targeting major muscle groups.
3. Apply conditioning techniques to enhance muscular endurance.
4. Develop a personalized conditioning routine that promotes balanced fitness improvements.

PE1065 - NASM Personal Training Prep Course - 1 - Credits

Course Overview

Course Prefix
PE

Course Number
1065

Department
Kinesiology and Health Science

Course Title
NASM Personal Training Prep Course

Grade Mode
Pass/Fail

Repeat Status
NR

Course Description
This course prepares students for the NASM Personal Trainer Certification Exam through theory and hands-on practice. Students learn assessment, program design, and coaching skills to improve client health, fitness, and performance while promoting motivation, behavior change, and long-term adherence.

Credit Hours

Credit Hours Min:
1

Contact Hours

Contact Hours Min:
1

Billing Hours

Billing Hours Min:
1

Lecture Hours

Lecture Hours Min:
1

PE1070 - Cross-Training - 1 - Credits

Course Overview

Course Prefix
PE

Course Number
1070

Department
Kinesiology and Health Science

Course Title
Cross-Training

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
This is a self-select activity class. Students select from a variety of group fitness offerings through the Campus Recreation Group Fitness Program. Students receive an All Access Pass (Group Fitness and Strength & Conditioning) for the semester.

Credit Hours

Credit Hours Min:
1

Contact Hours

Contact Hours Min:
1

Billing Hours

Billing Hours Min:
1

Lecture Hours

Lecture Hours Min:
1

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Select and participate in a variety of group fitness and strength & conditioning classes suited to their personal fitness goals.
2. Demonstrate proper technique and safety practices across different fitness modalities.
3. Develop and follow a personalized fitness plan incorporating elements of strength, endurance, and flexibility.
4. Evaluate their progress and adjust their fitness activities to maintain or improve physical health and conditioning.

PE1075 - NASM Group Fitness Prep Course - 1 - Credits

Course Overview

Course Prefix
PE

Course Number
1075

Department
Kinesiology and Health Science

Course Title
NASM Group Fitness Prep Course

Grade Mode
Pass/Fail

Repeat Status
NR

Course Description
This course prepares students for the NASM Group Fitness Certification Exam through theory and practical experience. Students learn to design and lead effective group exercise formats, develop communication and teaching skills, and promote motivation, behavior change, and participant well-being.

Credit Hours

Credit Hours Min:
1

Contact Hours

Contact Hours Min:
1

Billing Hours

Billing Hours Min:
1

Lecture Hours

Lecture Hours Min:
1

PE1080 - Hyper Fit - 1 - Credits

Course Overview

Course Prefix
PE

Course Number
1080

Department
Kinesiology and Health Science

Course Title
Hyper Fit

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
HYPER FIT workouts incorporate elements from high-intensity interval training, Olympic lifting, plyometrics, powerlifting, gymnastics, kettlebell lifting, calisthenics, and other exercises.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

No Requirements

PE1085 - Weight Training - 1 - Credits

Course Overview

Course Prefix
PE

Course Number
1085

Department
Kinesiology and Health Science

Course Title
Weight Training

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
Demonstration of proper weight training techniques. Helps students understand basic concepts related to weight training, in order to gain strength, improve muscle tone, and start or continue a healthy lifestyle.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Demonstrate proper weight training techniques for major muscle groups to promote strength and muscle tone.
2. Explain basic principles of weight training, including safety, progression, and recovery.
3. Develop a personalized weight training routine that supports individual fitness goals and healthy lifestyle habits.
4. Apply safe practices to prevent injury during weight training exercises.

PE1090 - Resistance and Stabilization Training - 1 - Credits

Course Overview

Course Prefix
PE

Course Number
1090

Department
Kinesiology and Health Science

Course Title
Resistance and Stabilization Training

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
Provides students with combination of strength and stabilization training, including agility, balance, and coordination work. Some plyometrics may also be incorporated.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Demonstrate strength and stabilization exercises that improve muscle control and joint stability.
2. Perform agility, balance, and coordination drills to enhance overall functional fitness.
3. Incorporate plyometric movements safely to develop power and explosiveness.
4. Design a balanced training routine that integrates strength, stabilization, and agility components.

PE1097 - Fitness for Life - 2 - Credits

Course Overview

Course Prefix
PE

Course Number
1097

Department
Kinesiology and Health Science

Course Title
Fitness for Life

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Designed to help students learn and apply overall wellness principles, including physical, psychological, and social areas, to help improve and maintain what would be considered a healthy life style. Successful completers should learn to assess, prescribe, and implement exercise, nutrition, weight control, and stress management programs through class discussions, individual fitness evaluations, and class assignments. There is not a prerequisite, although it would benefit students entering the fitness or sports professions.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Assess personal physical fitness, nutrition, and stress levels using standardized evaluation tools.
2. Develop and implement personalized exercise, nutrition, and weight management plans to support lifelong wellness.
3. Explain the interrelationship between physical, psychological, and social factors in maintaining overall health.
4. Demonstrate effective stress management techniques applicable to daily life.
5. Apply wellness principles to set realistic and achievable personal health goals.

PE1100 - Tennis I Beginning - 1 - Credits

Course Overview

Course Prefix
PE

Course Number
1100

Department
Kinesiology and Health Science

Course Title
Tennis I Beginning

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
Designed for students desiring a basic understanding of tennis. Improvement of skills and strategies through active participation in drills and games.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Demonstrate basic tennis skills including serving, volleying, and groundstrokes with proper technique.
2. Apply fundamental tennis strategies during drills and game play.
3. Participate actively and safely in tennis drills and matches.
4. Explain basic rules and scoring of tennis

PE1101 - Tennis II Intermediate - 1 - Credits

Course Overview

Course Prefix
PE

Course Number
1101

Department
Kinesiology and Health Science

Course Title
Tennis II Intermediate

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
Designed for students with a basic knowledge of tennis who desire to learn intermediate skills. Improvement of skills and strategies through active participation in drills and games.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Demonstrate intermediate tennis skills such as improved serving, volleying, and groundstrokes with greater accuracy and control.
2. Apply advanced strategies and tactics effectively during drills and competitive play.
3. Participate actively and safely in intermediate-level tennis drills and matches.
4. Analyze and adjust gameplay to improve performance in tennis matches.

PE1103 - Table Tennis - 1 - Credits

Course Overview

Course Prefix
PE

Course Number
1103

Department
Kinesiology and Health Science

Course Title
Table Tennis

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
Designed for students desiring a basic understanding of table tennis. Improvement of skills and strategies through active participation in drills and games.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Demonstrate basic table tennis skills including serving, rallying, and returning with proper technique.
2. Apply fundamental strategies during drills and game play to improve performance.
3. Participate actively and safely in table tennis drills and matches.
4. Explain the basic rules and scoring system of table tennis.

PE1105 - Badminton - 1 - Credits

Course Overview

Course Prefix
PE

Course Number
1105

Department
Kinesiology and Health Science

Course Title
Badminton

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
Through active participation, students learn basic skills, rules, and strategies of singles and doubles badminton.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Demonstrate basic badminton skills including serving, volleying, and footwork in both singles and doubles play.
2. Apply fundamental strategies and tactics during singles and doubles matches.
3. Participate actively and safely in badminton drills and game play.
4. Explain the basic rules and scoring system of badminton.

PE1110 - Racquetball I Beginning - 1 - Credits

Course Overview

Course Prefix
PE

Course Number
1110

Department
Kinesiology and Health Science

Course Title
Racquetball I Beginning

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
Designed to help students understand the general rules and strategies of racquetball, improve competitive skills, and play safely and effectively.

Credit Hours

Credit Hours Min:
1

Contact Hours

Contact Hours Min:
1

Billing Hours

Billing Hours Min:
1

Lecture Hours

Lecture Hours Min:
1

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Demonstrate basic racquetball skills including serving, returning, and shot placement with proper technique.
2. Apply fundamental strategies and tactics to improve competitive play.
3. Participate safely and effectively in racquetball drills and matches.
4. Explain the general rules and scoring system of racquetball."

PE1111 - Racquetball II Intermediate - 1 - Credits

Course Overview

Course Prefix
PE

Course Number
1111

Department
Kinesiology and Health Science

Course Title
Racquetball II Intermediate

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
Designed for students with a basic knowledge of racquetball who desire to learn intermediate skills. Improvement of skills and strategies through active participation in drills and games.

Credit Hours

Credit Hours Min:
1

Contact Hours

Contact Hours Min:
1

Billing Hours

Billing Hours Min:
1

Lecture Hours

Lecture Hours Min:
1

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Demonstrate intermediate racquetball skills including advanced serving, shot variety, and court positioning.
2. Apply strategic tactics to enhance competitive play during drills and matches.
3. Participate actively and safely in intermediate-level racquetball drills and games.
4. Analyze gameplay to identify areas for improvement and adjust strategies accordingly."

PE1116 - Roundnet (Spike Ball) - 1 - Credits

Course Overview

Course Prefix
PE

Course Number
1116

Department
Kinesiology and Health Science

Course Title
Roundnet (Spike Ball)

Grade Mode
Pass/Fail

Repeat Status
NR

Course Description
This course is designed to provide skills and knowledge in the fundamentals of spike ball. Students learn the basic rules of spike ball: how to play, rules of the game, and etiquette.

Credit Hours

Credit Hours Min:
1

Contact Hours

Contact Hours Min:
1

Billing Hours

Billing Hours Min:
1

Lecture Hours

Lecture Hours Min:
1

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Increase the individual's strength, flexibility, and cardiovascular fitness.
2. Improve student's skills and techniques.
3. Make students aware of general fitness concepts.
4. Introduce various training methods to promote a healthy and active lifestyle.
5. Learn the rules and enjoy the game of spike ball

PE1120 - Handball - 1 - Credits

Course Overview

Course Prefix
PE

Course Number
1120

Department
Kinesiology and Health Science

Course Title
Handball

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
Provides skills and knowledge in the fundamentals of handball.

Credit Hours

Credit Hours Min:
1

Contact Hours

Contact Hours Min:
1

Billing Hours

Billing Hours Min:
1

Lecture Hours

Lecture Hours Min:
1

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Increase the individual's strength, flexibility, and cardiovascular fitness.
2. Improve student's skills and techniques.
3. Make students aware of general fitness concepts.
4. Introduce various training methods to promote a healthy and active lifestyle.
5. Learn the rules and enjoy the game of spike ball

PE1125 - Pickleball - 1 - Credits

Course Overview

Course Prefix
PE

Course Number
1125

Department
Kinesiology and Health Science

Course Title
Pickleball

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
This course is designed for students desiring a basic understanding of pickleball. Improvement of skills and strategies through active participation in drills and games.

Credit Hours

Credit Hours Min:
1

Contact Hours

Contact Hours Min:
1

Billing Hours

Billing Hours Min:
1

Lecture Hours

Lecture Hours Min:
1

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Demonstrate basic pickleball skills including serving, volleying, and scoring.
2. Apply fundamental strategies and tactics to improve gameplay during drills and matches.
3. Participate actively and safely in pickleball drills and games.
4. Explain the basic rules and scoring system of pickleball.

PE1130 - Golf Beginning - 1 - Credits

Course Overview

Course Prefix
PE

Course Number
1130

Department
Kinesiology and Health Science

Course Title
Golf Beginning

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
Designed for the beginning and novice golfer. Basics of individual grip, set-up, posture, and swing. Includes putting, chipping, weight transfer, and balance.

Credit Hours

Credit Hours Min:
1

Contact Hours

Contact Hours Min:
1

Billing Hours

Billing Hours Min:
1

Lecture Hours

Lecture Hours Min:
1

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Demonstrate basic golf skills including grip, set-up, posture, and swing techniques.
2. Perform fundamental short game skills such as putting and chipping with proper form.
3. Apply principles of weight transfer and balance to improve golf performance.
4. Understand and explain the basic rules and etiquette of golf.

PE1131 - Golf Intermediate - 1 - Credits

Course Overview

Course Prefix
PE

Course Number
1131

Department
Kinesiology and Health Science

Course Title
Golf Intermediate

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
Designed for students with basic golf skills who desire to learn more about golf and improve their golf skills. Improvement of strategies and skills through active participation.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Demonstrate improved golf skills, including more advanced swing techniques and shot accuracy.
2. Apply strategic decision-making skills during practice drills and on-course play.
3. Analyze and adjust techniques to enhance overall golf performance.
4. Explain golf rules and etiquette in more complex playing situations.

PE1135 - Archery I - 1 - Credits

Course Overview

Course Prefix
PE

Course Number
1135

Department
Kinesiology and Health Science

Course Title
Archery I

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Elective course to introduce students to the fundamentals of archery. Also covers the history and development of bow shooting. Includes lecture, lab and range shooting. Some student equipment may be required.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Demonstrate proper archery techniques including stance, nocking, drawing, aiming, and releasing.
2. Apply safety procedures during archery practice and range shooting.
3. Describe the history and development of archery as a sport and skill.
4. Evaluate personal performance and make adjustments to improve accuracy and consistency.

PE1136 - Archery II - 1 - Credits

Course Overview

Course Prefix
PE

Course Number
1136

Department
Kinesiology and Health Science

Course Title
Archery II

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Elective course to introduce students to the fundamentals of archery. Also covers the history and development of bow shooting. Includes lecture, lab and range shooting. Some student equipment may be required.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Demonstrate intermediate archery techniques with improved precision and consistency during range shooting.
2. Apply advanced safety protocols during all archery activities.
3. Analyze and critique personal form and performance to make effective adjustments.
4. Explain the historical evolution and development of archery and its impact on modern practices.

PE1145 - Bowling - 1 - Credits

Course Overview

Course Prefix
PE

Course Number
1145

Department
Kinesiology and Health Science

Course Title
Bowling

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
Provides students with the knowledge, skills, and strategies for successful participation and enjoyment.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Demonstrate proper bowling techniques, including grip, stance, and delivery.
2. Apply basic strategies to improve scoring and game performance.
3. Explain the rules and etiquette of bowling for effective participation.
4. Evaluate personal skill development and set goals for continued improvement in bowling.

PE1146 - Bowling Intermediate - 1 - Credits

Course Overview

Course Prefix
PE

Course Number
1146

Department
Kinesiology and Health Science

Course Title
Bowling Intermediate

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
Designed for students with basic bowling skills who desire to learn intermediate skills. Improvement of strategies and skills through active participation and games.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Demonstrate intermediate bowling techniques to improve accuracy and consistency.
2. Apply strategic approaches to enhance performance during competitive games.
3. Analyze game situations to make effective decisions and adjustments.
4. Evaluate personal progress and identify areas for further skill development.

PE1150 - Billiards Beginning - 1 - Credits

Course Overview

Course Prefix
PE

Course Number
1150

Department
Kinesiology and Health Science

Course Title
Billiards Beginning

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
Designed to develop basic knowledge and concepts for playing a variety of games. Focuses on stroke mechanics, shot selection, and strategy.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Demonstrate proper stroke mechanics for fundamental billiards shots.
2. Apply basic shot selection principles during gameplay.
3. Employ fundamental strategies to improve game performance.
4. Explain key concepts and rules of various billiards games.

PE1151 - Billiards Intermediate - 1 - Credits

Course Overview

Course Prefix
PE

Course Number
1151

Department
Kinesiology and Health Science

Course Title
Billiards Intermediate

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
Designed for students with basic billiards skills who desire to learn intermediate skills. Improvement of strategies and skills through active participation and games.

Credit Hours

Credit Hours Min:
1

Contact Hours

Contact Hours Min:
1

Billing Hours

Billing Hours Min:
1

Lecture Hours

Lecture Hours Min:
1

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Demonstrate intermediate-level stroke mechanics and shot execution in billiards.
2. Apply advanced shot selection techniques during competitive gameplay.
3. Develop and implement strategic approaches to improve match outcomes.
4. Analyze gameplay to identify areas for skill and strategy improvement.

PE1152 - Billiards Advanced - 1 - Credits

Course Overview

Course Prefix
PE

Course Number
1152

Department
Kinesiology and Health Science

Course Title
Billiards Advanced

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
Designed for students with proficient skills and knowledge of billiards who desire to learn and improve their skills. Improvement of strategies and skills through active participation and games.

Credit Hours

Credit Hours Min:
1

Contact Hours

Contact Hours Min:
1

Billing Hours

Billing Hours Min:
1

Lecture Hours

Lecture Hours Min:
1

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Demonstrate advanced stroke mechanics and shot execution in various billiards games.
2. Develop and apply complex strategic gameplay to enhance competitive performance.
3. Critically evaluate their own and opponents' gameplay to identify tactical advantages.
4. Adapt techniques and strategies dynamically during play to respond to changing game conditions.

PE1170 - Gymnastics - 1 - Credits

Course Overview

Course Prefix
PE

Course Number
1170

Department
Kinesiology and Health Science

Course Title
Gymnastics

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
Designed to enhance current abilities and teach skills according to the individual student's abilities. Skills taught through drill work and lecture.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Demonstrate improvement in fundamental gymnastics skills tailored to individual ability levels.
2. Perform drills that enhance strength, balance, flexibility, and coordination necessary for gymnastics.
3. Explain key concepts and safety considerations related to gymnastics techniques and training.
4. Apply learned skills in progressively challenging gymnastic movements and routines.

PE1200 - Basketball - 1 - Credits

Course Overview

Course Prefix
PE

Course Number
1200

Department
Kinesiology and Health Science

Course Title
Basketball

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
Designed to help the recreational player become more familiar with the basic skills involved in the game of basketball. During the course, games and/or a "mini" tournament will be played.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Demonstrate fundamental basketball skills, including dribbling, passing, shooting, and defensive techniques.
2. Apply basic rules and strategies of basketball during games and mini-tournaments.
3. Participate effectively and safely in team play and cooperative game situations.
4. Analyze personal and team performance to identify areas for improvement in skills and tactics.

PE1210 - Volleyball Beginning - 1 - Credits

Course Overview

Course Prefix
PE

Course Number
1210

Department
Kinesiology and Health Science

Course Title
Volleyball Beginning

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
Designed to help students understand the general rules and strategies and enjoyment of the game through active participation.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Demonstrate fundamental volleyball skills such as serving, passing, setting, and basic attacking techniques.
2. Apply the general rules and basic strategies of volleyball during active participation in drills and games.
3. Participate safely and cooperatively in volleyball games to promote enjoyment and teamwork.
4. Assess their own volleyball skills and identify areas for improvement to enhance overall performance.

PE1211 - Volleyball Intermediate - 1 - Credits

Course Overview

Course Prefix
PE

Course Number
1211

Department
Kinesiology and Health Science

Course Title
Volleyball Intermediate

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
Designed for students with basic knowledge of volleyball who desire to learn intermediate skills. Improvement of skills and strategies through active participation in drills and games.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Perform intermediate volleyball skills such as advanced serving, spiking, blocking, and defensive techniques with improved accuracy and consistency.
2. Apply intermediate-level volleyball strategies and tactics effectively during drills and game play.
3. Demonstrate an understanding of the rules and regulations of volleyball in competitive settings.
4. Evaluate personal performance and develop strategies for continued skill improvement and teamwork.

PE1212 - Volleyball Advanced - 1 - Credits

Course Overview

Course Prefix
PE

Course Number
1212

Department
Kinesiology and Health Science

Course Title
Volleyball Advanced

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
Designed for students with proficient skills and knowledge of volleyball who desire to learn new skills and improve their skills. Improvement of skills and strategies through active participation in drills and games.

Credit Hours

Credit Hours Min:
1

Contact Hours

Contact Hours Min:
1

Billing Hours

Billing Hours Min:
1

Lecture Hours

Lecture Hours Min:
1

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Demonstrate proficient volleyball skills, including advanced serving, hitting, blocking, and defensive techniques, with precision and consistency.
2. Implement complex offensive and defensive strategies effectively during drills and competitive play.
3. Analyze game situations to make real-time tactical decisions that enhance team performance.
4. Assess personal and team performance critically to identify areas for continued skill development and competitive success.

PE1225 - Softball - 1 - Credits

Course Overview

Course Prefix
PE

Course Number
1225

Department
Kinesiology and Health Science

Course Title
Softball

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
Designed to help students develop and understand the skills and strategies of recreational softball through active participation.

Credit Hours

Credit Hours Min:
1

Contact Hours

Contact Hours Min:
1

Billing Hours

Billing Hours Min:
1

Lecture Hours

Lecture Hours Min:
1

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Demonstrate fundamental softball skills including throwing, catching, batting, and base running through active participation.
2. Apply basic strategies and rules of recreational softball during drills and game play.
3. Collaborate effectively with teammates to enhance team performance and sportsmanship.
4. Evaluate personal and team performance to identify strengths and areas for improvement in softball skills and strategy.

PE1230 - Soccer - 1 - Credits

Course Overview

Course Prefix
PE

Course Number
1230

Department
Kinesiology and Health Science

Course Title
Soccer

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
Designed to help students develop and understand the skills and strategies of soccer through active participation in drills and games.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Demonstrate fundamental soccer skills, including passing, dribbling, shooting, and defending through active participation in drills and games.

2. Apply basic tactical strategies and rules of soccer during practice and game situations.

3. Collaborate effectively with teammates to improve team dynamics and overall game performance.

4. Assess personal and team performance to identify strengths and areas for improvement in soccer skills and strategy.

PE1235 - Flag Football - 1 - Credits

Course Overview

Course Prefix
PE

Course Number
1235

Department
Kinesiology and Health Science

Course Title
Flag Football

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
Designed to help students develop and understand the skills and strategies of recreational flag football through active participation.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Demonstrate fundamental flag football skills including passing, catching, running, and flag pulling through active participation in drills and games.

2. Apply basic rules and strategies of recreational flag football during game play.

3. Collaborate effectively with teammates to develop team strategies and enhance overall performance.

4. Evaluate personal and team performance to identify strengths and areas for improvement in flag football skills and tactics.

PE1245 - Ultimate Frisbee - 1 - Credits

Course Overview

Course Prefix
PE

Course Number
1245

Department
Kinesiology and Health Science

Course Title
Ultimate Frisbee

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
Designed to enhance each student's skills and abilities in ultimate frisbee. Emphasizes cardiovascular and muscular fitness. Course is progressive, with increase in intensity as the individual improves abilities.

Credit Hours

Credit Hours Min:
1

Contact Hours

Contact Hours Min:
1

Billing Hours

Billing Hours Min:
1

Lecture Hours

Lecture Hours Min:
1

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Demonstrate fundamental ultimate frisbee skills including throwing, catching, and strategic positioning through progressive drills and gameplay.

2. Apply rules and basic strategies of ultimate frisbee to enhance team play and game performance.

3. Improve cardiovascular and muscular fitness through participation in progressively challenging activities.

4. Assess personal skill development and fitness improvements to guide ongoing participation in ultimate frisbee.

PE1246 - Ultimate Frisbee Intermediate - 1 - Credits

Course Overview

Course Prefix
PE

Course Number
1246

Department
Kinesiology and Health Science

Course Title
Ultimate Frisbee Intermediate

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
Designed to enhance the skills and abilities of students desiring to learn intermediate skills in ultimate frisbee. Emphasizes cardiovascular and muscular fitness. Improvement of skills and strategies through active participation in drills and games.

Credit Hours

Credit Hours Min:
1

Contact Hours

Contact Hours Min:
1

Billing Hours

Billing Hours Min:
1

Lecture Hours

Lecture Hours Min:
1

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Demonstrate intermediate-level ultimate frisbee skills, including advanced throwing, catching, and strategic positioning, through drills and game play.

2. Analyze and apply tactical strategies to improve team coordination and competitive performance during games.

3. Enhance cardiovascular and muscular fitness through sustained participation in progressively challenging drills and matches.

4. Evaluate personal progress in skill development and fitness to inform continued participation and improvement in ultimate frisbee.

PE1260 - Ice Hockey Beginning - 1 - Credits

Course Overview

Course Prefix
PE

Course Number
1260

Department
Kinesiology and Health Science

Course Title
Ice Hockey Beginning

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
Designed for students desiring a basic understanding of ice hockey. Conditioning and skill development achieved through active participation in drills and games.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Demonstrate basic ice hockey skills, including skating, passing, shooting, and puck control, through participation in drills and games.

2. Explain and apply fundamental rules and strategies of ice hockey during active play.

3. Develop cardiovascular and muscular endurance through conditioning exercises tailored to ice hockey.

4. Practice safe and sportsmanlike behavior on the ice, adhering to safety guidelines and regulations.

PE1261 - Ice Hockey Intermediate - 1 - Credits

Course Overview

Course Prefix
PE

Course Number
1261

Department
Kinesiology and Health Science

Course Title
Ice Hockey Intermediate

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
Designed for students with a basic understanding of ice hockey who would like to learn intermediate skills and techniques. Conditioning and skill development achieved through active participation in drills and games.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Demonstrate intermediate ice hockey skills, including improved skating techniques, puck handling, passing, and shooting through active participation in drills and games.

2. Apply intermediate-level strategies and rules effectively during gameplay situations.

3. Enhance cardiovascular fitness and muscular endurance specific to ice hockey through structured conditioning exercises.

4. Exhibit safe playing practices and effective teamwork on the ice, following established safety protocols and sportsmanship standards.

PE1300 - Swimming Beginning - 1 - Credits

Course Overview

Course Prefix
PE

Course Number
1300

Department
Kinesiology and Health Science

Course Title
Swimming Beginning

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
Designed for swimmers and nonswimmers desiring to improve swimming skills and enhance cardiovascular and muscular fitness. Emphasizes swimming safety and enjoyment in a variety of water activities. Beginning and intermediate swim sections offered.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Demonstrate basic swimming techniques and skills to improve water confidence and safety.

2. Apply water safety principles and practices during a variety of aquatic activities.

3. Engage in swimming exercises that enhance cardiovascular fitness and muscular endurance.

PE1301 - Lap Swimming - 1 - Credits

Course Overview

Course Prefix
PE

Course Number
1301

Department
Kinesiology and Health Science

Course Title
Lap Swimming

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
Designed for swimmers desiring to improve swimming skills and enhance cardiovascular and muscular fitness.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Demonstrate improved swimming techniques to increase efficiency and endurance in lap swimming.

2. Engage in structured swimming workouts aimed at enhancing cardiovascular fitness and muscular endurance.

3. Apply pacing and breathing strategies to optimize performance during lap swimming.

4. Evaluate personal progress and set goals for continued improvement in swimming skills and fitness.

PE1315 - Water Aerobics - 1 - Credits

Course Overview

Course Prefix
PE

Course Number
1315

Department
Kinesiology and Health Science

Course Title
Water Aerobics

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
Provides students with opportunity to maintain personal fitness, with an emphasis on non-weight-bearing cardiovascular activity in water.

Credit Hours

Credit Hours Min:
1

Contact Hours

Contact Hours Min:
1

Billing Hours

Billing Hours Min:
1

Lecture Hours

Lecture Hours Min:
1

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Perform a variety of water-based aerobic exercises that improve cardiovascular fitness while minimizing joint impact.

2. Demonstrate proper techniques for non-weight-bearing movements in an aquatic environment to enhance muscular endurance and flexibility.

PE1350 - Scuba - 1 - Credits

Course Overview

Course Prefix
PE

Course Number
1350

Department
Kinesiology and Health Science

Course Title
Scuba

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course teaches students skills for independent, "no-stop" open water diving with a buddy, adhering to SSI standards. Certification as an "Open Water Diver" is granted upon completion. This course includes lectures/labs/field trips, requires a lab fee and swimming ability.

Credit Hours

Credit Hours Min:
1

Contact Hours

Contact Hours Min:
1

Billing Hours

Billing Hours Min:
1

Lecture Hours

Lecture Hours Min:
1

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Demonstrate mastery of fundamental scuba diving skills necessary for safe, independent “no-stop” open water diving with a buddy.

2. Apply SSI standards and safety protocols in all phases of scuba diving, including equipment use, dive planning, and underwater communication.

3. Perform underwater navigation and buoyancy control techniques essential for effective and safe diving.

4. Identify and respond appropriately to common underwater emergencies and hazards.

5. Complete all required practical and theoretical assessments to achieve Open Water Diver certification.

PE1405 - Smart Defense - 1 - Credits

Course Overview

Course Prefix
PE

Course Number
1405

Department
Kinesiology and Health Science

Course Title
Smart Defense

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
This course offers empowerment-based training for individuals to discover and develop their physical, mental, and emotional strength. It focuses on promoting social norms that protect against violence and equips participants with skills to prevent sexual violence and support recovery.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Course Learning Objectives

Course Learning Outcomes

1. Understand empowerment techniques in various life situations.

2. Learn situational responses and bystander intervention.

3. Develop skills to set boundaries and enforce them effectively.

4. Confront myths of victim-blaming and promote healthy relationships.

5. Explore reporting, resources, and recovery strategies for sexual assault.

PE1406 - Smart Defense Advocate - 1 - Credits

Course Overview

Course Prefix
PE

Course Number
1406

Department
Kinesiology and Health Science

Course Title
Smart Defense Advocate

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
This course empowers participants to become sexual assault advocates by building physical, mental, and emotional strength. It emphasizes promoting protective social norms, creating safe spaces, and equipping individuals with skills to prevent sexual violence and support community safety.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Course Learning Objectives

Course Learning Outcomes

1. Understanding the anatomy of assault.

2. Learn how to become a strong and effective ally by learning the importance of Body Autonomy & Consent.

3. Awareness of self and surroundings.

4. Learn skills and techniques for supporting others and preventing harm/violence.

5. Practice intervention skill development.

6. Know how to report assault and support victims and survivors properly.

7. Become aware of “rape culture” and how to counter its effects.

PE1407 - Basic Awareness & Defensive Action - 1 - Credits

Course Overview

Course Prefix
PE

Course Number
1407

Department
Kinesiology and Health Science

Course Title
Basic Awareness & Defensive Action

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
This course is designed to help students develop and understand basic self-defense skills. The course will examine all the resources available to people pre-, post- and during a potential attack.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Demonstrate basic self-defense techniques to protect themselves during a physical confrontation.

2. Identify and utilize personal and environmental resources available before, during, and after a potential attack.

3. Develop awareness skills to recognize and avoid potentially dangerous situations.

4. Apply defensive actions that prioritize safety and effective response in threatening situations.

PE1408 - Self-Defense and Situational Awareness - 1 - Credits

Course Overview

Course Prefix
PE

Course Number
1408

Department
Kinesiology and Health Science

Course Title
Self-Defense and Situational Awareness

Grade Mode
Pass/Fail

Repeat Status
NR

Course Description
Students look at active steps they can take to improve situational awareness and remove opportunities for sexual assault. Students learn and practice hands-on skills used as options of self-defense in the event of an attack.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Know the resources available to them on-campus and within the community for support, reporting and care if an instance of sexual assault or harassment were to occur.

2. Understand how to minimize the risk of sexual assault in one's own life.

3. Define and use appropriately the definition of consent and the role of consent in sexual encounters.

4. Identify options for reporting sexual assault or harassment to university officials and law enforcement.

5. Investigate how the establishment of rape culture within society contributes to the escalation of sexual assault.

6. Learn and practice hands-on skills that can be used as a resource for self-defense should you need the options.

7. Understand the legal requirements of self-defense.

PE1410 - Tai Chi Chuan - 1 - Credits

Course Overview

Course Prefix
PE

Course Number
1410

Department
Kinesiology and Health Science

Course Title
Tai Chi Chuan

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
Designed to give participants entry-level experience in the art of Tai Chi Chuan. Participants explore the physical, meditational, yogic, metaphysical, and martial foundations of the art.

Credit Hours

Credit Hours Min:
1

Contact Hours

Contact Hours Min:
1

Billing Hours

Billing Hours Min:
1

Lecture Hours

Lecture Hours Min:
1

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Perform basic Tai Chi Chuan movements and postures with proper form and flow.

2. Demonstrate breathing and relaxation techniques to improve focus and body awareness.

3. Explain how Tai Chi Chuan practice supports physical balance, flexibility, and stress reduction.

4. Engage in Tai Chi Chuan sequences that promote mindfulness and gentle physical activity.

PE1430 - Karate - 1 - Credits

Course Overview

Course Prefix
PE

Course Number
1430

Department
Kinesiology and Health Science

Course Title
Karate

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
Designed to develop and enhance the options of self-defense for students with little or no background in martial arts (Eastern or Western) with the rudimentary skills of self-defense.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Demonstrate basic karate techniques including strikes, blocks, and kicks with proper form and safety.

2. Apply fundamental self-defense skills in simulated situations.

3. Participate actively in drills and exercises that promote physical fitness, coordination, and confidence.

PE1440 - Aikido - 1 - Credits

Course Overview

Course Prefix
PE

Course Number
1440

Department
Kinesiology and Health Science

Course Title
Aikido

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
Students learn Aikido self-defense techniques through blending with the energy of an attacker, physical exercises for mind-body coordination, and forms of breathing to improve concentration and relaxation.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Demonstrate fundamental Aikido self-defense techniques that emphasize blending with an attacker’s energy.

2. Perform physical exercises that enhance mind-body coordination and overall body awareness.

3. Apply basic breathing techniques to improve concentration and promote relaxation during practice.

PE1445 - Tae Kwon Do - 1 - Credits

Course Overview

Course Prefix
PE

Course Number
1445

Department
Kinesiology and Health Science

Course Title
Tae Kwon Do

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
Students learn Tae Kwon Do self-defense techniques through blending with the energy of an attacker, physical exercises for mind-body coordination, and forms of breathing to improve concentration and relaxation.

Credit Hours

Credit Hours Min:
1

Contact Hours

Contact Hours Min:
1

Billing Hours

Billing Hours Min:
1

Lecture Hours

Lecture Hours Min:
1

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Demonstrate basic Tae Kwon Do techniques, including stances, strikes, blocks, and kicks with correct form and control.

2. Apply self-defense skills appropriate to common attack scenarios, using timing, balance, and redirection.

3. Perform foundational patterns (forms) with attention to coordination, rhythm, and flow.

4. Practice breathing and movement techniques to improve focus, relaxation, and mind-body awareness.

5. Follow safety protocols and partner etiquette during drills, sparring, and self-defense practice.

PE1505 - Kayaking - 1 - Credits

Course Overview

Course Prefix
PE

Course Number
1505

Department
Kinesiology and Health Science

Course Title
Kayaking

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
Provides basic skills and knowledge in kayaking.

Credit Hours

Credit Hours Min:
1

Contact Hours

Contact Hours Min:
1

Billing Hours

Billing Hours Min:
1

Lecture Hours

Lecture Hours Min:
1

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Demonstrate fundamental paddling techniques to safely maneuver a kayak in calm water.

2. Identify and correctly use essential kayaking equipment and gear.

3. Apply basic safety procedures and emergency responses relevant to kayaking.

4. Perform key kayak maneuvers such as turning, stopping, and exiting the kayak safely.

PE1507 - Swiftwater Safety - 2 - Credits

Course Overview

Course Prefix
PE

Course Number
1507

Department
Kinesiology and Health Science

Course Title
Swiftwater Safety

Grade Mode
Pass/Fail

Repeat Status
NR

Course Description
This course teaches self-rescue techniques with regard to limited resources in a remote setting. Recreational river runners or others working on or near moving water learn techniques dealing directly with water hazards and emergencies.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Demonstrate essential self-rescue techniques for safely exiting and recovering in swiftwater environments with limited resources.

2. Identify common water hazards encountered in moving water settings and explain appropriate responses.

3. Apply safety procedures to prevent accidents and manage emergencies in remote river environments.

4. Use basic rescue equipment effectively to assist themselves or others during swiftwater incidents.

PE1508 - River Guide Preparation - 3 - Credits

Course Overview

Course Prefix
PE

Course Number
1508

Department
Kinesiology and Health Science

Course Title
River Guide Preparation

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Introduces students to responsibilities of river guiding and to learn the skills necessary to become an apprentice river guide. Safety and environmental considerations will be emphasized. Students need to be in good physical condition. History, river ethics and environmental considerations will also be taught. Safety protocols will be learned and adherence is mandatory. Students must be good swimmers. Field trips will be taken and lab fees assessed to rent equipment and travel.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Demonstrate fundamental river guiding skills necessary for safe and effective navigation and group management on the water.

2. Apply mandatory safety protocols and emergency procedures relevant to river guiding scenarios.

3. Use appropriate equipment and gear confidently during river guiding activities.

4. Explain key river ethics and environmental considerations to promote responsible and sustainable guiding practices.

PE1509 - River Running I - 1 - Credits

Course Overview

Course Prefix
PE

Course Number
1509

Department
Kinesiology and Health Science

Course Title
River Running I

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Introduces students to the sport of river running. Provides students with the opportunity to gain the knowledge and skills necessary to enjoy river running safely. Students will participate in rafting rivers up to class 3. Skills involved with paddle boats will be emphasized. Safety, environmental, and ethical issues will be considered. Students need to be in good physical condition. Safety protocols will be learned and adherence is mandatory. Students must be good swimmers. Field trips will be taken and lab fees assessed to rent equipment and pay for river trips.

Credit Hours

Credit Hours Min:
1

Contact Hours

Contact Hours Min:
1

Billing Hours

Billing Hours Min:
1

Lecture Hours

Lecture Hours Min:
1

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Demonstrate fundamental paddling and maneuvering techniques for safely navigating paddle boats on rivers up to Class 3.

2. Apply essential safety protocols and emergency procedures specific to river running activities.

3. Identify environmental and ethical considerations relevant to river running and practice responsible behavior.

4. Use appropriate river running equipment and gear effectively during guided river trips.

PE1510 - Fly Fishing - 1 - Credits

Course Overview

Course Prefix
PE

Course Number
1510

Department
Kinesiology and Health Science

Course Title
Fly Fishing

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
Provides students with the opportunity to develop the skills, knowledge, and strategies for successful participation and enjoyment. Classes are offered in beginning and intermediate fly tying, rod building, and casting.

Credit Hours

Credit Hours Min:
1

Contact Hours

Contact Hours Min:
1

Billing Hours

Billing Hours Min:
1

Lecture Hours

Lecture Hours Min:
1

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Demonstrate basic fly casting techniques appropriate for beginning or intermediate levels.

2. Construct and assemble fly fishing rods using fundamental rod-building methods.

3. Tie common fly patterns used in fly fishing at beginning or intermediate skill levels.

4. Apply strategies for selecting flies and casting techniques to improve fishing success.

PE1511 - Fly Tying Beginning - 1 - Credits

Course Overview

Course Prefix
PE

Course Number
1511

Department
Kinesiology and Health Science

Course Title
Fly Tying Beginning

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
Provides students with an introduction to fly tying, including knots, flies, casting, fishing, and understanding trout streams.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Demonstrate basic fly tying techniques, including common knots and fly patterns.

2. Explain fundamental casting methods relevant to fly fishing.

3. Identify key characteristics of trout streams that influence fly selection and fishing strategies.

4. Apply basic fishing techniques to enhance participation and success in fly fishing.

PE1512 - Fly Tying Intermediate - 1 - Credits

Course Overview

Course Prefix
PE

Course Number
1512

Department
Kinesiology and Health Science

Course Title
Fly Tying Intermediate

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
Designed for students with basic fly tying skills who are interested in learning intermediate skills.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Demonstrate intermediate fly tying techniques, including more complex knots and fly patterns.

2. Modify and create custom flies suited to specific fishing conditions.

3. Evaluate and select materials appropriate for various fly patterns and fishing scenarios.

4. Apply improved casting and fishing strategies to enhance fly fishing effectiveness.

PE1513 - Fly Casting - 1 - Credits

Course Overview

Course Prefix
PE

Course Number
1513

Department
Kinesiology and Health Science

Course Title
Fly Casting

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
Designed for students desiring a basic understanding of fly casting techniques and strategies.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Demonstrate basic fly casting techniques with proper form and control.

2. Identify common casting errors and apply corrections to improve accuracy and distance.

3. Select appropriate casting strategies for different fishing situations.

4. Apply safety practices while performing fly casting in various environments.

PE1514 - Fly Rod Building - 1 - Credits

Course Overview

Course Prefix
PE

Course Number
1514

Department
Kinesiology and Health Science

Course Title
Fly Rod Building

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
Designed for students desiring a basic understanding of fly rod building. Students will build a fly rod for their own personal use.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Identify and select the essential components required to build a functional fly rod.

2. Assemble a fly rod using basic construction techniques and tools safely and accurately.

3. Explain the purpose and function of each fly rod component in relation to fishing performance.

4. Demonstrate proper maintenance and care practices for a custom-built fly rod.

PE1520 - Hiking - 1 - Credits

Course Overview

Course Prefix
PE

Course Number
1520

Department
Kinesiology and Health Science

Course Title
Hiking

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
Provides skills and knowledge in hiking, with an emphasis on leave no trace techniques and safe operations in an outdoor environment.

Credit Hours

Credit Hours Min:
1

Contact Hours

Contact Hours Min:
1

Billing Hours

Billing Hours Min:
1

Lecture Hours

Lecture Hours Min:
1

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Demonstrate basic hiking skills including navigation, pacing, and terrain assessment.

2. Apply Leave No Trace principles to minimize environmental impact during hikes.

3. Identify and prepare appropriate gear and supplies for safe hiking trips.

4. Recognize potential hazards in outdoor environments and implement safety measures to address them.

PE1527 - Rock Climbing: Basic - 1 - Credits

Course Overview

Course Prefix
PE

Course Number
1527

Department
Kinesiology and Health Science

Course Title
Rock Climbing: Basic

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
Provides skills and knowledge in basic rock climbing, teaching safe judgment and proper techniques in a climbing gym.

Credit Hours

Credit Hours Min:
1

Contact Hours

Contact Hours Min:
1

Billing Hours

Billing Hours Min:
1

Lecture Hours

Lecture Hours Min:
1

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Demonstrate basic rock climbing techniques, including proper footwork, handholds, and body positioning.

2. Apply safety protocols for indoor climbing, including the correct use of harnesses, ropes, and belay devices.

3. Assess climbing routes and make safe judgment calls appropriate for their skill level.

4. Execute proper belaying techniques to support a climbing partner safely.

PE1528 - Advanced Rock Climbing - 1 - Credits

Course Overview

Course Prefix
PE

Course Number
1528

Department
Kinesiology and Health Science

Course Title
Advanced Rock Climbing

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
This course provides skills and knowledge for advanced rock climbing, teaching risk assessment and skills necessary to move from indoor climbing to outdoor climbing.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Understand the terminology, communication and skills required to lead climb.
2. Demonstrate competency building anchors at the top of a climb.
3. Demonstrate competency lead climbing and lead belaying.
4. Explain how to assess risk when arriving at a new climbing area.
5. Utilize climbing topos to identify routes, climbing grades and climbing areas.

PE1530 - Bouldering - 1 - Credits

Course Overview

Course Prefix
PE

Course Number
1530

Department
Kinesiology and Health Science

Course Title
Bouldering

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Introduces students to the sport of Bouldering and to learn the skills necessary to make Bouldering safe and fun. Safety and environmental considerations will be emphasized. Students need to be in good physical condition - this can't be emphasized enough. Students who are incapable of doing the basics on the climbing wall will not be allowed to continue in the class. This is for the student's own safety.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Demonstrate core bouldering techniques including movement, balance, and grip on indoor climbing walls.

2. Apply essential safety practices such as proper spotting, fall techniques, and use of crash pads.

3. Evaluate climbing routes and choose challenges appropriate to their physical ability and skill level.

4. Adhere to environmental and facility guidelines to promote a safe and respectful climbing environment.

PE1543 - Wilderness First Aid - 1 - Credits

Course Overview

Course Prefix
PE

Course Number
1543

Department
Kinesiology and Health Science

Course Title
Wilderness First Aid

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
Provides outdoor leaders with an introduction to wilderness first aid. Upon completion of course, students may receive a two-year wilderness first aid certification.

Credit Hours

Credit Hours Min:
1

Contact Hours

Contact Hours Min:
1

Billing Hours

Billing Hours Min:
1

Lecture Hours

Lecture Hours Min:
1

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Identify and assess common wilderness injuries and medical emergencies.

2. Demonstrate appropriate first aid techniques for outdoor and remote settings.

3. Apply wilderness first aid protocols to stabilize patients until professional help arrives.

4. Utilize available resources effectively for emergency care in remote environments.

5. Communicate and coordinate emergency response procedures during outdoor incidents.

PE1544 - Wilderness First Responder - 3 - Credits

Course Overview

Course Prefix
PE

Course Number
1544

Department
Kinesiology and Health Science

Course Title
Wilderness First Responder

Grade Mode
Pass/Fail

Repeat Status
NR

Course Description
The Wilderness First Responder course provides medical training for professional outdoor industry field workers. It prepares students to prevent many environmental illnesses and proactively manage preexisting conditions in the field in order to minimize negative outcomes.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

PE1547 - Avalanche AIARE 1 (Avy 1) - 2 - Credits

Course Overview

Course Prefix
PE

Course Number
1547

Department
Kinesiology and Health Science

Course Title
Avalanche AIARE 1 (Avy 1)

Grade Mode
Pass/Fail

Repeat Status
NR

Course Description
Students develop a good grounding in how to prepare for and carry out a backcountry trip, understand basic decision making while in the field, and employ rescue techniques required to find and dig up a buried person.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

No Requirements

PE1548 - Avalanche AIARE 2 (AVY 2) Course - 2 - Credits

Course Overview

Course Prefix
PE

Course Number
1548

Department
Kinesiology and Health Science

Course Title
Avalanche AIARE 2 (AVY 2) Course

Grade Mode
Pass/Fail

Repeat Status
NR

Course Description
The AIARE 2 is a 72-hour course that provides backcountry travelers an opportunity to advance their decision-making skills in more complicated situations, such as being a leader within a small travel group or traveling in more complicated terrain.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

No Requirements

PE1549 - AIARE Avalanche Rescue - 1 - Credits

Course Overview

Course Prefix
PE

Course Number
1549

Department
Kinesiology and Health Science

Course Title
AIARE Avalanche Rescue

Grade Mode
Pass/Fail

Repeat Status
NR

Course Description
AIARE Avalanche Rescue is a one-day stand-alone course that is intended to be retaken on a regular basis in order to keep abreast of best practices in rescue techniques and gear.

Credit Hours

Credit Hours Min:
1

Contact Hours

Contact Hours Min:
1

Billing Hours

Billing Hours Min:
1

Lecture Hours

Lecture Hours Min:
1

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Demonstrate current best practices for using avalanche rescue equipment effectively.

2. Perform efficient companion rescue techniques in simulated avalanche scenarios.

3. Identify and respond to critical signs during avalanche rescue operations.

4. Maintain and evaluate the condition and readiness of personal avalanche safety gear.

PE1550 - Cycling - 1 - Credits

Course Overview

Course Prefix
PE

Course Number
1550

Department
Kinesiology and Health Science

Course Title
Cycling

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
This course provides an introduction to road safety principles, various riding techniques, and cycle maintenance.

Credit Hours

Credit Hours Min:
1

Contact Hours

Contact Hours Min:
1

Billing Hours

Billing Hours Min:
1

Lecture Hours

Lecture Hours Min:
1

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Demonstrate safe road cycling practices following traffic laws and safety principles.

2. Apply fundamental riding techniques for different cycling environments and conditions.

3. Perform basic bicycle maintenance and troubleshooting to ensure safe and efficient operation.

4. Plan and execute a safe cycling route considering terrain, traffic, and environmental factors.

PE1580 - Canyoneering I - 1 - Credits

Course Overview

Course Prefix
PE

Course Number
1580

Department
Kinesiology and Health Science

Course Title
Canyoneering I

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Canyoneering is a term used to describe an adventure sport that combines hiking, wading, swimming, boulder hopping, rock climbing, and rappelling. Introduces students to the sport of canyoneering. Students will learn the skills necessary to make canyoneering safe and enjoyable. Safety and environmental considerations will be emphasized. Outings will include training at the Spring Canyon Climbing Area and outings to the world famous canyons of the San Rafael Swell. Students need to be in good physical condition. Safety protocols will be learned and adherence to those policies is mandatory. Course involves lecture, lab and field trips. A lab fee is required.

Credit Hours

Credit Hours Min:
1

Contact Hours

Contact Hours Min:
1

Billing Hours

Billing Hours Min:
1

Lecture Hours

Lecture Hours Min:
1

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Demonstrate fundamental canyoneering skills including hiking, wading, swimming, boulder hopping, rock climbing, and rappelling.

2. Apply safety protocols and environmental considerations to ensure safe and responsible participation in canyoneering activities.

3. Navigate and move effectively through canyon terrain using appropriate techniques under supervised field conditions.

4. Assess and prepare the necessary gear and equipment for canyoneering excursions in various environments.

PE1605 - Skiing - 1 - Credits

Course Overview

Course Prefix
PE

Course Number
1605

Department
Kinesiology and Health Science

Course Title
Skiing

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
Alpine ski instruction for all students. Offered for beginning, intermediate, and advanced levels. Focuses on knowledge, techniques, equipment, and safety necessary for participating in and enjoying alpine skiing, snowboarding, and telemark skiing.

Credit Hours

Credit Hours Min:
1

Contact Hours

Contact Hours Min:
1

Billing Hours

Billing Hours Min:
1

Lecture Hours

Lecture Hours Min:
1

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Demonstrate fundamental skiing techniques appropriate to their skill level (beginner, intermediate, or advanced) in alpine, snowboarding, or telemark skiing.

2. Select, properly use, and maintain skiing equipment to ensure safe participation.

3. Apply safety principles and protocols on the slopes to prevent injury and manage risks.

4. Analyze personal skiing skills to set goals for continued improvement and enjoyment of the sport.

PE1615 - Snowboarding - 1 - Credits

Course Overview

Course Prefix
PE

Course Number
1615

Department
Kinesiology and Health Science

Course Title
Snowboarding

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
Provides opportunity for students of all skill levels and experience to develop their riding techniques. Emphasizes versatility and efficiency in varied snow and terrain conditions.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Demonstrate fundamental snowboarding techniques suited to varied snow and terrain conditions.

2. Adapt riding skills to efficiently navigate different types of terrain and snow conditions.

3. Utilize appropriate safety practices and equipment to minimize risks while snowboarding.

4. Assess personal riding abilities and set goals for continued skill development and enjoyment.

PE1670 - Figure Skating Beginning - 1 - Credits

Course Overview

Course Prefix
PE

Course Number
1670

Department
Kinesiology and Health Science

Course Title
Figure Skating Beginning

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
Designed for students desiring to learn basic figure skating skills. Conditioning and skill development achieved through active participation.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Demonstrate fundamental figure skating skills, including basic balance, gliding, and stopping techniques on ice.

2. Apply conditioning exercises that improve strength, coordination, and endurance specific to figure skating.

3. Perform basic skating maneuvers with increasing confidence and control.

4. Understand and follow safety practices related to figure skating and ice rink use.

PE1671 - Figure Skating Intermediate - 1 - Credits

Course Overview

Course Prefix
PE

Course Number
1671

Department
Kinesiology and Health Science

Course Title
Figure Skating Intermediate

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
Designed for students with basic figure skating skills who are interested in becoming more proficient skaters and learning new techniques and skills. Conditioning and skill development achieved through active participation.

Credit Hours

Credit Hours Min:
1

Contact Hours

Contact Hours Min:
1

Billing Hours

Billing Hours Min:
1

Lecture Hours

Lecture Hours Min:
1

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Demonstrate improved figure skating techniques, including advanced balance, edge control, and turning maneuvers.

2. Apply conditioning and skill-building exercises to enhance skating performance and endurance.

3. Perform a variety of intermediate skating moves with increased precision and fluidity.

4. Identify and practice safety protocols to prevent injury during figure skating activities.

PE1680 - Curling - 1 - Credits

Course Overview

Course Prefix
PE

Course Number
1680

Department
Kinesiology and Health Science

Course Title
Curling

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
Designed for students desiring to learn the rules, skills, strategies, and etiquette of curling.

Credit Hours

Credit Hours Min:
1

Contact Hours

Contact Hours Min:
1

Billing Hours

Billing Hours Min:
1

Lecture Hours

Lecture Hours Min:
1

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Demonstrate fundamental curling skills, including delivering the stone and sweeping techniques.

2. Apply the basic rules and strategies of curling during gameplay.

3. Exhibit proper etiquette and sportsmanship on the curling rink.

4. Understand safety practices specific to curling to ensure a safe playing environment.

PE1700 - Dance - 1 - Credits

Course Overview

Course Prefix
PE

Course Number
1700

Department
Kinesiology and Health Science

Course Title
Dance

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
Designed to help students enhance their basic skills and enjoyment of dance through the following forms: jazz, modern, ballet, ballroom, social, Latin, western swing, etc.

Credit Hours

Credit Hours Min:
1

Contact Hours

Contact Hours Min:
1

Billing Hours

Billing Hours Min:
1

Lecture Hours

Lecture Hours Min:
1

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Demonstrate fundamental dance techniques across a variety of styles, including jazz, modern, ballet, ballroom, and Latin.

2. Perform basic choreographed sequences with coordination and rhythm.

3. Apply principles of body awareness and movement safety during dance practice.

4. Exhibit improved physical fitness, flexibility, and endurance through regular dance activity.

PE1701 - Introduction to Modern Dance - 1 - Credits

Course Overview

Course Prefix
PE

Course Number
1701

Department
Kinesiology and Health Science

Course Title
Introduction to Modern Dance

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
Designed for individuals to gain basic dance experience through a wide variety of modern and post-modern dance techniques and choreographic exercises.

Credit Hours

Credit Hours Min:
1

Contact Hours

Contact Hours Min:
1

Billing Hours

Billing Hours Min:
1

Lecture Hours

Lecture Hours Min:
1

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Demonstrate fundamental modern and post-modern dance techniques through movement exercises.

2. Perform basic choreographic sequences with attention to timing, spatial awareness, and dynamics.

3. Apply principles of body alignment, breath control, and safe movement practices in dance.

4. Develop physical strength, flexibility, and coordination through regular dance participation.

PE1702 - Modern Dance Intermediate - 1 - Credits

Course Overview

Course Prefix
PE

Course Number
1702

Department
Kinesiology and Health Science

Course Title
Modern Dance Intermediate

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
Designed for individuals to expand their dance experience through a wide range of modern and post-modern dance techniques and choreographic exercises.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Perform a broader range of modern and post-modern dance techniques with increased technical proficiency.

2. Execute more complex choreographic sequences demonstrating control, fluidity, and expressive intent.

3. Integrate advanced movement principles such as weight transfer, momentum, and spatial dynamics in performance.

4. Enhance physical conditioning specific to dance, including strength, endurance, and flexibility.

PE1705 - Ballet - 1 - Credits

Course Overview

Course Prefix
PE

Course Number
1705

Department
Kinesiology and Health Science

Course Title
Ballet

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
This course is a ballet technique class for adults. Correct technique and alignment will be stressed. Basic ballet positions of the body will be learned or reviewed. Barre work will be followed by center work.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Demonstrate correct ballet technique and body alignment during barre and center exercises.

2. Perform the basic positions of the body and ballet movements with control and precision.

3. Apply proper posture and muscle engagement to enhance balance and stability in ballet technique.

4. Develop increased flexibility, strength, and coordination specific to ballet practice.

5. Execute fundamental ballet combinations that integrate barre work and center floor movements.

PE1710 - Western Swing - 1 - Credits

Course Overview

Course Prefix
PE

Course Number
1710

Department
Kinesiology and Health Science

Course Title
Western Swing

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
Designed to help students enhance their basic skills and enjoyment of country western swing dance (e.g., western swing, two-step, waltz, cowboy cha-cha, line dancing, etc.).

Credit Hours

Credit Hours Min:
1

Contact Hours

Contact Hours Min:
1

Billing Hours

Billing Hours Min:
1

Lecture Hours

Lecture Hours Min:
1

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Demonstrate fundamental steps and patterns in various country western swing dances such as two-step, waltz, and cowboy cha-cha.

2. Maintain rhythm and timing while dancing with a partner and in group line dances.

3. Apply basic techniques to improve balance, coordination, and fluidity in movement.

4. Participate confidently in social dance settings with an understanding of dance etiquette and partner interaction.

PE1711 - Western Swing Intermediate - 1 - Credits

Course Overview

Course Prefix
PE

Course Number
1711

Department
Kinesiology and Health Science

Course Title
Western Swing Intermediate

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
Designed for students who have basic western swing dancing skills and would like to develop and improve their techniques.

Credit Hours

Credit Hours Min:
1

Contact Hours

Contact Hours Min:
1

Billing Hours

Billing Hours Min:
1

Lecture Hours

Lecture Hours Min:
1

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- PE1710 - Western Swing

Course Learning Objectives

Course Learning Outcomes

1. Execute more complex steps and patterns in country western swing dance styles, including two-step, waltz, and line dancing.

2. Demonstrate improved technique in partner connection, timing, and lead/follow skills.

3. Increase agility, coordination, and control in dance movements through practiced techniques.

4. Participate confidently in social and performance settings, applying dance etiquette and musicality.

PE1720 - Social and Ballroom Dance - 1 - Credits

Course Overview

Course Prefix
PE

Course Number
1720

Department
Kinesiology and Health Science

Course Title
Social and Ballroom Dance

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
Designed to provide knowledge and experience in ballroom and social dance.

Credit Hours

Credit Hours Min:
1

Contact Hours

Contact Hours Min:
1

Billing Hours

Billing Hours Min:
1

Lecture Hours

Lecture Hours Min:
1

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Perform fundamental ballroom and social dance steps with proper technique and rhythm.

2. Demonstrate coordination and timing in partner dancing across various ballroom styles.

3. Apply basic social dance etiquette and partner communication skills during dance activities.

4. Increase physical fitness through active participation in dance movements and routines.

PE1745 - Big Band Swing Level I - 1 - Credits

Course Overview

Course Prefix
PE

Course Number
1745

Department
Kinesiology and Health Science

Course Title
Big Band Swing Level I

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
Designed to provide students with basic knowledge and experience in Big Band Swing dance (e.g., lindy hop, boogie woogie, etc.).

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Demonstrate basic Big Band Swing dance steps and rhythms, including lindy hop and boogie woogie.

2. Execute fundamental partner connection and timing appropriate to Big Band Swing music.

3. Apply proper body posture and movement techniques to enhance dance performance and safety.

4. Engage in active physical participation to develop coordination, balance, and cardiovascular fitness through dance.

PE1746 - Big Band Swing Level II - 1 - Credits

Course Overview

Course Prefix
PE

Course Number
1746

Department
Kinesiology and Health Science

Course Title
Big Band Swing Level II

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
Designed for students with basic knowledge and experience in Big Band Swing dance (e.g., lindy hop, boogie woogie, etc.) to learn new techniques and enhance their skills.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Perform intermediate Big Band Swing dance steps and variations with improved precision and timing.

2. Demonstrate advanced partner connection skills, including lead and follow techniques.

3. Integrate musicality and style into dance movements to enhance performance quality.

4. Develop increased physical endurance, coordination, and rhythm through continued active participation in dance.

PE1765 - Hip Hop Beginning/Intermediate - 1 - Credits

Course Overview

Course Prefix
PE

Course Number
1765

Department
Kinesiology and Health Science

Course Title
Hip Hop Beginning/Intermediate

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
Advanced, up-beat, energetic class designed to increase coordination, improve rhythm, and increase stamina.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Demonstrate foundational hip hop dance movements with proper technique and body control.

2. Improve coordination and rhythm through participation in choreographed hip hop routines.

3. Build stamina and endurance to sustain energetic dance sequences.

4. Apply rhythmic timing and expressive movement to enhance performance quality in hip hop dance.

PE1800 - Community Engaged Learning in Recreation Services - 3 - Credits

Course Overview

Course Prefix
PE

Course Number
1800

Department
Kinesiology and Health Science

Course Title
Community Engaged Learning in Recreation Services

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students participate in an immersive community-engaged learning experience as a class. These experiences involve working with recreation providers and community leaders to provide community service through recreation and related services. These experiences may occur locally, nationally, or abroad.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Course Learning Objectives

Course Learning Outcomes

1. Engage in a community-level service project.

2. Broaden their understanding of community services.

3. Expand their understanding of the life experiences of diverse community members.

PE1900 - Club Sports - 1 - Credits

Course Overview

Course Prefix
PE

Course Number
1900

Department
Kinesiology and Health Science

Course Title
Club Sports

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
Designed for students desiring to participate in extramural competition against other colleges and universities in the following sports: ballroom dance, baseball, bowling, cycling, disc golf, hockey, men's lacrosse, racquetball, rodeo, rugby, men's soccer, ultimate frisbee, men's volleyball, waterpolo, and wrestling.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Demonstrate fundamental skills and strategies specific to their chosen club sport.

2. Apply principles of teamwork, sportsmanship, and communication during competitive play.

3. Understand and adhere to safety protocols and rules governing their sport.

4. Engage in regular physical activity to improve fitness, coordination, and overall well-being.

PE1905 - Aggiettes - 1 - Credits

Course Overview

Course Prefix
PE

Course Number
1905

Department
Kinesiology and Health Science

Course Title
Aggiettes

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
Designed for students who audition for and are accepted into the Aggiette dance program to represent Utah State University at sporting events.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Demonstrate proficiency in dance techniques and routines performed at university sporting events.

2. Apply teamwork and coordination skills essential for group dance performances.

3. Maintain physical fitness and endurance required for sustained performance activities.

4. Adhere to safety practices and rehearsal discipline to ensure effective and injury-free participation.

PE1906 - Eagle Dancers - 1 - Credits

Course Overview

Course Prefix
PE

Course Number
1906

Department
Kinesiology and Health Science

Course Title
Eagle Dancers

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Designed for students who audition and are selected as members of the Dance Team. Emphasizes learning and rehearsing a variety of dance styles for performance at athletic events. Includes physical fitness, weight management, nutrition, choreography, sportsmanship, and intermediate to advanced level dance technique. Team members are required to take a weight management course each semester and Basic Ballet I or higher.

Credit Hours

Credit Hours Min:
1

Contact Hours

Contact Hours Min:
1

Billing Hours

Billing Hours Min:
1

Lecture Hours

Lecture Hours Min:
1

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Audition required

Course Learning Objectives

Course Learning Outcomes
1. Demonstrate intermediate to advanced dance techniques across multiple styles for performance in athletic events.

2. Apply principles of physical fitness, weight management, and nutrition to maintain performance readiness and overall health.

3. Collaborate effectively as a team member, exhibiting sportsmanship and supporting group choreography and rehearsals.

4. Perform choreographed routines with precision, timing, and expression suitable for live audiences.

5. Understand and follow safety protocols and rehearsal discipline to prevent injury and enhance performance quality.

PE1915 - Cheer Squad - 1 - Credits

Course Overview

Course Prefix
PE

Course Number
1915

Department
Kinesiology and Health Science

Course Title
Cheer Squad

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
Designed for students who audition for and are accepted into the Cheer Squad program to represent Utah State University at sporting events.

Credit Hours

Credit Hours Min:
1

Contact Hours

Contact Hours Min:
1

Billing Hours

Billing Hours Min:
1

Lecture Hours

Lecture Hours Min:
1

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Demonstrate fundamental cheerleading skills, including jumps, cheers, chants, and basic stunts with proper technique and safety.

2. Perform choreographed routines with precision, timing, and synchronization as part of a team.

3. Apply conditioning exercises to improve strength, flexibility, and endurance necessary for cheerleading performance.

4. Exhibit effective crowd engagement techniques and positive sportsmanship during athletic events.

5. Collaborate effectively with squad members to enhance team cohesion and performance quality.

PE2000 - Personal Instruction and Conditioning - 1 - Credits

Course Overview

Course Prefix
PE

Course Number
2000

Department
Kinesiology and Health Science

Course Title
Personal Instruction and Conditioning

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
Designed for students and prospective members of varsity teams, as well as for the student/athlete requiring a personalized program.

Credit Hours

Credit Hours Min:
1

Contact Hours

Contact Hours Min:
1

Billing Hours

Billing Hours Min:
1

Lecture Hours

Lecture Hours Min:
1

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Develop and follow an individualized conditioning program tailored to their personal fitness goals and athletic needs.

2. Demonstrate proper techniques in strength, endurance, flexibility, and cardiovascular exercises to improve overall physical performance.

3. Monitor and evaluate personal progress using appropriate fitness assessments and adjust training accordingly.

4. Apply principles of injury prevention and recovery within their personal conditioning routines.

PE2010 - Varsity Cross Country - 1 - Credits

Course Overview

Course Prefix
PE

Course Number
2010

Department
Kinesiology and Health Science

Course Title
Varsity Cross Country

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
Designed to meet the needs of varsity student/athletes in cross country.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Demonstrate advanced sport-specific skills and techniques in practice and competition settings.

2. Apply principles of physical conditioning and recovery to support sustained athletic performance.

3. Contribute to team goals through effective communication, collaboration, and adherence to strategic roles.

4. Maintain eligibility and uphold behavioral expectations related to varsity athletic participation.

PE2020 - Varsity Football - 1 - Credits

Course Overview

Course Prefix
PE

Course Number
2020

Department
Kinesiology and Health Science

Course Title
Varsity Football

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
Designed to meet the needs of varsity student/athletes in football.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Demonstrate advanced sport-specific skills and techniques in practice and competition settings.

2. Apply principles of physical conditioning and recovery to support sustained athletic performance.

3. Contribute to team goals through effective communication, collaboration, and adherence to strategic roles.

4. Maintain eligibility and uphold behavioral expectations related to varsity athletic participation.

PE2030 - Varsity Soccer - 1 - Credits

Course Overview

Course Prefix
PE

Course Number
2030

Department
Kinesiology and Health Science

Course Title
Varsity Soccer

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
Designed to meet the needs of varsity student/athletes in soccer.

Credit Hours

Credit Hours Min:
1

Contact Hours

Contact Hours Min:
1

Billing Hours

Billing Hours Min:
1

Lecture Hours

Lecture Hours Min:
1

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Demonstrate advanced sport-specific skills and techniques in practice and competition settings.

2. Apply principles of physical conditioning and recovery to support sustained athletic performance.

3. Contribute to team goals through effective communication, collaboration, and adherence to strategic roles.

4. Maintain eligibility and uphold behavioral expectations related to varsity athletic participation.

PE2031 - Varsity Soccer 2 - 1 - Credits

Course Overview

Course Prefix
PE

Course Number
2031

Department
Kinesiology and Health Science

Course Title
Varsity Soccer 2

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course is designed to meet the needs of varsity students/athletes in soccer.

Credit Hours

Credit Hours Min:
1

Contact Hours

Contact Hours Min:
1

Billing Hours

Billing Hours Min:
1

Lecture Hours

Lecture Hours Min:
1

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- PE2030 - Varsity Soccer

Course Learning Objectives

Course Learning Outcomes

1. Demonstrate advanced sport-specific skills and techniques in practice and competition settings.

2. Apply principles of physical conditioning and recovery to support sustained athletic performance.

3. Contribute to team goals through effective communication, collaboration, and adherence to strategic roles.

4. Maintain eligibility and uphold behavioral expectations related to varsity athletic participation.

PE2040 - Varsity Volleyball - 1 - Credits

Course Overview

Course Prefix
PE

Course Number
2040

Department
Kinesiology and Health Science

Course Title
Varsity Volleyball

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
Designed to meet the needs of varsity student/athletes in volleyball.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Demonstrate advanced sport-specific skills and techniques in practice and competition settings.

2. Apply principles of physical conditioning and recovery to support sustained athletic performance.

3. Contribute to team goals through effective communication, collaboration, and adherence to strategic roles.

4. Maintain eligibility and uphold behavioral expectations related to varsity athletic participation.

PE2041 - Varsity Volleyball Second Year - 1 - Credits

Course Overview

Course Prefix
PE

Course Number
2041

Department
Kinesiology and Health Science

Course Title
Varsity Volleyball Second Year

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course is designed to help students gain a better understanding of the game of volleyball. Students work on the mental side of the game, the physical side as well as learning how to be a good teammate. The volleyball class focuses on teaching the logistics of the game.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Other Enrollment Recommendations

PE 2040

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- PE2040 - Varsity Volleyball

Course Learning Objectives

Course Learning Outcomes

1. Student will gain knowledge through instruction and experience throughout this class.

PE2050 - Varsity Indoor Track and Field - 1 - Credits

Course Overview

Course Prefix
PE

Course Number
2050

Department
Kinesiology and Health Science

Course Title
Varsity Indoor Track and Field

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
Designed to meet the needs of varsity student/athletes in indoor track and field.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Demonstrate advanced sport-specific skills and techniques in practice and competition settings.

2. Apply principles of physical conditioning and recovery to support sustained athletic performance.

3. Contribute to team goals through effective communication, collaboration, and adherence to strategic roles.

4. Maintain eligibility and uphold behavioral expectations related to varsity athletic participation.

PE2060 - Varsity Basketball 1 - 1 - Credits

Course Overview

Course Prefix
PE

Course Number
2060

Department
Kinesiology and Health Science

Course Title
Varsity Basketball 1

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
Designed to meet the needs of varsity student/athletes in basketball.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Demonstrate advanced sport-specific skills and techniques in practice and competition settings.

2. Apply principles of physical conditioning and recovery to support sustained athletic performance.

3. Contribute to team goals through effective communication, collaboration, and adherence to strategic roles.

4. Maintain eligibility and uphold behavioral expectations related to varsity athletic participation.

PE2061 - Varsity Basketball 2 - 1 - Credits

Course Overview

Course Prefix
PE

Course Number
2061

Department
Kinesiology and Health Science

Course Title
Varsity Basketball 2

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course is designated for those students who have a desire to advance their skills and knowledge in basketball. It emphasizes team play with students learning advanced skills associated with the game of basketball.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- PE2060 - Varsity Basketball 1

Course Learning Objectives

Course Learning Outcomes

1. To improve relationships with others as competitors and teammates.
2. To improve to an advanced level with basketball skills and strategy.
3. To improve sportsmanship and positive behavior on and off the court.
4. Enjoy your love for basketball.

PE2062 - Varsity Basketball 3 - 1 - Credits

Course Overview

Course Prefix
PE

Course Number
2062

Department
Kinesiology and Health Science

Course Title
Varsity Basketball 3

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course is designated for those students who have a desire to advance their skills and knowledge in basketball. It emphasizes team play with students learning advanced skills associated with the game of basketball.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Other Enrollment Recommendations

PE2060 VRSTY BASKETBALL 1, PE2061 VRSTY BASKETBALL 2

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Demonstrate advanced sport-specific skills and techniques in practice and competition settings.

2. Apply principles of physical conditioning and recovery to support sustained athletic performance.

3. Contribute to team goals through effective communication, collaboration, and adherence to strategic roles.

4. Maintain eligibility and uphold behavioral expectations related to varsity athletic participation.

PE2063 - Varsity Basketball 4 - 1 - Credits

Course Overview

Course Prefix
PE

Course Number
2063

Department
Kinesiology and Health Science

Course Title
Varsity Basketball 4

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course is designated for those students who have a desire to advance their skills and knowledge in basketball. It emphasizes team play with students learning advanced skills associated with the game of basketball.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Other Enrollment Recommendations

PE2060 VRSTY BASKETBALL 1, PE2061 VRSTY BASKETBALL 2, PE2062 VRSTY BASKETBALL 3

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Demonstrate advanced sport-specific skills and techniques in practice and competition settings.

2. Apply principles of physical conditioning and recovery to support sustained athletic performance.

3. Contribute to team goals through effective communication, collaboration, and adherence to strategic roles.

4. Maintain eligibility and uphold behavioral expectations related to varsity athletic participation.

PE2070 - Varsity Gymnastics - 1 - Credits

Course Overview

Course Prefix
PE

Course Number
2070

Department
Kinesiology and Health Science

Course Title
Varsity Gymnastics

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
Designed to meet the needs of varsity student/athletes in gymnastics.

Credit Hours

Credit Hours Min:
1

Contact Hours

Contact Hours Min:
1

Billing Hours

Billing Hours Min:
1

Lecture Hours

Lecture Hours Min:
1

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Demonstrate advanced sport-specific skills and techniques in practice and competition settings.

2. Apply principles of physical conditioning and recovery to support sustained athletic performance.

3. Contribute to team goals through effective communication, collaboration, and adherence to strategic roles.

4. Maintain eligibility and uphold behavioral expectations related to varsity athletic participation.

PE2080 - Varsity Track and Field - 1 - Credits

Course Overview

Course Prefix
PE

Course Number
2080

Department
Kinesiology and Health Science

Course Title
Varsity Track and Field

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
Designed to meet the needs of varsity student/athletes in track and field.

Credit Hours

Credit Hours Min:
1

Contact Hours

Contact Hours Min:
1

Billing Hours

Billing Hours Min:
1

Lecture Hours

Lecture Hours Min:
1

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Demonstrate advanced sport-specific skills and techniques in practice and competition settings.

2. Apply principles of physical conditioning and recovery to support sustained athletic performance.

3. Contribute to team goals through effective communication, collaboration, and adherence to strategic roles.

4. Maintain eligibility and uphold behavioral expectations related to varsity athletic participation.

PE2090 - Varsity Softball 1 - 1 - Credits

Course Overview

Course Prefix
PE

Course Number
2090

Department
Kinesiology and Health Science

Course Title
Varsity Softball 1

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
Designed to meet the needs of varsity student/athletes in softball.

Credit Hours

Credit Hours Min:
1

Contact Hours

Contact Hours Min:
1

Billing Hours

Billing Hours Min:
1

Lecture Hours

Lecture Hours Min:
1

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Demonstrate advanced sport-specific skills and techniques in practice and competition settings.

2. Apply principles of physical conditioning and recovery to support sustained athletic performance.

3. Contribute to team goals through effective communication, collaboration, and adherence to strategic roles.

4. Maintain eligibility and uphold behavioral expectations related to varsity athletic participation.

PE2091 - Varsity Softball 2 - 1 - Credits

Course Overview

Course Prefix
PE

Course Number
2091

Department
Kinesiology and Health Science

Course Title
Varsity Softball 2

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course is designed to meet the needs of varsity students/athletes in softball.

Credit Hours

Credit Hours Min:
1

Contact Hours

Contact Hours Min:
1

Billing Hours

Billing Hours Min:
1

Lecture Hours

Lecture Hours Min:
1

Other Enrollment Recommendations

PE 2090

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- PE2090 - Varsity Softball 1

Course Learning Objectives

Course Learning Outcomes

1. Build upon the knowledge of the experience from your previous course and collegiate softball.

PE2092 - Varsity Softball 3 - 1 - Credits

Course Overview

Course Prefix
PE

Course Number
2092

Department
Kinesiology and Health Science

Course Title
Varsity Softball 3

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course is designed to meet the needs of varsity students/athletes in softball.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- PE2091 - Varsity Softball 2

Course Learning Objectives

Course Learning Outcomes

1. Increased knowledge in softball rules, game play and sportsmanship.

PE2093 - Varsity Softball 4 - 1 - Credits

Course Overview

Course Prefix
PE

Course Number
2093

Department
Kinesiology and Health Science

Course Title
Varsity Softball 4

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course is designed to meet the needs of varsity students/athletes in softball.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- PE2092 - Varsity Softball 3

Course Learning Objectives

Course Learning Outcomes

1. Increased knowledge in softball rules, game play and sportsmanship.

PE2100 - Varsity Golf - 1 - Credits

Course Overview

Course Prefix
PE

Course Number
2100

Department
Kinesiology and Health Science

Course Title
Varsity Golf

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
Designed to meet the needs of varsity student/athletes in golf.

Credit Hours

Credit Hours Min:
1

Contact Hours

Contact Hours Min:
1

Billing Hours

Billing Hours Min:
1

Lecture Hours

Lecture Hours Min:
1

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Demonstrate advanced sport-specific skills and techniques in practice and competition settings.

2. Apply principles of physical conditioning and recovery to support sustained athletic performance.

3. Contribute to team goals through effective communication, collaboration, and adherence to strategic roles.

4. Maintain eligibility and uphold behavioral expectations related to varsity athletic participation.

PE2110 - Varsity Tennis - 1 - Credits

Course Overview

Course Prefix
PE

Course Number
2110

Department
Kinesiology and Health Science

Course Title
Varsity Tennis

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
Designed to meet the needs of varsity student/athletes in tennis.

Credit Hours

Credit Hours Min:
1

Contact Hours

Contact Hours Min:
1

Billing Hours

Billing Hours Min:
1

Lecture Hours

Lecture Hours Min:
1

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Demonstrate advanced sport-specific skills and techniques in practice and competition settings.

2. Apply principles of physical conditioning and recovery to support sustained athletic performance.

3. Contribute to team goals through effective communication, collaboration, and adherence to strategic roles.

4. Maintain eligibility and uphold behavioral expectations related to varsity athletic participation.

PE2120 - Varsity Weight Training 1 - 1 - Credits

Course Overview

Course Prefix
PE

Course Number
2120

Department
Kinesiology and Health Science

Course Title
Varsity Weight Training 1

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
This course is designed for varsity athletes. Emphasizes strength development.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Demonstrate proper technique and form across a variety of weight training exercises to maximize performance and minimize injury.

2. Apply individualized strength and conditioning principles to enhance sport-specific athletic performance.

3. Monitor and adjust personal training variables (e.g., volume, intensity, rest, recovery) to support continuous improvement and season-long readiness.

4. Adhere to safety protocols and demonstrate responsibility for maintaining a clean, respectful, and focused training environment.

PE2121 - Varsity Weight Training 2 - 1 - Credits

Course Overview

Course Prefix
PE

Course Number
2121

Department
Kinesiology and Health Science

Course Title
Varsity Weight Training 2

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course is designed to meet the needs of varsity students/athletes in basketball.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- PE2120 - Varsity Weight Training 1

Course Learning Objectives

Course Learning Outcomes

1. Student will gain knowledge through instruction and experience throughout the class.

PE2122 - Varsity Weight Training 3 - 1 - Credits

Course Overview

Course Prefix
PE

Course Number
2122

Department
Kinesiology and Health Science

Course Title
Varsity Weight Training 3

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course is designed to meet the needs of varsity students/athletes in all varsity sports.

Credit Hours

Credit Hours Min:
1

Contact Hours

Contact Hours Min:
1

Billing Hours

Billing Hours Min:
1

Lecture Hours

Lecture Hours Min:
1

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- PE2120 - Varsity Weight Training 1
- PE2121 - Varsity Weight Training 2

Course Learning Objectives

Course Learning Outcomes

1. Demonstrate proper technique and form across a variety of weight training exercises to maximize performance and minimize injury.

2. Apply individualized strength and conditioning principles to enhance sport-specific athletic performance.

3. Monitor and adjust personal training variables (e.g., volume, intensity, rest, recovery) to support continuous improvement and season-long readiness.

4. Adhere to safety protocols and demonstrate responsibility for maintaining a clean, respectful, and focused training environment.

PE2123 - Varsity Weight Training 4 - 1 - Credits

Course Overview

Course Prefix
PE

Course Number
2123

Department
Kinesiology and Health Science

Course Title
Varsity Weight Training 4

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course is designed to meet the needs of varsity students/athletes in all varsity sports.

Credit Hours

Credit Hours Min:
1

Contact Hours

Contact Hours Min:
1

Billing Hours

Billing Hours Min:
1

Lecture Hours

Lecture Hours Min:
1

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- PE2120 - Varsity Weight Training 1
- PE2121 - Varsity Weight Training 2
- PE2122 - Varsity Weight Training 3

Course Learning Objectives

Course Learning Outcomes

1. Demonstrate proper technique and form across a variety of weight training exercises to maximize performance and minimize injury.

2. Apply individualized strength and conditioning principles to enhance sport-specific athletic performance.

3. Monitor and adjust personal training variables (e.g., volume, intensity, rest, recovery) to support continuous improvement and season-long readiness.

4. Adhere to safety protocols and demonstrate responsibility for maintaining a clean, respectful, and focused training environment.

PE2130 - Varsity Baseball 1 - 1 - Credits

Course Overview

Course Prefix
PE

Course Number
2130

Department
Kinesiology and Health Science

Course Title
Varsity Baseball 1

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Open to all students. Emphasis on team play with students learning all the basic skills associated with the game of baseball. Includes demonstrations and application in pitching, hitting, base running and defensive skills.

Credit Hours

Credit Hours Min:
1

Contact Hours

Contact Hours Min:
1

Billing Hours

Billing Hours Min:
1

Lecture Hours

Lecture Hours Min:
1

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Demonstrate advanced sport-specific skills and techniques in practice and competition settings.

2. Apply principles of physical conditioning and recovery to support sustained athletic performance.

3. Contribute to team goals through effective communication, collaboration, and adherence to strategic roles.

4. Maintain eligibility and uphold behavioral expectations related to varsity athletic participation.

PE2131 - Varsity Baseball 2 - 1 - Credits

Course Overview

Course Prefix
PE

Course Number
2131

Department
Kinesiology and Health Science

Course Title
Varsity Baseball 2

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course is designed to add to the knowledge from the first-year course of varsity baseball.

Credit Hours

Credit Hours Min:
1

Contact Hours

Contact Hours Min:
1

Billing Hours

Billing Hours Min:
1

Lecture Hours

Lecture Hours Min:
1

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- PE2130 - Varsity Baseball 1

Course Learning Objectives

Course Learning Outcomes

1. The student will gain knowledge through instruction and experience throughout class in the field of baseball.

PE2132 - Varsity Baseball 3 - 1 - Credits

Course Overview

Course Prefix
PE

Course Number
2132

Department
Kinesiology and Health Science

Course Title
Varsity Baseball 3

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course is designed to add to the knowledge from the first-year course of varsity baseball.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- PE2130 - Varsity Baseball 1
- PE2131 - Varsity Baseball 2

Course Learning Objectives

Course Learning Outcomes

1. This course is designed to add to the knowledge from the earlier course of varsity baseball.

PE2133 - Varsity Baseball 4 - 1 - Credits

Course Overview

Course Prefix
PE

Course Number
2133

Department
Kinesiology and Health Science

Course Title
Varsity Baseball 4

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
The purpose of this course is add to the knowledge that students get in the previous courses.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- PE2130 - Varsity Baseball 1
- PE2131 - Varsity Baseball 2
- PE2132 - Varsity Baseball 3

Course Learning Objectives

Course Learning Outcomes

1. This course is designed to add to the knowledge from the previous courses.

PE2988 - Special Problems - 1 - 3 Credits

Course Overview

Course Prefix
PE

Course Number
2988

Department
Kinesiology and Health Science

Course Title
Special Problems

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Individual work approved by the instructor. Time and credit to be arranged.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Identify personal learning goals related to physical activity or wellness in collaboration with the instructor.

2. Develop and implement an individualized plan to achieve specific skills or knowledge in physical activity.

3. Demonstrate progress and application of learned skills or concepts through self-assessment and instructor feedback.

4. Reflect on personal growth and challenges experienced throughout the course.

PHIL1000 - Introduction to Philosophy (BHU) - 3 - Credits

Course Overview

Course Prefix
PHIL

Course Number
1000

Department
History, Cultures & Ideas

Course Title
Introduction to Philosophy (BHU)

General Education Attribute
BHU

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Introduction to philosophical questions regarding truth, knowledge, reality, mind, God, morality, and meaning. Examination of various philosophical responses to these questions.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

PHIL1120 - Social Ethics (BHU) - 3 - Credits

Course Overview

Course Prefix
PHIL

Course Number
1120

Department
History, Cultures & Ideas

Course Title
Social Ethics (BHU)

General Education Attribute
BHU

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Examination of principles and arguments underlying current debate in American law and politics. Topics may include abortion, euthanasia, capital punishment, discrimination and affirmative action, sexual harassment, freedom of expression, welfare, and duties to help the poor in other nations.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

PHIL1130 - Living in a Brave New World: Philosophy and Technology (BHU) - 3 - Credits

Course Overview

Course Prefix
PHIL

Course Number
1130

Department
History, Cultures & Ideas

Course Title
Living in a Brave New World: Philosophy and Technology (BHU)

General Education Attribute
BHU

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
In this course, students explore the philosophical implications of technology. Challenges posed by the internet and social media, art, creativity and meaning in life, technology and the environment, technology in the criminal justice system, and technology and warfare are discussed.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Course Learning Objectives

Course Learning Outcomes
1. Construct arguments in support of a position.

2. Evaluate your own position or the position offered by someone else in the spirit of honest inquiry.

3. Reflect more carefully on the role that technology plays in the lives of earth's sentient beings.

4. Work more charitably and productively with others in the construction of policies.

5. Reflect on big questions about the experience of being human by confronting primary texts and connecting ideas from other times and places with your own experience.

6. Read analytically and think critically, summarizing and explaining the theses of a

text.

7. Write clearly and argue logically.

8. Think critically about your own and others' ideas.

PHIL1250 - Practical Logic (BHU) - 3 - Credits

Course Overview

Course Prefix
PHIL

Course Number
1250

Department
History, Cultures & Ideas

Course Title
Practical Logic (BHU)

General Education Attribute
BHU

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Recognition of arguments and diagramming their logical structure. Study of valid argument forms, as well as formal and informal fallacies. Evaluating categorical syllogisms using rules and Venn diagrams. Basic propositional logic.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

PHIL1320 - The Good Life (BHU) - 3 - Credits

Course Overview

Course Prefix
PHIL

Course Number
1320

Department
History, Cultures & Ideas

Course Title
The Good Life (BHU)

General Education Attribute
BHU

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Study of great books and great ideas with a focus on perennial human questions. Topics include the good life, the meaning of civilization in the soul and society, the good, the beautiful, suffering, meaning and the transcendent.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

PHIL1500 - The Examined College Life: Education and Its Ends (BHU) - 3 - Credits

Course Overview

Course Prefix
PHIL

Course Number
1500

Department
History, Cultures & Ideas

Course Title
The Examined College Life: Education and Its Ends (BHU)

General Education Attribute
BHU

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course examines various views on the purpose and value of university education, especially liberal education. Questions about human nature, human happiness, and the common good will be explored to help contextualize the question of education and its ends.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

PHIL2200 - Deductive Logic (QI) - 3 - Credits

Course Overview

Course Prefix
PHIL

Course Number
2200

Department
History, Cultures & Ideas

Course Title
Deductive Logic (QI)

General Education Attribute
QI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students study deductive arguments and techniques for evaluating their validity, including construction of proofs. Recognizing formal fallacies in reasoning. Symbolizing English sentences and arguments to make their meanings precise. Propositional logic. Study of quantifiers and relations.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ANY of the following Course Sets:

- Quantitative Literacy (QL) Course

PHIL2400 - Ethics (BHU) - 3 - Credits

Course Overview

Course Prefix
PHIL

Course Number
2400

Department
History, Cultures & Ideas

Course Title
Ethics (BHU)

General Education Attribute
BHU

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Study of judgments concerning what is good or bad, right or wrong. How judgments are justified and related to action. Relativism, subjectivism, absolutism, freedom, and responsibility.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

PHIL2600 - Introduction to Philosophy of Religions (BHU) - 3 - Credits

Course Overview

Course Prefix
PHIL

Course Number
2600

Department
History, Cultures & Ideas

Course Title
Introduction to Philosophy of Religions (BHU)

General Education Attribute
BHU

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Explores the importance of spirituality for human life. First half of this course looks at the role of myth, symbolism and ritual as found in ancient religion. Second half of this class looks at the transition from polytheism to monotheism and the effect it has had on human nature. Some time will be dedicated to the understanding of Native American, Eastern and alternative religions.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

PHIL2988 - Special Problems - 1 - 3 Credits

Course Overview

Course Prefix
PHIL

Course Number
2988

Department
History, Cultures & Ideas

Course Title
Special Problems

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Individual work approved by instructor. Time and credit to be arranged.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

No Requirements

PHIL3010 - Survey of Ancient and Medieval Philosophy (CI) - 3 - Credits

Course Overview

Course Prefix
PHIL

Course Number
3010

Department
History, Cultures & Ideas

Course Title
Survey of Ancient and Medieval Philosophy (CI)

General Education Attribute
CI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course is a survey of core philosophical theories developed over the ancient and medieval periods (500 BCE to 1500 CE). Figures may include the pre-Socratics, Plato, Aristotle, the Stoics, Augustine, Averroes, Avicenna, Aquinas, and Maimonides.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

PHIL3020 - Survey of Modern Philosophy (CI) - 3 - Credits

Course Overview

Course Prefix
PHIL

Course Number
3020

Department
History, Cultures & Ideas

Course Title
Survey of Modern Philosophy (CI)

General Education Attribute
CI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course surveys core philosophical theories developed from 1500-1900. Figures may include the early moderns (Descartes, Spinoza, Leibniz, Hobbes, Locke); the moderns (Hume, Rousseau, Voltaire, Kant, Hegel); and some thinkers from the end of the modern era (Kierkegaard, Dostoevsky, Nietzsche).

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

PHIL3500 - Healthcare Ethics (DHA) - 3 - Credits

Course Overview

Course Prefix
PHIL

Course Number
3500

Department
History, Cultures & Ideas

Course Title
Healthcare Ethics (DHA)

General Education Attribute
DHA

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course raises and explores ethical questions surrounding the availability of healthcare and difficult topics that arise in caring for people, including problems of consent, competency, confidentiality, euthanasia, abortion, and the requirements of justice.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

PHIL3520 - Business Ethics (DHA) - 3 - Credits

Course Overview

Course Prefix
PHIL

Course Number
3520

Department
History, Cultures & Ideas

Course Title
Business Ethics (DHA)

General Education Attribute
DHA

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Key issues in business, including: foreign bribery, corporate responsibility, corporate culture, ethical theories, justice, and preferential treatment.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

PHIL3530 - Environmental Ethics (DHA) - 3 - Credits

Course Overview

Course Prefix
PHIL

Course Number
3530

Department
History, Cultures & Ideas

Course Title
Environmental Ethics (DHA)

General Education Attribute
DHA

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Key issues in the treatment of nature, such as: the value of wilderness, animal rights, comparative views of nature, and moral issues in economic approaches to the wilderness.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

PHIL3540 - Ethics Bowl - 3 - Credits

Course Overview

Course Prefix
PHIL

Course Number
3540

Department
History, Cultures & Ideas

Course Title
Ethics Bowl

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Students prepare cases for regional or national Ethics Bowl competitions. Teams compete to provide the most comprehensive and judicious overview of specific cases that exhibit contemporary moral challenges.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Special Approval
Instructor permission

Other Enrollment Recommendations
PHIL1120 SOCIAL ETHICS (BHU) or PHIL2400 ETHICS (BHU)

No Requirements

Course Learning Objectives

Course Learning Outcomes
1. Acquiring skills in working with others as a member of a team.

2. Developing ethical reasoning and/or ethical decision making.

3. Learning to analyze and critically evaluate ideas, arguments, and points of view.

PHIL3550 - Philosophy in the Public Square - 3 - Credits

Course Overview

Course Prefix
PHIL

Course Number
3550

Department
History, Cultures & Ideas

Course Title
Philosophy in the Public Square

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This is a variable-topic course exploring philosophical aspects of topics in current public discourse.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes
1. Identify, understand, and reasonably respond to the points of view of people with whom you disagree.

2. Articulate the major perspectives in a way that indicates familiarity with some of the history of philosophical thought on this topic.

3. Identify the reasoning behind the main positions on issues.

4. Develop skills in arguing for a position and responding to the positions of others, both in conversation and in writing.

PHIL3580 - Ethics and Economic Life (DHA) - 3 - Credits

Course Overview

Course Prefix
PHIL

Course Number
3580

Department
History, Cultures & Ideas

Course Title
Ethics and Economic Life (DHA)

General Education Attribute
DHA

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
An examination of how social and economic concerns relate to moral issues generally. Topics will include the ethics of production, consumption, exchange, and accountability, as well as workplace issues and questions about the economic dimensions of human nature and the well-lived life.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

PHIL3600 - Philosophy of Religion (DHA) - 3 - Credits

Course Overview

Course Prefix
PHIL

Course Number
3600

Department
History, Cultures & Ideas

Course Title
Philosophy of Religion (DHA)

General Education Attribute
DHA

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Problems in defining "religion" and the existence of God; the problem of evil; the immortality of the soul; religious experience; faith; alternatives to theism; religious language.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

PHIL3700 - Political Philosophy (DHA) - 3 - Credits

Course Overview

Course Prefix
PHIL

Course Number
3700

Department
History, Cultures & Ideas

Course Title
Political Philosophy (DHA)

General Education Attribute
DHA

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Explores the nature of a just society, political obligation, and justification and proper limits of political power.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

PHIL3710 - Philosophies of East Asia - 3 - Credits

Course Overview

Course Prefix
PHIL

Course Number
3710

Department
History, Cultures & Ideas

Course Title
Philosophies of East Asia

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Study of Confucianism, Buddhism, Zen Buddhism, and Taoism. Focus on appreciating the merits of each system of thought. Emphasis on class discussion. Includes much assigned reading every week.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

PHIL3720 - Philosophical Theology - 3 - Credits

Course Overview

Course Prefix
PHIL

Course Number
3720

Department
History, Cultures & Ideas

Course Title
Philosophical Theology

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Explores various topics in Christian philosophical theology, which can include the existence and nature of God, the relation between God and creatures, and the nature of Christ.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ANY of the following Courses:

- PHIL1000 - Introduction to Philosophy (BHU)
  OR PHIL3010 - Survey of Ancient and Medieval Philosophy (CI)
  OR PHIL3020 - Survey of Modern Philosophy (CI)
  OR PHIL3600 - Philosophy of Religion (DHA)

PHIL3800 - Philosophy in Literature (DHA) - 3 - Credits

Course Overview

Course Prefix
PHIL

Course Number
3800

Department
History, Cultures & Ideas

Course Title
Philosophy in Literature (DHA)

General Education Attribute
DHA

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Study of philosophical concepts, problems, and issues as they have been presented and dramatized in works of literature and cinema. Discussion of issues concerning ethics, epistemology, ontology, and logic. Students read or view works from a variety of media, including novels, short stories, and films.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

PHIL3810 - Philosophy of Art (DHA) - 3 - Credits

Course Overview

Course Prefix
PHIL

Course Number
3810

Department
History, Cultures & Ideas

Course Title
Philosophy of Art (DHA)

General Education Attribute
DHA

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Analysis of traditional theories of aesthetics and art criticism. Theories are applied to illustrative examples, including music, painting, photography, sculpture, dance, literature and cinema.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

PHIL3820 - Theories of Sex and Gender (DHA) - 3 - Credits

Course Overview

Course Prefix
PHIL

Course Number
3820

Department
History, Cultures & Ideas

Course Title
Theories of Sex and Gender (DHA)

General Education Attribute
DHA

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Analysis of foundational theories for the study of gender and sexuality. Of central interest are the ethical issues raised in theorizing gender, sexuality, and sex: what would a claim to sexual justice look like and what could ground such a claim.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

PHIL3990 - Philosophy and Pop Culture (DHA) - 3 - Credits

Course Overview

Course Prefix
PHIL

Course Number
3990

Department
History, Cultures & Ideas

Course Title
Philosophy and Pop Culture (DHA)

General Education Attribute
DHA

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This is a variable topic course which explores philosophical ideas through topics drawn from popular culture. The aim is to make connections between our popular culture and perennial philosophical questions. It may be repeated once with a change in topic.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Repeatable for Credit:
99

No Requirements

PHIL4250 - Tolkien and Lewis on Myth and Truth - 3 - Credits

Course Overview

Course Prefix
PHIL

Course Number
4250

Department
History, Cultures & Ideas

Course Title
Tolkien and Lewis on Myth and Truth

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Philosophical study of myth and fairy tales. Topics include the relation of myth to truth, symbolic language and the limits of natural reason, and the role of imagination in belief.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

PHIL4300 - Epistemology (DHA) - 3 - Credits

Course Overview

Course Prefix
PHIL

Course Number
4300

Department
History, Cultures & Ideas

Course Title
Epistemology (DHA)

General Education Attribute
DHA

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Study of foundations of knowledge and belief systems, and related topics in epistemology, including perception, certainty, and skepticism.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

PHIL4310 - Philosophy of Science (DHA) - 3 - Credits

Course Overview

Course Prefix
PHIL

Course Number
4310

Department
History, Cultures & Ideas

Course Title
Philosophy of Science (DHA)

General Education Attribute
DHA

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Study of different views of the nature of science: the classical traditions of Hempel and Popper, Kuhn's subjectivism, and Feyerabend's anarchism. Topics include confirmation, induction, scientific realism, reductionism, and the growth of scientific knowledge.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

PHIL4400 - Metaphysics - 3 - Credits

Course Overview

Course Prefix
PHIL

Course Number
4400

Department
History, Cultures & Ideas

Course Title
Metaphysics

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Study of fundamental problems of existence. Topics include: mind and its relation to the body, determinism and human freedom, fatalism, idealism and realism, truth, and our knowledge of the world.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

PHIL4410 - Philosophy of Mind (DHA) - 3 - Credits

Course Overview

Course Prefix
PHIL

Course Number
4410

Department
History, Cultures & Ideas

Course Title
Philosophy of Mind (DHA)

General Education Attribute
DHA

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Beginning with the context of Cartesian mind/body dualism, a thorough examination of Cartesian privacy, privileged access, and the problem of other minds is conducted. Ancillary topics may include the mind/machine controversy and animal intelligence.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

PHIL4500 - Virtue Ethics (DHA) - 3 - Credits

Course Overview

Course Prefix
PHIL

Course Number
4500

Department
History, Cultures & Ideas

Course Title
Virtue Ethics (DHA)

General Education Attribute
DHA

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students examine how character excellences can serve as a foundation for ethical theory. Topics covered include the nature of the virtues, moral motivation and the emotions, moral education, practical wisdom, friendship and family relationships, and a deep concept of happiness.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

PHIL4530 - Ethics and Biotechnology (DSC) - 3 - Credits

Course Overview

Course Prefix
PHIL

Course Number
4530

Department
History, Cultures & Ideas

Dual-Listed Courses
PHIL6530 - Ethics and Biotechnology

Course Title
Ethics and Biotechnology (DSC)

General Education Attribute
DSC

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Interdisciplinary examination of key issues such as: cloning, human genetic screening and therapy, and transgenic animals and food.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

PHIL4600 - Philosophy of Law - 3 - Credits

Course Overview

Course Prefix
PHIL

Course Number
4600

Department
History, Cultures & Ideas

Course Title
Philosophy of Law

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Examines the nature of law, relations between law and morality, the obligation to obey law, ways to interpret law, the justification of legal punishment, and appropriate conditions for civil and criminal liability.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

PHIL4900 - Philosophy Seminar - 3 - Credits

Course Overview

Course Prefix
PHIL

Course Number
4900

Department
History, Cultures & Ideas

Course Title
Philosophy Seminar

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Detailed consideration of a particular philosopher or philosophical problem. Course may be repeated when a different topic is discussed.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- PHIL3010 - Survey of Ancient and Medieval Philosophy (CI)
  OR PHIL3020 - Survey of Modern Philosophy (CI)

PHIL4910 - Readings and Research - 1 - 4 Credits

Course Overview

Course Prefix
PHIL

Course Number
4910

Department
History, Cultures & Ideas

Course Title
Readings and Research

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Independent study of a particular philosopher or philosophical topic. Course may be repeated when a different topic is discussed.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
4

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
4

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
4

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
4

Lecture Hours Operator:
TO

Special Approval

Instructor permission

No Requirements

PHIL4920 - Senior Honors Seminar - 1 - Credits

Course Overview

Course Prefix
PHIL

Course Number
4920

Department
History, Cultures & Ideas

Course Title
Senior Honors Seminar

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Credit for completing and presenting a senior honors thesis project. Requirement may be fulfilled by publishing the thesis in an academic journal, defending the thesis before a faculty committee, presenting the thesis at an academic conference, or presenting the thesis in the philosophy session during Scholar's Day.

Credit Hours

Credit Hours Min:
1

Contact Hours

Contact Hours Min:
1

Billing Hours

Billing Hours Min:
1

Lecture Hours

Lecture Hours Min:
1

No Requirements

PHIL4930 - Senior Honors Thesis - 1 - 4 Credits

Course Overview

Course Prefix
PHIL

Course Number
4930

Department
History, Cultures & Ideas

Course Title
Senior Honors Thesis

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Independent study research credits for preparation of a senior honors thesis to fulfill requirements for a degree in philosophy with departmental honors.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
4

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
4

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
4

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
4

Lecture Hours Operator:
TO

Special Approval

Instructor permission

No Requirements

PHIL4950 - Senior Thesis in Philosophy - 3 - Credits

Course Overview

Course Prefix
PHIL

Course Number
4950

Department
History, Cultures & Ideas

Course Title
Senior Thesis in Philosophy

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students work closely with a faculty member to produce a substantive senior thesis on a figure, topic, or problem in philosophy.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

21 PHIL credits fulfilled

PHIL4990 - Philosophy Capstone Portfolio - 1 - Credits

Course Overview

Course Prefix
PHIL

Course Number
4990

Department
History, Cultures & Ideas

Course Title
Philosophy Capstone Portfolio

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course is for Philosophy majors near the completion of the degree.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Special Approval

Instructor permission

Simple Requisites

Prerequisite

Type
Prerequisite

Required

At lease 21 PHIL credits fulfilled

PHIL5400 - Ethics and Emerging Technology (DHA) - 3 - Credits

Course Overview

Course Prefix
PHIL

Course Number
5400

Department
History, Cultures & Ideas

Cross-Listed Courses
CAI5400 - Ethics and Emerging Technology

Course Title
Ethics and Emerging Technology (DHA)

General Education Attribute
DHA

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces students to key ethical frameworks and concepts applied to questions of emerging technology, both by considering macro-level questions of technology and its impact on human flourishing as well as applied tech ethics case studies.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Course Learning Objectives

Course Learning Outcomes

1. Gaining a basic understanding of the subject (e.g., factual knowledge, methods, principles, generalizations, theories).
2. Developing ethical reasoning and/or ethical decision making.
3. Learning to analyze and critically evaluate ideas, arguments, and points of view.

PHIL5430 - History and Philosophy of Physical Activity and Sport (CI) - 3 - Credits

Course Overview

Course Prefix
PHIL

Course Number
5430

Department
History, Cultures & Ideas

Cross-Listed Courses
KIN5430 - History and Philosophy of Physical Activity and Sport (CI)

Course Title
History and Philosophy of Physical Activity and Sport (CI)

General Education Attribute
CI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course explores historical and philosophical aspects of physical activities popular in today's culture, particularly sports. Students examine these practices within historical and social contexts, understanding their evolution and significance, alongside related philosophical and ethical issues like doping and sex categorization.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Course Learning Objectives

Course Learning Outcomes
1. Understand the historical origins of contemporary movement practices, particularly sport, and why challenging questions arise.
2. Explain the main philosophical and ethical frameworks of sport.
3. Apply historical and philosophical knowledge to current issues like performance-enhancing technology use in professional sport.
4. Engage critically with historical, philosophical, and journalistic texts to analyze and evaluate complex ideas.
5. Reflect thoughtfully on class discussions and materials, integrating personal perspectives and connecting them to broader conversations about human movement and sport.
6. Collaborate effectively in group activities and discussions to develop and apply critical analysis, argumentation, communication, and problem-solving skills.
7. Craft persuasive and well-structured written and spoken arguments adapted to specific purposes, genres, and audiences, using feedback to refine their effectiveness.

PHIL6530 - Ethics and Biotechnology - 3 - Credits

Course Overview

Course Prefix
PHIL

Course Number
6530

Department
History, Cultures & Ideas

Dual-Listed Courses
PHIL4530 - Ethics and Biotechnology (DSC)

Course Title
Ethics and Biotechnology

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Interdisciplinary examination of key issues such as: cloning, human genetic screening and therapy, and transgenic animals and food. To receive graduate credit, extra readings and a 25-30 page paper will be required.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

PHIL6890 - Philosophy of Science - 3 - Credits

Course Overview

Course Prefix
PHIL

Course Number
6890

Department
History, Cultures & Ideas

Course Title
Philosophy of Science

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course includes the study of different views of the nature of science: the classical traditions of Hempel and Popper, Kuhn's subjectivism, and Feyerabend's anarchism. Topics include confirmation, induction, scientific realism, reductionism, and the growth of scientific knowledge.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

PHIL6900 - Independent Study - 1 - 4 Credits

Course Overview

Course Prefix
PHIL

Course Number
6900

Department
History, Cultures & Ideas

Course Title
Independent Study

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course allows students to pursue personal research interests by formalizing an independent project under the guidance of a professor or faculty mentor.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
4

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
4

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
4

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
4

Lecture Hours Operator:
TO

No Requirements

PHYS1010 - Elementary Physics (BPS) - 3 - Credits

Course Overview

Course Prefix
PHYS

Course Number
1010

Department
Physics

Course Title
Elementary Physics (BPS)

General Education Attribute
BPS

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides a foundation in the historical basis and real-world application of physics principles. Students learn that the world works by a discoverable set of rules, and emphasis is placed on fundamental concepts and logic rather than numerical problem-solving.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

PHYS1015 - Elementary Physics Laboratory - 1 - Credits

Course Overview

Course Prefix
PHYS

Course Number
1015

Department
Physics

Course Title
Elementary Physics Laboratory

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
PHYS 1010 must be taken concurrently with PHYS 1015, but PHYS 1015 is optional.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Simple Requisites

Corequisite

Type
Corequisite

Required

Enroll in the following Courses:

- PHYS1010 - Elementary Physics (BPS)

PHYS1040 - Introductory Astronomy (BPS) - 3 - Credits

Course Overview

Course Prefix
PHYS

Course Number
1040

Department
Physics

Course Title
Introductory Astronomy (BPS)

General Education Attribute
BPS

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Exploration of solar system and universe. Laws of motion, fundamental interactions, structure of matter, electromagnetic radiation, and conceptual models of celestial motions. Conceptual and quantitative homework problems and exams, along with writing assignments and observation reports, are required. Facility with high school mathematics is expected.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

PHYS1080 - Intelligent Life in the Universe (BPS) - 3 - Credits

Course Overview

Course Prefix
PHYS

Course Number
1080

Department
Physics

Course Title
Intelligent Life in the Universe (BPS)

General Education Attribute
BPS

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Study of the likelihood of extraterrestrial intelligence and its probable locations. Nature and evolution of life on Earth, as well as stellar evolution and planetary environments. Discussion of psychology of UFO phenomena.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

One MATH or STAT prefix course at the 1000 level or higher

PHYS1100 - Great Ideas in Physics (BPS) - 3 - Credits

Course Overview

Course Prefix
PHYS

Course Number
1100

Department
Physics

Course Title
Great Ideas in Physics (BPS)

General Education Attribute
BPS

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Descriptive introduction to the principles underlying contemporary physics. Great ideas will include relativity and quantum mechanics and such consequences and applications as the twin paradox, black holes, nuclear energy, magnetic imaging, lasers, superconductivity, and the paradox of Schrodinger's cat.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Other Enrollment Recommendations
Facility with high school algebra is expected.

No Requirements

PHYS1200 - Introduction to Physics by Hands-on Exploration (BPS) - 4 - Credits

Course Overview

Course Prefix
PHYS

Course Number
1200

Department
Physics

Course Title
Introduction to Physics by Hands-on Exploration (BPS)

General Education Attribute
BPS

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Overview of physics concepts important in today's society. Explores structure of matter, electricity and magnetism, light and sound, forces, energy, momentum, thermodynamics, and modern physics. Required laboratory emphasizes hands-on, inquiry-based activities.

Credit Hours

Credit Hours
Min:
4

Contact Hours

Contact Hours
Min:
4

Billing Hours

Billing Hours
Min:
4

Lecture Hours

Lecture Hours
Min:
4

No Requirements

PHYS1800 - Physics of Technology (BPS) - 4 - Credits

Course Overview

Course Prefix
PHYS

Course Number
1800

Department
Physics

Course Title
Physics of Technology (BPS)

General Education Attribute
BPS

Grade Mode
Standard Letter

Repeat Status
NR

Course Description

Overview of the classical physics on which industrial technology is based. Elements of kinematics, forces, energy, momentum, thermodynamics, electric and magnetic fields, waves, and optics. Required laboratory.

Credit Hours

Credit Hours
Min:
4

Contact Hours

Contact Hours
Min:
4

Billing Hours

Billing Hours
Min:
4

Lecture Hours

Lecture Hours
Min:
4

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete the prerequisite through coursework or exam.

Fulfill ANY of the following requirements:

Coursework

Complete ALL of the following Courses:

- MATH1050 - College Algebra (QL)
- MATH1060 - Trigonometry

OR

Exams

Prerequisites filled by Exam

- ACT Math score of at least 27 or equivalent SAT Math score.
- Sufficient score on AP Calculus Exam equivalent to MATH1050 COLLEGE ALGEBRA (QL) + MATH1060 TRIGONOMETRY or higher.

PHYS2010 - General Physics I - 4 - Credits

Course Overview

Course Prefix
PHYS

Course Number
2010

Department
Physics

Course Title
General Physics I

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students study mechanics and thermal physics. Mechanics topics include kinematics, Newtonian dynamics, rotations, gravitation, harmonic motion, mechanical waves, and fluids. Thermal physics topics include temperature, heat, calorimetry, and thermodynamics. Course is algebra based.

Credit Hours

Credit Hours Min:
4

Contact Hours

Contact Hours Min:
4

Billing Hours

Billing Hours Min:
4

Lecture Hours

Lecture Hours Min:
4

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete the prerequisite through coursework or exam.

Fulfill ANY of the following requirements:

Coursework

Complete ANY of the following Courses:

- MATH1060 - Trigonometry
- MATH1210 - Calculus I (QL)

OR

Exam

Prerequisite completed by exam

Sufficient score on AP Calculus Exam equivalent to MATH 1050 + MATH 1060 or higher,

Corequisite

Type
Corequisite

Required

Enroll in the following Courses:

- PHYS2015 - General Physics Lab I

PHYS2015 - General Physics Lab I - 1 - Credits

Course Overview

Course Prefix
PHYS

Course Number
2015

Department
Physics

Course Title
General Physics Lab I

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Intended to supplement the material covered in PHYS 2010 and help students visualize and experience the material being covered in lecture. Taught using a combination of traditional labs and computer based discovery labs.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Simple Requisites

Corequisite

Type
Corequisite

Required

Enroll in the following Courses:

- PHYS2010 - General Physics I

PHYS2020 - General Physics II - 4 - Credits

Course Overview

Course Prefix
PHYS

Course Number
2020

Department
Physics

Course Title
General Physics II

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
An algebra based physics course on the study of electricity, magnetism and light. Covers forces between point charges, the ideas of electric potentials, the relationship between potential, charge and energy. Other E-M material covered will include basic AC and DC circuits, forces on currents in magnetic fields, and the relationship between electricity and light. Light topics covered will include geometric optics, lenses and mirrors and the wave nature of light, diffraction and interference. Taught using lectures, demonstrations, videos, and group problem solving. Students will be required to explain their homework solutions on the board to the entire class. Can be used by science majors to complete the Physical Science General Education requirement.

Credit Hours

Credit Hours
Min:
4

Contact Hours

Contact Hours
Min:
4

Billing Hours

Billing Hours
Min:
4

Lecture Hours

Lecture Hours
Min:
4

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- PHYS2010 - General Physics I
- PHYS2015 - General Physics Lab I

Corequisite

Type
Corequisite

Required

Enroll in the following Courses:

- PHYS2025 - General Physics Lab II

PHYS2025 - General Physics Lab II - 1 - Credits

Course Overview

Course Prefix
PHYS

Course Number
2025

Department
Physics

Course Title
General Physics Lab II

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Intended to supplement the materials covered in PHYS 2020 and help students visualize and experience the material being covered in lecture. Taught using a combination of traditional labs and computer based discovery labs.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Simple Requisites

Corequisite

Type
Corequisite

Required

Enroll in the following Courses:

- PHYS2020 - General Physics II

PHYS2110 - General Physics—Life Sciences I - 4 - Credits

Course Overview

Course Prefix
PHYS

Course Number
2110

Department
Physics

Course Title
General Physics—Life Sciences I

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students study kinematics and dynamics of particles and systems of particles. The course introduces Newton's Laws of motion, momentum and energy conservation, rotations, and thermodynamics, with applications in biology and biotechnology. A recitation and lab are required.

Credit Hours

Credit Hours
Min:
4

Contact Hours

Contact Hours
Min:
4

Billing Hours

Billing Hours
Min:
4

Lecture Hours

Lecture Hours
Min:
4

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete at least 1 of the following courses:

- MATH1060 - Trigonometry
- MATH1100 - Calculus Techniques (QL)
- MATH1210 - Calculus I (QL)

PHYS2120 - General Physics - Life Sciences II (BPS) - 4 - Credits

Course Overview

Course Prefix
PHYS

Course Number
2120

Department
Physics

Course Title
General Physics - Life Sciences II (BPS)

General Education Attribute
BPS

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course is an introduction to electromagnetism, optics, and quantum phenomena including the microscopic structure of matter, with applications in biology and biotechnology. A recitation and lab are required.

Credit Hours

Credit Hours
Min:
4

Contact Hours

Contact Hours
Min:
4

Billing Hours

Billing Hours
Min:
4

Lecture Hours

Lecture Hours
Min:
4

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Fulfill ALL of the following requirements:

Required

Complete ALL of the following Courses:

- PHYS2110 - General Physics—Life Sciences I

AND

Required

Complete at least 1 of the following courses:

- MATH1060 - Trigonometry
- MATH1100 - Calculus Techniques (QL)
- MATH1210 - Calculus I (QL)

PHYS2210 - Physics for Scientists and Engineers I (QI/BPS) - 4 - Credits

Course Overview

Course Prefix
PHYS

Course Number
2210

Department
Physics

Course Title
Physics for Scientists and Engineers I (QI/BPS, QI BPS)

General Education Attribute

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers the study of motion and thermal physics including vectors, kinematics, forces, Newton's three laws of motion, circular motion and rotations, harmonic motion, momentum, energy and work, gravity, fluids, and thermodynamics. It includes lecture and required recitation.

Credit Hours

Credit Hours
Min:
4

Contact Hours

Contact Hours
Min:
4

Billing Hours

Billing Hours
Min:
4

Lecture Hours

Lecture Hours
Min:
4

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- MATH1210 - Calculus I (QL)

PHYS2215 - Physics for Scientists and Engineers Lab I - 1 - Credits

Course Overview

Course Prefix
PHYS

Course Number
2215

Department
Physics

Course Title
Physics for Scientists and Engineers Lab I

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Computer assisted laboratory investigations of mechanics and thermal physics principles taught in PHYS 2210 and PHYS 2310.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Either course may be taken concurrently.

Complete ANY of the following Courses:

- PHYS2210 - Physics for Scientists and Engineers I (QI/BPS)
- PHYS2310 - Physics for Scientists I (BPS)

PHYS2220 - Physics for Scientists and Engineers II (BPS/QI) - 4 - Credits

Course Overview

Course Prefix
PHYS

Course Number
2220

Department
Physics

Course Title
Physics for Scientists and Engineers II (BPS/QI)

General Education Attribute
BPS, QI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers the study of waves, electricity and magnetism, optics, and quantum phenomena. Topics include electric and magnetic forces and fields, electric potential, Maxwell's equations, DC and AC circuits, geometrical optics, wave nature of light, special relativity, and atomic, molecular, nuclear phenomena. The course includes lecture and required recitation.

Credit Hours

Credit Hours
Min:
4

Contact Hours

Contact Hours
Min:
4

Billing Hours

Billing Hours
Min:
4

Lecture Hours

Lecture Hours
Min:
4

Simple Requisites

Prerequisite

Type
Prerequisite

Requried

Fulfill ALL of the following requirements:

Required

Complete ALL of the following Courses:

- MATH1220 - Calculus II (QL)

AND

Required

Complete at least 1 of the following courses:

- PHYS2210 - Physics for Scientists and Engineers I (QI/BPS)
- PHYS2310 - Physics for Scientists I (BPS)

PHYS2225 - Physics for Scientists and Engineers Lab II - 1 - Credits

Course Overview

Course Prefix
PHYS

Course Number
2225

Department
Physics

Course Title
Physics for Scientists and Engineers Lab II

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Computer assisted laboratory investigations of wave, electricity and magnetism, optics, and quantum-physics principles taught in PHYS 2220 or PHYS 2320.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Either of the following courses may be taken concurrently.

Complete ANY of the following Courses:

- PHYS2220 - Physics for Scientists and Engineers II (BPS/QI)
- PHYS2320 - Physics for Scientists II (BPS)

PHYS2310 - Physics for Scientists I (BPS) - 4 - Credits

Course Overview

Course Prefix
PHYS

Course Number
2310

Department
Physics

Course Title
Physics for Scientists I (BPS)

General Education Attribute
BPS, QI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
The study of motion and thermal physics. Topics include kinematics, forces, Newton?s laws of motion, momentum, rotations and torque, work and potential energy, conservation laws, harmonic motion, gravity, fluids, and thermodynamics. Includes activities related to the profession of physics.

Credit Hours

Credit Hours
Min:
4

Contact Hours

Contact Hours
Min:
4

Billing Hours

Billing Hours
Min:
4

Lecture Hours

Lecture Hours
Min:
4

Special Approval

Instructor permission

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- MATH1210 - Calculus I (QL)

PHYS2320 - Physics for Scientists II (BPS) - 4 - Credits

Course Overview

Course Prefix
PHYS

Course Number
2320

Department
Physics

Course Title
Physics for Scientists II (BPS)

General Education Attribute
BPS, QI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description

Students study waves, electromagnetism, quantum phenomena, and relativity. Topics include sound waves, electromagnetic forces and fields, electric potential, Maxwell's equations, electrical circuits, optics, particle-wave duality, atomic and nuclear phenomena, and special relativity. The course includes activities related to the profession of physics.

Credit Hours

Credit Hours Min:
4

Contact Hours

Contact Hours Min:
4

Billing Hours

Billing Hours Min:
4

Lecture Hours

Lecture Hours Min:
4

Special Approval

Instructor permission

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Fulfill ALL of the following requirements:

Required

Complete ALL of the following Courses:

- MATH1220 - Calculus II (QL)

AND

Required

Complete at least 1 of the following courses:

- PHYS2310 - Physics for Scientists I (BPS)
- PHYS2210 - Physics for Scientists and Engineers I (QI/BPS)

PHYS2710 - Introductory Modern Physics - 3 - Credits

Course Overview

Course Prefix
PHYS

Course Number
2710

Department
Physics

Course Title
Introductory Modern Physics

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Overview of the origins, principles, and practical applications of quantum mechanics. Atomic structure and periodic table, molecular bonding, solids, electronic properties of metals and semiconductors, and superconductivity.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Fulfill ALL of the following requirements:

Required

Complete ALL of the following Courses:

- MATH1220 - Calculus II (QL)

AND

Required

Complete at least 1 of the following courses:

- PHYS2220 - Physics for Scientists and Engineers II (BPS/QI)
- PHYS2320 - Physics for Scientists II (BPS)

PHYS2977 - Cooperative Education - 1 - 3 Credits

Course Overview

Course Prefix
PHYS

Course Number
2977

Department
Physics

Course Title
Cooperative Education

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Provides supervised on-the-job training in physics. Students meet with the instructor/coordinator periodically during the course to determine and evaluate learning objectives, hours to be worked, and credit agreements.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

Special Approval
Instructor permission

No Requirements

PHYS3010 - Space Exploration from Earth to the Solar System (DSC/QI) - 3 - Credits

Course Overview

Course Prefix
PHYS

Course Number
3010

Department
Physics

Course Title
Space Exploration from Earth to the Solar System (DSC/QI)

General Education Attribute
DSC, QI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Comparative introduction to the Earth and other planets in our solar system, including geological structure and atmosphere. Emphasis on space exploration methods, including spacecraft and detection instrumentation. Examines latest results of Mars missions, Jupiter and Saturn exploration, etc.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Course Sets:

- Quantitative Literacy (QL) Course
- Breadth Physical Sciences (BPS) Course

PHYS3030 - The Universe (DSC/QI) - 3 - Credits

Course Overview

Course Prefix
PHYS

Course Number
3030

Department
Physics

Course Title
The Universe (DSC/QI)

General Education Attribute
DSC, QI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students explore properties and origins of the universe, based on Einstein's theory of gravity. Topics include curved space-time; black holes, white holes, and worm holes; the big bang; multiple universes; and the births of stars, galaxies, heavy atoms, and planets.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Course Sets:

- Quantitative Literacy (QL) Course

PHYS3150 - Energy in the Twenty-first Century (DSC/QI) - 3 - Credits

Course Overview

Course Prefix
PHYS

Course Number
3150

Department
Physics

Cross-Listed Courses
GEO3150 - Energy in the Twenty-first Century (DSC/QI)

Course Title
Energy in the Twenty-first Century (DSC/DSC, QI QI)

General Education Attribute

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides a science-based overview of energy resources. Students analyze energy budgets and energy resources, including solar energy, fossil fuels, nuclear energy, and renewable sources. They contrast carbon emissions and potential impacts on climate change for different energy sources.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Course Sets:

- Breadth Physical Sciences (BPS) Course
- Quantitative Intensive (QI) Course

PHYS3500 - Topics in Physics - 1 - 3 Credits

Course Overview

Course Prefix
PHYS

Course Number
3500

Department
Physics

Course Title
Topics in Physics

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Introduces and explores issues in contemporary physics at an intermediate undergraduate level. Focuses on phenomena and experimental methods.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

Special Approval
Instructor permission

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- PHYS2710 - Introductory Modern Physics

PHYS3550 - Intermediate Classical Mechanics - 3 - Credits

Course Overview

Course Prefix
PHYS

Course Number
3550

Department
Physics

Course Title
Intermediate Classical Mechanics

Grade Mode
Standard Letter

Repeat Status
NR

Course Description

Students learn Newtonian mechanics, including dynamics of single and multiple particle systems, conservation laws, harmonic oscillations, central-force motion, rotations, and the two-body problem. Topics may also include advanced topics such as Lagrangian and Hamiltonian mechanics, accelerated reference frames, and chaos.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Fulfill ALL of the following requirements:

Required

Complete ALL of the following Courses:

- MATH2210 - Multivariable Calculus (QI)

AND

Required

Complete at least 1 of the following courses:

- PHYS2220 - Physics for Scientists and Engineers II (BPS/QI) **OR** PHYS2320 - Physics for Scientists II (BPS)

AND

Required

Complete at least 1 of the following courses:

- MATH2250 - Linear Algebra and Differential Equations (QI) **OR** MATH2280 - Ordinary Differential Equations (QI)

PHYS3600 - Electromagnetism I - 3 - Credits

Course Overview

Course Prefix
PHYS

Course Number
3600

Department
Physics

Course Title
Electromagnetism I

Grade Mode
Standard Letter

Repeat Status
NR

Course Description

Students learn about electrostatics and magnetostatics, including the response of materials (both conductors and dielectrics) to electric and magnetic fields. Topics include the Maxwell equations, Coulomb's and Biot-Savart laws, scalar and vector potentials, boundary conditions, multipole expansions, and energy.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequiste

Type
Prerequisite

Required

Fulfill ALL of the following requirements:

Required

Complete ALL of the following Courses:

- MATH2210 - Multivariable Calculus (QI)
- PHYS2710 - Introductory Modern Physics
- PHYS3550 - Intermediate Classical Mechanics

AND

Required

Complete at least 1 of the following courses:

- MATH2250 - Linear Algebra and Differential Equations (QI) **OR** MATH2280 - Ordinary Differential Equations (QI)

PHYS3700 - Thermal Physics - 3 - Credits

Course Overview

Course Prefix
PHYS

Course Number
3700

Department
Physics

Course Title
Thermal Physics

Grade Mode
Standard Letter

Repeat Status
NR

Course Description

Rigorous treatment of laws of thermodynamics and statistical mechanics. Concepts of work, temperature, heat, energy, and entropy; and their application to reversible and irreversible processes. Criteria for equilibrium.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- PHYS2710 - Introductory Modern Physics

PHYS3710 - Intermediate Modern Physics - 3 - Credits

Course Overview

Course Prefix
PHYS

Course Number
3710

Department
Physics

Course Title
Intermediate Modern Physics

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Introduction to the principles and applications of special and general relativity. Space-time, relativistic kinematics and dynamics, gravity and geometry, black holes, Big Bang, nuclei, radioactivity, and nuclear reactions. Interconnections between modern cosmology and elementary particle physics.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Fulfill ALL of the following requirements:

Required

Complete ALL of the following Courses:

- MATH1220 - Calculus II (QL)

AND

Required

Complete at least 1 of the following courses:

- PHYS2220 - Physics for Scientists and Engineers II (BPS/QI)
  OR PHYS2320 - Physics for Scientists II (BPS)

PHYS3750 - Foundations of Wave Phenomena - 3 - Credits

Course Overview

Course Prefix
PHYS

Course Number
3750

Department
Physics

Course Title
Foundations of Wave Phenomena

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course is a survey of wave phenomena in physics, with emphasis on application of mathematical techniques to the wave equation, Schrodinger equation, and Maxwell equations.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Fulfill ALL of the following requirements:

Required

Complete ALL of the following Courses:

- MATH2210 - Multivariable Calculus (QI)
- PHYS2710 - Introductory Modern Physics
- PHYS3550 - Intermediate Classical Mechanics

AND

Required

Complete at least 1 of the following courses:

- MATH2250 - Linear Algebra and Differential Equations (QI) **OR** MATH2280 - Ordinary Differential Equations (QI)

PHYS3870 - Intermediate Physics Laboratory (CI) - 3 - Credits

Course Overview

Course Prefix
PHYS

Course Number
3870

Department
Physics

Course Title
Intermediate Physics Laboratory (CI)

General Education Attribute
CI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Modern experimental techniques, data and error analysis, experimental design, and communication skills. Exercises complement upper-level theory courses, and include some experiments of historical importance.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- CS1400 - Introduction to Computer Science--CS 1
- PHYS2710 - Introductory Modern Physics

*(PHYS2710 INTRO MODERN PHYSICS **may be taken concurrently**)*

PHYS3880 - Advanced Physics Laboratory (CI) - 3 - Credits

Course Overview

Course Prefix
PHYS

Course Number
3880

Department
Physics

Course Title
Advanced Physics Laboratory (CI)

General Education Attribute
CI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Modern experimental physics techniques, with emphasis on student designed and implemented experimental projects.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- PHYS3870 - Intermediate Physics Laboratory (CI)

PHYS4600 - Electromagnetism II - 3 - Credits

Course Overview

Course Prefix
PHYS

Course Number
4600

Department
Physics

Course Title
Electromagnetism II

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students learn about the Maxwell equations and their implications. Topics include electromagnetic induction, conservation laws with fields, electromagnetic waves, dynamic response of materials, electromagnetic potentials, radiation, and the relativistic description of electromagnetism.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- PHYS3600 - Electromagnetism I
- PHYS3750 - Foundations of Wave Phenomena

PHYS4700 - Quantum Mechanics I - 3 - Credits

Course Overview

Course Prefix
PHYS

Course Number
4700

Department
Physics

Course Title
Quantum Mechanics I

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers principles of quantum mechanics, operators in Hilbert space, matrix mechanics, angular momentum, spin, perturbation theory, and applications.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- PHYS3600 - Electromagnetism I
- PHYS3750 - Foundations of Wave Phenomena

PHYS4710 - Quantum Mechanics II - 3 - Credits

Course Overview

Course Prefix
PHYS

Course Number
4710

Department
Physics

Course Title
Quantum Mechanics II

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Continuation of PHYS 4700.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- PHYS4700 - Quantum Mechanics I

PHYS4900 - Research in Physics (CI) - 1 - 3 Credits

Course Overview

Course Prefix
PHYS

Course Number
4900

Department
Physics

Course Title
Research in Physics (CI)

General Education Attribute
CI

Grade Mode
Temporary Standard Letter

Repeat Status
RP

Course Description
tudents pursue research with with a faculty mentor. The research topic may align with the faculty mentor's research program or be student driven. A public presentation and written report are required.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- PHYS2710 - Introductory Modern Physics

PHYS5210 - Introduction to Photonics and Devices - 3 - Credits

Course Overview

Course Prefix
PHYS

Course Number
5210

Department
Physics

Cross-Listed Courses
ECE5210 - Introduction to Photonics and Devices

Course Title
Introduction to Photonics and Devices

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course explores generation and manipulation of light by devices. Topics include electromagnetic waves and interfaces, waveguides, basic quantum mechanics, quantum theory of light, photon angular momentum, electronic band structures, optoelectronics, photonic crystals, metamaterials, entanglement, and photonic integrated circuits.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ANY of the following Courses:

- PHYS3600 - Electromagnetism I
  OR ECE3870 - Electromagnetics I

PHYS5250 - Photonics Laboratory - 3 - Credits

Course Overview

Course Prefix
PHYS

Course Number
5250

Department
Physics

Cross-Listed Courses
ECE5250 - Photonics Laboratory

Course Title
Photonics Laboratory

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students obtain hands-on experience in manipulating light both as classical beams and as individual quantum particles (photons), in the settings of microwave, classical optical, and quantum photonics.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ANY of the following Courses:

- PHYS3600 - Electromagnetism I
- ECE3870 - Electromagnetics I

Course Learning Objectives

Course Learning Outcomes
1. Gain the ability to operate many optical instruments and perform optical alignment.

2. Be able to characterize the transmission and reflection of waveguides that range from metallic microwave waveguides on a chip to dielectric optical waveguides on a chip.

3. Gain an understanding basic wave optics, including polarization, interference, resonance, and coupling.

4. Be able to characterize photon sources, photon detectors, and the quantum states of entangled photons.

PHYS5340 - Methods of Theoretical Physics I - 3 - Credits

Course Overview

Course Prefix
PHYS

Course Number
5340

Department
Physics

Course Title
Methods of Theoretical Physics I

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Physics applications of vector calculus and differential geometry, group theory, infinite series, complex analysis, differential equations, Sturm-Liouville theory, orthogonal functions, integral equations, and the calculus of variations.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

PHYS5350 - Methods of Theoretical Physics II - 3 - Credits

Course Overview

Course Prefix
PHYS

Course Number
5350

Department
Physics

Course Title
Methods of Theoretical Physics II

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Continuation of PHYS 5340.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- PHYS5340 - Methods of Theoretical Physics I

PHYS5500 - Intermediate Topics in Physics (Topic) - 1 - 3 Credits

Course Overview

Course Prefix
PHYS

Course Number
5500

Department
Physics

Course Title
Intermediate Topics in Physics (Topic)

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Explores issues in contemporary physics at the advanced undergraduate and beginning graduate level.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

PHYS5530 - Solid State Physics I - 3 - Credits

Course Overview

Course Prefix
PHYS

Course Number
5530

Department
Physics

Dual-Listed Courses
PHYS6530 - Solid State Physics I

Course Title
Solid State Physics I

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Modern theory of the solid state. Bulk properties of solids, including the crystal lattice, cohesion, electronic and vibrational structure. Response to stimuli, such as electric, magnetic, and optical fields. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- PHYS3700 - Thermal Physics
- PHYS4600 - Electromagnetism II
- PHYS4710 - Quantum Mechanics II

(PHYS4710 QUANTUM MECHANICS II may be taken concurrently)

PHYS5650 - Optics I - 3 - Credits

Course Overview

Course Prefix
PHYS

Course Number
5650

Department
Physics

Cross-Listed Courses
ECE5650 - Optics I

Dual-Listed Courses
PHYS6650 - Optics I

Course Title
Optics I

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students learn the mathematics of wave motion, electromagnetic theory of light, light propagation, geometrical optics, and superposition of waves. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ANY of the following Courses:

- PHYS3600 - Electromagnetism I
- ECE3870 - Electromagnetics I

PHYS5700 - Introduction to Microfabrication - 3 - Credits

Course Overview

Course Prefix
PHYS

Course Number
5700

Department
Physics

Cross-Listed Courses

BENG5700 - Introduction to Microfabrication, ECE5700 - Introduction to Microfabrication, MAE5700 - Introduction to Microfabrication

Course Title

Introduction to Microfabrication

Grade Mode
Standard Letter

Repeat Status
NR

Course Description

This course covers materials, wet chemical cleaning and etch, photolithography, metal deposition, doping, carrier density and conductivity, microfluidics, and micro-electronic-mechanical-systems.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Special Approval

Instructor permission

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Fulfill ALL of the following requirements:

Required

Complete ALL of the following Courses:

- PHYS2215 - Physics for Scientists and Engineers Lab I
- PHYS2225 - Physics for Scientists and Engineers Lab II

AND

Required

Complete ANY of the following Courses:

- PHYS2210 - Physics for Scientists and Engineers I (QI/BPS) **OR** PHYS2310 - Physics for Scientists I (BPS)

AND

Required

Complete ANY of the following Courses:

- PHYS2220 - Physics for Scientists and Engineers II (BPS/QI) **OR** PHYS2320 - Physics for Scientists II (BPS)

PHYS5710 - Advanced Microfabrication - 3 - Credits

Course Overview

Course Prefix
PHYS

Course Number
5710

Department
Physics

Cross-Listed Courses
BENG5710 - Advanced Microfabrication, ECE5710 - Advanced Microfabrication

Course Title
Advanced Microfabrication

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Students are trained to use all necessary tools at the Nanoscale Device Laboratory to perform fabrication of micro/nanostructures for their research needs, including undergraduate and graduate research projects.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete at least 1 of the following courses:

- BENG5700 - Introduction to Microfabrication
- ECE5700 - Introduction to Microfabrication
- MAE5700 - Introduction to Microfabrication
- PHYS5700 - Introduction to Microfabrication

PHYS5800 - Physics Colloquium - 1 - Credits

Course Overview

Course Prefix
PHYS

Course Number
5800

Department
Physics

Course Title
Physics Colloquium

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
A series of invited lectures on specialized topics in physics and related subjects.

Credit Hours

Credit Hours Min:
1

Contact Hours

Contact Hours Min:
1

Billing Hours

Billing Hours Min:
1

Lecture Hours

Lecture Hours Min:
1

No Requirements

PHYS5910 - Relativity I - 3 - Credits

Course Overview

Course Prefix
PHYS

Course Number
5910

Department
Physics

Dual-Listed Courses
PHYS6910 - Relativity I

Course Title
Relativity I

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Foundations of spacetime physics. Survey of the basics of special and general relativity, the description of curved spacetime, and the Einstein equations. Exact solutions, applications, tests, and the mathematical techniques of general relativity. For graduate (6000 level), additional assignments will be required.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- PHYS3710 - Intermediate Modern Physics
- PHYS4600 - Electromagnetism II

PHYS6010 - Classical Mechanics I - 3 - Credits

Course Overview

Course Prefix
PHYS

Course Number
6010

Department
Physics

Course Title
Classical Mechanics I

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Lagrange's equations, Hamilton's principle, Hamilton's equations, canonical transformations, Hamilton-Jacobi theory, central forces, noninertial reference frames, rigid body motion, small oscillations, relativistic mechanics, canonical perturbation theory, continuum mechanics.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

PHYS6110 - Electrodynamics I - 3 - Credits

Course Overview

Course Prefix
PHYS

Course Number
6110

Department
Physics

Course Title
Electrodynamics I

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students learn fundamental laws of electrostatics and magnetostatics; dielectric media, Maxwell's equations, time varying fields, and electromagnetic waves. Waveguides and radiation by moving charges are also covered.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

PHYS6120 - Electrodynamics II - 3 - Credits

Course Overview

Course Prefix
PHYS

Course Number
6120

Department
Physics

Course Title
Electrodynamics II

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Continuation of PHYS 6110.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- PHYS6110 - Electrodynamics I

PHYS6210 - Quantum Mechanics I - 3 - Credits

Course Overview

Course Prefix
PHYS

Course Number
6210

Department
Physics

Course Title
Quantum Mechanics I

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Advanced quantum mechanics stressing the formalism of states and operators in the study of quantum dynamics, angular momentum, symmetry and group theory, perturbation theory and scattering.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- PHYS4710 - Quantum Mechanics II

(or equivalent)

PHYS6240 - Space Environment and Engineering - 3 - Credits

Course Overview

Course Prefix
PHYS

Course Number
6240

Department
Physics

Cross-Listed Courses
ECE6240 - Space Environment and Engineering

Course Title
Space Environment and Engineering

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Study of space environment and models used for engineering analysis. Topics include considerations for engineering in the space environment such as plasma interactions, debris, chemical reactions, radiation effects, and thermal issues.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ECE5230 - Spacecraft Systems Engineering
  OR ECE6230 - Spacecraft Systems Engineering

(may be taken concurrently)

PHYS6250 - Cooperative Work Experience - 1 - 6 Credits

Course Overview

Course Prefix
PHYS

Course Number
6250

Department
Physics

Course Title
Cooperative Work Experience

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Allows students to register for credit when working in a physics-related position.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
6

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
6

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
6

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
6

Lecture Hours Operator:
TO

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Permission of department head prior to enrollment.

PHYS6310 - Solar-terrestrial Physics I - 3 - Credits

Course Overview

Course Prefix
PHYS

Course Number
6310

Department
Physics

Course Title
Solar-terrestrial Physics I

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students study solar-terrestrial physics, including the upper atmosphere, planetary magnetic fields, the interaction of the sun with planetary properties, and an overview of ionospheric measurement techniques.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

PHYS6410 - Statistical Mechanics I - 3 - Credits

Course Overview

Course Prefix
PHYS

Course Number
6410

Department
Physics

Course Title
Statistical Mechanics I

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Review of thermodynamics. Discussion of foundation of statistical mechanics and applications to ideal classical and quantum gases, blackbody radiation, ideal crystals, interacting classical gases and liquids, phase transitions, and critical phenomena.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

PHYS6530 - Solid State Physics I - 3 - Credits

Course Overview

Course Prefix
PHYS

Course Number
6530

Department
Physics

Dual-Listed Courses
PHYS5530 - Solid State Physics I

Course Title
Solid State Physics I

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Modern theory of the solid state. Bulk properties of solids, including the crystal lattice, cohesion, electronic and vibrational structure. Response to stimuli, such as electric, magnetic, and optical fields.Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- PHYS3700 - Thermal Physics
- PHYS4600 - Electromagnetism II
- PHYS4710 - Quantum Mechanics II

(PHYS4710 QUANTUM MECHANICS II may be taken concurrently)

PHYS6550 - Physics of Materials I - 3 - Credits

Course Overview

Course Prefix
PHYS

Course Number
6550

Department
Physics

Course Title
Physics of Materials I

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Application of microscopic (quantum) and macroscopic (classical) physics to study materials properties (e.g., bonding, structure, atomic dynamics, electrical, magnetic, thermal, optical), characterization methods, and a survey of materials.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- PHYS3700 - Thermal Physics
- PHYS4710 - Quantum Mechanics II

PHYS6650 - Optics I - 3 - Credits

Course Overview

Course Prefix
PHYS

Course Number
6650

Department
Physics

Cross-Listed Courses
ECE6650 - Optics I

Dual-Listed Courses
PHYS5650 - Optics I

Course Title
Optics I

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students learn the mathematics of wave motion, electromagnetic theory of light, light propagation, geometrical optics, and superposition of waves. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ANY of the following Courses:

- PHYS3600 - Electromagnetism I
- ECE3870 - Electromagnetics I

PHYS6910 - Relativity I - 3 - Credits

Course Overview

Course Prefix
PHYS

Course Number
6910

Department
Physics

Dual-Listed Courses
PHYS5910 - Relativity I

Course Title
Relativity I

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Foundations of spacetime physics. Survey of the basics of special and general relativity, the description of curved spacetime, and the Einstein equations. Exact solutions, applications, tests, and the mathematical techniques of general relativity. For graduate (6000 level), additional assignments will be required.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- PHYS3710 - Intermediate Modern Physics
- PHYS4600 - Electromagnetism II

PHYS6930 - Quantum Field Theory I - 3 - Credits

Course Overview

Course Prefix
PHYS

Course Number
6930

Department
Physics

Course Title
Quantum Field Theory I

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Detailed study of the relativistic quantum description of scalar, spinor, and vector fields in spacetime. Topics include gauge theories, canonical and path integral quantization, and interactions.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

PHYS6940 - Quantum Field Theory II - 3 - Credits

Course Overview

Course Prefix
PHYS

Course Number
6940

Department
Physics

Course Title
Quantum Field Theory II

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Continuation of PHYS 6930.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- PHYS6930 - Quantum Field Theory I

PHYS6970 - Thesis Research - 1 - 10 Credits

Course Overview

Course Prefix
PHYS

Course Number
6970

Department
Physics

Course Title
Thesis Research

Grade Mode
Temporary Pass/Fail

Repeat Status
RP

Course Description
Advanced research under guidance of one or more faculty member

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
10

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
10

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
10

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
10

Lecture Hours Operator:
TO

No Requirements

PHYS6990 - Continuing Graduate Advisement - 1 - 9 Credits

Course Overview

Course Prefix
PHYS

Course Number
6990

Department
Physics

Course Title
Continuing Graduate Advisement

Grade Mode
Temporary Pass/Fail

Repeat Status
RP

Course Description
This course provides graduate students with continued advisement. It is usually taken following completion of all coursework required for the degree.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
9

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
9

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
9

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
9

Lecture Hours Operator:
TO

No Requirements

PHYS7210 - Spacecraft Instrumentation - 3 - Credits

Course Overview

Course Prefix
PHYS

Course Number
7210

Department
Physics

Cross-Listed Courses
ECE7210 - Spacecraft Instrumentation

Course Title
Spacecraft Instrumentation

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students learn theory, engineering, and data reduction techniques of spacecraft instrumentation for space science and spacecraft systems.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- PHYS6240 - Space Environment and Engineering
  OR ECE6240 - Space Environment and Engineering

PHYS7500 - Advanced Topics in Physics (Topic) - 3 - Credits

Course Overview

Course Prefix
PHYS

Course Number
7500

Department
Physics

Course Title
Advanced Topics in Physics (Topic)

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Explores issues in contemporary physics at the advanced graduate level.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

PHYS7510 - Seminar - 1 - 3 Credits

Course Overview

Course Prefix
PHYS

Course Number
7510

Department
Physics

Course Title
Seminar

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course is a seminar that explores current work in particular topics.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

No Requirements

PHYS7970 - Dissertation Research - 1 - 15 Credits

Course Overview

Course Prefix
PHYS

Course Number
7970

Department
Physics

Course Title
Dissertation Research

Grade Mode
Temporary Pass/Fail

Repeat Status
RP

Course Description
This course allows students to pursue research toward the Ph.D. degree.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
15

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
15

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
15

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
15

Lecture Hours Operator:
TO

No Requirements

PHYS7990 - Continuing Graduate Advisement - 1 - 9 Credits

Course Overview

Course Prefix
PHYS

Course Number
7990

Department
Physics

Course Title
Continuing Graduate Advisement

Grade Mode
Temporary Pass/Fail

Repeat Status
RP

Course Description
This course provides graduate students with continued advisement. It is usually taken following completion of all coursework required for the degree.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
9

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
9

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
9

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
9

Lecture Hours Operator:
TO

No Requirements

PI2010 - Introduction to Peace Building and Transformative Conflict (BHU) - 3 - Credits

Course Overview

Course Prefix
PI

Course Number
2010

Department
College of Arts & Sciences

Course Title
Introduction to Peace Building and Transformative Conflict (BHU)

General Education Attribute
BHU

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces the concepts of peace-building and transformative conflict. Students learn how to think about and practice peace at a personal, relational, local, national, and global level.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Course Learning Objectives

Course Learning Outcomes
1. Students will understand and be able to articulate what it means to practice transformative conflict and peace-building at a personal, relational, local, national, and global level.
2. Students will develop critical thinking skills and apply them to situations relevant to peace-building and transformative conflict.
3. Students will understand how transformative conflict and peace-building are relevant in various career paths and how to develop the necessary skills needed for those paths.

PI3110 - Transformative Mediation - 3 - Credits

Course Overview

Course Prefix
PI

Course Number
3110

Department
College of Arts & Sciences

Cross-Listed Courses
RELS3110 - Transformative Mediation

Course Title
Transformative Mediation

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course equips students with practical skills in applying the theories of conflict resolution as third-party transformative mediators. Special attention is given to interpersonal, cultural and religious conflict.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ANY of the following Courses:

- RELS1070 - Religion, Violence, and Peace (BHU)
  OR PI2010 - Introduction to Peace Building and Transformative Conflict (BHU)

Course Learning Objectives

Course Learning Outcomes

1. Understand the theory behind transformative mediation practice.

2. Develop the ability to apply those theories to simulated conflicts in class.

3. Obtain a mediation skill set that allows students to do pre-mediation, conflict mapping, active listening, reframing and collaborative problem solving.

4. Develop the confidence and ability to use those skills in real world settings, including inter- and intra-faith spaces, upon completion of the course.

PI4910 - Special Studies in Heravi Peace Institute - 1 - 6 Credits

Course Overview

Course Prefix
PI

Course Number
4910

Department
College of Arts & Sciences

Course Title
Special Studies in Heravi Peace Institute

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course provides students with opportunities to apply skills in peacebuilding, conflict management, interfaith leadership, and diplomacy through projects, trainings, or special study courses.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
6

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
6

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
6

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
6

Lecture Hours Operator:
TO

PI4940 - Peacebuilding Internship - 1 - 3 Credits

Course Overview

Course Prefix
PI

Course Number
4940

Department
College of Arts & Sciences

Course Title
Peacebuilding Internship

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Students participate in an internship or approved project that allows them to gain experience in the use of peacebuilding skills.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

No Requirements

PI4990 - Peacebuilding Capstone - 3 - Credits

Course Overview

Course Prefix
PI

Course Number
4990

Department
College of Arts & Sciences

Course Title
Peacebuilding Capstone

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This capstone class for the Global Peacebuilding - Certificate of Proficiency focuses on foundational ideas in peace studies, specific applications of knowledge, and peacebuilding skills.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

PI5600 - Conversational Space-Making - 3 - Credits

Course Overview

Course Prefix
PI

Course Number
5600

Department
Communication & Media

Course Title
Conversational Space-Making

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
In this course students develop an understanding of the principles, and acquire the necessary skills, to create conversational spaces that facilitate transformative conflict. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Course Learning Objectives

Course Learning Outcomes

1. Understand the fundamental principles that underly the conversational space-making process
2. Develop and practice the necessary skills to facilitate transformative conflict in one-on-one conversations

PI6000 - Mediation Workshop - 3 - Credits

Course Overview

Course Prefix
PI

Course Number
6000

Department
Communication & Media

Course Title
Mediation Workshop

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course equips students with experience applying theories of conflict resolution as a third-party mediator. Rather than merely resolving disputes, transformative mediation aims to alter the dynamics of disputant interactions. It transcends settlement to address the underlying causes of conflicts.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Course Learning Objectives

Course Learning Outcomes

- Understand the theory behind transformative mediation practice
- Develop the ability to apply those theories to simulated conflicts in class 3.
- Obtain a mediation skill set that allows students to do pre-mediation, conflict mapping, active listening, reframing and collaborative problem solving
- Develop the confidence and ability to use those skills in real world settings upon completion of the course.

PI6600 - Conversational Space-Making - 3 - Credits

Course Overview

Course Prefix
PI

Course Number
6600

Department
Communication & Media

Course Title
Conversational Space-Making

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
In this course students develop an understanding of the principles, and acquire the necessary skills, to create conversational spaces that facilitate transformative conflict. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Course Learning Objectives

Course Learning Outcomes
Understand the fundamental principles that underly the conversational space-making process

Develop and practice the necessary skills to facilitate transformative conflict in one-on-one conversations

POLS1010 - Introduction to Political Science (BSS) - 3 - Credits

Course Overview

Course Prefix
POLS

Course Number
1010

Department
School of Social Sciences

Course Title
Introduction to Political Science (BSS)

General Education Attribute
BSS

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Presents an overview of the five major subdivisions of political science: American institutions, theory, public policy, comparative politics, and international relations. To successfully complete the course, students should demonstrate a basic understanding of the development of democratic theory, how American institutions function, how policy is created and implemented, how other nations function, and the causes of conflict and cooperation in the international arena. Instructional methods will include lecture, slides, videos and class discussion. Course requires short-answer and multiple choice quizzes, a mid-term and a final examination. Intended for political science and pre-law majors.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

POLS1100 - United States Government and Politics (BAI) - 3 - Credits

Course Overview

Course Prefix
POLS

Course Number
1100

Department
School of Social Sciences

Course Title
United States Government and Politics (BAI)

General Education Attribute
BAI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
U.S. Constitution, political parties and elections, interest groups, Congress, president, bureaucracy, courts, and civil rights and liberties. This course meets the Americanization requirement.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

POLS1200 - Native American Government - 3 - Credits

Course Overview

Course Prefix
POLS

Course Number
1200

Department
School of Social Sciences

Course Title
Native American Government

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Examines traditional and contemporary Native American government. Explores the variety of political forms among Native American groups, tribal governments today, and the impacts of interaction with the Federal government.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

POLS2100 - Introduction to International Relations (BSS) - 3 - Credits

Course Overview

Course Prefix
POLS

Course Number
2100

Department
School of Social Sciences

Course Title
Introduction to International Relations (BSS)

General Education Attribute
BSS

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces students to the analysis of the interaction of nation-states and non-governmental actors in a variety of issue areas, such as politics, economics, security, human rights, and the environment.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

POLS2110 - Contemporary Indian Affairs - 3 - Credits

Course Overview

Course Prefix
POLS

Course Number
2110

Department
School of Social Sciences

Course Title
Contemporary Indian Affairs

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Designed to acquaint students with a basic historical knowledge of 19th and 20th century diplomatics, a geopolitical basis from which to better understand global politics, and a basic knowledge of the theories and approaches to international relations currently employed at the research level. However, the course is not intended to instruct students in the mechanics of empirical research, nor is it intended to be either a history or geography course. Rather, the goal is to relate specific international actions to the aforementioned theories and approaches, thus, allowing the student to better understand the complexity and interdependent nature of international relations.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ANY of the following Courses:

- POLS1010 - Introduction to Political Science (BSS)
  OR POLS1100 - United States Government and Politics (BAI)

POLS2200 - Comparative Politics (BSS) - 3 - Credits

Course Overview

Course Prefix
POLS

Course Number
2200

Department
School of Social Sciences

Course Title
Comparative Politics (BSS)

General Education Attribute
BSS

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Comparisons of differences in political culture, institutions, and processes, including authoritarian and democratic systems, violence and corruption, political development, and public policy.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

POLS2300 - Introduction to Political Theory (BHU) - 3 - Credits

Course Overview

Course Prefix
POLS

Course Number
2300

Department
School of Social Sciences

Course Title
Introduction to Political Theory (BHU)

General Education Attribute
BHU

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
A survey course covering ancient and modern political theory.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

POLS2430 - Contemporary Geopolitics (BSS) - 3 - Credits

Course Overview

Course Prefix
POLS

Course Number
2430

Department
School of Social Sciences

Course Title
Contemporary Geopolitics (BSS)

General Education Attribute
BSS

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
The course introduces students to the concept of geopolitics by exploring key geographic concepts and the ideas of structure and agency. Topics include terrorism, nationalism, borders, and environmental geopolitics. Current events are discussed to exemplify the concepts.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

POLS2500 - Introduction to International Studies (BSS) - 3 - Credits

Course Overview

Course Prefix
POLS

Course Number
2500

Department
School of Social Sciences

Course Title
Introduction to International Studies (BSS)

General Education Attribute
BSS

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course is designed to introduce students to different fields that make up international studies, different methods used to gain knowledge about human societies and the policies those societies pursue, as well as career opportunities in those fields.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

POLS2971 - Campaign Internship - 1 - 12 Credits

Course Overview

Course Prefix
POLS

Course Number
2971

Department
School of Social Sciences

Course Title
Campaign Internship

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
A semester campaign internship.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
12

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
12

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
12

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
12

Lecture Hours Operator:
TO

Special Approval
Instructor permission

No Requirements

POLS2972 - Washington Internship - 1 - 12 Credits

Course Overview

Course Prefix
POLS

Course Number
2972

Department
School of Social Sciences

Course Title
Washington Internship

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
A semester congressional, administrative, or legal internship in Washington, D.C.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
12

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
12

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
12

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
12

Lecture Hours Operator:
TO

Special Approval
Instructor permisison

No Requirements

POLS2973 - State Government Internship - 1 - 12 Credits

Course Overview

Course Prefix
POLS

Course Number
2973

Department
School of Social Sciences

Course Title
State Government Internship

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
A semester legislative, lobbying, or administrative internship in the state government of Utah or those of any other state government.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
12

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
12

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
12

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
12

Lecture Hours Operator:
TO

Special Approval
Instructor permission

No Requirements

POLS2974 - Administrative Internship - 1 - 12 Credits

Course Overview

Course Prefix
POLS

Course Number
2974

Department
School of Social Sciences

Course Title
Administrative Internship

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
A semester administrative internship at the local or state level.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
12

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
12

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
12

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
12

Lecture Hours Operator:
TO

Special Approval
Instructor permission

No Requirements

POLS2975 - International Internship - 1 - 12 Credits

Course Overview

Course Prefix
POLS

Course Number
2975

Department
School of Social Sciences

Course Title
International Internship

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
International Internship

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
12

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
12

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
12

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
12

Lecture Hours Operator:
TO

Registration Restrictions
Admission to International Studies major

No Requirements

POLS2988 - Special Problems - 1 - 3 Credits

Course Overview

Course Prefix
POLS

Course Number
2988

Department
School of Social Sciences

Course Title
Special Problems

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Individual work approved by instructor. Time and credit to be arranged.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

No Requirements

POLS2999 - Workshop - 1 - 3 Credits

Course Overview

Course Prefix
POLS

Course Number
2999

Department
School of Social Sciences

Course Title
Workshop

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Designed to meet the changing needs of the student in Political Science.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

No Requirements

POLS3000 - Introduction to Political Research (QI) - 3 - Credits

Course Overview

Course Prefix
POLS

Course Number
3000

Department
School of Social Sciences

Course Title
Introduction to Political Research (QI)

General Education Attribute
QI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Methodology, methods, and approaches used to study and analyze political events and relationships, including the use of library resources.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Course Sets:

- Quantitative Literacy (QL) Course

(or any MATH or STAT course that requires a QL course as a prerequisite)

POLS3050 - Politics in Film - 3 - Credits

Course Overview

Course Prefix
POLS

Course Number
3050

Department
School of Social Sciences

Course Title
Politics in Film

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course explores how popular motion pictures shape public perceptions of politics. Films in the course focus on several political themes, including U.S. political culture, the psychology of political leadership, and the causes and consequences of war.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Course Learning Objectives

Course Learning Outcomes

1. Gaining a better understanding of politics as a form of human experience, complementing textbook perspectives that emphasize formal processes and legal structures.
2. Realizing more fully how human talents, human emotions, and human failings shape political events.
3. Appreciating how motion pictures, and popular culture more generally, can distort perceptions of politics, oversimplifying and often depicting politics as a realm of obvious moral choices.

POLS3100 - Global Issues: Non-Democratic Politics - 3 - Credits

Course Overview

Course Prefix
POLS

Course Number
3100

Department
School of Social Sciences

Course Title
Global Issues: Non-Democratic Politics

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course investigates the conditions that enable non-democratic governments to emerge and endure, strategies for autocratic leaders to maintain power, domestic and international factors influencing political development, and the impact of autocratic institutions on economic growth and human development.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

POLS3110 - Parties and Elections (DSS) - 3 - Credits

Course Overview

Course Prefix
POLS

Course Number
3110

Department
School of Social Sciences

Course Title
Parties and Elections (DSS)

General Education Attribute
DSS

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Political parties, campaigns, and elections.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

POLS3115 - Electoral Behavior - 3 - Credits

Course Overview

Course Prefix
POLS

Course Number
3115

Department
School of Social Sciences

Course Title
Electoral Behavior

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Considers the factors influencing citizens to become involved in politics. Explores how voters decide which candidates or issues to support, how candidates might act on that support, and whether or not reforms are needed to ensure greater participation.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

POLS3120 - Law and Politics (DSS) - 3 - Credits

Course Overview

Course Prefix
POLS

Course Number
3120

Department
School of Social Sciences

Course Title
Law and Politics (DSS)

General Education Attribute
DSS

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Examines history, processes, and theories underlying American law and politics. Makes selective comparison of the American legal system with other legal systems.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

POLS3130 - United States Legislative Politics (DSS) - 3 - Credits

Course Overview

Course Prefix
POLS

Course Number
3130

Department
School of Social Sciences

Course Title
United States Legislative Politics (DSS)

General Education Attribute
DSS

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Legislative process.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

POLS3135 - Public Opinion and American Democracy (CI) - 3 - Credits

Course Overview

Course Prefix
POLS

Course Number
3135

Department
School of Social Sciences

Course Title
Public Opinion and American Democracy (CI)

General Education Attribute
CI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course examines how citizens think about politics and its place in the American political system. It examines classic and contemporary work. It also considers normative questions, including the role public opinion should play in American democracy.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Other Enrollment Recommendations
POLS1100 US GOVT AND POLITICS (BAI)

Course Learning Objectives

Course Learning Outcomes
1. To have an understanding of what public opinion is, how it was created, how it is measured, and how it interacts with American Democracy.

2. To be able to understand, analyze, and critique public opinion academic articles and the methods they employ.

3. To be able to write competently about topics in public opinion, public opinion academic articles, and the methods they employ.

POLS3140 - The Presidency (DSS) - 3 - Credits

Course Overview

Course Prefix
POLS

Course Number
3140

Department
School of Social Sciences

Course Title
The Presidency (DSS)

General Education Attribute
DSS

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Examines the origins, purposes, and scope of the executive power in the American constitutional system.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

POLS3145 - Political Identities - 3 - Credits

Course Overview

Course Prefix
POLS

Course Number
3145

Department
School of Social Sciences

Course Title
Political Identities

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course is an introduction to the study of political identities. It discusses what an identity is, where identities come from, and the challenges and consequences of identity politics. The course also discusses the consequences of identity politics.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Other Enrollment Recommendations
POLS1100 US GOVT AND POLITICS (BAI)

Course Learning Objectives

Course Learning Outcomes
1. To understand what a social identity is, what a political identity is, how they are formed, and the political consequences of identity politics.

2. To be able to understand, analyze, and critique public opinion and political psychology academic articles and the methods they employ.

3. To be able to write competently about political identities, public opinion and political psychology academic articles, and the methods they employ.

POLS3150 - State and Local Government - 3 - Credits

Course Overview

Course Prefix
POLS

Course Number
3150

Department
School of Social Sciences

Course Title
State and Local Government

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Includes state and local politics, in addition to metro-urban politics.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

POLS3155 - Political Psychology - 3 - Credits

Course Overview

Course Prefix
POLS

Course Number
3155

Department
School of Social Sciences

Course Title
Political Psychology

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course is an introduction to the study of Political Psychology. It examines how citizens think about politics and its place in the American political system.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Other Enrollment Recommendations
POLS1100 US GOVT AND POLITICS (BAI)

Course Learning Objectives

Course Learning Outcomes
1. To gain an understanding of what political psychology is, how it was created, how it is measured, and how it interacts with political science.

2. To be able to understand, analyze, and critique political psychology academic articles and the methods they employ.

3. To be able to write competently about political psychology, political psychology academic articles, and the methods they employ.

POLS3170 - Law and Economics - 3 - Credits

Course Overview

Course Prefix
POLS

Course Number
3170

Department
School of Social Sciences

Course Title
Law and Economics

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Explains legal and political rules, the organization of government, and other institutional processes. Uses standard microeconomic tools and concepts, such as scarcity, choice, preferences, incentives, and supply and demand.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

POLS3180 - Introduction to Public Administration - 3 - Credits

Course Overview

Course Prefix
POLS

Course Number
3180

Department
School of Social Sciences

Course Title
Introduction to Public Administration

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Overviews management of United States governmental affairs. Helps students understand how the government is structured to accomplish the execution and implementation of public policy.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Reqquired

Complete ALL of the following Courses:

- POLS1100 - United States Government and Politics (BAI)

POLS3190 - Politics of Economic Development - 3 - Credits

Course Overview

Course Prefix
POLS

Course Number
3190

Department
School of Social Sciences

Course Title
Politics of Economic Development

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course evaluates the political aspects of economic development and trains students to understand common approaches to economic development, regulatory constraints, common pitfalls, public opinion, and the community and environmental impacts of new growth.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

POLS3200 - The Politics of Development (CI/DSS) - 3 - Credits

Course Overview

Course Prefix
POLS

Course Number
3200

Department
School of Social Sciences

Course Title
The Politics of Development (CI/DSS)

General Education Attribute
CI, DSS

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course examines why some countries are rich while others are poor. It surveys theories of development before analyzing the intersection of politics and socio-economic factors as determinants of poverty and economic growth using Asian, African and Latin American examples.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

POLS3210 - Western European Government and Politics (DSS) - 3 - Credits

Course Overview

Course Prefix
POLS

Course Number
3210

Department
School of Social Sciences

Course Title
Western European Government and Politics (DSS)

General Education Attribute
DSS

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Britain, France, Germany, Scandinavia, and the European Union.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

POLS3220 - Russian and East European Government and Politics (DSS) - 3 - Credits

Course Overview

Course Prefix
POLS

Course Number
3220

Department
School of Social Sciences

Course Title
Russian and East European Government and Politics (DSS)

General Education Attribute
DSS

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Examines the strategies that the Russians and Russian leaders have chosen to meet historical and contemporary challenges to their statehood. Analyzes the rationales behind their foreign and domestic policy choices and the tools used to achieve their vital national objectives.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

POLS3230 - Middle Eastern Government and Politics - 3 - Credits

Course Overview

Course Prefix
POLS

Course Number
3230

Department
School of Social Sciences

Course Title
Middle Eastern Government and Politics

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
General overview of political cultures and political developments in the Middle East.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

POLS3240 - African Government and Politics - 3 - Credits

Course Overview

Course Prefix
POLS

Course Number
3240

Department
School of Social Sciences

Course Title
African Government and Politics

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Examines the historic, cultural, economic, social, religious, and geographic traits that distinguish the countries of Africa and their political processes; investigates contemporary regional issues such as governance, poverty, modernization, diseases, energy, environment, and Africa's increasing integration with the world.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

POLS3250 - Chinese Government and Politics (DSS) - 3 - Credits

Course Overview

Course Prefix
POLS

Course Number
3250

Department
School of Social Sciences

Course Title
Chinese Government and Politics (DSS)

General Education Attribute
DSS

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers the politics of the Peoples Republic of China (PRC) from the Maoist era until the present day by examining various political institutions, economic reforms, and social challenges.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

POLS3260 - Politics and Society in Post-Colonial States - 3 - Credits

Course Overview

Course Prefix
POLS

Course Number
3260

Department
School of Social Sciences

Cross-Listed Courses
SOC3260 - Politics and Society in Post-Colonial States

Course Title
Politics and Society in Post-Colonial States

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Post-colonial states, including the states of the former USSR, have faced violent conflict, environmental destruction, political and economic turmoil, and demographic upheaval as they emerge from empire. This study abroad course mixes classroom experiences with internships in local organizations in order to address issues of post-colonial institutional reform, ethnic conflict, and population change.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

POLS3270 - Latin American Government and Politics (DSS) - 3 - Credits

Course Overview

Course Prefix
POLS

Course Number
3270

Department
School of Social Sciences

Course Title
Latin American Government and Politics (DSS)

General Education Attribute
DSS

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Survey of most of the governments and politics of Latin America, emphasizing events, policies, and governmental actions of the past decade.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

POLS3310 - American Political Thought (DSS) - 3 - Credits

Course Overview

Course Prefix
POLS

Course Number
3310

Department
School of Social Sciences

Course Title
American Political Thought (DSS)

General Education Attribute
DSS

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Survey of American political thought from colonial times to the present.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

POLS3320 - The Foundations of American Constitutionalism - 3 - Credits

Course Overview

Course Prefix
POLS

Course Number
3320

Department
School of Social Sciences

Course Title
The Foundations of American Constitutionalism

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Introduces students to debate over constitutions, constitutionalism, and constitution-making which occurred during the period (roughly) from the Revolution to the election of 1800.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

POLS3400 - United States Foreign Policy (DSS) - 3 - Credits

Course Overview

Course Prefix
POLS

Course Number
3400

Department
School of Social Sciences

Course Title
United States Foreign Policy (DSS)

General Education Attribute
DSS

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Formulation, execution, and impact of United States foreign policy.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

POLS3410 - International Human Rights System - 3 - Credits

Course Overview

Course Prefix
POLS

Course Number
3410

Department
School of Social Sciences

Course Title
International Human Rights System

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
The course introduces the concept of human rights in the international system. It examines the evolution of human rights as the international regime. The course reviews human rights through the problems of enforcement and the role of human rights institutions.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ANY of the following Courses:

- POLS2100 - Introduction to International Relations (BSS)
  OR POLS2200 - Comparative Politics (BSS)

POLS3430 - Political Geography (CI/DSS) - 3 - Credits

Course Overview

Course Prefix
POLS

Course Number
3430

Department
School of Social Sciences

Cross-Listed Courses
GEOG3430 - Political Geography (CI/DSS)

Course Title
Political Geography (CI/DSS)

General Education Attribute
CI, DSS

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
The relationship between earth and state. World political phenomena studied from a geographic point of view, including international boundaries, territorial seas, and landlocked states.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Fulfill ALL of the following requirements:

Required

Complete ALL of the following Courses:

- ENGL2010 - Research and Argument Across Perspectives (CL2)

AND

Required

Complete at least 1 of the following courses:

- POLS2100 - Introduction to International Relations (BSS)
- POLS2200 - Comparative Politics (BSS)
- POLS2300 - Introduction to Political Theory (BHU)
- POLS2430 - Contemporary Geopolitics (BSS)

POLS3700 - Terrorism and Counterterrorism - 3 - Credits

Course Overview

Course Prefix
POLS

Course Number
3700

Department
School of Social Sciences

Course Title
Terrorism and Counterterrorism

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Explores dynamics, causes, characteristics, and consequences of those acts labeled "terrorist." Also explores counter measures to such acts.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

POLS3810 - Introduction to Public Policy (DSS) - 3 - Credits

Course Overview

Course Prefix
POLS

Course Number
3810

Department
School of Social Sciences

Course Title
Introduction to Public Policy (DSS)

General Education Attribute
DSS

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Examines different approaches to the study of public policy and different value dimensions in the design of policies.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

POLS4120 - American Constitutional Law - 3 - Credits

Course Overview

Course Prefix
POLS

Course Number
4120

Department
School of Social Sciences

Course Title
American Constitutional Law

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Analyzes the separation of powers, checks and balances, federalism, the Bill of Rights, and other constitutional amendments.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

POLS4130 - Constitutional Theory - 3 - Credits

Course Overview

Course Prefix
POLS

Course Number
4130

Department
School of Social Sciences

Course Title
Constitutional Theory

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Introduces students to constitutional theory, with particular emphasis on American constitutional theory.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- POLS1100 - United States Government and Politics (BAI)

POLS4140 - Political Organizations - 3 - Credits

Course Overview

Course Prefix
POLS

Course Number
4140

Department
School of Social Sciences

Course Title
Political Organizations

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Focuses on formal and informal constitutional rules, examining how different sets of rule structures impact the collective decisions of individuals in society and how individuals can influence or shape the rules structuring their lives.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- POLS1100 - United States Government and Politics (BAI)

POLS4150 - The Supreme Court and the Shaping of America - 3 - Credits

Course Overview

Course Prefix
POLS

Course Number
4150

Department
School of Social Sciences

Course Title
The Supreme Court and the Shaping of America

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Exposes students to the most important Supreme Court decisions in U.S. history. Outlines how such decisions impact American citizens and policy.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Lab Hours

Lab Hours Min:
3

No Requirements

POLS4160 - The First Amendment - 3 - Credits

Course Overview

Course Prefix
POLS

Course Number
4160

Department
School of Social Sciences

Course Title
The First Amendment

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Provides an in-depth examination of the first amendment of the U.S. Constitution, based on case law of the Supreme Court and interpretations made within government agencies.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

POLS4210 - European Union Politics - 3 - Credits

Course Overview

Course Prefix
POLS

Course Number
4210

Department
School of Social Sciences

Course Title
European Union Politics

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Explores creation and ongoing development of the European Union. Examines governing institutions, and internal and external politics of the European Union across a number of issues areas.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

POLS4220 - Ethnic Conflict and Cooperation (CI/DSS) - 3 - Credits

Course Overview

Course Prefix
POLS

Course Number
4220

Department
School of Social Sciences

Course Title
Ethnic Conflict and Cooperation (CI/DSS)

General Education Attribute
CI, DSS

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Examines origins of ethnic groups and the causes of ethnic conflicts, as well as different strategies for preventing or resolving such conflict. Explores conditions facilitating interethnic cooperation, the more common form of ethnic group interaction.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

POLS4230 - Issues in Middle East Politics - 3 - Credits

Course Overview

Course Prefix
POLS

Course Number
4230

Department
School of Social Sciences

Course Title
Issues in Middle East Politics

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Contemporary Middle Eastern political movements, regional conflicts, and state-level political change.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

POLS4260 - Asian Government and Politics (DSS) - 3 - Credits

Course Overview

Course Prefix
POLS

Course Number
4260

Department
School of Social Sciences

Course Title
Asian Government and Politics (DSS)

General Education Attribute
DSS

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This is a general overview of political cultures and political development in Asia.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

POLS4270 - The Politics of Global Inequality - 3 - Credits

Course Overview

Course Prefix
POLS

Course Number
4270

Department
School of Social Sciences

Course Title
The Politics of Global Inequality

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course surveys the causes and consequences of inequality. By examining cases from North America, Europe, and East Asia, students consider how economic and social inequalities shape and are shaped by democratic politics and existing public policies.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

POLS4280 - Peacebuilding After War - 3 - Credits

Course Overview

Course Prefix
POLS

Course Number
4280

Department
School of Social Sciences

Course Title
Peacebuilding After War

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course examines the goals, strategies, and tools that state and non-state actors use to build sustainable peace in the aftermath of war. Case studies include Northern Ireland, Israel-Palestine, and Sierra Leone, among others.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

POLS4310 - History of Political Thought I (CI) - 3 - Credits

Course Overview

Course Prefix
POLS

Course Number
4310

Department
School of Social Sciences

Course Title
History of Political Thought I (CI)

General Education Attribute
CI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Issues and thinkers in ancient and medieval political thought.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

POLS4320 - History of Political Thought II (DSS) - 3 - Credits

Course Overview

Course Prefix
POLS

Course Number
4320

Department
School of Social Sciences

Course Title
History of Political Thought II (DSS)

General Education Attribute
DSS

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Issues and thinkers in modern and contemporary political thought.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

POLS4330 - Political Theory and Literature - 3 - Credits

Course Overview

Course Prefix
POLS

Course Number
4330

Department
School of Social Sciences

Course Title
Political Theory and Literature

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Utilizes works from the field of literature, partly in order to discuss issues in politics and political philosophy, and partly as examples of political thought at its best.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

POLS4350 - Public Policy and Democratic Theory - 3 - Credits

Course Overview

Course Prefix
POLS

Course Number
4350

Department
School of Social Sciences

Course Title
Public Policy and Democratic Theory

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Examines the nature of the American Republic. Focuses on the tension between our republican form of government and the tendency toward democratization. Considers how this balance has changed over time.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

POLS4360 - Critical Topics in Political Theory (DHA) - 3 - Credits

Course Overview

Course Prefix
POLS

Course Number
4360

Department
School of Social Sciences

Course Title
Critical Topics in Political Theory (DHA)

General Education Attribute
DHA

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course examines topics of critical theoretical and philosophical importance to the study of politics. It does so through a careful exploration of readings, both ancient and modern, relevant to these topics.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- POLS2300 - Introduction to Political Theory (BHU)

POLS4370 - Modern Political Thought (DHA) - 3 - Credits

Course Overview

Course Prefix
POLS

Course Number
4370

Department
School of Social Sciences

Course Title
Modern Political Thought (DHA)

General Education Attribute
DHA

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course surveys key conceptual developments in modern political thought. It does so through close textual analysis of those readings that have both defined and examined these developments and their related politics.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- POLS2300 - Introduction to Political Theory (BHU)

POLS4410 - International Negotiations - 3 - Credits

Course Overview

Course Prefix
POLS

Course Number
4410

Department
School of Social Sciences

Course Title
International Negotiations

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course is designed to increase negotiation skills in an international or global setting. The course focuses on developing cultural intelligence, strategic communication, and problem-solving across varied issues, areas, and contexts.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete at least 1 of the following courses:

- POLS2100 - Introduction to International Relations (BSS)
- POLS2200 - Comparative Politics (BSS)
- POLS2430 - Contemporary Geopolitics (BSS)

POLS4450 - United States and Latin America (CI) - 3 - Credits

Course Overview

Course Prefix
POLS

Course Number
4450

Department
School of Social Sciences

Course Title
United States and Latin America (CI)

General Education Attribute
CI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Study and analysis of foreign relations of Latin American nations among themselves and with the rest of the world.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

POLS4460 - National Security Policy - 3 - Credits

Course Overview

Course Prefix
POLS

Course Number
4460

Department
School of Social Sciences

Course Title
National Security Policy

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
How intelligence systems function, fit within the policymaking systems of free societies, and are managed and controlled.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ENGL2010 - Research and Argument Across Perspectives (CL2)

POLS4462 - The US Intelligence Community - 3 - Credits

Course Overview

Course Prefix
POLS

Course Number
4462

Department
School of Social Sciences

Course Title
The US Intelligence Community

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides students with the ability to evaluate the impact of intelligence policies on national security policy and international relations.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- POLS1100 - United States Government and Politics (BAI)
- POLS2100 - Introduction to International Relations (BSS)

POLS4463 - Grand Strategy and International Politics - 3 - Credits

Course Overview

Course Prefix
POLS

Course Number
4463

Department
School of Social Sciences

Course Title
Grand Strategy and International Politics

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course examines grand strategies of great powers from the late nineteenth century to the present to determine the relationship between grand strategy and competition in international politics.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

POLS4464 - Why Nations Fight? International Security in the 21st Century (DSS) - 3 - Credits

Course Overview

Course Prefix
POLS

Course Number
4464

Department
School of Social Sciences

Course Title
Why Nations Fight? International Security in the 21st Century (DSS)

General Education Attribute
DSS

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces undergraduates to the principal theories used in security studies and to the major security issues faced by the United States.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

POLS4470 - Foreign Policy in the Pacific - 3 - Credits

Course Overview

Course Prefix
POLS

Course Number
4470

Department
School of Social Sciences

Course Title
Foreign Policy in the Pacific

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Analysis of contemporary foreign policies of major countries surrounding the Pacific Ocean.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

POLS4500 - The Politics of Social Movements (DSS) - 3 - Credits

Course Overview

Course Prefix
POLS

Course Number
4500

Department
School of Social Sciences

Course Title
The Politics of Social Movements (DSS)

General Education Attribute
DSS

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course emphasizes the role of social movements in politics including their influence on political actors, institutions, and policy outcomes.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Fulfill ALL of the following requirements:

Required

Complete ANY of the following Courses:

- POLS1100 - United States Government and Politics (BAI)
  OR POLS2100 - Introduction to International Relations (BSS)

AND

Required

Complete at least 1 of the following courses:

- POLS2200 - Comparative Politics (BSS)

- POLS2430 - Contemporary Geopolitics (BSS)
- POLS2500 - Introduction to International Studies (BSS)

POLS4800 - Constitutional Design - 3 - Credits

Course Overview

Course Prefix
POLS

Course Number
4800

Department
School of Social Sciences

Course Title
Constitutional Design

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Combining theory and practice, this course is a constitutional convention simulation focusing on the politics of designing and ratifying a constitution.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

POLS4820 - Natural Resources and Environmental Policy: Political Economy of Environmental Quality (DSS) - 3 - Credits

Course Overview

Course Prefix
POLS

Course Number
4820

Department
School of Social Sciences

Course Title
Natural Resources and Environmental Policy: Political Economy of Environmental Quality (DSS)

General Education Attribute
DSS

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Causes of environmental and natural resources problems and evaluation of political and private responses to them. Study of economics and politics applied to the environment. Production, protection, and allocation of scarce resources by markets and political systems.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

POLS4840 - Regulatory Politics - 3 - Credits

Course Overview

Course Prefix
POLS

Course Number
4840

Department
School of Social Sciences

Course Title
Regulatory Politics

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course considers the political context of regulatory policymaking. It explores theories of regulatory politics as well as the implementation of regulatory policies.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

POLS4850 - Public Policy and Community Leadership - 1 - Credits

Course Overview

Course Prefix
POLS

Course Number
4850

Department
School of Social Sciences

Cross-Listed Courses
IOGP4850 - Public Policy and Community Leadership

Course Title
Public Policy and Community Leadership

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
This course introduces students to the challenges and opportunities faced by working professionals and citizens whose work involves leadership and/or diplomacy in a variety of issue areas and settings.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- CMST1330 - Introduction to Global Communication (BSS)
- CMST2110 - Interpersonal Communication (BHU)
- POLS1100 - United States Government and Politics (BAI)
- POLS2100 - Introduction to International Relations (BSS)
- POLS2200 - Comparative Politics (BSS)
- POLS2430 - Contemporary Geopolitics (BSS)

POLS4890 - Special Topics - 1 - 5 Credits

Course Overview

Course Prefix
POLS

Course Number
4890

Department
School of Social Sciences

Course Title
Special Topics

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course provides an in-depth review and discussion of special topics that are not part of the standard curriculum.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
5

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
5

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
5

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
5

Lecture Hours Operator:
TO

Special Approval
Instructor permission

No Requirements

POLS4910 - Readings and Conference - 1 - 5 Credits

Course Overview

Course Prefix
POLS

Course Number
4910

Department
School of Social Sciences

Course Title
Readings and Conference

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Individually directed study in subjects of special interest to students.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
5

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
5

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
5

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
5

Lecture Hours Operator:
TO

Special Approval
Instructor permission

No Requirements

POLS4990 - Senior Research Seminar (CI) - 3 - Credits

Course Overview

Course Prefix
POLS

Course Number
4990

Department
School of Social Sciences

Course Title
Senior Research Seminar (CI)

General Education Attribute
CI

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Introduces students to the research process by having them complete a major research project in the topic area of the particular professor.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

POLS5000 - Political Analysis (QI) - 3 - Credits

Course Overview

Course Prefix
POLS

Course Number
5000

Department
School of Social Sciences

Course Title
Political Analysis (QI)

General Education Attribute
QI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students learn political data, quantitative and analytical techniques.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

POLS5100 - Politics and Public Policy - 3 - Credits

Course Overview

Course Prefix
POLS

Course Number
5100

Department
School of Social Sciences

Course Title
Politics and Public Policy

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Explains public policies as rational expressions of political self-interest and explores the relationship between self-interest and values such as "equity" and "efficiency" in policy.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

POLS5110 - Social Policy - 3 - Credits

Course Overview

Course Prefix
POLS

Course Number
5110

Department
School of Social Sciences

Course Title
Social Policy

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Examines health, education, and welfare policies in U.S. contexts and in comparative context.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

POLS5130 - Law and Policy - 3 - Credits

Course Overview

Course Prefix
POLS

Course Number
5130

Department
School of Social Sciences

Course Title
Law and Policy

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Analyzes the relationship between law and the formation and implementation of policy.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

POLS5140 - Law, Politics, and War - 3 - Credits

Course Overview

Course Prefix
POLS

Course Number
5140

Department
School of Social Sciences

Course Title
Law, Politics, and War

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Examines relationship between law, politics, and war, with particular emphasis on the American experience since 1787.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

POLS5210 - Comparative Political Change/ Development - 3 - Credits

Course Overview

Course Prefix
POLS

Course Number
5210

Department
School of Social Sciences

Course Title
Comparative Political Change/Development

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Emphasis on approaches and theories in the field of comparative politics, with a focus on political change/development.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

POLS5270 - Latin American Politics and Development - 3 - Credits

Course Overview

Course Prefix
POLS

Course Number
5270

Department
School of Social Sciences

Course Title
Latin American Politics and Development

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Focuses on special contemporary issues of selected Latin American nations, such as democratization, the role of the military, and elections.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

POLS5300 - Cyber Warfare and International Politics - 3 - Credits

Course Overview

Course Prefix
POLS

Course Number
5300

Department
School of Social Sciences

Course Title
Cyber Warfare and International Politics

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course addresses emerging international relations, policy, doctrine, strategy, and operational issues associated with Computer Network Attack (CNA) and Computer Network Exploitation (CNE), collectively referred to as cyber warfare. It provides students with a comprehensive perspective and enhances their knowledge of cyber warfare conducted by both state and non-state actors.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

POLS5400 - National Security Strategy and Strategic Uncertainty - 3 - Credits

Course Overview

Course Prefix
POLS

Course Number
5400

Department
School of Social Sciences

Course Title
National Security Strategy and Strategic Uncertainty

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course examines a range of approaches and methods with a particular emphasis on scenario planning methods such as wargaming and policy analysis.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

POLS5420 - The Mass Media and Politics - 3 - Credits

Course Overview

Course Prefix
POLS

Course Number
5420

Department
School of Social Sciences

Cross-Listed Courses
JCOM5420 - The Mass Media and Politics

Dual-Listed Courses
POLS6420 - The Mass Media and Politics

Course Title
The Mass Media and Politics

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course examines the role of the mass media in the political process. It also includes the examination of political advertising, news coverage, polling, opinion formation strategies, and politicians' use of new media technologies. Additional coursework required for graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Junior standing

POLS5480 - International Trade Policy - 3 - Credits

Course Overview

Course Prefix
POLS

Course Number
5480

Department
School of Social Sciences

Course Title
International Trade Policy

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Examines governance and politics of international trade relations, focusing in particular on cooperation, conflict, and dispute resolution in the GATT/WTO, European community, NAFTA, and Asian cooperative regimes.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

POLS5770 - Strategic Culture - 3 - Credits

Course Overview

Course Prefix
POLS

Course Number
5770

Department
School of Social Sciences

Course Title
Strategic Culture

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Evaluates the extent to which national and organizational cultures impact security policy.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerquisite

Type
Prerequisite

Required

Complete ANY of the following Courses:

- POLS2100 - Introduction to International Relations (BSS)
  OR POLS2200 - Comparative Politics (BSS)

POLS5890 - Special Topics - 1 - 5 Credits

Course Overview

Course Prefix
POLS

Course Number
5890

Department
School of Social Sciences

Course Title
Special Topics

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course provides an examination of special topics in political science. It is intended to be a vehicle for new or unique courses not offered as part of the regular curriculum.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
5

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
5

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
5

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
5

Lecture Hours Operator:
TO

Special Approval

Instructor permission

POLS5900 - Government and Policy Internship Seminar - 3 - Credits

Course Overview

Course Prefix
POLS

Course Number
5900

Department
School of Social Sciences

Course Title
Government and Policy Internship Seminar

Grade Mode
Pass/Fail

Repeat Status
NR

Course Description
A semester government and policy internship in Washington, DC or in Salt Lake City, UT.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

POLS5910 - Campaign Internship - 1 - 12 Credits

Course Overview

Course Prefix
POLS

Course Number
5910

Department
School of Social Sciences

Course Title
Campaign Internship

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
A semester campaign internship.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
12

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
12

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
12

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
12

Lecture Hours Operator:
TO

Special Approval

Instructor permission

POLS5920 - Washington Internship - 1 - 9 Credits

Course Overview

Course Prefix
POLS

Course Number
5920

Department
School of Social Sciences

Course Title
Washington Internship

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course comprises a semester-length congressional, administrative, or legal internship in Washington, D.C.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
9

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
9

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
9

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
9

Lecture Hours Operator:
TO

Special Approval
Instructor permission

POLS5930 - State Government Internship - 1 - 9 Credits

Course Overview

Course Prefix
POLS

Course Number
5930

Department
School of Social Sciences

Course Title
State Government Internship

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course comprises a semester-length legislative, lobbying, or administrative internship in the state government of Utah or those of any other state government.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
9

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
9

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
9

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
9

Lecture Hours Operator:
TO

Special Approval
Instructor permission

POLS5940 - Administrative Internship - 1 - 9 Credits

Course Overview

Course Prefix
POLS

Course Number
5940

Department
School of Social Sciences

Course Title
Administrative Internship

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
This course comprises a semester-length administrative internship at the local or state level.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
9

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
9

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
9

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
9

Lecture Hours Operator:
TO

Special Approval

Instructor permission

POLS5950 - International Internship - 1 - 9 Credits

Course Overview

Course Prefix
POLS

Course Number
5950

Department
School of Social Sciences

Course Title
International Internship

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course comprises a semester-length internship at the international level.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
9

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
9

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
9

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
9

Lecture Hours Operator:
TO

Special Approval

Instructor permission

POLS5960 - International Studies Internship - 1 - 9 Credits

Course Overview

Course Prefix
POLS

Course Number
5960

Department
School of Social Sciences

Course Title
International Studies Internship

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
This course comprises an internship for students in the International Studies major.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
9

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
9

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
9

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
9

Lecture Hours Operator:
TO

Registration Restrictions
Admission to International Studies major

Special Approval
Instructor permission

No Requirements

POLS6000 - Advanced Topics in Political Science Research Methods - 3 - Credits

Course Overview

Course Prefix
POLS

Course Number
6000

Department
School of Social Sciences

Course Title
Advanced Topics in Political Science Research Methods

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course explores important techniques in Political Science research methods, including use of software in political research.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Special Approval
Instructor permission

Course Learning Objectives

Course Learning Outcomes

1. Develop stronger skills in Political Science research, including use of software and application of research methods.

2. Develop a deeper awareness of appropriate research methods for a variety of research questions.

POLS6010 - Research Design - 3 - Credits

Course Overview

Course Prefix
POLS

Course Number
6010

Department
School of Social Sciences

Course Title
Research Design

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
A graduate survey of the philosophy and methods of political analysis. Topics ranging from the methodology of inquiry to elementary statistical methods will be covered.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

POLS6020 - Public Policy Analysis - 3 - Credits

Course Overview

Course Prefix
POLS

Course Number
6020

Department
School of Social Sciences

Course Title
Public Policy Analysis

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Examines and reviews leading theories of policy analysis and the policy-making process at an advanced level.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

POLS6030 - Political Theory, Political Economy, and Capitalism - 3 - Credits

Course Overview

Course Prefix
POLS

Course Number
6030

Department
School of Social Sciences

Course Title
Political Theory, Political Economy, and Capitalism

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Provides an introduction to the study of political economy by considering the connections among political theory, political economy, and capitalism.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

POLS6040 - Public Choice - 3 - Credits

Course Overview

Course Prefix
POLS

Course Number
6040

Department
School of Social Sciences

Course Title
Public Choice

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Introduction to applying the microeconomic theory of markets to political processes.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

POLS6050 - Qualitative Methods - 3 - Credits

Course Overview

Course Prefix
POLS

Course Number
6050

Department
School of Social Sciences

Course Title
Qualitative Methods

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course offers an introduction to qualitative methods at the graduate level. It provides theoretical frameworks and practical knowledge and skills for conducting independent, robust political science projects that can be applied in different settings, issue-areas, and cultural terrains.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

POLS6110 - Budgeting and Finance - 3 - Credits

Course Overview

Course Prefix
POLS

Course Number
6110

Department
School of Social Sciences

Course Title
Budgeting and Finance

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Surveys all major activities concerning allocation, investment, and control of public funds, as well as budgeting and revenues in context of fiscal policy making.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

POLS6130 - Law and Administration - 3 - Credits

Course Overview

Course Prefix
POLS

Course Number
6130

Department
School of Social Sciences

Course Title
Law and Administration

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Exploration and analysis of constitutional and legal basis in which American Public Administration is set, including separation of powers, checks and balances, delegation of discretionary authority, and common law and equity.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

POLS6140 - Leadership in Public Organizations - 3 - Credits

Course Overview

Course Prefix
POLS

Course Number
6140

Department
School of Social Sciences

Course Title
Leadership in Public Organizations

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Analysis of leadership behavior and managerial activities. Examination of major theories of leadership and motivation, including leadership vs. management, leadership qualities and characteristics, and leadership skills.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

POLS6210 - International Security - 3 - Credits

Course Overview

Course Prefix
POLS

Course Number
6210

Department
School of Social Sciences

Course Title
International Security

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Explores the many causes of conflict at different levels. Identifies the means by which resolution can be achieved, as well as the challenges and barriers associated with such efforts.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

POLS6215 - Seminar on Comparative Grand Strategies - 3 - Credits

Course Overview

Course Prefix
POLS

Course Number
6215

Department
School of Social Sciences

Course Title
Seminar on Comparative Grand Strategies

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This seminar examines the relationship between grand strategies and international conflict and stability.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

POLS6220 - Comparative Politics Seminar - 3 - Credits

Course Overview

Course Prefix
POLS

Course Number
6220

Department
School of Social Sciences

Course Title
Comparative Politics Seminar

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course examines the social science of comparative politics by surveying important theoretical assumptions and paradigms and by evaluating the logic of proposed arguments and the evidence presented in support of those arguments.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

POLS6225 - Advanced Topics In Comparative Politics - 3 - Credits

Course Overview

Course Prefix
POLS

Course Number
6225

Department
School of Social Sciences

Course Title
Advanced Topics In Comparative Politics

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course explores important themes in the Comparative Politics literature with a focus on depth of critical areas of the field as opposed to breadth of exposure to the literature.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Special Approval
Instructor Permission

Other Enrollment Recommendations
POLS6220 COMPARATIVE POLITIC SEMINAR

Course Learning Objectives

Course Learning Outcomes

1. Develop stronger skills in written and/or oral communication on themes in Comparative Politics.

2. Develop a deeper familiarity with key subfields and thinkers in Comparative Politics.

POLS6230 - Terrorism and Counter-Terrorism - 3 - Credits

Course Overview

Course Prefix
POLS

Course Number
6230

Department
School of Social Sciences

Course Title
Terrorism and Counter-Terrorism

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Explores the history, causes, and consequences of terrorism, as well as its impact on the global arena. Teaches students why understanding of terrorism is crucial, in order to allow effective, intelligent responses.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

POLS6240 - Democratic Theories and Practice - 3 - Credits

Course Overview

Course Prefix
POLS

Course Number
6240

Department
School of Social Sciences

Course Title
Democratic Theories and Practice

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Explores the many different perspectives and theories on the concept of democracy, ranging from the 18th Century to writings of the 21st Century.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

POLS6250 - International Relations Seminar - 3 - Credits

Course Overview

Course Prefix
POLS

Course Number
6250

Department
School of Social Sciences

Course Title
International Relations Seminar

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students examine the social science of international relations by surveying important theoretical assumptions made by theoretical paradigms of realism, liberalism, institutionalism, etc. and by evaluating the logic of proposed arguments and the evidence presented in support of those arguments.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

POLS6255 - Advanced Topics in International Relations - 3 - Credits

Course Overview

Course Prefix
POLS

Course Number
6255

Department
School of Social Sciences

Course Title
Advanced Topics in International Relations

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course explores important themes in the International Relations literature with a focus on depth of critical areas of the field as opposed to breadth of exposure to the literature.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Special Approval
Instructor Permission

Other Enrollment Recommendations
POLS6250 INTERNATIONAL RELATION SEMINAR

Course Learning Objectives

Course Learning Outcomes

1. Develop stronger skills in written and/or oral communication on themes in International Relations.

2. Develop a deeper familiarity with key subfields and thinkers in International Relations.

POLS6260 - Topics in International Politics - 3 - Credits

Course Overview

Course Prefix
POLS

Course Number
6260

Department
School of Social Sciences

Course Title
Topics in International Politics

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course provides an examination of special topics in International Relations and Comparative Politics.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

POLS6280 - U.S. Institutions - 3 - Credits

Course Overview

Course Prefix
POLS

Course Number
6280

Department
School of Social Sciences

Course Title
U.S. Institutions

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers core institutions of U.S. government (Congress, the presidency, and the judiciary), and basic methods of institutional analysis and how institutions structure individual and collective political action. It includes applications to understanding the public policy process.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

POLS6300 - American Politics Seminar - 3 - Credits

Course Overview

Course Prefix
POLS

Course Number
6300

Department
School of Social Sciences

Course Title
American Politics Seminar

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This is an overview of American politics literature as well as theoretical and methodological approaches.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

POLS6305 - Advanced Topics in American Politics - 3 - Credits

Course Overview

Course Prefix
POLS

Course Number
6305

Department
School of Social Sciences

Course Title
Advanced Topics in American Politics

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course explores important themes in the American Politics literature with a focus on depth of critical areas of the field as opposed to breadth of exposure to the literature.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Special Approval
Instructor Permission

Other Enrollment Recommendations
POLS6300 AMERICAN POLITICS SEMINAR

Course Learning Objectives

Course Learning Outcomes

1. Develop stronger skills in written and/or oral communication on themes in American Politics.

2. Develop a deeper familiarity with key subfields and thinkers in American Politics.

POLS6310 - Political Theory Seminar - 3 - Credits

Course Overview

Course Prefix
POLS

Course Number
6310

Department
School of Social Sciences

Course Title
Political Theory Seminar

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course is an overview of key theorists in the history of political thought and the relationship between ideas and political institutions.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

POLS6315 - Advanced Topics in Political Theory - 3 - Credits

Course Overview

Course Prefix
POLS

Course Number
6315

Department
School of Social Sciences

Course Title
Advanced Topics in Political Theory

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course explores important themes in the Political Theory literature with a focus on depth of critical areas of the field as opposed to breadth of exposure to the literature.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Special Approval
Instructor Permission

Other Enrollment Recommendations
POLS6310 POLITICAL THEORY SEMINAR

Course Learning Objectives

Course Learning Outcomes
1. Develop stronger skills in written and/or oral communication on themes in Political Theory.

2. Develop a deeper familiarity with key subfields and thinkers in Political Theory.

POLS6400 - United States Foreign Policy - 3 - Credits

Course Overview

Course Prefix
POLS

Course Number
6400

Department
School of Social Sciences

Course Title
United States Foreign Policy

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Explores contemporary U.S. foreign policy in the context of international relations theory and global realities. Utilizing theoretical perspectives as analytical models, course examines how policy makers formulate and attempt to achieve U.S. foreign policy goals in the global arena.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

POLS6405 - Seminar on Intelligence and Covert Action - 3 - Credits

Course Overview

Course Prefix
POLS

Course Number
6405

Department
School of Social Sciences

Course Title
Seminar on Intelligence and Covert Action

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This seminar provides graduate students with the ability to evaluate the role and impact of intelligence, counterespionage, and covert action politics on national security and international relations.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

POLS6420 - The Mass Media and Politics - 3 - Credits

Course Overview

Course Prefix
POLS

Course Number
6420

Department
School of Social Sciences

Cross-Listed Courses
JCOM6420 - The Mass Media and Politics

Dual-Listed Courses
POLS5420 - The Mass Media and Politics

Course Title
The Mass Media and Politics

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course examines the role of the mass media in the political process. It also includes the examination of political advertising, news coverage, polling, opinion formation strategies, and politicians' use of new media technologies. Additional coursework required for graduate-level course.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

POLS6810 - Graduate Seminar - 1 - 4 Credits

Course Overview

Course Prefix
POLS

Course Number
6810

Department
School of Social Sciences

Course Title
Graduate Seminar

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
American politics; comparative politics; political theory; international politics; public law; public administration.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
4

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
4

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
4

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
4

Lecture Hours Operator:
TO

No Requirements

POLS6910 - Directed Studies - 1 - 3 Credits

Course Overview

Course Prefix
POLS

Course Number
6910

Department
School of Social Sciences

Course Title
Directed Studies

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course engages students in directed readings in any political science field.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

Special Approval
Instructor permission

No Requirements

POLS6920 - Internship - 1 - 15 Credits

Course Overview

Course Prefix
POLS

Course Number
6920

Department
School of Social Sciences

Course Title
Internship

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Internship in a public administration agency.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
15

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
15

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
15

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
15

Lecture Hours Operator:
TO

Special Approval
Instructor permission

No Requirements

POLS6970 - Thesis Research - 1 - 9 Credits

Course Overview

Course Prefix
POLS

Course Number
6970

Department
School of Social Sciences

Course Title
Thesis Research

Grade Mode
Temporary Pass/Fail

Repeat Status
RP

Course Description
This course is designed for students preparing a master's degree thesis.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
9

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
9

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
9

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
9

Lecture Hours Operator:
TO

Registration Restrictions
Admission to candidacy

No Requirements

POLS6990 - Continuing Graduate Advisement - 1 - 3 Credits

Course Overview

Course Prefix
POLS

Course Number
6990

Department
School of Social Sciences

Course Title
Continuing Graduate Advisement

Grade Mode
Temporary Pass/Fail

Repeat Status
RP

Course Description
This course provides graduate students with continued support and advisement. It is usually taken following completion of all coursework required for the degree.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

No Requirements

PORT1010 - Portuguese First Year I - 4 - Credits

Course Overview

Course Prefix
PORT

Course Number
1010

Department
World Languages and Cultures

Course Title
Portuguese First Year I

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Communicative competencies in the four language skills: speaking, listening, reading, and writing, with exposure to cultures and customs.

Credit Hours

Credit Hours
Min:
4

Contact Hours

Contact Hours
Min:
4

Billing Hours

Billing Hours
Min:
4

Lecture Hours

Lecture Hours
Min:
4

No Requirements

PORT1020 - Portuguese First Year II - 4 - Credits

Course Overview

Course Prefix
PORT

Course Number
1020

Department
World Languages and Cultures

Course Title
Portuguese First Year II

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students learn communicative competencies in the four language skills: speaking, listening, reading, and writing, with exposure to cultures and customs.

Credit Hours

Credit Hours
Min:
4

Contact Hours

Contact Hours
Min:
4

Billing Hours

Billing Hours
Min:
4

Lecture Hours

Lecture Hours
Min:
4

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ANY of the following Courses:

- PORT1010 - Portuguese First Year I

Exam

Language Proficiency Exam
USU World Languages and Cultures Language Proficiency Placement test score of 320-369

PORT1030 - Accelerated Portuguese First Year - 4 - Credits

Course Overview

Course Prefix
PORT

Course Number
1030

Department
World Languages and Cultures

Course Title
Accelerated Portuguese First Year

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course is an accelerated beginning Portuguese course, equivalent to the first two semesters. Students develop communicative competencies in speaking, writing, listening, and reading, as well as Luso-Afro-Brazilian cultural competence.

Credit Hours

Credit Hours
Min:
4

Contact Hours

Contact Hours
Min:
4

Billing Hours

Billing Hours
Min:
4

Lecture Hours

Lecture Hours
Min:
4

Other Enrollment Recommendations
No more than one year of Portuguese in high school or placement by the World Language and Cultures (WCL) proficiency test.

Course Learning Objectives

Course Learning Outcomes
1. To develop Portuguese skills in accordance with the material used for Portuguese First-Year I and II.

2. To provide students with language learning activities that advance Portuguese language skill proficiency to the level required for continued progress at the next course level.

3. To reach Novice-High Portuguese skills, as defined by ACTFL.

PORT1050 - Intensive Portuguese for Spanish Speakers - 4 - Credits

Course Overview

Course Prefix
PORT

Course Number
1050

Department
World Languages and Cultures

Course Title
Intensive Portuguese for Spanish Speakers

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Communicative competencies in the four language skills: speaking, listening, reading, and writing, with exposure to cultures and customs. Intensive course for Spanish speakers.

Credit Hours

Credit Hours
Min:
4

Contact Hours

Contact Hours
Min:
4

Billing Hours

Billing Hours
Min:
4

Lecture Hours

Lecture Hours
Min:
4

No Requirements

PORT1800 - Portuguese I Study Abroad - 1 - 4 Credits

Course Overview

Course Prefix
PORT

Course Number
1800

Department
World Languages and Cultures

Course Title
Portuguese I Study Abroad

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Communicative competencies in the four language skills: speaking, listening, reading, and writing, with exposure to cultures and customs.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
4

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
4

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
4

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
4

Lecture Hours Operator:
TO

No Requirements

PORT1820 - Beginning Independent Study Abroad: Experiencing Lusophone Culture I - 2 - Credits

Course Overview

Course Prefix
PORT

Course Number
1820

Department
World Languages and Cultures

Course Title
Beginning Independent Study Abroad: Experiencing Lusophone Culture I

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This is an introductory-level independent study project focusing on Lusophone cultures and societies and the Portuguese language. It is only offered through USU's Summer Study Abroad in either Brazil or Portugal.

Credit Hours

Credit Hours Min:
2

Contact Hours

Contact Hours Min:
2

Billing Hours

Billing Hours Min:
2

Lecture Hours

Lecture Hours Min:
2

No Requirements

PORT2010 - Portuguese Second Year I - 4 - Credits

Course Overview

Course Prefix
PORT

Course Number
2010

Department
World Languages and Cultures

Course Title
Portuguese Second Year I

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students continue development of communicative competencies in the four language skills: speaking, listening, reading, and writing, with exposure to cultures and customs.

Credit Hours

Credit Hours
Min:
4

Contact Hours

Contact Hours
Min:
4

Billing Hours

Billing Hours
Min:
4

Lecture Hours

Lecture Hours
Min:
4

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ANY of the following Courses:

- PORT1020 - Portuguese First Year II
  OR PORT1030 - Accelerated Portuguese First Year

Exam

Language Proficiency Exam
USU World Languages and Cultures Language Proficiency Placement test score of 370-439

PORT2020 - Portuguese Second Year II - 4 - Credits

Course Overview

Course Prefix
PORT

Course Number
2020

Department
World Languages and Cultures

Course Title
Portuguese Second Year II

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students continue development of communicative competencies in the four language skills: speaking, listening, reading, and writing, with exposure to cultures and customs.

Credit Hours

Credit Hours
Min:
4

Contact Hours

Contact Hours
Min:
4

Billing Hours

Billing Hours
Min:
4

Lecture Hours

Lecture Hours
Min:
4

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- PORT2010 - Portuguese Second Year I

Exam

Language Proficiency Exam
USU World Languages and Cultures Language Proficiency Placement test score of 440-499

PORT2030 - Accelerated Portuguese Second Year - 4 - Credits

Course Overview

Course Prefix
PORT

Course Number
2030

Department
World Languages and Cultures

Course Title
Accelerated Portuguese Second Year

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Accelerated intermediate Portuguese course, equivalent to a second year of Portuguese studies. Students develop communicative competencies in speaking, writing, listening, and reading, as well as in Luso-Afro-Brazilian cultural competence.

Credit Hours

Credit Hours Min:
4

Contact Hours

Contact Hours Min:
4

Billing Hours

Billing Hours Min:
4

Lecture Hours

Lecture Hours Min:
4

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ANY of the following Courses:

- PORT1020 - Portuguese First Year II
- PORT1030 - Accelerated Portuguese First Year

Course Learning Objectives

Course Learning Outcomes
Students who successfully complete this course are expected to be able to, as adapted from ACTFL Proficiency Guidelines (2024):

1. Converse with others about routine tasks and in social situations that require an exchange of basic information related to their work, school, recreation, interests, and areas of competence.

2. Write paragraph-length compositions and summaries related to work and/or school experiences.

3. Understand simple sentence-length speech in basic personal and social contexts.

4. Understand short texts that convey basic information and deal with personal and social topics to which the reader brings personal interest or knowledge.

PORT2800 - Portuguese II Study Abroad - 1 - 4 Credits

Course Overview

Course Prefix
PORT

Course Number
2800

Department
World Languages and Cultures

Course Title
Portuguese II Study Abroad

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Continued development of communicative competencies in the four language skills: speaking, listening, reading, and writing, with exposure to cultures and customs.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
4

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
4

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
4

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
4

Lecture Hours Operator:
TO

No Requirements

PORT2820 - Intermediate Independent Study: Experiencing Lusophone Culture II - 2 - Credits

Course Overview

Course Prefix
PORT

Course Number
2820

Department
World Languages and Cultures

Course Title
Intermediate Independent Study: Experiencing Lusophone Culture II

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This is an intermediate-level independent study project focusing on Lusophone cultures and societies. It is only offered through USU's Summer Study Abroad in either Brazil or Portugal.

Credit Hours

Credit Hours Min:
2

Contact Hours

Contact Hours Min:
2

Billing Hours

Billing Hours Min:
2

Lecture Hours

Lecture Hours Min:
2

No Requirements

PORT2880 - Individual Readings - 1 - 4 Credits

Course Overview

Course Prefix
PORT

Course Number
2880

Department
World Languages and Cultures

Course Title
Individual Readings

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Individual study of selected readings in Portuguese.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
4

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
4

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
4

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
4

Lecture Hours Operator:
TO

Special Approval
Instructor's permission

No Requirements

PORT3000 - Intermediate Grammar and Composition - 3 - Credits

Course Overview

Course Prefix
PORT

Course Number
3000

Department
World Languages and Cultures

Course Title
Intermediate Grammar and Composition

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides intensive work on grammar and composition skills while studying cultural aspects of Portuguese speaking countries.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- PORT2020 - Portuguese Second Year II

(or equivalent course)

PORT3040 - Advanced Portuguese Grammar and Composition (CI) - 3 - Credits

Course Overview

Course Prefix
PORT

Course Number
3040

Department
World Languages and Cultures

Course Title
Advanced Portuguese Grammar and Composition (CI)

General Education Attribute
CI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course is a review of the more complex Portuguese grammatical points and development of writing skills through composition.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- PORT2020 - Portuguese Second Year II
- PORT2030 - Accelerated Portuguese Second Year

Exam

Language Proficiency Exam
USU World Languages and Cultures Language Proficiency Placement test score of 500

PORT3081 - Healthcare Translation in Portuguese - 3 - Credits

Course Overview

Course Prefix
PORT

Course Number
3081

Department
World Languages and Cultures

Course Title
Healthcare Translation in Portuguese

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course focuses on medical translation skills and building conceptual knowledge in healthcare contexts and language and translation competence. It introduces students to professional, nationally-accepted standards of translation practice and uses authentic materials and contextually meaningful situations.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Completion Requirement

Required

Complete ALL of the following Courses:

- PORT3040 - Advanced Portuguese Grammar and Composition (CI)

Course Learning Objectives

Course Learning Outcomes
1. The student will gain an understanding and appreciation of Medical Translation between English and Portuguese.
2. Students will learn nationally-accepted standards of translation practice and

performance.
3. Students will develop translation skills between English and Portuguese in the healthcare context.

PORT3100 - Healthcare Portuguese - 3 - Credits

Course Overview

Course Prefix
PORT

Course Number
3100

Department
World Languages and Cultures

Course Title
Healthcare Portuguese

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
A comprehensive and foundational exploration of the specialized language used in the healthcare and medical fields. The course is designed for students, healthcare professionals, and anyone interested in gaining proficiency in Portuguese medical terminology to communicate in healthcare settings.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Pre-requisite

Type
Prerequisite

Required

Complete ANY of the following Courses:

- PORT3000 - Intermediate Grammar and Composition
- PORT3040 - Advanced Portuguese Grammar and Composition (CI)

Course Learning Objectives

Course Learning Outcomes
Learning outcomes: Students who successfully complete this course are expected to be able to

1. Recall and adequately use language terminology and concepts relating to human anatomy physiology, diseases and symptoms, medical procedures, medications, treatments, and healthcare professionals that are used in common medical communication tasks.
2. Communicate fluently in the L2 (Portuguese) in provider-patient interactions by expressing needs and symptoms, understanding advice, and asking and answering questions.
3. Identify medical textual genres and rhetorical patterns to read and adequately interpret information.
4. Contrast medical cultures to identify possible cultural and interpersonal aspects that may hinder communication between English and Portuguese-speaking populations as well as strategies to resolve miscommunications.

PORT3116 - Navigating Identities of the Portuguese-speaking World - 3 - Credits

Course Overview

Course Prefix
PORT

Course Number
3116

Department
World Languages and Cultures

Course Title
Navigating Identities of the Portuguese-speaking World

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course investigates themes of travel, navigation, and cross-cultural encounters throughout today's Portuguese-speaking world. Students develop interpersonal, interpretive, and presentational communication skills as they read and view authentic texts and learn to speak and write about these topics.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

NEWL Exam

Portuguese NEWL Exam

- Score of 3 or higher

PORT3117 - Cultural Issues Through Literature and FIlm - 3 - Credits

Course Overview

Course Prefix
PORT

Course Number
3117

Department
World Languages and Cultures

Course Title
Cultural Issues Through Literature and FIlm

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students analyze and interpret works of literature and film in the Portuguese-speaking world to explore cultural issues. Students develop interpersonal, interpretive, and presentational communication skills as they read and view authentic texts and learn to speak and write about these topics.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

NEWL Exam

Portuguese NEWL Exam

- Score of 3 or higher

Course Learning Objectives

Course Learning Outcomes

1. Evaluate, argue, and defend different perspectives based on their previous knowledge, experiences, and academic literary texts (written and visual) provided throughout the course.

2. Compare various Portuguese-speaking film and literary texts and connect with students' culture and experiences.

3. Interpret literary and film texts from the Portuguese-speaking world using interpretive, presentational, and interpersonal modes: reading, listening, writing, and speaking.

4. Analyze key structural elements of literary genres and film through thematic units of study exploring contemporary issues in society.

PORT3118 - Popular Culture in the Portuguese-speaking World - 3 - Credits

Course Overview

Course Prefix
PORT

Course Number
3118

Department
World Languages and Cultures

Course Title
Popular Culture in the Portuguese-speaking World

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course explores ways that popular media and entertainment reflect and shape how Portuguese speakers view themselves, their community, and their own and other cultures.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Required

Type
Prerequisite

NEWL Exam

Portuguese NEWL Exam
- Score of 3 or higher

PORT3400 - Popular Music in the Portuguese-Speaking World - 3 - Credits

Course Overview

Course Prefix
PORT

Course Number
3400

Department
World Languages and Cultures

Course Title
Popular Music in the Portuguese-Speaking World

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This is an introduction to the popular music of Brazil and the other Portuguese speaking countries. Close attention is paid to the historical, socio-cultural, and political forces that have shaped the formation of popular music in those countries.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:
- PORT3040 - Advanced Portuguese Grammar and Composition (CI)

PORT3510 - Business Portuguese - 3 - Credits

Course Overview

Course Prefix
PORT

Course Number
3510

Department
World Languages and Cultures

Course Title
Business Portuguese

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students develop skills in Portuguese business language and cultures, emphasizing business vocabulary, concepts, communication, reading, interviewing skills, and resume writing in the target language.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- PORT3040 - Advanced Portuguese Grammar and Composition (CI)

Exam

Language Proficiency Exam
USU World Languages and Cultures Language Proficiency Placement test score of 550

PORT3540 - Introduction to Translation Studies in Portuguese - 3 - Credits

Course Overview

Course Prefix
PORT

Course Number
3540

Department
World Languages and Cultures

Course Title
Introduction to Translation Studies in Portuguese

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces students to translation concepts and strategies. Students will be exposed to different methods of researching unfamiliar terminology and options for dealing with terms that cannot be found in ordinary bilingual language dictionaries.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- PORT3040 - Advanced Portuguese Grammar and Composition (CI)

PORT3550 - Rio, The Wonder City - 3 - Credits

Course Overview

Course Prefix
PORT

Course Number
3550

Department
World Languages and Cultures

Course Title
Rio, The Wonder City

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course is designed to explore the rich historical, cultural, and socio-economic aspects of Rio de Janeiro, Brazil. It provides students with an understanding of the city's unique blend of traditions and vibrant diversity.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- PORT3040 - Advanced Portuguese Grammar and Composition (CI)

Course Learning Objectives

Course Learning Outcomes

1. This course will provide students with insights into the tourism industry of Rio, exploring the factors that make it a global tourism destination and will develop an appreciation for its unparalleled natural beauty, including its unique iconic beaches, mountains, and tropical landscapes.

2. Students will understand the nuances of the city's cultural landscape, analyzing its historical roots, artistic expressions, and the evolution of traditions.

3. Students will gain a comprehensive historical understanding of Rio de Janeiro, from its colonial roots to its present-day status, by exploring its cultural, historical, and economic contributions to the nation.

PORT3570 - Brazilian Culture and Civilization (DHA) - 3 - Credits

Course Overview

Course Prefix
PORT

Course Number
3570

Department
World Languages and Cultures

Course Title
Brazilian Culture and Civilization (DHA)

General Education Attribute
DHA

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Historical, social, political, economic, and cultural conditions and institutions of Brazil.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- PORT3040 - Advanced Portuguese Grammar and Composition (CI)

PORT3630 - Literatures of the Portuguese-Speaking World (DHA) - 3 - Credits

Course Overview

Course Prefix
PORT

Course Number
3630

Department
World Languages and Cultures

Course Title
Literatures of the Portuguese-Speaking World (DHA)

General Education Attribute
DHA

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course offers a historical panorama of the literatures of Portuguese-speaking countries (Portugal, Brazil, Angola, Mozambique, Cape Verde, and others) while also fostering discussions on the relationships between these cultures and on decolonial art forms.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- PORT3040 - Advanced Portuguese Grammar and Composition (CI)

PORT3700 - Contemporary Brazilian Cinema - 3 - Credits

Course Overview

Course Prefix
PORT

Course Number
3700

Department
World Languages and Cultures

Course Title
Contemporary Brazilian Cinema

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course is taught in English with Portuguese movies using English subtitles and provides students a panorama of Brazilian contemporary film production, including various international box office successes.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

PORT3800 - Portuguese III Study Abroad - 1 - 4 Credits

Course Overview

Course Prefix
PORT

Course Number
3800

Department
World Languages and Cultures

Course Title
Portuguese III Study Abroad

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course is an intense review of selected problematic areas of Portuguese grammar for students with advanced language skills.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
4

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
4

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
4

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
4

Lecture Hours Operator:
TO

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ANY of the following Courses:

- PORT2020 - Portuguese Second Year II
  OR PORT2030 - Accelerated Portuguese Second Year

Exam

Language Proficiency Exam
USU World Languages and Cultures Language Proficiency Placement test score of 500

PORT3820 - Advanced Independent Study Abroad: Experiencing Lusophone Culture III - 2 - Credits

Course Overview

Course Prefix
PORT

Course Number
3820

Department
World Languages and Cultures

Course Title
Advanced Independent Study Abroad: Experiencing Lusophone Culture III

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This is an advanced-level independent study project focusing on Lusophone cultures and societies and the Portuguese language. It is only offered through USU's Summer Study Abroad in either Brazil or Portugal.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- PORT2020 - Portuguese Second Year II

PORT4000 - Contemporary Issues in Brazil - 3 - Credits

Course Overview

Course Prefix
PORT

Course Number
4000

Department
World Languages and Cultures

Course Title
Contemporary Issues in Brazil

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides an exploration of historical, political, social, economic, and cultural issues impacting current affairs in Brazil.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerquisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- PORT3040 - Advanced Portuguese Grammar and Composition (CI)

PORT4071 - Simultaneous and Consecutive Healthcare Interpretation - 3 - Credits

Course Overview

Course Prefix
PORT

Course Number
4071

Department
World Languages and Cultures

Course Title
Simultaneous and Consecutive Healthcare Interpretation

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students practice simultaneous and consecutive modes of healthcare interpretation in different contexts related to common illnesses and medications. Students may have the opportunity to perform shadowing in a healthcare facility. Students are expected to do voluntary hours in the community.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- PORT3040 - Advanced Portuguese Grammar and Composition (CI)

Course Learning Objectives

Course Learning Outcomes

1. The student will gain an understanding and appreciation of simultaneous and consecutive interpretation.
2. The student will begin the in-depth study of simultaneous interpretation and develop professional skills.

PORT4081 - Portuguese Medical Interpreting - 3 - Credits

Course Overview

Course Prefix
PORT

Course Number
4081

Department
World Languages and Cultures

Course Title
Portuguese Medical Interpreting

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course initiates advanced Portuguese learners into medical interpretation between Portuguese and English in an American healthcare context. Students review and use Portuguese medical vocabulary to practice interpreting in different modes while following ethical standards and best practices.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- PORT3540 - Introduction to Translation Studies in Portuguese

Course Learning Objectives

Course Learning Outcomes
1. Recall and explain the common values in medical interpreters' codes of ethics and list best practices to abide by them.

2. Apply advanced language skills and cultural knowledge to the identification and solution of linguistic, register, cultural, and systemic impediments to patient-provider communication.

3. Use memory techniques to deliver accurate and complete interpretation in Portuguese and English between the patient and the provider.

4. Use accurate medical vocabulary in Portuguese and English to facilitate the communication between Portuguese-speaking patients and English-speaking medical providers.

5. Differentiate between simultaneous interpretation, consecutive interpretation, and sight translation to choose the most appropriate mode of interpretation for each communicative situation in a medical context.

PORT4100 - Trends in Lusophone Cultures - 3 - Credits

Course Overview

Course Prefix
PORT

Course Number
4100

Department
World Languages and Cultures

Course Title
Trends in Lusophone Cultures

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course follows current issues that affect the Portuguese speaking countries. Topics include race relations, gender issues, social justice, contemporary trends in culture, and social-political issues.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- PORT3040 - Advanced Portuguese Grammar and Composition (CI)

PORT4200 - Brazilian Media in Global Context - 3 - Credits

Course Overview

Course Prefix
PORT

Course Number
4200

Department
World Languages and Cultures

Course Title
Brazilian Media in Global Context

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course combines visual materials with a series of essays written by leading scholars in order to offer students a comprehensive overview of contemporary Brazilian media in global context.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- PORT3040 - Advanced Portuguese Grammar and Composition (CI)

PORT4300 - Luso-Afro-Brazilian Women in Translation - 3 - Credits

Course Overview

Course Prefix
PORT

Course Number
4300

Department
World Languages and Cultures

Course Title
Luso-Afro-Brazilian Women in Translation

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course features music, literature, performances, and film by translated Luso-Afro-Brazilian women artists who have gained international recognition for exploring and questioning gender normativity and/or ethnic discrimination.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Other Enrollment Recommendations
PORT 3000-level course

Course Learning Objectives

Course Learning Outcomes
1. Produce and present in oral and written form a cogent reading of a Luso-Afro-Brazilian cultural product by or about women in translation, localized for an American context.

2. Discuss literal and symbolic effects of translation on an international comprehension of gendered, sexual, and national identity.

3. Assess and explain the roles of languages in mediating and reproducing notions of womanhood and gender identity.

4. Compare and contrast Luso-Afro-Brazilian and European-American perspectives on gender, sexuality, and national identity to estimate their effects on each other in an increasingly globalized and translated world, as well as to state and defend one (or more) of those perspectives with well-informed, complex arguments.

5. Interpret various formats of Luso-Afro-Brazilian cultural products to identify and describe their underlying perspectives on gender, sexuality, and national identity.

PORT4800 - Portuguese IV Study Abroad - 1 - 4 Credits

Course Overview

Course Prefix
PORT

Course Number
4800

Department
World Languages and Cultures

Course Title
Portuguese IV Study Abroad

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Intensive study in a Portuguese-speaking country, advancing proficiency in the four language skills and multicultural knowledge at the fourth-year level.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
4

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
4

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
4

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
4

Lecture Hours Operator:
TO

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete one of the following by either coursework or exam.

Fulfill ANY of the following requirements:

Coursework

Complete ALL of the following Courses:

- PORT2020 - Portuguese Second Year II

OR

Exam

Proficiency Exam

- Proficiency testing score of 500+

Course Learning Objectives

Course Learning Outcomes

1. Intensive study in a Portuguese-speaking country, advancing proficiency in the four language skills and multicultural knowledge at the fourth-year level.

PORT4880 - Individual Readings - 1 - 4 Credits

Course Overview

Course Prefix
PORT

Course Number
4880

Department
World Languages and Cultures

Course Title
Individual Readings

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Readings in Brazilian and/or Portuguese literature.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
4

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
4

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
4

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
4

Lecture Hours Operator:
TO

Special Approval

Instructor permission

No Requirements

PORT4920 - Portuguese Language Tutoring - 1 - Credits

Course Overview

Course Prefix
PORT

Course Number
4920

Department
World Languages and Cultures

Course Title
Portuguese Language Tutoring

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Allows students to develop tutoring skills by assisting professors in lower-division courses or fulfilling instructional duties for a comparable amount of time in the language laboratory, public schools, or similar activities with departmental approval. May be repeated to a maximum of 3 credits.

Credit Hours

Credit Hours Min:
1

Contact Hours

Contact Hours Min:
1

Billing Hours

Billing Hours Min:
1

Lecture Hours

Lecture Hours Min:
1

Special Approval

Instructor permission

No Requirements

PSC1050 - Plants, Soils, and Climate Orientation - 1 - Credits

Course Overview

Course Prefix
PSC

Course Number
1050

Department
Plants, Soils and Climate

Course Title
Plants, Soils, and Climate Orientation

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Orientation to the teaching, research, and extension programs of the department, and to career opportunities. Optional orientation to a specific major: Horticulture, Crop Science, or Environmental Soil/Water Science.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

No Requirements

Course Learning Objectives

Course Learning Outcomes
By the end of this course, students will be able to:
1. Identify and describe the major disciplines, degree programs, and career pathways within the Plants, Soils, and Climate Department.
2. Evaluate potential internship, undergraduate research, and employment opportunities related to PSC degrees by engaging with guest speakers from academia, industry, and government agencies.
3. Demonstrate improved written communication skills by producing an essay on a topic relevant to PSC disciplines.
4. Recognize and explain the purpose of the PSC Clubs and other extracurricular opportunities and articulate how participation can enhance academic success and professional development.

PSC1800 - Introduction to Horticulture (BLS) - 3 - Credits

Course Overview

Course Prefix
PSC

Course Number
1800

Department
Plants, Soils and Climate

Course Title
Introduction to Horticulture (BLS)

General Education Attribute
BLS

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Introduction to production of nursery, greenhouse, fruit, and vegetable crops. Explores residential and commercial landscape construction and management. Students also learn about interior plants, arboriculture, turf science, landscape plant materials, and home gardening.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes
1. Describe the major branches and disciplines of horticulture and explain their roles in agriculture, landscaping, and environmental management.
2. Identify fundamental plant structures and functions and explain how these relate to plant growth and development.
3. Explain basic principles of plant propagation, nutrition, and environmental requirements as they apply to the cultivation of horticultural crops.
4. Explain basic horticultural skills such as planting, soil preparation, and plant maintenance using industry-accepted practices.
5. Explain what constitutes appropriate plant species for specific landscape or production settings based on climate, soil conditions, and intended use.
6. Research a topic from class, or one that is related, that piques your interest. Using that research, write a research paper using citations from at least 4 different, credible resources.

PSC1900 - Spring Pruning - 1 - Credits

Course Overview

Course Prefix
PSC

Course Number
1900

Department
Plants, Soils and Climate

Course Title
Spring Pruning

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
In this course, pruning techniques and methods for young, mature, and fruit trees are taught. Pruning options for shrubs are also covered.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Course Learning Objectives

Course Learning Outcomes

1. Describe the difference between removal cuts, reduction cuts, and heading cuts
2. Explain pruning impacts on young, mature, and fruit trees
3. Describe considerations for which branches to remove and how much
4. Apply principles of plant biology, growth patterns, and wound response to determine appropriate pruning techniques for different species and situations.
5. Evaluate pruning scenarios and make informed decisions that balance plant health, aesthetics, safety, and long-term landscape goals

PSC2000 - The Atmosphere and Weather (BPS) - 3 - Credits

Course Overview

Course Prefix
PSC

Course Number
2000

Department
Plants, Soils and Climate

Course Title
The Atmosphere and Weather (BPS)

General Education Attribute
BPS

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Survey of the processes governing the behavior of the atmosphere and the phenomenon of weather. Basic physical principles of radiation, energy, evaporation, and heat transport are introduced and connected to atmospheric circulation and weather.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Course Learning Objectives

Course Learning Outcomes

1. Explain the fundamental physical processes of the atmosphere, including energy transfer, radiation, condensation, and precipitation.
2. Analyze and interpret weather systems and atmospheric data to understand patterns such as pressure systems, fronts, and storms.
3. Evaluate the causes and impacts of extreme weather events and their connections to broader climate systems and human activities.
4. Apply scientific reasoning and quantitative methods to investigate atmospheric phenomena and communicate findings effectively.

PSC2010 - Soils, Waters, and the Environment (BPS) - 3 - Credits

Course Overview

Course Prefix
PSC

Course Number
2010

Department
Plants, Soils and Climate

Course Title
Soils, Waters, and the Environment (BPS)

General Education Attribute
BPS

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Introduction to principles of physical and biological science. Discussion of current environmental topics, focusing on soil and the waters that contact the soil. Topics include water quality, global climate change, deforestation, soil conservation, and agricultural sustainability.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes
1. Describe soil morphology and landscape features, and name horizons according to National Cooperative Soil Survey standards.
2. Identify the environmental factors (climate, organisms, parent material, relief, time) that influence soil development in a landscape context.
3. Apply concepts of physical, chemical, and biological processes to explain soil formation and behavior.
4. Interpret key soil properties that influence vegetation communities, suitability for land use, ecosystem services, etc.
5. Classify soils using Soil Taxonomy and infer soil properties from the taxonomic name.
6. Access and use soil survey information available on the web, understanding its potential and limitation.

PSC2030 - Basic Flower Arranging - 2 - Credits

Course Overview

Course Prefix
PSC

Course Number
2030

Department
Plants, Soils and Climate

Course Title
Basic Flower Arranging

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers principles of basic flower design using fresh, dried, and artificial flowers. Proper care of cut flowers and foliages is covered. Basic plant physiology behind such principles is also included. A lab fee is required.

Credit Hours

Credit Hours Min:
2

Contact Hours

Contact Hours Min:
2

Billing Hours

Billing Hours Min:
2

Lecture Hours

Lecture Hours Min:
2

No Requirements

PSC2040 - Aviation Meteorology (BPS) - 3 - Credits

Course Overview

Course Prefix
PSC

Course Number
2040

Department
Plants, Soils and Climate

Course Title
Aviation Meteorology (BPS)

General Education Attribute
BPS

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course includes the discussion, observation, and analysis of weather important for pilots and those associated with air travel.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Course Learning Objectives

Course Learning Outcomes
1. Most importantly, to preclude you being a weather-related flight statistic.
2. To create a personal level of meteorological knowledge to the extent that you feel comfortable answering aviation students' questions on weather and weather products.
3. To give you the confidence, as a ground school instructor, to teach meteorology rather than just showing a video.
4. To prepare you for the meteorology questions that are contained in the FAA (or other countries' aviation authorities) certification exams (many are included in the database of questions used for quizzes and examinations).

PSC2200 - Pesticide Certification - 2 - Credits

Course Overview

Course Prefix
PSC

Course Number
2200

Department
Plants, Soils and Climate

Course Title
Pesticide Certification

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Overview of pest control considerations towards commercial pesticide licensing. This integrated pest management, organic and chemical pest control, environmental considerations, safety, and life cycles of pests.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

No Requirements

Course Learning Objectives

Course Learning Outcomes
1. Recognize major categories of pests (insects, weeds, pathogens, vertebrates) relevant to agricultural and urban systems.
2. Summarize key regulatory concepts related to pesticide registration, labeling, and legal responsibilities.
3. Recognize the difference between General Use and Restricted Use Pesticides and why the classification exists.
4. Describe the biological, ecological, and economic principles that form the foundation of integrated pest management (IPM).
5. Understand the appropriate actions in all steps of pesticide use: selection, mixing and loading, application, clean up, PPE, storage and disposal.
6. Understand toxicity + exposure = hazard and learn how to limit it.
7. Identify the major pest management methods, including cultural, mechanical, biological, genetic, and chemical controls.
8. Understand how to protect the environment and non-target organisms in pesticide use.

PSC2250 - Occupational Experience in Agronomy and Horticulture - 1 - 4 Credits

Course Overview

Course Prefix
PSC

Course Number
2250

Department
Plants, Soils and Climate

Course Title
Occupational Experience in Agronomy and Horticulture

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Provides credit for on-the-job training in jobs related to plants or soils.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
4

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
4

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
4

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
4

Lecture Hours Operator:
TO

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Students will develop skills required by horticultural professionals through mentored work experiences.

PSC2600 - Herbaceous Plant Materials - 3 - Credits

Course Overview

Course Prefix
PSC

Course Number
2600

Department
Plants, Soils and Climate

Course Title
Herbaceous Plant Materials

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Identification, culture, and utilization of herbaceous ornamental plants in the landscape, including annual and perennial flowering plants, herbaceous ground covers, ornamental grasses, and herbs.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Students will be able to visually identify approximately 170 herbaceous annuals and perennials that are commonly used in residential and commercial landscapes.
2. Students will integrate information about cold hardiness, typical size, light exposure preferences, and soil moisture preferences to select appropriate lines, cultivars and species for landscape usage.
3. Students will be able to use cultural information and aesthetic characteristics to design and maintain pleasing displays of herbaceous plant materials.

PSC2620 - Woody Plant Materials: Trees and Shrubs for the Landscape - 3 - Credits

Course Overview

Course Prefix
PSC

Course Number
2620

Department
Plants, Soils and Climate

Course Title
Woody Plant Materials: Trees and Shrubs for the Landscape

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Identification, culture, and utilization of woody ornamental plants in the landscape, including shade trees, flowering trees and shrubs, hedge plants, and vines. Review of native plants commonly used in the landscape.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Identify and describe the key morphological features (e.g., leaf shape, bark texture, bud arrangement, flower structure) used to distinguish woody plant species
2. Demonstrate knowledge of botanical nomenclature and taxonomy as it applies to the classification and naming of woody plants
3. Accurately identify over 150 woody plants (trees, shrubs, vines, etc.) common in landscapes and native habitats
4. Be familiar with common woody plant disorders and treatments
5. Evaluate plant selection based on site conditions, ecological function, and landscape value
6. Prepare a collection of individual study and present observations with the class
7. Observations will be prepared in a way that can be physically presented in a display

PSC2650 - Native Plants - 2 - Credits

Course Overview

Course Prefix
PSC

Course Number
2650

Department
Plants, Soils and Climate

Course Title
Native Plants

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers native plants in the natural and designed landscape, identification of native plants throughout Utah's distinct ecoregions, and the benefits of using native plants in landscaping. It also covers native plant propagation issues, sourcing, and growing requirements.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Course Learning Objectives

Course Learning Outcomes

1. Be familiar with the propagation and care for native plants in various settings.
2. Understand the use of native plants in sustainable landscape design.
3. Understand the ecological benefits of native plants.
4. Identify common native plants of Utah.

PSC2700 - Climate Change Impacts (BPS) - 3 - Credits

Course Overview

Course Prefix
PSC

Course Number
2700

Department
Plants, Soils and Climate

Course Title
Climate Change Impacts (BPS)

General Education Attribute
BPS

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
The Climate Change Impacts course surveys past climate variability and how extremes in climate variability have influenced and/or destabilized both long past and modern societies, as well as addressing how climate change is projected to further affect civilization within the U.S. and elsewhere.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes
1. Identify and explain the major natural and anthropogenic causes of climate change and their observable impacts on human health, biodiversity, and the environment.
2. Analyze and interpret scientific data, maps, and research to evaluate the social, economic, and political consequences of climate change across diverse communities.
3. Apply knowledge of climate change impacts to develop evidence-based discussions and propose practical adaptation or mitigation strategies that promote sustainability and resilience.
4. Communicate effectively about climate change using clear, evidence-supported arguments tailored to different audiences and perspectives.

PSC2710 - General Meteorology - 3 - Credits

Course Overview

Course Prefix
PSC

Course Number
2710

Department
Plants, Soils and Climate

Course Title
General Meteorology

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course offers a more in depth, quantitative expansion of meteorological topics such as jet streams and the life cycle of low-pressure storm systems. Emphasis is placed on a deeper understanding of basic principles of the weather and climate systems.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:
- PSC2000 - The Atmosphere and Weather (BPS)
- MATH1210 - Calculus I (QL)

Course Learning Objectives

Course Learning Outcomes
1. Develop introductory-level understanding of key principles introduced in upper-level courses focused on thermodynamics, fluid dynamics and large-scale meteorology, and earth system science.
2. Develop student ability to read and interpret standard atmospheric weather

charts.
3. Expand the calculus-based understanding of the general topics that make up Atmospheric and Climate Science.

PSC2900 - Special Problems in Plant Science - 1 - 4 Credits

Course Overview

Course Prefix
PSC

Course Number
2900

Department
Plants, Soils and Climate

Course Title
Special Problems in Plant Science

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Student-selected practical problems in horticulture and/or agronomy.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
4

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
4

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
4

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
4

Lecture Hours Operator:
TO

No Requirements

PSC3000 - Fundamentals of Soil Science - 4 - Credits

Course Overview

Course Prefix
PSC

Course Number
3000

Department
Plants, Soils and Climate

Course Title
Fundamentals of Soil Science

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Fundamentals of soil science, emphasizing physical, chemical, mineralogical, and biological properties of soils, and how these properties relate to plant growth and environmental quality.

Credit Hours

Credit Hours Min:
4

Contact Hours

Contact Hours Min:
4

Billing Hours

Billing Hours Min:
4

Lecture Hours

Lecture Hours Min:
4

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- CHEM1110 - General Chemistry I (BPS)
- MATH1050 - College Algebra (QL)

or higher CHEM course

or higher MATH course, or AP Calculus AB with a score of 3 or higher

Course Learning Objectives

Course Learning Outcomes

Following the completion of this course we should be able to:

1. Discuss, define, and identify physical, chemical, and biological properties of soils in different settings based on experience gained during lab sessions, class discussions, and homework assignments.
2. Interpret the significance of various soil properties to soil conservation, management, and formation, including connections between properties and soil profiles, using lessons learned in lecture and lab sessions.
3. Apply standardized methodologies to evaluate soil properties in a field and laboratory setting to develop novice, baseline soil assessments.
4. Value the importance and functionality of soil to our natural world by exploring applications of soil science through lecture discussions, homework questions, and lab activities.

PSC3100 - Soils and Civilization (DSC) - 3 - Credits

Course Overview

Course Prefix
PSC

Course Number
3100

Department
Plants, Soils and Climate

Course Title
Soils and Civilization (DSC)

General Education Attribute
DSC

Grade Mode
Standard Letter

Repeat Status
NR

Course Description

Lectures, readings, and discussions to explore effects of soil physical, chemical, and biological properties on civilization throughout history. Influence of soils on settlement patterns, land use/management, and civilization decline. Case studies focus on current soil and land use issues in western North America.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. why soil is a critical non-renewable natural resource
2. the essential environmental/ecological functions performed by soils
3. how humans around the world in the past and present have used soils to advance their civilizations or contributed to the decline of their civilizations through the misuse of soil

PSC3300 - Residential Landscapes - 3 - Credits

Course Overview

Course Prefix
PSC

Course Number
3300

Department
Plants, Soils and Climate

Course Title
Residential Landscapes

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Discusses functional and aesthetic relationships of plants and structures in the landscape in connection with installation considerations.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Corequisite

Type
Corequisite

Required

Enroll in the following Courses:

- PSC2600 - Herbaceous Plant Materials
- PSC2620 - Woody Plant Materials: Trees and Shrubs for the Landscape

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- LAEP1200 - Introduction to Graphics and Illustration

Course Learning Objectives

Course Learning Outcomes

1. The objective of this course is to familiarize the student at an introductory level with the landscape design process as it applies to the development of a residential planting plan.
2. This course will teach students to think logically, critically, and creatively so they may address a wide range of landscape and environmental issues.
3. Students will learn how to create a functional and beautiful residential landscape design plan that meets the needs of the client.

PSC3400 - Arboriculture - 3 - Credits

Course Overview

Course Prefix
PSC

Course Number
3400

Department
Plants, Soils and Climate

Course Title
Arboriculture

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers principles and practices of arboriculture, including planting site analysis and modification, tree selection, pruning, soil nutrient and irrigation management, introduction to tree pest management, tree appraisals and sustainability.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- PSC2620 - Woody Plant Materials: Trees and Shrubs for the Landscape

Course Learning Objectives

Course Learning Outcomes
1. Describe the fundamental principles of tree biology, including structure, growth, development, and responses to environmental conditions.
2. Identify common arboricultural practices and explain the basic methods used in tree selection, planting, pruning, support systems, and maintenance.
3. Describe the impact of soil, water, nutrition, and stressors on tree mortality
4. Summarize the foundational theories and decision-making principles used in modern arboriculture, including risk assessment, site evaluation, and species selection.
5. Use arboricultural methods and diagnostic frameworks to assess tree risk and make informed decisions that balance safety, tree health, and site objectives.
6. Participate in correctly planting a tree.
7. Participate in updating campus tree inventory.
8. Observe and present to class on 3 different species of woody plant's growth and development through the semester.

PSC3430 - Construction Methods for Residential Landscape Installation - 2 - Credits

Course Overview

Course Prefix
PSC

Course Number
3430

Department
Plants, Soils and Climate

Course Title
Construction Methods for Residential Landscape Installation

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Introduction to methods and equipment used in landscape installation, such as techniques of layout, pavers, water features, planting, sod installation, sprinkler and drip irrigation installation, and equipment operation.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Students will get a short introduction of the order of operations pertaining to residential landscape construction.
2. The course is designed to move through the proper order of operations start to finish of a project and split 50/50 between lecture and hands on labs.
3. Students will be introduced to Construction documents (Drawing or Plans), Take off's for compiling estimates, estimating, submitting proposal/contracts, irrigation, hardscapes, equipment and landscape lighting.

PSC3500 - Structure and Function of Plants - 3 - Credits

Course Overview

Course Prefix
PSC

Course Number
3500

Department
Plants, Soils and Climate

Course Title
Structure and Function of Plants

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Introduction to principles of plant physiology and fundamentals of plant anatomy, emphasizing implications for management and utilization.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- BIOL1010 - Biology and the Citizen (BLS)
  OR BIOL1610 - Biology I

Required

Integrated Science or comparable breadth course

Course Learning Objectives

Course Learning Outcomes
1. To differentiate plant types based on internal and external structures.
2. To describe the function of plant structures.
3. To apply basic plant biology to understand how plants grow and develop.

PSC3600 - An Introduction to Plant Breeding and Heredity - 3 - Credits

Course Overview

Course Prefix
PSC

Course Number
3600

Department
Plants, Soils and Climate

Course Title
An Introduction to Plant Breeding and Heredity

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
An introduction to plant breeding and heredity provides the basis for the improvement of plants. The course includes fundamentals of plant reproduction and basics of heredity and selection.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes
1. Understanding of genetic mechanisms and principles of heredity and variation in qualitative and quantitative traits in plants.
2. Define and calculate heritability and interpret its significance on plant breeding programs.
3. Understand how mating systems in plants affect the breeding populations and selection strategies

PSC3700 - Plant Propagation - 4 - Credits

Course Overview

Course Prefix
PSC

Course Number
3700

Department
Plants, Soils and Climate

Course Title
Plant Propagation

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Propagation of plants by sexual and asexual means. Covers fundamental physiology of propagation, as well as cultural practices and techniques used in crop production.

Credit Hours

Credit Hours
Min:
4

Contact Hours

Contact Hours
Min:
4

Billing Hours

Billing Hours
Min:
4

Lecture Hours

Lecture Hours
Min:
4

Other Enrollment Recommendations
BIOL1610 BIOLOGY I

No Requirements

Course Learning Objectives

Course Learning Outcomes
1. Describe the principles and practices of sexual and asexual plant propagation
2. Define common plant propagation methods, including seed propagation, cuttings, layering, division, grafting, and micropropagation.
3. Identify the environmental factors (light, temperature, humidity, substrates) that influence successful propagation.
4. Research chosen species propagation requirements and successfully propagate 25 commerically viable propagules from cuttings. Present to class about technique used, success rate, lessons learned.
5. Successfully propagate by seed
6. Successfully propagate by cuttings, hardwood, semi-hardwood, and softwood. Experiment with use of rooting hormone to increase success rate.
7. Successfully perform budding and grafting techniques

PSC3800 - Fundamentals of Organic Agriculture - 3 - Credits

Course Overview

Course Prefix
PSC

Course Number
3800

Department
Plants, Soils and Climate

Course Title
Fundamentals of Organic Agriculture

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Organic agriculture uses a holistic systems approach for maintaining plant, animal, and soil health. In this course, animal and crop production approaches and disease, as well as insect and weed management strategies, are scientifically assessed, critically compared, and used in decision making and problem solving exercises.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete at least 1 course in the following course sets:

- Breadth Physical Sciences (BPS) Course

Course Learning Objectives

Course Learning Outcomes

1. Students will understand the history of the organic agriculture movement, understand the basic principles and practices of organic agriculture and will have gained new skills in critical thinking and problem solving.

PSC3801 - Fundamentals of Organic Agriculture Lab I - 1 - Credits

Course Overview

Course Prefix
PSC

Course Number
3801

Department
Plants, Soils and Climate

Course Title
Fundamentals of Organic Agriculture Lab I

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Each week, students engage in discussions and hands-on activities designed to reinforce core concepts in organic agriculture. Activities are also aligned with seasonal activities on the USU Student Organic Farm.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Course Learning Objectives

Course Learning Outcomes

1. Improved abilities in leadership and initiative.
2. Developed applied skills in organic production and marketing practices.
3. Leared basic concepts learned in PSC 3800 Fundamentals of Organic Agriculture.

PSC3802 - Fundamentals of Organic Agriculture Fall Lab 2 - 1 - Credits

Course Overview

Course Prefix
PSC

Course Number
3802

Department
Plants, Soils and Climate

Course Title
Fundamentals of Organic Agriculture Fall Lab 2

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students engage in discussions and hands-on activities designed to reinforce core concepts in organic agriculture. Activities are also aligned with seasonal activities on the USU Student Organic Farm.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Course Learning Objectives

Course Learning Outcomes

1. Improved abilities in leadership and initiative.
2. Developed applied skills in organic production and marketing practices.
3. Learned basic concepts learned in PSC 3800 Fundamentals of Organic Agriculture.

PSC3810 - Turfgrass Management - 3 - Credits

Course Overview

Course Prefix
PSC

Course Number
3810

Department
Plants, Soils and Climate

Course Title
Turfgrass Management

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Fundamentals of turfgrass science: species adaptation, identification, and cultural requirements; turfgrass growth and development; establishment; primary cultural practices (fertilization, irrigation, mowing); secondary cultural practices; pest management; integrated management planning for turfgrass systems.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- BIOL1010 - Biology and the Citizen (BLS)
  OR BIOL1610 - Biology I

Course Learning Objectives

Course Learning Outcomes

1. Plan, perform, and understand the reasons for common management practices on turf.
2. Understand and describe the unique environmental and social challenges that turfgrass communities deal with.

3. Identify and recommend different turfgrass species (and varieties) for use in a variety of locations.

PSC4050 - Greenhouse Management and Crop Production - 4 - Credits

Course Overview

Course Prefix
PSC

Course Number
4050

Department
Plants, Soils and Climate

Course Title
Greenhouse Management and Crop Production

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Design and management of greenhouse facilities. Production requirements of primary greenhouse crops.

Credit Hours

Credit Hours
Min:
4

Contact Hours

Contact Hours
Min:
4

Billing Hours

Billing Hours
Min:
4

Lecture Hours

Lecture Hours
Min:
4

Other Enrollment Recommendations

1. Students will be able to monitor and control greenhouse temperature, humidity and lighting systems in order to maintain optimal growing conditions, while considering energy inputs.
2. Students will be able to manage rooting substrates, watering systems, fertilization, light, temperature and plant growth regulators to produce high quality greenhouse crops.
3. Students will integrate principles of pest and disease management with an understanding of the post-harvest market system to ensure optimal shelf/vase life for greenhouse crops.

Course Learning Objectives

Course Learning Outcomes

1. Explain the fundamental principles of greenhouse design and construction including materials, structural components, and their impact on plant growth and environmental control.
2. Describe key environmental factors such as temperature, light, humidity, and ventilation, and their role in optimizing plant growth within a greenhouse setting.
3. Identify and summarize common greenhouse management practices including

irrigation methods, pest and disease control strategies, and sustainable resource utilization techniques.
4. Demonstrate proficiency in managing greenhouse climate control systems, including heating, cooling, and ventilation equipment, to maintain optimal growing conditions for various crops.
5. Apply integrated pest management (IPM) techniques to effectively monitor, identify, and manage pests and diseases in a greenhouse environment.
6. Develop and implement crop production schedules that incorporate propagation, planting, and fertilization practices to maximize yield and resource efficiency.
7. Research and Present on the commercial production of a greenhouse crop.

PSC4250 - Internship in Plants, Soils, and/or Climate - 1 - 4 Credits

Course Overview

Course Prefix
PSC

Course Number
4250

Department
Plants, Soils and Climate

Course Title
Internship in Plants, Soils, and/or Climate

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Professional internship in crop science, horticulture, environmental soil/water science, and/or climate.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
4

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
4

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
4

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
4

Lecture Hours Operator:
TO

No Requirements

Course Learning Objectives

Course Learning Outcomes

1 Develop and practice skills important to their degree and career.
2 Demonstrate written communication skills directly relating to their career practice and goals.
3 Reflect on the internship experience in a deep way—relating to what was learned in skills and what was learned about themselves.

PSC4280 - Field and Food Cropping Systems - 3 - Credits

Course Overview

Course Prefix
PSC

Course Number
4280

Department
Plants, Soils and Climate

Course Title

Field and Food Cropping Systems

Grade Mode
Standard Letter

Repeat Status
NR

Course Description

Students learn the origin, morphology, genetic diversity, adaptation, management, marketing, and utilization of major world field crops. They investigate evolution, utilization, environmental adaptation, principles of agroecology, world production, and economic and social issues arising from crop production and management.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Repeatable for Credit:

2

Course Learning Objectives

Course Learning Outcomes

1. Understand global crop diversity and classification: Students will be able to explain the taxonomy, origin, and classification of major world food crops.
2. Analyze cultivation practices: Students will evaluate how different crops adapt to environments and identify key methods of improvement and utilization.
3. Apply knowledge through research and presentation: Students will conduct independent research on a food crop not covered in class and deliver a structured 15–20 minute presentation.
4. Demonstrate mastery through assessment: Students will integrate knowledge from lectures, readings, and projects to successfully complete exams and written assignments.

PSC4301 - Computer Aided Residential Landscape Design - 3 - Credits

Course Overview

Course Prefix
PSC

Course Number
4301

Department
Plants, Soils and Climate

Course Title
Computer Aided Residential Landscape Design

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students learn to use modern CAD software used in residential landscape design. This includes acquiring basic skills to digitally create landscape designs, generate plant and supply lists for bidding, and generate presentation and marketing materials.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- PSC3300 - Residential Landscapes

Course Learning Objectives

Course Learning Outcomes

Students learn to use and apply state of the art CAD software to the residential landscape design process. Areas of focus include the following:

1. Learning basic skills and techniques required to create computer generated landscape plans, construction details, and plant schedules that communicate landscape design solutions in a clear and effective manner.
2. Using a digital plant database to generate photos and provide information about growing and maintaining plants used in the design.
3. Using CAD applications for professional presentation and marketing.

PSC4302 - Advanced Residential Landscape Design - 3 - Credits

Course Overview

Course Prefix
PSC

Course Number
4302

Department
Plants, Soils and Climate

Course Title
Advanced Residential Landscape Design

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Advanced course in residential landscape design. Uses industry-standard and computer-aided design software for small-scale designs.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- PSC3300 - Residential Landscapes
- PSC4301 - Computer Aided Residential Landscape Design

Course Learning Objectives

Course Learning Outcomes

1. A primary objective of this course is for students to learn creative problem solving and communication skills in preparation for a career in the green industry upon graduation.
2. This advanced landscape design course will teach students how to express and communicate their ideas effectively by using a variety of media and technologies, including written, computer graphics, and oral presentations.
3. Prepare students for professional presentations & marketing by creating a landscape master plan, 3D model and a plant care guide.

PSC4320 - Forage Production and Pasture Management - 3 - Credits

Course Overview

Course Prefix
PSC

Course Number
4320

Department
Plants, Soils and Climate

Course Title
Forage Production and Pasture Management

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students learn about the cultivation and management of legumes and grasses used throughout the Intermountain region of the U.S. and the world for grazing, stored feed, soil improvement, and conservation. Forage plant growth and development, nutrient and water utilization, and responses to environmental stress.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Integrated Science or comparable breadth course

Course Learning Objectives

Course Learning Outcomes

1. Identify important forage species commonly used in the U.S. and primarily grown under irrigation in Utah, and understand their adaptation and management.
2. Understand the tradeoffs between forage yield and forage quality
3. Understand how forage crops affect the production and health of different classes of livestock
4. Understand how forage crops can be used to enhance soil, water, wildlife habitat, and other natural resources
5. Understand the basics of forage crop establishment, fertility management, pest control, and irrigation
6. Understand how pastures can be managed and used most efficiently
7. Understand how hay is managed and used
8. Understand how silage (fermented forage) is made, managed and used

PSC4350 - Applied Entomology - 3 - Credits

Course Overview

Course Prefix
PSC

Course Number
4350

Department
Plants, Soils and Climate

Course Title
Applied Entomology

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course examines various insect orders and the fundamentals of insect physiology, ecology and development. Topics include practical applications of entomology such as insect pest management, insect identification, pollinator protection and invasive pest exclusion.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Course Learning Objectives

Course Learning Outcomes

1. Gaining a basic understanding of the subject (e.g., factual knowledge, methods, principles, generalizations, theories.
2. Learning to Apply Course Material (to improve thinking, problem solving, and decisions).
3. Developing specific skills, competencies, and points of view needed by professionals in the field most closely related to this course.

PSC4400 - Modern Vegetable Production - 3 - Credits

Course Overview

Course Prefix
PSC

Course Number
4400

Department
Plants, Soils and Climate

Course Title
Modern Vegetable Production

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Principles and practices underlying scientific vegetable culture. Discussion of production of important vegetables, focusing on the physiological processes influencing their culture. Explores crop performance in research and commercial applications.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- BIOL1010 - Biology and the Citizen (BLS)
  OR BIOL1610 - Biology I

Course Learning Objectives

Course Learning Outcomes

1. Students will be able to identify the major components of vegetable production systems and explain management practices that enhance crop productivity.
2. Students will accurately classify vegetable crops by plant family and describe production practices that maximize yield and quality.
3. Students will describe fundamental principles of plant growth and development and explain how plant physiological processes influence production outcomes across different vegetable families.
4. Students will apply course concepts to develop practical management strategies for real-world contexts, demonstrating the ability to translate classroom learning into effective practices for home gardens or commercial vegetable farms.

PSC4450 - Plant Diseases - 3 - Credits

Course Overview

Course Prefix
PSC

Course Number
4450

Department
Plants, Soils and Climate

Course Title
Plant Diseases

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course examines plant disease biology, etiology, identification, prevention and management. An academic and applied approach is taken in exploring these topics.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Course Learning Objectives

Course Learning Outcomes
1. Gaining a basic understanding of the subject (e.g., factual knowledge, methods, principles, generalizations, theories.
2. Learning to Apply Course Material (to improve thinking, problem solving, and decisions).
3. Developing specific skills, competencies, and points of view needed by professionals in the field most closely related to this course.

PSC4500 - Urban Soil Management and Reclamation - 3 - Credits

Course Overview

Course Prefix
PSC

Course Number
4500

Department
Plants, Soils and Climate

Course Title
Urban Soil Management and Reclamation

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides in-depth information on causes of soil degradation (both natural and man-made) and rehabilitation procedures.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- PSC3000 - Fundamentals of Soil Science

Course Learning Objectives

Course Learning Outcomes

1) Understand how to assess, reclaim, and sustainably manage urban soils.
2) Identify and understand the extent and impact of contamination and disturbance in soils.

PSC4550 - Integrated Weed Management - 3 - Credits

Course Overview

Course Prefix
PSC

Course Number
4550

Department
Plants, Soils and Climate

Course Title
Integrated Weed Management

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course explores the various methods of weed control and their integrated use. Plant ecology and biology are emphasized as part of a holistic approach. Weeds in residential, agricultural, natural, and other settings will be covered.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Students will accurately identify common weed species to the plant family level using live specimens, field observations, and digital tools.
2. Students will evaluate the ecological and economic impacts of weeds across multiple production and natural systems, applying course concepts and supporting evidence.
3. Students will design and justify a complete integrated weed management (IWM) plan for a selected system, demonstrating effective use of cultural, mechanical, biological, and chemical strategies.

PSC4740 - Climate Practicum - 4 - Credits

Course Overview

Course Prefix
PSC

Course Number
4740

Department
Plants, Soils and Climate

Course Title
Climate Practicum

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students work independently on projects they design to bridge connections between their knowledge and real-world problems. Students enrolled in this course meet regularly throughout the semester with a faculty mentor.

Credit Hours

Credit Hours
Min:
4

Contact Hours

Contact Hours
Min:
4

Billing Hours

Billing Hours
Min:
4

Lecture Hours

Lecture Hours
Min:
4

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- PSC2000 - The Atmosphere and Weather (BPS)
- PSC5123 - Climate Data Analysis
  OR PSC6123 - Climate Data Analysis
- PSC4810 - Climate and Climate Change (DSC)(QI)

Course Learning Objectives

Course Learning Outcomes
1. Apply climate science principles to design and carry out an independent research project or professional internship.
2. Analyze and interpret climate data using appropriate quantitative and scientific methods.
3. Communicate findings effectively to both technical and general audiences.
4. Demonstrate professional and ethical conduct through collaboration, accountability, and reflective practice.

PSC4810 - Climate and Climate Change (DSC)(QI) - 3 - Credits

Course Overview

Course Prefix
PSC

Course Number
4810

Department
Plants, Soils and Climate

Course Title
Climate and Climate Change (DSC)(QI)

General Education Attribute
DSC, QI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course emphasizes physical basis of climate (climate dynamics), as well as the mechanisms and processes for its fluctuations on sub-seasonal to interannual time scales (climate variations) and on regional to hemispheric/global time scales.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

PSC4820 - Challenges in Climate Change and Energy - 3 - Credits

Course Overview

Course Prefix
PSC

Course Number
4820

Department
Plants, Soils and Climate

Course Title
Challenges in Climate Change and Energy

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Capstone experience. Students integrate sustainability concepts in an analysis of current climate and energy problems and present findings in oral and written reports. Internship in an area related to climate change or energy may be chosen for final presentations.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- GEO5680 - Paleoclimatology

PSC4890 - Senior Seminar (CI) - 1 - Credits

Course Overview

Course Prefix
PSC

Course Number
4890

Department
Plants, Soils and Climate

Course Title
Senior Seminar (CI)

General Education Attribute
CI

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course helps students explore and practice leadership and communication on current topics important to department majors and in careers after finishing at USU. It involves discussions, oral presentation, and writing activities.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Course Learning Objectives

Course Learning Outcomes
1 Gain a better understanding of students own leadership style.
2 Practice communication with people involved in horticulture, soils, agronomy, climate that involves science and emotion.
3 Gain a wider understanding of the career options the students are considering—including those not even thought of previously.

PSC4900 - Special Problems - 1 - 4 Credits

Course Overview

Course Prefix
PSC

Course Number
4900

Department
Plants, Soils and Climate

Course Title
Special Problems

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Special topics and problems in crop science, horticulture, environmental soil/water science, and/or climate. Subject, time, and credit arranged individually as needed.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
4

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
4

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
4

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
4

Lecture Hours Operator:
TO

Special Approval
Department permission

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. This course introduces beneficial and pathogenic plant-microbe interactions and their effects on plant growth and development.
2. Gaining a basic understanding of the subject.
3. Developing specific skills, competencies, and perspectives necessary for professionals in the field of plant stress physiology.
4. Learning how to find, evaluate, and use resources to explore a topic in depth.
5. Developing skills in expressing oneself orally and in writing.

PSC4970 - Undergraduate Research - 1 - 6 Credits

Course Overview

Course Prefix
PSC

Course Number
4970

Department
Plants, Soils and Climate

Course Title
Undergraduate Research

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Independent and faculty mentored undergraduate research in Plants, Soils, and Climate.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
6

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
6

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
6

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
6

Lecture Hours Operator:
TO

Special Approval
Department permission

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Research Design and Execution: Students will be able to design and carry out independent, original research projects in plant, soil, and/or climate science using appropriate methodologies.
2. Literature Analysis and Integration: Students will be able to critically evaluate and synthesize scientific literature to frame, justify, and contextualize their thesis and/or dissertation research.
3. Scholarly Communication: Students will be able to produce a well structured thesis or dissertation and effectively present their research findings to both scientific and non specialist audiences.
4. Disciplinary Mastery: Students will be able to demonstrate advanced knowledge of plant, soil, and/or climate science concepts, theories, and applications through scholarly work that contributes meaningfully to the field.

PSC5000 - Environmental Instrumentation - 2 - Credits

Course Overview

Course Prefix
PSC

Course Number
5000

Department
Plants, Soils and Climate

Dual-Listed Courses
PSC6000 - Environmental Instrumentation

Course Title
Environmental Instrumentation

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Discusses physics of signal transduction underlying all sensors. Basic electronics necessary to link sensors with dataloggers. Programming dataloggers to maximize measurement accuracy and to summarize data.

Credit Hours

Credit Hours Min:
2

Contact Hours

Contact Hours Min:
2

Billing Hours

Billing Hours Min:
2

Lecture Hours

Lecture Hours Min:
2

PSC5003 - Remote Sensing of Land Surfaces - 3 - Credits

Course Overview

Course Prefix
PSC

Course Number
5003

Department
Plants, Soils and Climate

Cross-Listed Courses
CEE5003 - Remote Sensing of Land Surfaces

Dual-Listed Courses
PSC6003 - Remote Sensing of Land Surfaces

Course Title
Remote Sensing of Land Surfaces

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Introduction to principles of radiation, reflectance, infrared thermal, and other remote sensing measurements for vegetation, soil, water, and urban landscapes. Topics include vegetation index applications, water balance components, satellites and drone technologies, cloud-based data repositories, computational environments for remote sensing. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Registration Restrictions
Student must be in the Professional Engineering Program

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- CEE2450 - Computer Programming and Numerical Methods for Civil and Environmental Engineers

Course Learning Objectives

Course Learning Outcomes
This course introduces fundamental and advances concepts on the science and analysis of remote sensing for different landscapes:

1. Fundamentals of light and its interaction with earth surface.
2. Remote sensing data collection
3. Remote sensing analysis for vegetation, soils, urban and water.
4. Key examples of remote sensing applications

PSC5050 - Principles of Environmental Soil Chemistry - 3 - Credits

Course Overview

Course Prefix
PSC

Course Number
5050

Department
Plants, Soils and Climate

Dual-Listed Courses
PSC6050 - Principles of Environmental Soil Chemistry

Course Title
Principles of Environmental Soil Chemistry

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Introduction to common chemical processes occurring among solid, liquid, and gas phases in soil systems. Emphasis placed on chemistry of arid land soils.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- CHEM1110 - General Chemistry I (BPS)
- MATH1050 - College Algebra (QL)

or higher CHEM course

or higher MATH course, or AP Calculus AB score of 3 or higher

Course Learning Objectives

Course Learning Outcomes

1. learn the properties of soil gases, solutions and solids including how primary and secondary silicate clay minerals form and weather, and how soil organic matter is characterized in soils
2. apply basic chemical bonding principles to predict mineral weathering and chemical reactions
3. use thermodynamic principles to predict what reactions occur in soils and why
4. apply basic principles to predict and manage how substances partition between soil gas, liquid and solid phases

PSC5070 - Agroecology - 3 - Credits

Course Overview

Course Prefix
PSC

Course Number
5070

Department
Plants, Soils and Climate

Dual-Listed Courses
PSC6070 - Agroecology

Course Title
Agroecology

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course is a critical evaluation of agroecology and its role in the management of agroecosystems. Ecology concepts are introduced from an agricultural perspective with research examples discussed. Adoption challenges and the role of community in sustainable food systems are explored. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- PSC3800 - Fundamentals of Organic Agriculture
- PSC3000 - Fundamentals of Soil Science
- PSC3500 - Structure and Function of Plants

Course Learning Objectives

Course Learning Outcomes

1. Students will have developed skills in the critical evaluation of agroecology and its role in the management of agroecosystems, leaned key concepts in ecology as applied to agricultural systems and gained an understanding of the literature and appreciation for the opportunities and challenges to adoption in sustainable food systems.

PSC5080 - Applied Statistics in Agricultural Research - 3 - Credits

Course Overview

Course Prefix
PSC

Course Number
5080

Department
Plants, Soils and Climate

Dual-Listed Courses
PSC6080 - Applied Statistics in Agricultural Research

Course Title
Applied Statistics in Agricultural Research

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course helps students understand research data through introducing basic principles of experimental design and data analysis. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Course Learning Objectives

Course Learning Outcomes

1. To understand your own (optional) research data with basic principles of experimental design and data analysis.
2. To process research data using SAS/Studio for data cleaning and analysis.
3. To understand and be able to interpret statistical analysis results and report in scientific writing.

PSC5090 - Sustainable Low Water Landscaping - 3 - Credits

Course Overview

Course Prefix
PSC

Course Number
5090

Department
Plants, Soils and Climate

Cross-Listed Courses
LAEP5090 - Sustainable Low Water Landscaping

Dual-Listed Courses
PSC6090 - Sustainable Low Water Landscaping

Course Title
Sustainable Low Water Landscaping

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course focuses on environmental analysis of climate, water, and soils of a prospective landscape site. This informs the design process on selection of adapted plants and plant layout that will minimize irrigation water use and maintenance. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Course Learning Objectives

Course Learning Outcomes

1. Explain the principles of sustainable, low-water landscaping and their importance in arid and semi-arid environments.
2. Analyze soil, climate, and ecological factors to inform plant selection, irrigation strategies, and overall site design.
3. Identify and select appropriate native and adapted plant species for low-water landscapes using hydrozoning principles.
4. Design functional, visually appealing landscapes that balance ecological health, aesthetic value, and water efficiency.
5. Estimate irrigation needs and apply efficient irrigation methods based on plant water demand and environmental conditions.
6. Implement appropriate landscape maintenance and material use to sustain

long-term landscape health and water efficiency.
7. Recognize the role of green infrastructure—including rainwater harvesting and permeable systems—in sustainable landscape design.

PSC5100 - Professional Turf and Urban Landscape Water Management - 3 - Credits

Course Overview

Course Prefix
PSC

Course Number
5100

Department
Plants, Soils and Climate

Dual-Listed Courses
PSC6100 - Professional Turf and Urban Landscape Water Management

Course Title
Professional Turf and Urban Landscape Water Management

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students study intensively used turfgrass areas as well as irrigation management and applied water relations of urban landscapes in the arid west. This course also involves the complex interactions with people who use and expect much of these environments. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- PSC3810 - Turfgrass Management

Course Learning Objectives

Course Learning Outcomes

1 Understand and plan site development and management unique to intensively used turfgrass areas.
2 Develop detailed plans for water conservation in urban landscapes—including environmental, economic, and social needs of the users.
3 Gain knowledge on the needs of native plants, and use that knowledge to plan landscapes in complex urban environments.

PSC5123 - Climate Data Analysis - 3 - Credits

Course Overview

Course Prefix
PSC

Course Number
5123

Department
Plants, Soils and Climate

Dual-Listed Courses

PSC6123 - Climate Data Analysis

Course Title

Climate Data Analysis

Grade Mode
Standard Letter

Repeat Status
NR

Course Description

In this course, students access and explore different climate data collections and gain knowledge about the earth's climate/weather system. Students gain skills analyzing and interpreting climate data. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

PSC5130 - Soil Genesis, Morphology, and Classification - 4 - Credits

Course Overview

Course Prefix
PSC

Course Number
5130

Department
Plants, Soils and Climate

Dual-Listed Courses

PSC6130 - Soil Genesis, Morphology, and Classification

Course Title

Soil Genesis, Morphology, and Classification

Grade Mode
Standard Letter

Repeat Status
NR

Course Description

Morphology, development, and classification of soils. Lectures and weekly field exercises emphasize soil as a natural body of the landscape: its properties, distribution, behavior, and interpretations for diverse land uses.

Credit Hours

Credit Hours
Min:
4

Contact Hours

Contact Hours
Min:
4

Billing Hours

Billing Hours
Min:
4

Lecture Hours

Lecture Hours
Min:
4

Other Enrollment Recommendations

Understanding of fundamental soil science; PSC3000 FUND OF SOIL SCIENCE recommended

Course Learning Objectives

Course Learning Outcomes

1. Describe soil morphology and landscape features, and name horizons according to National Cooperative Soil Survey standards.
2. Identify the environmental factors (climate, organisms, parent material, relief, time) that influence soil development in a landscape context.
3. Apply concepts of physical, chemical, and biological processes to explain soil formation and behavior.
4. Interpret key soil properties that influence vegetation communities, suitability for land use, ecosystem services, etc.
5. Classify soils using Soil Taxonomy and infer soil properties from the taxonomic

name.
6. Access and use soil survey information available on the web, understanding its potential and limitation.

PSC5150 - Bioinformatics and Big Data Mining - 3 - Credits

Course Overview

Course Prefix
PSC

Course Number
5150

Department
Plants, Soils and Climate

Dual-Listed Courses
PSC6150 - Bioinformatics and Big Data Mining

Course Title
Bioinformatics and Big Data Mining

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers an introduction to the discipline of bioinformatics and computational biology. It also covers techniques for biological big data mining. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Course Learning Objectives

Course Learning Outcomes
1. Describe the foundations of bioinformatics & computational biology, and explain their roles in agriculture, big data science, precision biology, and functional genomics. Explain the structure, function, and use of major biological databases.
2. Understand the principles of diverse OMICS data types (RNA-seq, single cell RNA-seq, SNP-seq, ChIP-seq, GBS-seq, Methyl-seq, miRNA-seq, Metagenomics, Genome assembly, etc.), and sequence analysis in systems biology.
3. Data Science & Big Data Competencies: To gain hands-on experience in Linux OS and High-Performance Computing in parsing and workflow automation for biological data processing. Briefly explain the applications of Machine Learning in modern biology.
4. Analyze big OMICS datasets: Pick one topic from diverse OMICS data types (RNA-Seq); and train the students in developing a reproducible computational workflow. Quality control, read mapping, quantification, differential expression, annotation.

5. Interpret and Communicate biological insights: Draw biologically meaningful conclusions from complex multidimensional datasets, e.g. explain how to interpret differential expression, clustering, annotation, enrichment, and pathway analyses. Applications in agriculture, health, and biological sciences.

PSC5201 - Hydroponics - 3 - Credits

Course Overview

Course Prefix
PSC

Course Number
5201

Department
Plants, Soils and Climate

Dual-Listed Courses
PSC6201 - Hydroponics

Course Title
Hydroponics

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course explores the principles and practices of design, maintenance, and applications of hydroponic growth systems. Additional topics include fertilizer solution chemistry, environmental setpoint optimization, and root-zone stability. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Other Enrollment Recommendations

Students should have a good understanding of high school level biology and chemistry in addition to meeting the prerequisites. Students without a basic understanding of general chemistry can still enroll in the course, but they may experience a higher learning curve than their peers with more of a chemistry background.

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ANY of the following Courses:

- BIOL1010 - Biology and the Citizen (BLS)

OR BIOL1610 - Biology I

Course Learning Objectives

Course Learning Outcomes

1. To understand the optimal nutrient compositions and concentrations in hydroponic fertilizer solutions.
2. To use knowledge of optimal environmental setpoints to maximize yield and manage plant stresses.
3. To choose the proper hydroponic system and management practice based on location and growing situation.

PSC5222 - Temperate Zone Fruit Production - 3 - Credits

Course Overview

Course Prefix
PSC

Course Number
5222

Department
Plants, Soils and Climate

Dual-Listed Courses

PSC6222 - Temperate Zone Fruit Production

Course Title

Temperate Zone Fruit Production

Grade Mode
Standard Letter

Repeat Status
NR

Course Description

Explores principles and practices underlying scientific fruit production. Focuses on physiological principles undergirding production practices. Topics include: plant growth and development, fruit anatomy, site selection, fertilizers, harvest, post-harvest physiology, and storage. Includes discussion of the production of important temperate fruit crops. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- BIOL1010 - Biology and the Citizen (BLS)
  OR BIOL1610 - Biology I

Course Learning Objectives

Course Learning Outcomes

1. Know the basic botanical and horticultural principles related to temperate fruit crops.
2. Understand how plant growth and development and plant physiology influence fruit crop management practices.
3. Learn how to transfer key findings related to fruit growth and development to a broad range of situations and develop skills in communicating findings to diverse audiences.

PSC5270 - Environmental Plant Physiology - 2 - Credits

Course Overview

Course Prefix
PSC

Course Number
5270

Department
Plants, Soils and Climate

Dual-Listed Courses

PSC6270 - Environmental Plant Physiology

Course Title

Environmental Plant Physiology

Grade Mode
Standard Letter

Repeat Status
NR

Course Description

Quantitatively analyzes the relationship between physiological processes and growth of whole plants. Energy balance and water use efficiency. Light interception and canopy geometry. Canopy photosynthesis and respiration. Carbon partitioning and source/sink relationships.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- BIOL4400 - Plant Physiology (QI)
  OR PSC3500 - Structure and Function of Plants

Course Learning Objectives

Course Learning Outcomes

1. Understand the physics of energy and mass transfer in the soil, plant atmosphere continuum.

PSC5280 - Plant Stress Physiology - 3 - Credits

Course Overview

Course Prefix
PSC

Course Number
5280

Department
Plants, Soils and Climate

Dual-Listed Courses
PSC6280 - Plant Stress Physiology

Course Title
Plant Stress Physiology

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course serves as a platform for integrating the advances in biochemistry, cell biology, and molecular biology toward in-depth understanding of the fundamental mechanisms that are critical to plant resilience and productivity under sub-optimal environments. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Other Enrollment Recommendations
BIOL4400 PLANT PHYSIOLOGY (QI) is recommended, or similar plant physiology course

Course Learning Objectives

Course Learning Outcomes

1. The overall objective of this course is to introduce students to the physiological and molecular responses of plants to biotic (e.g., pathogens) and abiotic stresses (e.g., drought, salinity).
2. Gaining a basic understanding of the subject.
3. Developing specific skills, competencies, and perspectives necessary for professionals in the field of plant stress physiology.
4. Learning how to find, evaluate, and use resources to explore a topic in depth.

5. Developing skills in expressing oneself orally and in writing.

PSC5310 - Soil Microbiology - 3 - Credits

Course Overview

Course Prefix
PSC

Course Number
5310

Department
Plants, Soils and Climate

Dual-Listed Courses
PSC6310 - Soil Microbiology

Course Title
Soil Microbiology

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Discusses ecology and diversity of microorganisms in soils. Emphasis on factors controlling microbial activity and the role of microorganisms in organic matter decomposition and nutrient cycling. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- BIOL1610 - Biology I
- CHEM1120 - General Chemistry II (BPS)
  OR CHEM1210 - Principles of Chemistry I
- PSC3000 - Fundamentals of Soil Science

Course Learning Objectives

Course Learning Outcomes

1. After the completion of this course students will know the major types of organisms found in soils and be familiar with their classification based on physiological and taxonomic criteria.
2. They will after the completion of this course students will know the major types of organisms found in soils and be familiar with their classification based on physiological and taxonomic criteria.
3. They will understand the basis for physiological and molecular methods used to examine the microbial diversity of soil environments.
4. They will be familiar with the role of pH, water availability and redox status for the control microbial activity in the soil environment.
5. They will be able to describe plant-microbe interactions especially rhizosphere, mycorrhizae and nitrogen fixation and understand the role of microbes in the transformations of soil carbon, nitrogen, sulfur and phosphorus.
6. The students will be able to find, understand and interpret primary source materials on a variety of topics related to microbial communities and soil processes.

PSC5333 - Plant-Microbe Interactions - 3 - Credits

Course Overview

Course Prefix
PSC

Course Number
5333

Department
Plants, Soils and Climate

Dual-Listed Courses
PSC6333 - Plant-Microbe Interactions

Course Title
Plant-Microbe Interactions

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Course introduces beneficial (Plant Growth-Promoting Microorganisms) and pathogenic (Plant Innate Immunity) plant-microbe interactions, as well as their effects on plant growth and development. Course also covers adaptations of plant-pathogenic interactions to develop tools and hands-on lab components. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- BIOL1610 - Biology I

Course Learning Objectives

Course Learning Outcomes

- Describe the major types of plant-microbe interactions (beneficial and pathogenic).
- Analyze the molecular signaling pathways involved in plant-microbe interaction (e.g., plant Innate immunity (PTI, ETI), nodulation, mycorrhizae).
- Explain the role of the rhizosphere in microbial colonization and plant health, and evaluate the mechanisms by which PGPR enhance nutrient uptake and stress tolerance.
- Isolation of plant growth-promoting bacteria from the rhizosphere
- Apply bioinformatics tools to analyze plant-associated microbial communities.
- Adaptations of plant-pathogenic interactions to develop scientific tools
- Discuss the role of microbiomes in sustainable agriculture and climate resilience.
- Communicate scientific findings through written reports and presentations.

PSC5350 - Wildland Soils - 3 - Credits

Course Overview

Course Prefix
PSC

Course Number
5350

Department
Plants, Soils and Climate

Cross-Listed Courses
WILD5350 - Wildland Soils

Dual-Listed Courses
PSC6350 - Wildland Soils

Course Title
Wildland Soils

Grade Mode
Standard Letter

Repeat Status
NR

Course Description

Application of basic principles of soil science to wildland ecosystems. Effects of disturbance and land use on wildland soil properties. Role of soils in natural resource management.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- CHEM1110 - General Chemistry I (BPS)
- PSC3000 - Fundamentals of Soil Science

and one additional upper-division Soils course

Course Learning Objectives

Course Learning Outcomes

1. To gain a working understanding of plant-soil interactions and working with soils data. By the end of the course you will be able to visit a new site and know what measurements will be needed to understand how water and nutrients move through the soil, how this effects plant growth, and how different management approaches are likely to affect the soils and plants of that system.
2. This course will give you the tools to answer such questions as how much will fertilizer increase plant growth / how will anthropogenic nitrogen deposition affect plant growth and composition? Are there drainage problems at my site? Are my plants water stressed? Is my site fixing carbon? Are soil organisms increasing or decreasing diversity or productivity at my site? How will climate change affect water and nutrient cycling at my site?

PSC5410 - Hydroclimate - 3 - Credits

Course Overview

Course Prefix
PSC

Course Number
5410

Department
Plants, Soils and Climate

Dual-Listed Courses
PSC6410 - Hydroclimate

Course Title
Hydroclimate

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces important processes and phenomena related to hydroclimatology from local to global scales. Students are introduced to foundations related to high-impact precipitation processes, atmosphere-land interactions, and floods/droughts. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Course Learning Objectives

Course Learning Outcomes

1. Understanding the important processes and phenomena related to hydroclimate (i.e., precipitation) from local through global scales.
2. Gaining knowledge of hydroclimatic data and tools.
3. Understanding information on hydroclimate variability and extremes (e.g., floods/droughts)

PSC5420 - Landscape Irrigation Design (QI) - 2 - Credits

Course Overview

Course Prefix
PSC

Course Number
5420

Department
Plants, Soils and Climate

Dual-Listed Courses
PSC6420 - Landscape Irrigation Design

Course Title
Landscape Irrigation Design (QI)

General Education Attribute
QI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Introduction to design of sprinkler and drip irrigation systems for residential and commercial landscapes. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours Min:
2

Contact Hours

Contact Hours Min:
2

Billing Hours

Billing Hours Min:
2

Lecture Hours

Lecture Hours Min:
2

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- PSC2620 - Woody Plant Materials: Trees and Shrubs for the Landscape

Course Learning Objectives

Course Learning Outcomes

1. Learn the concepts of irrigation design and their real-world applications.
2. Learn to properly size irrigation components based on the amount of irrigation water in motion.
3. Understand how specific irrigation components are placed in an irrigation system and their purpose.
4. Learn the difference between the types of sprinkler heads and their real-world applications.

PSC5430 - Plant Nutrition - 2 - Credits

Course Overview

Course Prefix
PSC

Course Number
5430

Department
Plants, Soils and Climate

Dual-Listed Courses
PSC6430 - Plant Nutrition

Course Title
Plant Nutrition

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Mechanisms of nutrient acquisition, rhizosphere interactions, root morphology and distribution, short- and long-distance transport, nitrogen fixation, and biochemical function of essential and beneficial elements.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- PSC3500 - Structure and Function of Plants
  OR BIOL4400 - Plant Physiology (QI)

Course Learning Objectives

Course Learning Outcomes

1. Understand the selective uptake of nutrient ions across the plasma membrane
2. Understand how root anatomy facilitates selective uptake of ions
3. Understand the chemistry and biology of the rhizosphere and its role in increasing the bioavailability of nutrient ions
4. Understand the function of nutrients in plant metabolic processes
5. Understand the role of the tonoplast in regulating ion concentration in the cytoplasm.

PSC5500 - Environmental Physics of Land Ecosystems & Climate - 3 - Credits

Course Overview

Course Prefix
PSC

Course Number
5500

Department
Plants, Soils and Climate

Dual-Listed Courses
PSC6500 - Environmental Physics of Land Ecosystems & Climate

Course Title
Environmental Physics of Land Ecosystems & Climate

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
How terrestrial ecosystems and climate affect each other at various scales, from microclimates, to regional and finally global climate. Quantitative exploration of the biophysical processes that connect the land and climate.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Course Learning Objectives

Course Learning Outcomes

1. Comprehend both qualitatively and quantitatively the key soil, plant and atmospheric processes that determine exchanges of heat, water and CO2 between vegetation surfaces and the air.
2. Approaches to measure and model interactions in soil-plant-atmosphere, especially evapotranspiration. Exposure to key instruments and measurements
3. Understanding microclimates at various scales and locations, and their causes.

PSC5530 - Soil Health and Fertility (QI) - 3 - Credits

Course Overview

Course Prefix
PSC

Course Number
5530

Department
Plants, Soils and Climate

Dual-Listed Courses
PSC6530 -
Soil Health and Fertility

Course Title
Soil Health and Fertility (QI)

General Education Attribute
QI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Description of forms, transformations, and movement of plant nutrients in soils. Discussion of factors affecting nutrient supply, both qualitatively and quantitatively, for nutrient elements essential for plant growth.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- PSC3000 - Fundamentals of Soil Science
- CHEM1110 - General Chemistry I (BPS)
  OR CHEM1210 - Principles of Chemistry I

Course Learning Objectives

Course Learning Outcomes

1. Students will gain understanding of the concepts of soil health and fertility and of how to manage soils to maintain and improve soil quality, health and fertility.
2. Students will learn the nutrient elements required for plant growth and be familiar with the visual symptoms and diagnostic methods to identify nutrient deficiencies.
3. Students will understand the mechanisms by which essential nutrients are supplied to plants from the soil: mass flow, diffusion and root interception and how these interact with water availability.
4. Students will be able to describe the major physical and chemical forms of the essential nutrient elements in soils and the factors affecting their availability to plant roots.
5. Students will be able to solve quantitative problems concerning the use of chemical fertilizers and organic materials to improve nutrient supply to plants and use these in case study problems.
6. Students will use technical writing skills to find, understand and interpret primary source materials on a variety of topics related to soils as the medium for plant growth and soil health.

PSC5550 - Fundamentals of Integrated Weed Management - 4 - Credits

Course Overview

Course Prefix
PSC

Course Number
5550

Department
Plants, Soils and Climate

Dual-Listed Courses
PSC6550 - Fundamentals of Integrated Weed Management

Course Title
Fundamentals of Integrated Weed Management

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students will gain a deeper understanding about weeds, not just how to identify and kill them, but why and where they occur. Course also explores what that means for long-term, sustainable weed management.

Credit Hours

Credit Hours
Min:
4

Contact Hours

Contact Hours
Min:
4

Billing Hours

Billing Hours
Min:
4

Lecture Hours

Lecture Hours
Min:
4

Course Learning Objectives

Course Learning Outcomes
By the end of this course, students will be able to:
1. Identify common weed species to the plant family level using live specimens, field observations, and digital identification tools.
2. Evaluate the ecological and economic impacts of weeds across agricultural, natural, and managed systems using evidence-based reasoning.
3. Design and justify an integrated weed management (IWM) plan that incorporates cultural, mechanical, biological, and chemical control strategies for a specific system.

PSC5560 - Analytical Techniques for the Soil Environment - 3 - Credits

Course Overview

Course Prefix
PSC

Course Number
5560

Department
Plants, Soils and Climate

Dual-Listed Courses
PSC6560 - Analytical Techniques for the Soil Environment

Course Title
Analytical Techniques for the Soil Environment

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Analysis of chemical and biological soil characteristics. Results interpreted for soil fertility, land use, and environmental remediation. Graduate credit requires a paper reviewing analysis of element or compound class.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Fulfill ANY of the following requirements:

Option 1

Complete ALL of the following Courses:

- PSC5050 - Principles of Environmental Soil Chemistry
  OR PSC6050 - Principles of Environmental Soil Chemistry

OR

Option 2

Complete ALL of the following Courses:

- PSC5530 - Soil Health and Fertility (QI)
  OR PSC6530 - Soil Health and Fertility

may be taken concurrently

Course Learning Objectives

Course Learning Outcomes

1. Students will gain an understanding of the analysis of soils for the essential plant nutrients and for soil health characterization.
2. The students will learn the importance of experimental variability and reproducibility, the use of standard curves for the calculation of analyte concentrations and the principles of atomic adsorption analysis. Computer spread-sheets will be used for data calculations and graphing of experimental results. Writing skills for technical reports based on experimental data will be improved.

PSC5670 - Environmental Soil Physics - 4 - Credits

Course Overview

Course Prefix
PSC

Course Number
5670

Department
Plants, Soils and Climate

Dual-Listed Courses
PSC6670 - Environmental Soil Physics

Course Title
Environmental Soil Physics

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Characterization of the physical properties of soils and other porous media. Measurement, prediction, and control of processes taking place in and through soils (e.g., water flow and solute transport), including atmospheric and groundwater interactions.

Credit Hours

Credit Hours Min:
4

Contact Hours

Contact Hours Min:
4

Billing Hours

Billing Hours Min:
4

Lecture Hours

Lecture Hours Min:
4

Course Learning Objectives

Course Learning Outcomes

1. Understand and Apply Soil Physics Principles: Articulate the fundamental concepts of soil physical properties and processes and analyze their influence on agricultural, ecological, hydrological and climatological practices.
2. Gain Practical Measurement Skills: Demonstrate proficiency in the measurement and analysis of soil physical properties and processes through hands-on laboratory and field experiences, utilizing modern techniques and tools.
3. Employ Analytical Methods to Address Real-World Challenges: Utilize various analytical methods and technologies to evaluate and propose solutions for practical problems in agricultural practices, hydrological management, and environmental sustainability.

PSC5680 - Paleoclimatology - 3 - Credits

Course Overview

Course Prefix
PSC

Course Number
5680

Department
Plants, Soils and Climate

Cross-Listed Courses
GEO5680 - Paleoclimatology, WATS5680 - Paleoclimatology

Dual-Listed Courses
PSC6680 - Paleoclimatology

Course Title
Paleoclimatology

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Covers climate through the past four billion years of geologic time. Explores driving forces behind climate changes. Examines data and methods used in paleoclimate research. Includes discussion of literature and stresses local paleoclimate records. Three lectures per week, along with field trips.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- GEO3600 - Geomorphology
  OR WATS3600 - Geomorphology

PSC5710 - Irrigated Soils - 3 - Credits

Course Overview

Course Prefix
PSC

Course Number
5710

Department
Plants, Soils and Climate

Dual-Listed Courses
PSC6710 - Irrigated Soils

Course Title
Irrigated Soils

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers soil salinity, soil-moisture-plant relationships, water supply and quality, irrigation water measurements, soil moisture movement, and irrigation methods. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- PSC3000 - Fundamentals of Soil Science

Course Learning Objectives

Course Learning Outcomes
1. Analyze the processes that influence soil–water–plant relationships and salinity/sodicity under varying environmental and management conditions.
2. Evaluate and interpret irrigation source and application systems to assess suitability for agricultural and environmental applications.
3. Quantify soil moisture movement, irrigation water distribution, and crop water requirements using field measurements and modeling techniques.
4. Design and critique irrigation management strategies that optimize water use efficiency, profitability, and support sustainable crop production.

PSC5720 - Advanced Plant Breeding - 3 - Credits

Course Overview

Course Prefix
PSC

Course Number
5720

Department
Plants, Soils and Climate

Dual-Listed Courses
PSC6720 - Advanced Plant Breeding

Course Title
Advanced Plant Breeding

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides background on Mendelian plant genetics including gene mapping, linkage, qualitative, quantitative, and population genetics. Topics include selection schemes for allogamous and autogamous plants, maximizing genetic gain, and marker assisted selection. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- PSC3600 - An Introduction to Plant Breeding and Heredity

Course Learning Objectives

Course Learning Outcomes
1. Understand concepts and methods used to develop and release improved cultivars.
2. Determine breeding methods appropriate for different species and design strategies to improve breeding populations.
3. Gaining hands-on experience in estimating population genetic parameters to interpret germplasm and support breeding decisions.

PSC5740 - Environmental Quality: Soil and Water (CI) - 2 - Credits

Course Overview

Course Prefix
PSC

Course Number
5740

Department
Plants, Soils and Climate

Course Title
Environmental Quality: Soil and Water (CI)

General Education Attribute
CI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students design their own undergraduate research or internship experience. Students address soil and water problem(s), formulate remediation or mitigation plans, and present findings. Preparation for the professional soil scientist exam or participation on the soil judging team are possibilities.

Credit Hours

Credit Hours Min:
2

Contact Hours

Contact Hours Min:
2

Billing Hours

Billing Hours Min:
2

Lecture Hours

Lecture Hours Min:
2

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- PSC3000 - Fundamentals of Soil Science

and one additional 5000-level course dealing with Soil topics

Course Learning Objectives

Course Learning Outcomes

1. Students design their own undergraduate research or internship experience.
2. Students address soil and water problem(s), formulate remediation or mitigation plans, and present findings. Preparation for the professional soil scientist exam or participation on the soil judging team are possibilities

PSC5760 - Climate and Climate Change (DSC)(QI) - 3 - Credits

Course Overview

Course Prefix
PSC

Course Number
5760

Department
Plants, Soils and Climate

Dual-Listed Courses
PSC6760 - Climate and Climate Change

Course Title
Climate and Climate Change (DSC)(QI)

General Education Attribute
DSC, QI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course emphasizes physical basis of climate (climate dynamics), as well as the mechanisms and processes for its fluctuations on sub-seasonal to interannual time scales (climate variations) and on regional to hemispheric/global time scales.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Course Learning Objectives

Course Learning Outcomes

1. Describe how Earth's climate system operates - Explain the roles of the atmosphere, oceans, land, and biosphere in regulating global and regional climate patterns.
2. Analyze and interpret climate data - Utilize real-world datasets to detect anomalies, identify trends, and assess scientific evidence of climate variability and change.
3. Evaluate the causes and impacts of climate change - Distinguish between natural and human drivers of climate change and assess their effects on ecosystems and societies worldwide.
4. Apply and communicate climate science for solutions - Propose evidence-based adaptation or mitigation strategies and communicate your findings effectively through written or visual projects.

PSC5777 - Philosophy and History Leading to Science - 2 - Credits

Course Overview

Course Prefix
PSC

Course Number
5777

Department
Plants, Soils and Climate

Dual-Listed Courses
PSC6777 - Philosophy and History Leading to Science

Course Title
Philosophy and History Leading to Science

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students learn how historical events and the evolution of western philosophy led to the scientific revolution and modern science. This is contrasted with a different approach to knowledge, that of Eastern mysticism. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Registration Restrictions
Junior or Senior standing

Course Learning Objectives

Course Learning Outcomes

1. Document the major ways how western philosophy, culture and science evolved together over ~ 2,500 years and were altered by historical events.
2. Comprehend the basic tenants modern Popperian science, as well as how and why it supposed to conducted. Limits of questions science can address.
3. Gentle acquaintance with the contrast of mysticism. Examples where modern science and mystical philosophy intersected.

PSC5830 - Atmospheric Instrumentation and Operation - 3 - Credits

Course Overview

Course Prefix
PSC

Course Number
5830

Department
Plants, Soils and Climate

Dual-Listed Courses

PSC6830 - Atmospheric Instrumentation and Operation

Course Title

Atmospheric Instrumentation and Operation

Grade Mode
Standard Letter

Repeat Status
NR

Course Description

The course introduces atmospheric instruments based on the World Meteorological Organization meteorologist operational guidebook. Course topics include selection, installation, principles of operation, calibration of instruments, and maintenance of instruments plus data acquisition. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- MATH1210 - Calculus I (QL)
- PSC2000 - The Atmosphere and Weather (BPS)

Course Learning Objectives

Course Learning Outcomes

1. Understand the basic physics and principles of sensors used to make common measurements of atmospheric properties.\
2. Meaning and quantification of accuracy, resolution and uncertainty.
3. Integration of power, data loggers and instruments for modern weather stations.

PSC5840 - Atmospheric Dynamics - 3 - Credits

Course Overview

Course Prefix
PSC

Course Number
5840

Department
Plants, Soils and Climate

Dual-Listed Courses
PSC6840 - Atmospheric Dynamics

Course Title
Atmospheric Dynamics

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers the physical and mathematical principles essential for understanding climate dynamics and synoptic meteorology. Students learn the fundamental equations of motion, energy balance, vorticity, and circulation, along with their applications to atmospheric and oceanic processes. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- MATH2210 - Multivariable Calculus (QI)
- PHYS2210 - Physics for Scientists and Engineers I (QI/BPS)
- PSC2000 - The Atmosphere and Weather (BPS)

Course Learning Objectives

Course Learning Outcomes

1. Review the critical role that mathematics plays in interpreting atmospheric/climate dynamics.
2. Solve mathematical challenges pertinent to the field of atmospheric/climate dynamics.
3. Translate complex concepts of atmospheric/climate dynamics into clear mathematical problems.
4. Apply mathematical techniques to gain a deeper understanding of atmospheric/climate dynamics

PSC5850 - Physical Climatology - 3 - Credits

Course Overview

Course Prefix
PSC

Course Number
5850

Department
Plants, Soils and Climate

Dual-Listed Courses
PSC6850 - Physical Climatology

Course Title
Physical Climatology

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Course offers in-depth description of atmospheric circulation and how environmental phenomena interact in a single, unified system. This integrated approach unites all the key features of the climate system to explain the structure and behavior of climate over time. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- MATH2210 - Multivariable Calculus (QI)
- PHYS2210 - Physics for Scientists and Engineers I (QI/BPS)
- PSC2000 - The Atmosphere and Weather (BPS)

Course Learning Objectives

Course Learning Outcomes
1. Gaining physical understanding of the Earth's climate system.
2. Learning a physical overview of Earth's climate system and energy budget, large-scale circulation, key physical processes, and climate sensitivity of the atmosphere, ocean, land surface, and cryosphere and how the climate system responds to various forcing factors.
3. Learning to apply physical laws to understand how the global climate system functions.

PSC5860 - Atmospheric Thermodynamics - 3 - Credits

Course Overview

Course Prefix
PSC

Course Number
5860

Department
Plants, Soils and Climate

Dual-Listed Courses
PSC6860 - Atmospheric Thermodynamics

Course Title
Atmospheric Thermodynamics

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers thermodynamic principles and their applications to atmospheric science. Students learn the laws of thermodynamics, intensive and extensive properties, heat capacity, atmospheric lapse rates and stability, hydrostatic and hypsometric equations, and energy exchange in climate systems. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- MATH2210 - Multivariable Calculus (QI)
- PHYS2210 - Physics for Scientists and Engineers I (QI/BPS)
- MATH2250 - Linear Algebra and Differential Equations (QI)

Course Learning Objectives

Course Learning Outcomes

1. Define key terms used in atmospheric thermodynamics.
2. Explain the basic thermodynamic principles that govern the atmosphere.
3. Apply these principles to describe temperature, moisture, and stability in the atmosphere.
4. Analyze simple atmospheric profiles and thermodynamic diagrams.

PSC5875 - Synoptic Meteorology - 4 - Credits

Course Overview

Course Prefix
PSC

Course Number
5875

Department
Plants, Soils and Climate

Dual-Listed Courses
PSC6875 - Synoptic Meteorology

Course Title
Synoptic Meteorology

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
In this course, students apply the theory behind dynamic meteorology concepts governing the large-scale motions of the mid-latitude atmosphere. Theoretical concepts are paired with real-world weather map analysis lessons to introduce forecasting and interpretation techniques while reinforcing numerical concepts. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
4

Contact Hours

Contact Hours
Min:
4

Billing Hours

Billing Hours
Min:
4

Lecture Hours

Lecture Hours
Min:
4

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- PSC5840 - Atmospheric Dynamics

Course Learning Objectives

Course Learning Outcomes

1. Learn to apply climate dynamics practically for weather map analysis and sensible weather experienced on the ground
2. Explore fluid dynamic relationships on the life cycle on mid-latitude cyclones and anticyclones
3. Apply diagnostic, prognostic, and technical tools to evaluate atmospheric processes across a multitude of scales
4. Effectively communicate scientific information orally and in writing at a level appropriate for the target audience

PSC5880 - Earth System Science - 3 - Credits

Course Overview

Course Prefix
PSC

Course Number
5880

Department
Plants, Soils and Climate

Dual-Listed Courses
PSC6880 - Earth System Science

Course Title
Earth System Science

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
In this course, students study the complicated systems in Earth system science with an emphasis on physical perspective and climate dynamics. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- MATH1210 - Calculus I (QL)
- MATH1220 - Calculus II (QL)

Course Learning Objectives

Course Learning Outcomes

1. Describe the basic concepts that form the foundation of Earth system science.
2. Classify major Earth system components and the processes that shape them.
3. Explain key physical mechanisms within each component of the Earth system.
4. Identify how different components interact and influence one another.
5. Outline the basic structure and purpose of global climate models.

PSC5999 - Precision Agriculture Practicum - 3 - Credits

Course Overview

Course Prefix
PSC

Course Number
5999

Department
Plants, Soils and Climate

Cross-Listed Courses
ASTE5999 - Precision Agriculture Practicum, CEE5999 - Precision Agriculture Practicum

Course Title
Precision Agriculture Practicum

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students set up, collect, and analyze multiple types of real-time sensor data on their "farm." As a final project, students utilize the data they have collected and create a prescription map for the next cropping cycle.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Registration Restrictions
Junior or senior standing

Other Enrollment Recommendations
It is recommended that students complete an introductory statistics course (such as STAT 1080 or similar).

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- MATH1050 - College Algebra (QL)

Course Learning Objectives

Course Learning Outcomes
1. To establish the importance of the various state of the art monitoring devices used in modern farming operations and the programming steps required.
2. To develop an understanding in the efficient adjustment and set up of the different monitoring and yield mapping methods used on modern farming operations.
3. To gain hands-on experience in parsing and understanding of agronomic data from in-field sensing techniques.
4. To train the student in the methods of proper troubleshooting and the most productive way in developing efficient machine operation.
5. To determine and communicate effective management decisions based on sensor data.

PSC6000 - Environmental Instrumentation - 2 - Credits

Course Overview

Course Prefix
PSC

Course Number
6000

Department
Plants, Soils and Climate

Dual-Listed Courses
PSC5000 - Environmental Instrumentation

Course Title
Environmental Instrumentation

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Discusses physics of signal transduction underlying all sensors. Basic electronics necessary to link sensors with dataloggers. Programming dataloggers to maximize measurement accuracy and to summarize data.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Understand the physics of signal trransduction; understand the programing od data acquisition systems; understand basic electronics to interface sensors with data acquisition systems.

PSC6003 - Remote Sensing of Land Surfaces - 3 - Credits

Course Overview

Course Prefix
PSC

Course Number
6003

Department
Plants, Soils and Climate

Cross-Listed Courses
CEE6003 - Remote Sensing of Land Surfaces

Dual-Listed Courses
PSC5003 - Remote Sensing of Land Surfaces

Course Title
Remote Sensing of Land Surfaces

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Introduction to principles of radiation, reflectance, infrared thermal, and other remote sensing measurements for vegetation, soil, water, and urban landscapes. Topics include vegetation index applications, water balance components, satellites and drone technologies, cloud-based data repositories, computational environments for remote sensing. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Student must have graduate standing.

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- CEE2450 - Computer Programming and Numerical Methods for

Civil and Environmental Engineers

Course Learning Objectives

Course Learning Outcomes

This course introduces fundamental and advances concepts on the science and analysis of remote sensing for different landscapes:

1. Fundamentals of light and its interaction with earth surface.
2. remote sensing data collection
3. remote sensing analysis for vegetation, soils, urban and water.
4. key examples of remote sensing applications

PSC6050 - Principles of Environmental Soil Chemistry - 3 - Credits

Course Overview

Course Prefix
PSC

Course Number
6050

Department
Plants, Soils and Climate

Dual-Listed Courses

PSC5050 - Principles of Environmental Soil Chemistry

Course Title

Principles of Environmental Soil Chemistry

Grade Mode
Standard Letter

Repeat Status
NR

Course Description

Introduction to common chemical processes occurring among solid, liquid, and gas phases in soil systems. Emphasis placed on chemistry of arid land soils.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- CHEM1110 - General Chemistry I (BPS)
- MATH1050 - College Algebra (QL)

or higher CHEM course

or higher MATH course, or AP Calculus AB score of 3 or higher

Course Learning Objectives

Course Learning Outcomes

1. learn the properties of soil gases, solutions and solids including how primary and secondary silicate clay minerals form and weather, and how soil organic matter is characterized in soils
2. apply basic chemical bonding principles to predict mineral weathering and chemical reactions
3. use thermodynamic principles to predict what reactions occur in soils and why
4. apply basic principles to predict and manage how substances partition between soil gas, liquid and solid phases

PSC6070 - Agroecology - 3 - Credits

Course Overview

Course Prefix
PSC

Course Number
6070

Department
Plants, Soils and Climate

Dual-Listed Courses

PSC5070 - Agroecology

Course Title

Agroecology

Grade Mode
Standard Letter

Repeat Status
NR

Course Description

This is a critical evaluation of agroecology and its role in the management of agroecosystems. Ecology concepts are introduced from an agricultural perspective with research examples discussed. Adoption challenges and the role of community in sustainable food systems are explored. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- PSC3800 - Fundamentals of Organic Agriculture
- PSC3000 - Fundamentals of Soil Science
- PSC3500 - Structure and Function of Plants

Course Learning Objectives

Course Learning Outcomes

1. Students will have developed skills in the critical evaluation of agroecology and its role in the management of agroecosystems, leaned key concepts in ecology as applied to agricultural systems and gained an understanding of the literature and appreciation for the opportunities and challenges to adoption in sustainable food systems.

PSC6080 - Applied Statistics in Agricultural Research - 3 - Credits

Course Overview

Course Prefix
PSC

Course Number
6080

Department
Plants, Soils and Climate

Dual-Listed Courses
PSC5080 - Applied Statistics in Agricultural Research

Course Title
Applied Statistics in Agricultural Research

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course helps students understand research data through introducing basic principles of experimental design and data analysis. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Course Learning Objectives

Course Learning Outcomes

1. To understand your own research data with basic principles of experimental design and data analysis.
2. To process research data using SAS/Studio for data cleaning and analysis.
3. To understand and be able to interpret statistical analysis results of your own data and report results in scientific writing.

PSC6090 - Sustainable Low Water Landscaping - 3 - Credits

Course Overview

Course Prefix
PSC

Course Number
6090

Department
Plants, Soils and Climate

Cross-Listed Courses
LAEP6090 - Sustainable Low Water Landscaping

Dual-Listed Courses
PSC5090 - Sustainable Low Water Landscaping

Course Title
Sustainable Low Water Landscaping

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course focuses on environmental analysis of climate, water, and soils of a prospective landscape site. This informs the design process on selection of adapted plants and plant layout that will minimize irrigation water use and maintenance. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Course Learning Objectives

Course Learning Outcomes

1. Explain the principles of sustainable, low-water landscaping and their importance in arid and semi-arid environments.
2. Analyze soil, climate, and ecological factors to inform plant selection, irrigation strategies, and overall site design.
3. Identify and select appropriate native and adapted plant species for low-water landscapes using hydrozoning principles.
4. Design functional, visually appealing landscapes that balance ecological health, aesthetic value, and water efficiency.
5. Estimate irrigation needs and apply efficient irrigation methods based on plant water demand and environmental conditions.
6. Implement appropriate landscape maintenance and material use to sustain long-term landscape health and water efficiency.
7. Recognize the role of green infrastructure—including rainwater harvesting and permeable systems—in sustainable landscape design.

PSC6100 - Professional Turf and Urban Landscape Water Management - 3 - Credits

Course Overview

Course Prefix
PSC

Course Number
6100

Department
Plants, Soils and Climate

Dual-Listed Courses
PSC5100 - Professional Turf and Urban Landscape Water Management

Course Title
Professional Turf and Urban Landscape Water Management

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students study intensively used turfgrass areas as well as irrigation management and applied water relations of urban landscapes in the arid west. This course also involves the complex interactions with people who use and expect much of these environments. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- PSC3810 - Turfgrass Management

Course Learning Objectives

Course Learning Outcomes
1 Understand and plan site development and management unique to intensively used turfgrass areas.
2 Develop detailed plans for water conservation in urban landscapes—including environmental, economic, and social needs of the users.
3 Gain knowledge on the needs of native plants, and use that knowledge to plan landscapes in complex urban environments.

PSC6123 - Climate Data Analysis - 3 - Credits

Course Overview

Course Prefix
PSC

Course Number
6123

Department
Plants, Soils and Climate

Dual-Listed Courses
PSC5123 - Climate Data Analysis

Course Title
Climate Data Analysis

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
In this course, students access and explore different climate data collections and gain knowledge about the earth's climate/weather system. Students gain skills analyzing and interpreting climate data. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

PSC6125 - Climate Modeling and Simulation - 3 - Credits

Course Overview

Course Prefix
PSC

Course Number
6125

Department
Plants, Soils and Climate

Course Title
Climate Modeling and Simulation

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course emphasizes numerical approaches in science and basic knowledge of climate modeling, numerical simulation, data assimilation, and climate prediction.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Integrate scientific knowledge, mathematics, and computing to study the climate system.
2. Use numerical methods to investigate physical processes in climate science.
3. Explain the principles and applications of climate modeling and simulation.
4. Describe the basic concepts of data assimilation and dynamical prediction.
5. Develop scientific communication skills through presentations, written reports, and peer review.

PSC6130 - Soil Genesis, Morphology, and Classification - 4 - Credits

Course Overview

Course Prefix
PSC

Course Number
6130

Department
Plants, Soils and Climate

Dual-Listed Courses
PSC5130 - Soil Genesis, Morphology, and Classification

Course Title
Soil Genesis, Morphology, and Classification

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Morphology, development, and classification of soils. Lectures and weekly field exercises emphasize soil as a natural body of the landscape: its properties, distribution, behavior, and interpretations for diverse land uses.

Credit Hours

Credit Hours
Min:
4

Contact Hours

Contact Hours
Min:
4

Billing Hours

Billing Hours
Min:
4

Lecture Hours

Lecture Hours
Min:
4

Other Enrollment Recommendations

Understand the fundamentals of soil science; PSC3000 FUND OF SOIL SCIENCE recommended

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Describe soil morphology and landscape features, and name horizons according to National Cooperative Soil Survey standards.
2. Identify the environmental factors (climate, organisms, parent material, relief, time) that influence soil development in a landscape context.
3. Apply concepts of physical, chemical, and biological processes to explain soil formation and behavior.
4. Interpret key soil properties that influence vegetation communities, suitability

for land use, ecosystem services, etc.
5. Classify soils using Soil Taxonomy and infer soil properties from the taxonomic name.
6. Access and use soil survey information available on the web, understanding its potential and limitation.

PSC6140 - Unsaturated Flow and Transport - 3 - Credits

Course Overview

Course Prefix
PSC

Course Number
6140

Department
Plants, Soils and Climate

Course Title
Unsaturated Flow and Transport

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Simulation and measurement of transport processes (e.g., water, solutes, CO2, heat) in partially-saturated soils. Includes influence of chemical reactions, plant root, and microbial respiration on CO2 soil fluxes, and plant root distribution and uptake on transpiration processes. Applies to problems related to agricultural, environmental, ecological, and hydrological applications.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Analyze Soil Transport Processes: Investigate and explain the dynamics of soil transport processes (e.g., water, solutes, gases, heat, etc.) in partially saturated soils leading to implications for soil health and functionality.
2. Employ Hydrus 1D Software to Simulate Soil Dynamics: Numerically model the effects of chemical reactions, plant root extractions, or microbial responses to assess how variations, for example, in plant root distribution or water stress influence soil processes such as evapotranspiration.
3. Apply Simulations to Address Real-World Challenges: Integrate theoretical concepts with numerical modeling to formulate solutions for complex issues in agricultural practice, environmental sustainability, ecological conservation, and hydrological management with an aim of supporting graduate research objectives.

PSC6150 - Bioinformatics and Big Data Mining - 3 - Credits

Course Overview

Course Prefix
PSC

Course Number
6150

Department
Plants, Soils and Climate

Dual-Listed Courses
PSC5150 - Bioinformatics and Big Data Mining

Course Title
Bioinformatics and Big Data Mining

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers an introduction to the discipline of bioinformatics and computational biology. It also covers techniques for biological big data mining. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Course Learning Objectives

Course Learning Outcomes
1. Describe the foundations of bioinformatics & computational biology, and explain their roles in agriculture, big data science, precision biology, and functional genomics. Explain the structure, function, and use of major biological databases.
2. Understand the principles of diverse OMICS data types (RNA-seq, single cell RNA-seq, SNP-seq, ChIP-seq, GBS-seq, Methyl-seq, miRNA-seq, Metagenomics, Genome assembly, etc.), and sequence analysis in systems biology.
3. Data Science & Big Data Competencies: To gain hands-on experience in Linux OS and High-Performance Computing in parsing and workflow automation for biological data processing. Briefly explain the applications of Machine Learning in modern biology.
4. Analyze big OMICS datasets: Pick one topic from diverse OMICS data types (RNA-Seq); and train the students in developing a reproducible computational workflow. Quality control, read mapping, quantification, differential expression, annotation.
5. Interpret and Communicate biological insights: Draw biologically meaningful conclusions from complex multidimensional datasets, e.g. explain how to interpret differential expression, clustering, annotation, enrichment, and pathway analyses. Applications in agriculture, health, and biological sciences.

PSC6201 - Hydroponics - 3 - Credits

Course Overview

Course Prefix
PSC

Course Number
6201

Department
Plants, Soils and Climate

Dual-Listed Courses
PSC5201 - Hydroponics

Course Title
Hydroponics

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course explores the principles and practices of design, maintenance, and applications of hydroponic growth systems. Additional topics include fertilizer solution chemistry, environmental setpoint optimization, and root-zone stability. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Other Enrollment Recommendations
Students should have a good understanding of high school level biology and chemistry in addition to meeting the prerequisites. Students without a basic understanding of general chemistry can still enroll in the course, but they may experience a higher learning curve than their peers with more of a chemistry background.

Simple Requisites

Prerequisite

Type
Completion Requirement

Required

Complete ANY of the following Courses:
- BIOL1010 - Biology and the Citizen (BLS)

OR BIOL1610 - Biology I

Course Learning Objectives

Course Learning Outcomes
1. To understand the optimal nutrient compositions and concentrations in hydroponic fertilizer solutions.
2. To use knowledge of optimal environmental setpoints to maximize yield and manage plant stresses.
3. To choose the proper hydroponic system and management practice based on location and growing situation.

PSC6222 - Temperate Zone Fruit Production - 3 - Credits

Course Overview

Course Prefix
PSC

Course Number
6222

Department
Plants, Soils and Climate

Course Title
Temperate Zone Fruit Production

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Explores principles and practices underlying scientific fruit production. Focuses on physiological principles undergirding production practices. Topics include: plant growth and development, fruit anatomy, site selection, fertilizers, harvest, post-harvest physiology, and storage. Includes discussion of the production of important temperate fruit crops. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

PSC6270 - Environmental Plant Physiology - 2 - Credits

Course Overview

Course Prefix
PSC

Course Number
6270

Department
Plants, Soils and Climate

Dual-Listed Courses
PSC5270 - Environmental Plant Physiology

Course Title
Environmental Plant Physiology

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
The relationship between physiological processes and growth of whole plants. Energy balance and water use efficiency. Light interception and canopy geometry. Canopy photosynthesis and respiration. Carbon partitioning and source/sink relationships.

Credit Hours

Credit Hours Min:
2

Contact Hours

Contact Hours Min:
2

Billing Hours

Billing Hours Min:
2

Lecture Hours

Lecture Hours Min:
2

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- BIOL4400 - Plant Physiology (QI)
  OR PSC3500 - Structure and Function of Plants

Course Learning Objectives

Course Learning Outcomes

1. Understand the physics of energy and mass transfer in the soil, plant atmosphere continuum.

PSC6280 - Plant Stress Physiology - 3 - Credits

Course Overview

Course Prefix
PSC

Course Number
6280

Department
Plants, Soils and Climate

Dual-Listed Courses
PSC5280 - Plant Stress Physiology

Course Title
Plant Stress Physiology

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course serves as a platform for integrating the advances in biochemistry, cell biology, and molecular biology toward in-depth understanding of the fundamental mechanisms that are critical to plant resilience and productivity under sub-optimal environments. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Other Enrollment Recommendations
BIOL4400 PLANT PHYSIOLOGY (QI) is recommended, or similar plant physiology course

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. The overall objective of this course is to introduce students to the physiological and molecular responses of plants to biotic (e.g., pathogens) and abiotic stresses (e.g., drought, salinity).
2. Gaining a basic understanding of the subject.
3. Developing specific skills, competencies, and perspectives necessary for professionals in the field of plant stress physiology.
4. Learning how to find, evaluate, and use resources to explore a topic in depth.
5. Developing skills in expressing oneself orally and in writing.

PSC6310 - Soil Microbiology - 3 - Credits

Course Overview

Course Prefix
PSC

Course Number
6310

Department
Plants, Soils and Climate

Dual-Listed Courses
PSC5310 - Soil Microbiology

Course Title
Soil Microbiology

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course discusses ecology and diversity of microorganisms in soils. Emphasis on factors controlling microbial activity and the role of microorganisms in organic matter decomposition and nutrient cycling. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- BIOL1610 - Biology I
- CHEM1120 - General Chemistry II (BPS)
  OR CHEM1210 - Principles of Chemistry I
- PSC3000 - Fundamentals of Soil Science

Course Learning Objectives

Course Learning Outcomes

1. After the completion of this course students will know the major types of organisms found in soils and be familiar with their classification based on physiological and taxonomic criteria.
2. They will understand the basis for physiological and molecular methods used to examine the microbial diversity of soil environments.
3. They will be familiar with the role of pH, water availability and redox status for the control microbial activity in the soil environment.
4. They will be able to describe plant-microbe interactions especially rhizosphere, mycorrhizae and nitrogen fixation and understand the role of microbes in the transformations of soil carbon, nitrogen, sulfur and phosphorus.
5. The students will be able to find, understand and interpret primary source materials on a variety of topics related to microbial communities and soil processes.

PSC6333 - Plant-Microbe Interactions - 3 - Credits

Course Overview

Course Prefix
PSC

Course Number
6333

Department
Plants, Soils and Climate

Dual-Listed Courses
PSC5333 - Plant-Microbe Interactions

Course Title
Plant-Microbe Interactions

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Course introduces beneficial (Plant Growth-Promoting Microorganisms) and pathogenic (Plant Innate Immunity) plant-microbe interactions, as well as their effects on plant growth and development. Course also covers adaptations of plant-pathogenic interactions to develop tools and hands-on lab components. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Course Learning Objectives

Course Learning Outcomes

- Describe the major types of plant-microbe interactions (beneficial and pathogenic).
- Analyze the molecular signaling pathways involved in plant-microbe interaction (e.g., plant Innate immunity (PTI, ETI), nodulation, mycorrhizae).
- Explain the role of the rhizosphere in microbial colonization and plant health, and evaluate the mechanisms by which PGPR enhance nutrient uptake and stress tolerance.
- Isolation of plant growth-promoting bacteria from the rhizosphere
- Apply bioinformatics tools to analyze plant-associated microbial communities.
- Adaptations of plant-pathogenic interactions to develop scientific tools
- Discuss the role of microbiomes in sustainable agriculture and climate resilience.
- Communicate scientific findings through written reports and presentations.

PSC6350 - Wildland Soils - 3 - Credits

Course Overview

Course Prefix
PSC

Course Number
6350

Department
Plants, Soils and Climate

Cross-Listed Courses
WILD6350 - Wildland Soils

Dual-Listed Courses
PSC5350 - Wildland Soils

Course Title
Wildland Soils

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Application of basic principles of soil science to wildland ecosystems. Effects of disturbance and land use on wildland soil properties. Role of soils in natural resource management.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- CHEM1110 - General Chemistry I (BPS)
- PSC3000 - Fundamentals of Soil Science

and one additional upper-division Soils course

Course Learning Objectives

Course Learning Outcomes

1. To gain a working understanding of plant-soil interactions and working with soils data. By the end of the course you will be able to visit a new site and know what measurements will be needed to understand how water and nutrients move through the soil, how this effects plant growth, and how different management approaches are likely to affect the soils and plants of that system.
2. This course will give you the tools to answer such questions as how much will fertilizer increase plant growth / how will anthropogenic nitrogen deposition affect plant growth and composition? Are there drainage problems at my site? Are my plants water stressed? Is my site fixing carbon? Are soil organisms increasing or decreasing diversity or productivity at my site? How will climate change affect water and nutrient cycling at my site?

PSC6410 - Hydroclimate - 3 - Credits

Course Overview

Course Prefix
PSC

Course Number
6410

Department
Plants, Soils and Climate

Dual-Listed Courses
PSC5410 - Hydroclimate

Course Title
Hydroclimate

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces important processes and phenomena related to hydroclimatology from local to global scales. Students are introduced to foundations related to high-impact precipitation processes, atmosphere-land interactions, and floods/droughts. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Course Learning Objectives

Course Learning Outcomes

1. Understanding the important processes and phenomena related to hydroclimate (i.e., precipitation) from local through global scales.
2. Gaining knowledge of hydroclimatic data and tools.
3. Understanding information on hydroclimate variability and extremes (e.g., floods/droughts).

PSC6420 - Landscape Irrigation Design - 2 - Credits

Course Overview

Course Prefix
PSC

Course Number
6420

Department
Plants, Soils and Climate

Dual-Listed Courses
PSC5420 - Landscape Irrigation Design (QI)

Course Title
Landscape Irrigation Design

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Introduction to design of sprinkler and drip irrigation systems for residential and commercial landscapes. Taught during first half of semester.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Learn the concepts of irrigation design and their real-world applications.
2. Learn to properly size irrigation components based on the amount of irrigation water in motion.
3. Understand how specific irrigation components are placed in an irrigation system and their purpose.
4. Learn the difference between the types of sprinkler heads and their real-world applications.

PSC6430 - Plant Nutrition - 2 - Credits

Course Overview

Course Prefix
PSC

Course Number
6430

Department
Plants, Soils and Climate

Dual-Listed Courses
PSC5430 - Plant Nutrition

Course Title
Plant Nutrition

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Mechanisms of nutrient acquisition, rhizosphere interactions, root morphology and distribution, short- and long-distance transport, nitrogen fixation, and biochemical function of essential and beneficial elements.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Understand the selective uptake of nutrient ions across the plasma membrane
2. Understand how root anatomy facilitates selective uptake of ions
3. Understand the chemistry and biology of the rhizosphere and its role in increasing the bioavailability of nutrient ions
4. Understand the function of nutrients in plant metabolic processes
5. Understand the role of the tonoplast in regulating ion concentration in the cytoplasm.

PSC6500 - Environmental Physics of Land Ecosystems & Climate - 3 - Credits

Course Overview

Course Prefix
PSC

Course Number
6500

Department
Plants, Soils and Climate

Dual-Listed Courses
PSC5500 - Environmental Physics of Land Ecosystems & Climate

Course Title
Environmental Physics of Land Ecosystems & Climate

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
How terrestrial ecosystems and climate affect each other at various scales, from microclimates, to regional and finally global climate. Quantitative exploration of the biophysical processes that connect the land and climate.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Comprehend both qualitatively and quantitatively the key soil, plant and atmospheric processes that determine exchanges of heat, water and CO2 between vegetation surfaces and the air.
2. Approaches to measure and model interactions in soil-plant-atmosphere, especially evapotranspiration. Exposure to key instruments and measurements
3. Understanding microclimates at various scales and locations, and their causes.

PSC6530 - Soil Health and Fertility - 3 - Credits

Course Overview

Course Prefix
PSC

Course Number
6530

Department
Plants, Soils and Climate

Dual-Listed Courses
PSC5530 - Soil Health and Fertility (QI)

Course Title

Soil Health and Fertility

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Description of forms, transformations, and movement of plant nutrients in soils. Discussion of factors affecting nutrient supply, both qualitatively and quantitatively, for nutrient elements essential for plant growth.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- PSC3000 - Fundamentals of Soil Science
- CHEM1110 - General Chemistry I (BPS)
  OR CHEM1210 - Principles of Chemistry I

Course Learning Objectives

Course Learning Outcomes

1. Students will gain understanding of the concepts of soil health and fertility and of how to manage soils to maintain and improve soil quality, health and fertility.
2. Students will learn the nutrient elements required for plant growth and be familiar with the visual symptoms and diagnostic methods to identify nutrient deficiencies.
3. Students will understand the mechanisms by which essential nutrients are supplied to plants from the soil: mass flow, diffusion and root interception and how these interact with water availability.
4. Students will be able to describe the major physical and chemical forms of the essential nutrient elements in soils and the factors affecting their availability to plant roots.
5. Students will be able to solve quantitative problems concerning the use of chemical fertilizers and organic materials to improve nutrient supply to plants and use these in case study problems.
6. Students will use technical writing skills to find, understand and interpret primary source materials on a variety of topics related to soils as the medium for plant growth and soil health.

PSC6550 - Fundamentals of Integrated Weed Management - 4 - Credits

Course Overview

Course Prefix
PSC

Course Number
6550

Department
Plants, Soils and Climate

Dual-Listed Courses
PSC5550 - Fundamentals of Integrated Weed Management

Course Title
Fundamentals of Integrated Weed Management

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course helps students gain a deeper understanding about weeds – not just how to identify and kill them, but why they occur where they do and what that means for long-term, sustainable weed management.

Credit Hours

Credit Hours
Min:
4

Contact Hours

Contact Hours
Min:
4

Billing Hours

Billing Hours
Min:
4

Lecture Hours

Lecture Hours
Min:
4

No Requirements

Course Learning Objectives

Course Learning Outcomes
1. Identify common weed species to the plant family level using live specimens, field observations, and digital identification tools.
2. Evaluate the ecological and economic impacts of weeds across agricultural, natural, and managed systems using evidence-based reasoning.
3. Design and justify an integrated weed management (IWM) plan that incorporates cultural, mechanical, biological, and chemical control strategies for a specific system.

PSC6560 - Analytical Techniques for the Soil Environment - 3 - Credits

Course Overview

Course Prefix
PSC

Course Number
6560

Department
Plants, Soils and Climate

Dual-Listed Courses
PSC5560 - Analytical Techniques for the Soil Environment

Course Title
Analytical Techniques for the Soil Environment

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Analysis of chemical and biological soil characteristics. Results interpreted for soil fertility, land use, and environmental remediation. Graduate credit requires a paper reviewing analysis of element or compound class.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Fulfill ANY of the following requirements:

Option 1

Complete ALL of the following Courses:

- PSC6050 - Principles of Environmental Soil Chemistry
  OR PSC5050 - Principles of Environmental Soil Chemistry

OR

Option 2

Complete ALL of the following Courses:

- PSC6530 - Soil Health and Fertility
  OR ADVS5530 - Nutrient Metabolization & Utilization

may be taken concurrently

Course Learning Objectives

Course Learning Outcomes

1. Students will gain an understanding of the analysis of soils for the essential plant nutrients and for soil health characterization.
2. The students will learn the importance of experimental variability and reproducibility, the use of standard curves for the calculation of analyte concentrations and the principles of atomic adsorption analysis. Computer spread-sheets will be used for data calculations and graphing of experimental results. Writing skills for technical reports based on experimental data will be improved.

PSC6670 - Environmental Soil Physics - 4 - Credits

Course Overview

Course Prefix
PSC

Course Number
6670

Department
Plants, Soils and Climate

Dual-Listed Courses
PSC5670 - Environmental Soil Physics

Course Title
Environmental Soil Physics

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Characterization of the physical properties of soils and other porous media. Measurement, prediction, and control of processes taking place in and through soils (e.g., water flow and solute transport), including atmospheric and groundwater interactions.

Credit Hours

Credit Hours
Min:
4

Contact Hours

Contact Hours
Min:
4

Billing Hours

Billing Hours
Min:
4

Lecture Hours

Lecture Hours
Min:
4

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Understand and Apply Soil Physics Principles: Articulate the fundamental concepts of soil physical properties and processes and analyze their influence on agricultural, ecological, hydrological and climatological practices.
2. Gain Practical Measurement Skills: Demonstrate proficiency in the measurement and analysis of soil physical properties and processes through hands-on laboratory and field experiences, utilizing modern techniques and tools.
3. Employ Analytical Methods to Address Real-World Challenges: Utilize various

PSC6680 - Paleoclimatology - 3 - Credits

Course Overview

Course Prefix
PSC

Course Number
6680

Department
Plants, Soils and Climate

Cross-Listed Courses
GEO6680 - Paleoclimatology,
WATS6680 - Paleoclimatology

Dual-Listed Courses
PSC5680 - Paleoclimatology

Course Title
Paleoclimatology

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Covers climate through the past four billion years of geologic time. Explores driving forces behind climate changes. Examines data and methods used in paleoclimate research. Includes discussion of literature and stresses local paleoclimate records. Three lectures per week, along with field trips.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- GEO3600 - Geomorphology
  OR WATS3600 - Geomorphology

PSC6700 - Integrative Topics in Plants, Soils, and Climate - 1 - 3 Credits

Course Overview

Course Prefix
PSC

Course Number
6700

Department
Plants, Soils and Climate

Course Title
Integrative Topics in Plants, Soils, and Climate

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Team-taught special topics course encouraging interdisciplinary analysis of a research or policy area from the current literature, encompassing the three departmental subdisciplines. Emphasis on written and oral student presentations.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

No Requirements

PSC6710 - Irrigated Soils - 3 - Credits

Course Overview

Course Prefix
PSC

Course Number
6710

Department
Plants, Soils and Climate

Dual-Listed Courses
PSC5710 - Irrigated Soils

Course Title
Irrigated Soils

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers soil salinity, soil-moisture-plant relationships, water supply and quality, irrigation water measurements, soil moisture movement, and irrigation methods. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- PSC3000 - Fundamentals of Soil Science

Course Learning Objectives

Course Learning Outcomes
1. Analyze the processes that influence soil–water–plant relationships and salinity/sodicity under varying environmental and management conditions.
2. Evaluate and interpret irrigation source and application systems to assess suitability for agricultural and environmental applications.
3. Quantify soil moisture movement, irrigation water distribution, and crop water requirements using field measurements and modeling techniques.
4. Design and critique irrigation management strategies that optimize water use efficiency, profitability, and support sustainable crop production.
5. Integrate and synthesize current research literature to propose innovative, evidence-based solutions to complex problems in soil-water-plant systems and irrigation management.

PSC6720 - Advanced Plant Breeding - 3 - Credits

Course Overview

Course Prefix
PSC

Course Number
6720

Department
Plants, Soils and Climate

Dual-Listed Courses
PSC5720 - Advanced Plant Breeding

Course Title
Advanced Plant Breeding

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides background on Mendelian plant genetics including gene mapping, linkage, qualitative, quantitative, and population genetics. Topics include selection schemes for allogamous and autogamous plants, maximizing genetic gain, and marker assisted selection. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Other Enrollment Recommendations
PSC3600 INTRODUCTION TO PLANT BREEDING is recommended

Course Learning Objectives

Course Learning Outcomes
- Understand concepts and methods used to develop and release improved cultivars.
- Determine breeding methods appropriate for different species and design strategies to improve breeding populations.
- Gaining hands-on experience in estimating population genetic parameters to interpret germplasm and support breeding decisions.

PSC6760 - Climate and Climate Change - 3 - Credits

Course Overview

Course Prefix
PSC

Course Number
6760

Department
Plants, Soils and Climate

Dual-Listed Courses
PSC5760 - Climate and Climate Change (DSC)(QI)

Course Title
Climate and Climate Change

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course emphasizes physical basis of climate (climate dynamics), as well as the mechanisms and processes for its fluctuations on sub-seasonal to interannual time scales (climate variations) and on regional to hemispheric/global time scales.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes
1. Understanding the important processes and phenomena related to hydroclimate (i.e., precipitation) from local through global scales.
2. Gaining knowledge of hydroclimatic data and tools.
3. Understanding information on hydroclimate variability and extremes (e.g., floods/droughts).

PSC6777 - Philosophy and History Leading to Science - 2 - Credits

Course Overview

Course Prefix
PSC

Course Number
6777

Department
Plants, Soils and Climate

Dual-Listed Courses
PSC5777 - Philosophy and History Leading to Science

Course Title
Philosophy and History Leading to Science

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students learn how historical events and the evolution of western philosophy led to the scientific revolution and modern science. This is contrasted with a different approach to knowledge, that of Eastern mysticism. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Course Learning Objectives

Course Learning Outcomes
1. Document the major ways how western philosophy, culture and science evolved together over ~ 2,500 years and were altered by historical events.
2. Comprehend the basic tenants modern Popperian science, as well as how and why it supposed to conducted. Limits of questions science can address.
3. Gentle acquaintance with the contrast of mysticism. Examples where modern science and mystical philosophy intersected.

PSC6820 - Environmental Biophysics - 2 - Credits

Course Overview

Course Prefix
PSC

Course Number
6820

Department
Plants, Soils and Climate

Course Title
Environmental Biophysics

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Explores connections between biosphere and atmosphere at many scales. Introduces processes governing exchanges of mass and energy between surface and atmosphere, as well as connections to climate. Examines role of the biota at local to global scales.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

No Requirements

PSC6830 - Atmospheric Instrumentation and Operation - 3 - Credits

Course Overview

Course Prefix
PSC

Course Number
6830

Department
Plants, Soils and Climate

Dual-Listed Courses
PSC5830 - Atmospheric Instrumentation and Operation

Course Title
Atmospheric Instrumentation and Operation

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
The course introduces atmospheric instruments based on the World Meteorological Organization meteorologist operational guidebook. Course topics include selection, installation, principles of operation, calibration of instruments, and maintenance of instruments plus data acquisition. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Course Learning Objectives

Course Learning Outcomes
1. Understand the basic physics and principles of sensors used to make common measurements of atmospheric properties.\
2. Meaning and quantification of accuracy, resolution and uncertainty.
3. Integration of power, data loggers and instruments for modern weather stations.

PSC6840 - Atmospheric Dynamics - 3 - Credits

Course Overview

Course Prefix
PSC

Course Number
6840

Department
Plants, Soils and Climate

Dual-Listed Courses
PSC5840 - Atmospheric Dynamics

Course Title
Atmospheric Dynamics

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers the physical and mathematical principles essential for understanding climate dynamics and synoptic meteorology. Students learn the fundamental equations of motion, energy balance, vorticity, and circulation, along with their applications to atmospheric and oceanic processes. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Course Learning Objectives

Course Learning Outcomes
1. Review the critical role that mathematics plays in interpreting atmospheric/climate dynamics.
2. Solve mathematical challenges pertinent to the field of atmospheric/climate dynamics.
3. Translate complex concepts of atmospheric/climate dynamics into clear mathematical problems.
4. Apply mathematical techniques to gain a deeper understanding of atmospheric/climate dynamics.

PSC6850 - Physical Climatology - 3 - Credits

Course Overview

Course Prefix
PSC

Course Number
6850

Department
Plants, Soils and Climate

Dual-Listed Courses
PSC5850 - Physical Climatology

Course Title
Physical Climatology

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course offers in-depth description of atmospheric circulation and how environmental phenomena interact in a single, unified system. This integrated approach unites all the key features of the climate system to explain the structure and behavior of climate over time. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Course Learning Objectives

Course Learning Outcomes

1. Gaining physical understanding of the Earth's climate system.
2. Learning a physical overview of Earth's climate system and energy budget, large-scale circulation, key physical processes, and climate sensitivity of the atmosphere, ocean, land surface, and cryosphere and how the climate system responds to various forcing factors.
3. Learning to apply physical laws to understand how the global climate system functions.

PSC6860 - Atmospheric Thermodynamics - 3 - Credits

Course Overview

Course Prefix
PSC

Course Number
6860

Department
Plants, Soils and Climate

Dual-Listed Courses
PSC5860 - Atmospheric Thermodynamics

Course Title
Atmospheric Thermodynamics

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers thermodynamic principles and their applications to atmospheric science. Students learn the laws of thermodynamics, intensive and extensive properties, heat capacity, atmospheric lapse rates and stability, hydrostatic and hypsometric equations, and energy exchange in climate systems. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Course Learning Objectives

Course Learning Outcomes

1. Define key terms used in atmospheric thermodynamics.
2. Explain the basic thermodynamic principles that govern the atmosphere.
3. Apply these principles to describe temperature, moisture, and stability in the atmosphere.\
4. Analyze simple atmospheric profiles and thermodynamic diagrams.

PSC6870 - Ecology Seminar - 1 - Credits

Course Overview

Course Prefix
PSC

Course Number
6870

Department
Plants, Soils and Climate

Course Title
Ecology Seminar

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
The Ecology Center schedules seminars with ecological scientists from participating institutions. Ecology majors are required to attend or view a minimum of 10 such lectures. Ecologically focused seminars offered by other departments and colleges may also be eligible for credit.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

No Requirements

PSC6875 - Synoptic Meteorology - 4 - Credits

Course Overview

Course Prefix
PSC

Course Number
6875

Department
Plants, Soils and Climate

Dual-Listed Courses
PSC5875 - Synoptic Meteorology

Course Title
Synoptic Meteorology

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
In this course students apply the theory behind dynamic meteorology concepts governing the large-scale motions of the mid-latitude atmosphere. Theoretical concepts are paired with real-world weather map analysis lessons to introduce forecasting and interpretation techniques while reinforcing numerical concepts. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
4

Contact Hours

Contact Hours
Min:
4

Billing Hours

Billing Hours
Min:
4

Lecture Hours

Lecture Hours
Min:
4

Course Learning Objectives

Course Learning Outcomes

1. Learn to apply climate dynamics practically for weather map analysis and sensible weather experienced on the ground
2. Explore fluid dynamic relationships on the life cycle on mid-latitude cyclones and anticyclones
3. Apply diagnostic, prognostic, and technical tools to evaluate atmospheric processes across a multitude of scales
4. Effectively communicate scientific information orally and in writing at a level appropriate for the target audience

PSC6880 - Earth System Science - 3 - Credits

Course Overview

Course Prefix
PSC

Course Number
6880

Department
Plants, Soils and Climate

Dual-Listed Courses
PSC5880 - Earth System Science

Course Title
Earth System Science

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
In this course, students study the complicated systems in Earth system science with an emphasis on physical perspective and climate dynamics. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- MATH1210 - Calculus I (QL)
- MATH1220 - Calculus II (QL)

Course Learning Objectives

Course Learning Outcomes

1. Describe the basic concepts that form the foundation of Earth system science.
2. Classify major Earth system components and the processes that shape them.
3. Explain key physical mechanisms within each component of the Earth system.
4. Identify how different components interact and influence one another.
5. Outline the basic structure and purpose of global climate models

PSC6890 - Plants, Soils, and Climate Graduate Seminar - 1 - Credits

Course Overview

Course Prefix
PSC

Course Number
6890

Department
Plants, Soils and Climate

Dual-Listed Courses
PSC7890 - Plants, Soils, and Climate Graduate Seminar

Course Title
Plants, Soils, and Climate Graduate Seminar

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
Review and critique of presentations. Communication practice in extemporaneous, extension, research, poster, and lecture presentations.

Credit Hours

Credit Hours Min:
1

Contact Hours

Contact Hours Min:
1

Billing Hours

Billing Hours Min:
1

Lecture Hours

Lecture Hours Min:
1

No Requirements

Course Learning Objectives

Course Learning Outcomes
By the end of this course, students will:
1. Present Research Effectively: Develop and deliver a 15-minute research presentation accompanied by a concise abstract (100 words), demonstrating the ability to communicate complex ideas clearly and professionally.
2. Engage with Guest Speakers: Learn from invited guest speakers to gain insights into various research fields, career paths, and current industry trends.
3. Enhance Professional Skills: Participate in a professional development series to improve essential skills, including writing a strong CV, managing committee relationships, establishing writing habits, and giving and receiving constructive feedback.
4. Apply Feedback: Practice receiving and applying constructive feedback on their work and providing feedback to peers in a supportive and professional manner.
5. Participate in Peer Learning: Engage with peers through discussions and activities to foster a collaborative academic environment and support each other's growth and success.

PSC6900 - Special Problems in Plants, Soils, and/or Climate - 1 - 8 Credits

Course Overview

Course Prefix
PSC

Course Number
6900

Department
Plants, Soils and Climate

Course Title
Special Problems in Plants, Soils, and/or Climate

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Graduate-level special topics and problems in crop science, horticulture, environmental soil/water science, and/or climate. Subject, time, and credit arranged individually as needed.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
8

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
8

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
8

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
8

Lecture Hours Operator:
TO

Special Approval
Departmental permission

Course Learning Objectives

Course Learning Outcomes

1. Gain a basic understanding of the defined subject
2. Develop specific skills, competencies, and perspectives necessary for professionals in the defined field
3. Learn how to find, evaluate, and use resources to explore a topic in depth
4. Develop skills in expressing oneself orally and in writing

PSC6970 - Research and Thesis - 1 - 18 Credits

Course Overview

Course Prefix
PSC

Course Number
6970

Department
Plants, Soils and Climate

Course Title
Research and Thesis

Grade Mode
Temporary Pass/Fail

Repeat Status
RP

Course Description
This course is designed for students preparing a master's degree thesis.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
18

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
18

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
18

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
18

Lecture Hours Operator:
TO

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Research Design and Execution: Students will be able to design and carry out independent, original research projects in plant, soil, and/or climate science using appropriate methodologies.
2. Literature Analysis and Integration: Students will be able to critically evaluate and synthesize scientific literature to frame, justify, and contextualize their thesis and/or dissertation research.
3. Scholarly Communication: Students will be able to produce a well structured thesis or dissertation and effectively present their research findings to both scientific and non specialist audiences.
4. Disciplinary Mastery: Students will be able to demonstrate advanced knowledge of plant, soil, and/or climate science concepts, theories, and applications through scholarly work that contributes meaningfully to the field.

PSC6990 - Continuing Graduate Advisement - 1 - 12 Credits

Course Overview

Course Prefix
PSC

Course Number
6990

Department
Plants, Soils and Climate

Course Title
Continuing Graduate Advisement

Grade Mode
Temporary Pass/Fail

Repeat Status
RP

Course Description
This course provides graduate students with continued support and advisement. It is usually taken following completion of all coursework required for the degree.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
12

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
12

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
12

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
12

Lecture Hours Operator:
TO

No Requirements

PSC7210 - Advanced Topics in Pedology - 2 - Credits

Course Overview

Course Prefix
PSC

Course Number
7210

Department
Plants, Soils and Climate

Course Title
Advanced Topics in Pedology

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Strategies for designing and critiquing pedological research through literature, discussions, and field trips. Topics will change, depending upon student interest, and can include factors and processes involved in pedogenesis, soil mineralogy, soil-biota relationships, and landscape evolution.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- PSC6130 - Soil Genesis, Morphology, and Classification
  OR PSC5130 - Soil Genesis, Morphology, and Classification

Course Learning Objectives

Course Learning Outcomes

1. Develop skill in research and critical thinking in the advanced topic in Pedology chosen for that year's topic.

PSC7890 - Plants, Soils, and Climate Graduate Seminar - 1 - Credits

Course Overview

Course Prefix
PSC

Course Number
7890

Department
Plants, Soils and Climate

Dual-Listed Courses
PSC6890 - Plants, Soils, and Climate Graduate Seminar

Course Title
Plants, Soils, and Climate Graduate Seminar

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
Review and critique of presentations. Communication practice in extemporaneous, extension, research, poster, and lecture presentations.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

No Requirements

Course Learning Objectives

Course Learning Outcomes

By the end of this course, students will:
1. Present Research Effectively: Develop and deliver a 15-minute research presentation accompanied by a concise abstract (100 words), demonstrating the ability to communicate complex ideas clearly and professionally.
2. Engage with Guest Speakers: Learn from invited guest speakers to gain insights into various research fields, career paths, and current industry trends.
3. Enhance Professional Skills: Participate in a professional development series to improve essential skills, including writing a strong CV, managing committee relationships, establishing writing habits, and giving and receiving constructive feedback.
4. Apply Feedback: Practice receiving and applying constructive feedback on their work and providing feedback to peers in a supportive and professional manner.

5. Participate in Peer Learning: Engage with peers through discussions and activities to foster a collaborative academic environment and support each other's growth and success.

PSC7900 - Special Problems in Plants, Soils, and/or Climate - 1 - 8 Credits

Course Overview

Course Prefix
PSC

Course Number
7900

Department
Plants, Soils and Climate

Course Title
Special Problems in Plants, Soils, and/or Climate

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Graduate-level special topics and problems in crop science, horticulture, environmental soil/water science, and/or climate. Subject, time, and credit arranged individually as needed.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
8

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
8

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
8

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
8

Lecture Hours Operator:
TO

Special Approval
Departmental permission

No Requirements

PSC7970 - Research and Thesis - 1 - 18 Credits

Course Overview

Course Prefix
PSC

Course Number
7970

Department
Plants, Soils and Climate

Course Title
Research and Thesis

Grade Mode
Temporary Pass/Fail

Repeat Status
RP

Course Description
This course consists of individual work on research problems for students enrolled in doctoral programs.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
18

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
18

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
18

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
18

Lecture Hours Operator:
TO

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Research Design and Execution: Students will be able to design and carry out independent, original research projects in plant, soil, and/or climate science using appropriate methodologies.
2. Literature Analysis and Integration: Students will be able to critically evaluate and synthesize scientific literature to frame, justify, and contextualize their thesis

and/or dissertation research.
3. Scholarly Communication: Students will be able to produce a well structured thesis or dissertation and effectively present their research findings to both scientific and non specialist audiences.
4. Disciplinary Mastery: Students will be able to demonstrate advanced knowledge of plant, soil, and/or climate science concepts, theories, and applications through scholarly work that contributes meaningfully to the field.

PSC7990 - Continuing Graduate Advisement - 1 - 12 Credits

Course Overview

Course Prefix
PSC

Course Number
7990

Department
Plants, Soils and Climate

Course Title
Continuing Graduate Advisement

Grade Mode
Temporary Pass/Fail

Repeat Status
RP

Course Description
This course provides graduate students with continued support and advisement. It is usually taken following completion of all coursework required for the degree.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
12

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
12

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
12

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
12

Lecture Hours Operator:
TO

No Requirements

PSY1010 - General Psychology (BSS) - 3 - Credits

Course Overview

Course Prefix
PSY

Course Number
1010

Department
Psychology

Course Title
General Psychology (BSS)

General Education Attribute
BSS

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
General Psychology is a one-semester course designed to familiarize students with the basic concepts of psychology. Psychology explores scientific study of thoughts and behaviors. Students develop an understanding about behavior and apply strategies for self-improvement.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

PSY1100 - Lifespan Development - 3 - Credits

Course Overview

Course Prefix
PSY

Course Number
1100

Department
Psychology

Course Title
Lifespan Development

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Covers theories and stages of development across the life span.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- PSY1010 - General Psychology (BSS)

PSY1400 - Analysis of Behavior: Basic Principles - 3 - Credits

Course Overview

Course Prefix
PSY

Course Number
1400

Department
Psychology

Course Title
Analysis of Behavior: Basic Principles

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This is a laboratory course about the scientific methods used in the study of animal and human behavior.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Corequisite

Type
Corequisite

Required

Enroll in the following Courses:

- PSY1410 - Analysis of Behavior: Basic Principles Lab

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- PSY1010 - General Psychology (BSS)

PSY1410 - Analysis of Behavior: Basic Principles Lab - 1 - Credits

Course Overview

Course Prefix
PSY

Course Number
1410

Department
Psychology

Course Title
Analysis of Behavior: Basic Principles Lab

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Laboratory experience accompanying PSY 1400.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- PSY1010 - General Psychology (BSS)

PSY2010 - Orientation to Psychology as a Career and Profession - 2 - Credits

Course Overview

Course Prefix
PSY

Course Number
2010

Department
Psychology

Course Title
Orientation to Psychology as a Career and Profession

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Overview of the field and major. Students clarify career goals, identify steps necessary to achieve goals, prepare a vita, and gain major-relevant skills (e.g., APA-style writing, ethics, and library usage).

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- PSY1010 - General Psychology (BSS)

PSY2100 - Developmental Psychology: Adolescence - 3 - Credits

Course Overview

Course Prefix
PSY

Course Number
2100

Department
Psychology

Course Title
Developmental Psychology: Adolescence

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Characteristics of adolescents and their psychological, educational, and adjustment problems are discussed in detail.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- PSY1010 - General Psychology (BSS)

PSY2250 - Introductory Cooperative Work Experience - 1 - 6 Credits

Course Overview

Course Prefix
PSY

Course Number
2250

Department
Psychology

Course Title
Introductory Cooperative Work Experience

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
Educators and employers cooperate to provide opportunities for students to apply classroom theory and principles in job environments, thereby gaining practical experience in their field.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
6

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
6

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
6

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
6

Lecture Hours Operator:
TO

Special Approval

Instructor Permission

No Requirements

PSY2300 - Psychological Disorders - 3 - Credits

Course Overview

Course Prefix
PSY

Course Number
2300

Department
Psychology

Course Title
Psychological Disorders

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course is an introduction to "abnormal" human behavior. It covers characteristics, etiology, and treatment of a variety of psychological disorders.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- PSY1010 - General Psychology (BSS)

PSY2400 - Happiness: An Evolutionary, Experimental, Experiential Course - 3 - Credits

Course Overview

Course Prefix
PSY

Course Number
2400

Department
Psychology

Course Title
Happiness: An Evolutionary, Experimental, Experiential Course

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
We are privileged to live in a liberal democracy, one providing freedoms to choose how to pursue life, liberty, and happiness. This course surveys empirically supported strategies, and provides experiential learning opportunities, for achieving the wellbeing of self and others.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- PSY1010 - General Psychology (BSS)
- PSY1400 - Analysis of Behavior: Basic Principles

Course Learning Objectives

Course Learning Outcomes

1. Learn to think critically about correlational and experimental data that inform the field of positive psychology.

2. Learn how the evolutionary heritage of our species affects our happiness, our

values, and our needs.

3. Learn how a range of variables can impact human happiness and wellbeing (e.g., wealth, health, status, and social relations).

4. Acquire skills to improve your attention, your social relationships, and your relationship with your own thoughts.

5. Become aware of “happiness traps” that humans routinely fall into but can be avoided.

6. Learn how form new habits that can positively impact your wellbeing.

7. Conduct a multi-week experiment, with your own wellbeing serving as the dependent variable.

PSY2710 - Brain and Behavior - 3 - Credits

Course Overview

Course Prefix
PSY

Course Number
2710

Department
Psychology

Course Title
Brain and Behavior

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This introductory course examines how biological processes in the brain support psychological functions and behavior

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Course Learning Objectives

Course Learning Outcomes

1. **Gaining factual knowledge (terminology, classifications, methods, trends):** Learn basic facts about brain structure, neural communication, and major brain systems relevant to psychological functioning.
2. **Learning to analyze and critically evaluate ideas, arguments, and points of view:** Learn to evaluate how neuroscientific evidence is used to support psychological theories and to identify oversimplified or unsupported claims about the brain.
3. **Integrating biological and psychological perspectives:** Develop the ability to connect biological mechanisms to psychological concepts such as emotion, cognition, motivation, and mental health.

PSY3000 - Special Topics - 3 - Credits

Course Overview

Course Prefix
PSY

Course Number
3000

Department
Psychology

Course Title
Special Topics

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Students study a specific area in psychology that is not part of the department's regularly scheduled curriculum.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

May be fulfilled by coursework or exam.

Fulfill ANY of the following requirements:

Coursework

Complete ALL of the following Courses:

- PSY1010 - General Psychology (BSS)

OR

Exam

Fulfilled by Exam
AP Psychology with a score of 3 or higher.

PSY3010 - Psychological Statistics (QI) - 3 - Credits

Course Overview

Course Prefix
PSY

Course Number
3010

Department
Psychology

Course Title
Psychological Statistics (QI)

General Education Attribute
QI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course is an introduction to descriptive and inferential statistics for the behavioral sciences. Topics include measures of central tendency and variability, sampling distributions, and hypothesis testing procedures including t-tests, analysis of variance, and correlation and regression.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Fulfill prerequisite through either coursework or exam.

Fulfill ANY of the following requirements:

Coursework

Courses must be completed with a minimum grade of C or better.

Complete ANY of the following Courses:

- STAT1040 - Introduction to Statistics (QL)
- STAT1045 - Introduction to Statistics with Elements with Algebra (QL)
- STAT1080 - Foundations of Data Science (QL)

- STAT2000 - Statistical Methods (QI)

OR

Exam

Prerequisite fulfilled by Exam
AP Statistics with a passing score

PSY3020 - Career Organization for the Psychology Major - 1 - Credits

Course Overview

Course Prefix
PSY

Course Number
3020

Department
Psychology

Course Title
Career Organization for the Psychology Major

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course is designed to help students start the process of preparing for a career after they graduate with a psychology degree. Students explore and learn what they should do to prepare for different psychology-related careers.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- PSY2010 - Orientation to Psychology as a Career and Profession

Course Learning Objectives

Course Learning Outcomes

1. Students will have an understanding of what career paths they are most interested in further looking into.

2. Students will create a plan of engagement that includes the steps to best help

prepare them for the career options of their choice.

3. Students will continue to increase scientific literacy and critical thinking skills.

PSY3110 - Health Psychology - 3 - Credits

Course Overview

Course Prefix
PSY

Course Number
3110

Department
Psychology

Course Title
Health Psychology

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Introduction to "biopsychosocial model" of health and well-being. Focuses on reciprocal interactions among biological, psychological, and social factors in human functioning and disease. Explores cultural approaches to health, illness, and treatment.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Requried

Complete ALL of the following Courses:

- PSY1010 - General Psychology (BSS)

PSY3120 - Abuse, Neglect, and the Psychological Dimensions of Intimate Violence (DSS) - 3 - Credits

Course Overview

Course Prefix
PSY

Course Number
3120

Department
Psychology

Course Title
Abuse, Neglect, and the Psychological Dimensions of Intimate Violence (DSS)

General Education Attribute
DSS

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Focuses primarily on child maltreatment and neglect. Course covers historical, legal, medical, and psychological approaches to causes, consequences, and interventions for child maltreatment and neglect. Literatures concerning animal abuse, dating, domestic violence, and abuse of the elderly may be covered.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- PSY1010 - General Psychology (BSS)

PSY3400 - Analysis of Behavior: Advanced (DSS) - 4 - Credits

Course Overview

Course Prefix
PSY

Course Number
3400

Department
Psychology

Course Title
Analysis of Behavior: Advanced (DSS)

General Education Attribute
DSS

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
In-depth examination of principles introduced in PSY 1400. Considers principles governing more complex human and animal behavior, as well as emotional and motivational factors in behavior. Lab included as part of credit.

Credit Hours

Credit Hours
Min:
4

Contact Hours

Contact Hours
Min:
4

Billing Hours

Billing Hours
Min:
4

Lecture Hours

Lecture Hours
Min:
4

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- PSY1400 - Analysis of Behavior: Basic Principles
- PSY1410 - Analysis of Behavior: Basic Principles Lab

PSY3450 - Sensation and Perception - 3 - Credits

Course Overview

Course Prefix
PSY

Course Number
3450

Department
Psychology

Course Title
Sensation and Perception

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces sensation and perception presented from cognitive and neurocognitive perspectives, with application for music, sports, learning, memory, attention, and clinical areas. It provides analysis of how sensory processes influence how one senses the world and interprets sensations.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- PSY1010 - General Psychology (BSS)

PSY3460 - Neuroscience I - 3 - Credits

Course Overview

Course Prefix
PSY

Course Number
3460

Department
Psychology

Course Title
Neuroscience I

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This is an introductory course that examines the relationship between central nervous system anatomy and physiology in controlling behavior and emotional functioning. The course also covers neural substrates of behavior and psychological disorders.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- PSY1010 - General Psychology (BSS)

PSY3500 - Research Methods in Psychology (DSS/CI) - 3 - Credits

Course Overview

Course Prefix
PSY

Course Number
3500

Department
Psychology

Course Title
Research Methods in Psychology (DSS/CI)

General Education Attribute
CI, DSS

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces research methods/research writing for psychological science. Students learn to understand, analyze, and evaluate existing research and develop their own research proposal. Content includes defining and measuring variables, selecting research participants, applying different research designs, and conducting ethical research.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- PSY1010 - General Psychology (BSS)

Required

Complete any of the following with either coursework or by course with a Communication Literacy (CL2) attribute.

Fulfill ANY of the following requirements:

Coursework

Complete ANY of the following Courses:

- ENGL2010 - Research and Argument Across Perspectives (CL2)
  OR ENGL2020 - Professional Communication (CL2)

OR

Communication Literacy (CL1) attribute

Complete ALL of the following Course Sets:

- Communications Literacy (CL1) Course

PSY3510 - Social Psychology (DSS) - 3 - Credits

Course Overview

Course Prefix
PSY

Course Number
3510

Department
Psychology

Course Title
Social Psychology (DSS)

General Education Attribute
DSS

Grade Mode
Standard Letter

Repeat Status
NR

Course Description

Study of the individual in society; problems, theories, and methods of social psychology; will relate reading assignments to current social issues.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- PSY1010 - General Psychology (BSS)

PSY3700 - Mental Health Advocacy and Awareness - 3 - Credits

Course Overview

Course Prefix
PSY

Course Number
3700

Department
Psychology

Cross-Listed Courses
HDFS3700 - Mental Health Advocacy and Awareness

Course Title
Mental Health Advocacy and Awareness

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides introductory knowledge of issues to support individuals with mental health needs. The course includes the sociocultural history of mental health, current epidemiology to increase critical thinking skills, and development of skills to be effective advocates and responders.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

PSY4000 - Mental Aspects of Sports Performance - 3 - Credits

Course Overview

Course Prefix
PSY

Course Number
4000

Department
Psychology

Cross-Listed Courses
KIN4000 - Mental Aspects of Sports Performance

Course Title
Mental Aspects of Sports Performance

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides an understanding of theory and applications in the specialty area of sports psychology, including enhancement of motivation and performance, stress, anxiety, aggression and time management, and the relation of these issues to physical development and coaching styles.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

PSY4020 - Career Preparation for the Psychology Major - 1 - Credits

Course Overview

Course Prefix
PSY

Course Number
4020

Department
Psychology

Course Title
Career Preparation for the Psychology Major

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course is designed to involve students directly in activities and research related to their primary and secondary career paths they are aiming to go into after they graduate with a psychology degree.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- PSY3020 - Career Organization for the Psychology Major **AND** PSY2010 - Orientation to Psychology as a Career and Profession

Course Learning Objectives

Course Learning Outcomes

1. Students will engage in the process of preparing themselves for a career after graduation.

2. Students will be actively collecting information that will best support them after graduation.

3. Students will continue to increase their cultural competency as well as knowledge about equity, diversity and inclusion.

PSY4140 - Cognitive Neuroscience - 4 - Credits

Course Overview

Course Prefix
PSY

Course Number
4140

Department
Psychology

Course Title
Cognitive Neuroscience

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students learn about the brain and cognition and learn to evaluate techniques and specific research.

Credit Hours

Credit Hours
Min:
4

Contact Hours

Contact Hours
Min:
4

Billing Hours

Billing Hours
Min:
4

Lecture Hours

Lecture Hours
Min:
4

Special Approval
Instructor permission

Course Learning Objectives

Course Learning Outcomes

1. **Gaining factual knowledge (terminology, classifications, methods, trends):** Learn basic facts about the brain and cognition.
2. **Learning to analyze and critically evaluate ideas, arguments, and points of view:** Learn to evaluate the strengths and weaknesses of particular cognitive neuroscience techniques and specific research.
3. **Developing specific skills, competencies, and points of view needed by professionals in the field most closely related to this course:** The lab component of this course will involve developing technical skills involved in collecting and processing brain imaging data.
4. **Learning appropriate methods for collecting, analyzing, and interpreting numerical information:** The lab component of this course will involve collecting, analyzing, and interpreting numerical information.

PSY4210 - Personality Theory (DSS) - 3 - Credits

Course Overview

Course Prefix
PSY

Course Number
4210

Department
Psychology

Course Title
Personality Theory (DSS)

General Education Attribute
DSS

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course entails explanatory study of various personality theories and their origins, as well as approaches to understanding human behavior.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Junior standing or above

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- PSY1010 - General Psychology (BSS)

PSY4230 - Psychology of Gender (DSS) - 3 - Credits

Course Overview

Course Prefix
PSY

Course Number
4230

Department
Psychology

Course Title
Psychology of Gender (DSS)

General Education Attribute
DSS

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Critical analysis of evidence for sex differences, gender roles, the effect of gender on traditional psychology, and other topics, including parenthood, cultural influence, and sexual orientation.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

PSY4240 - Multicultural Psychology (DSS) - 3 - Credits

Course Overview

Course Prefix
PSY

Course Number
4240

Department
Psychology

Course Title
Multicultural Psychology (DSS)

General Education Attribute
DSS

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Explores cultural influences on basic psychological processes, including perception, cognition, language, emotion, intelligence, attitudes, values, and intergroup relations.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- PSY1010 - General Psychology (BSS)

PSY4250 - Advanced Cooperative Work Experience - 1 - 12 Credits

Course Overview

Course Prefix
PSY

Course Number
4250

Department
Psychology

Course Title
Advanced Cooperative Work Experience

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
Cooperative education work experience position; increased level of complexity and a more professional level of experience as student advances toward completion of the program.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
12

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
12

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
12

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
12

Lecture Hours Operator:
TO

Special Approval
Instructor permission

No Requirements

PSY4400 - Matlab for Neuroscience - 4 - Credits

Course Overview

Course Prefix
PSY

Course Number
4400

Department
Psychology

Course Title
Matlab for Neuroscience

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides hands-on training in using MATLAB as a computational tool for neuroscience research.

Credit Hours

Credit Hours Min:
4

Contact Hours

Contact Hours Min:
4

Billing Hours

Billing Hours Min:
4

Lecture Hours

Lecture Hours Min:
4

Special Approval
Instructor permission

Course Learning Objectives

Course Learning Outcomes

1. **Gaining factual knowledge (terminology, classifications, methods, trends):** Learn basic facts about the coding in Matlab.
2. **Developing specific skills, competencies, and points of view needed by professionals in the field most closely related to this course:** The coding assignments will develop the programming skills necessary for high-level research involving brain imaging data.
3. **Learning appropriate methods for collecting, analyzing, and interpreting numerical information:** The programming assignments will involve analyzing, and interpreting numerical information.

PSY4420 - Cognitive Psychology (DSS) - 4 - Credits

Course Overview

Course Prefix
PSY

Course Number
4420

Department
Psychology

Course Title
Cognitive Psychology (DSS)

General Education Attribute
DSS

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
In-depth study of basic concepts, methods, and theories involved in perception, memory, and thinking. Lab required.

Credit Hours

Credit Hours
Min:
4

Contact Hours

Contact Hours
Min:
4

Billing Hours

Billing Hours
Min:
4

Lecture Hours

Lecture Hours
Min:
4

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- PSY1010 - General Psychology (BSS)

PSY4460 - Neuroscience II - 3 - Credits

Course Overview

Course Prefix
PSY

Course Number
4460

Department
Psychology

Course Title
Neuroscience II

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This is an advanced course examining the relationship between central nervous system anatomy and physiology in controlling behavior and emotional functioning. It details neural and biochemical substrates of behavior.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Fulfill ALL of the following requirements:

Required

Complete ALL of the following Courses:

- PSY1010 - General Psychology (BSS)

AND

Required

Complete ANY of the following Courses:

- BIOL1610 - Biology I
  OR PSY3460 - Neuroscience I

PSY4910 - Undergraduate Research Creative Opportunity - 1 - 3 Credits

Course Overview

Course Prefix
PSY

Course Number
4910

Department
Psychology

Course Title
Undergraduate Research Creative Opportunity

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
This course consists of a cooperative process of discovery, investigation, research, or creativity between faculty and one or more students.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

Special Approval
Instructor Permission

No Requirements

PSY4920 - Practicum - 1 - 3 Credits

Course Overview

Course Prefix
PSY

Course Number
4920

Department
Psychology

Course Title
Practicum

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
This course consists of fieldwork in an applied psychological setting at the BS level.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

Special Approval
Instructor permission

No Requirements

PSY4930 - Practicum in Mental Health - 1 - Credits

Course Overview

Course Prefix
PSY

Course Number
4930

Department
Psychology

Cross-Listed Courses
HDFS4930 - Practicum in Mental Health

Course Title
Practicum in Mental Health

Grade Mode
Temporary Standard Letter

Repeat Status
NR

Course Description
This course provides students a practical experience in a laboratory setting working in the mental health field.

Credit Hours

Credit Hours Min:
1

Contact Hours

Contact Hours Min:
1

Billing Hours

Billing Hours Min:
1

Lecture Hours

Lecture Hours Min:
1

No Requirements

PSY4940 - Indigenous Community Engaged Learning - 3 - Credits

Course Overview

Course Prefix
PSY

Course Number
4940

Department
Psychology

Course Title
Indigenous Community Engaged Learning

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides students with experience in community engaged learning (CEL) by working with a Native nation and/or community organization in the state of Utah. It is grounded in the four R's of doing research with Indigenous communities: respect, responsibility, reverence, and reciprocity.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

PSY4950 - Undergraduate Apprenticeship (CI) - 3 - Credits

Course Overview

Course Prefix
PSY

Course Number
4950

Department
Psychology

Course Title
Undergraduate Apprenticeship (CI)

General Education Attribute
CI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description

Students plan and execute their apprenticeship experience in a research setting (with faculty members) and an applied setting (e.g., community service agency or school). Students are encouraged to take this course three or more semesters prior to graduation.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- PSY2010 - Orientation to Psychology as a Career and Profession

PSY4960 - Capstone Seminar in Psychology (CI) - 3 - Credits

Course Overview

Course Prefix
PSY

Course Number
4960

Department
Psychology

Course Title
Capstone Seminar in Psychology (CI)

General Education Attribute
CI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description

Capstone seminars build off the knowledge learned throughout the major, and focus on a specialization and career-oriented knowledge-base. Each section focuses on different emphasis areas in the field. Courses prepare students for careers, including reading, thinking and communicating like professionals.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Senior standing

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- PSY1010 - General Psychology (BSS)

PSY5050 - Psychological Aspects of Sports Performance - 3 - Credits

Course Overview

Course Prefix
PSY

Course Number
5050

Department
Psychology

Cross-Listed Courses
KIN5050 - Psychological Aspects of Sports Performance

Course Title
Psychological Aspects of Sports Performance

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Psychological theory and principles applied to sports. Includes motivational techniques, psychological evaluation, stress and anxiety in sports, personality and sports performance.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

PSY5100 - History and Systems of Psychology - 3 - Credits

Course Overview

Course Prefix
PSY

Course Number
5100

Department
Psychology

Dual-Listed Courses
PSY6100 - History and Systems of Psychology

Course Title
History and Systems of Psychology

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students learn theoretical and historical developments in psychology with primary emphasis on nineteenth and twentieth-century developments, although earlier precursors are also considered. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

PSY5330 - Principles of Psychological Measurement and Test Theory - 3 - Credits

Course Overview

Course Prefix
PSY

Course Number
5330

Department
Psychology

Course Title
Principles of Psychological Measurement and Test Theory

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers psychological test and measurement theories, including statistical theories for defining reliability and validity. It also discusses the application of psychometric theory to psychological scale development and evaluation.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- PSY1010 - General Psychology (BSS)
- PSY3010 - Psychological Statistics (QI)

PSY5710 - Advanced Behavioral Neuroscience - 3 - Credits

Course Overview

Course Prefix
PSY

Course Number
5710

Department
Psychology

Course Title
Advanced Behavioral Neuroscience

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course studies the scientific field that studies how the brain, nervous system, and biological processes give rise to behavior. This is an advanced level, capstone type course designed for Neuroscience majors.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Special Approval

Instructor permission

Course Learning Objectives

Course Learning Outcomes

1. Gaining factual knowledge (terminology, classifications, methods, trends): Learn basic facts about the brain and cognition.
2. Learning to analyze and critically evaluate ideas, arguments, and points of view: Learn to evaluate the strengths and weaknesses of particular cognitive neuroscience techniques and specific research.
3. Develop skill in expressing yourself orally and in writing: Develop effective presentation skills and practice discussing high level scientific concepts. Practice “thinking on your feet.”

PSY5900 - Independent Study - 1 - 3 Credits

Course Overview

Course Prefix
PSY

Course Number
5900

Department
Psychology

Course Title
Independent Study

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
This course consists of individual discussion and intensive study of a particular problem or area.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

Special Approval
Instructor permission

PSY5910 - Independent Research - 1 - 3 Credits

Course Overview

Course Prefix
PSY

Course Number
5910

Department
Psychology

Course Title
Independent Research

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
Experiments and demonstration projects are conducted and reported.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

Special Approval
Instructor permission

PSY5930 - Instructional Apprenticeship in Psychology - 1 - 3 Credits

Course Overview

Course Prefix
PSY

Course Number
5930

Department
Psychology

Course Title
Instructional Apprenticeship in Psychology

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
Students gain didactic and applied experience in course preparation and instructional techniques applicable to the teaching of psychology. This course is intended for students planning careers as instructors at the secondary and postsecondary levels.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

Special Approval
Instructor permission

PSY6010 - Introduction to Program Evaluation: Evaluation Models and Practical Guidelines - 3 - Credits

Course Overview

Course Prefix
PSY

Course Number
6010

Department
Psychology

Cross-Listed Courses
EDUC6010 - Introduction to Program Evaluation: Evaluation Models and Practical Guidelines

Course Title
Introduction to Program Evaluation: Evaluation Models and Practical Guidelines

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Alternative approaches and practical guidelines for conducting evaluation studies. Through case studies and simulations, addresses impact of social, political, and ethical issues on evaluation.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

PSY6020 - Cellular and Molecular Neuroscience - 3 - Credits

Course Overview

Course Prefix
PSY

Course Number
6020

Department
Psychology

Cross-Listed Courses
BIOL6020 - Cellular and Molecular Neuroscience

Course Title
Cellular and Molecular Neuroscience

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This is a comprehensive introductory neuroscience course for graduate students. The course covers basic principles of organization and function of the nervous system, as well as references to neurological and psychiatric disorders.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Registration Restrictions
Graduate standing, or instructor permission

Special Approval
Instructor permission

No Requirements

PSY6050 - Psychological Aspects of Sports Performance - 3 - Credits

Course Overview

Course Prefix
PSY

Course Number
6050

Department
Psychology

Cross-Listed Courses
KIN6050 - Psychological Aspects of Sports Performance

Course Title
Psychological Aspects of Sports Performance

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Psychological theory and principles applied to sports. Includes motivational techniques, psychological evaluation, stress and anxiety in sports, personality and sports performance.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

PSY6060 - Introduction to Statistics in School Counseling - 1 - Credits

Course Overview

Course Prefix
PSY

Course Number
6060

Department
Psychology

Course Title
Introduction to Statistics in School Counseling

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course equips school counselors with essential statistical skills for educational research and program evaluation, focusing on data interpretation, decision-making, and effective communication to support student outcomes and evidence-based practices in school counseling.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Registration Restrictions
Admission to the School Counseling - MEd

Course Learning Objectives

Course Learning Outcomes
1. Explain and apply basic statistical concepts such as scales of measurement, measures of central tendency, indices of variability, shapes and types of distributions, and correlations.

2. Create effective and appropriate visual and numerical summaries of datasets and interpret them accurately.

3. Apply basic statistical methods in conducting research and program evaluation and assess the outcomes.

4. Interpret advanced statistical analyses required for professional practice and coursework and apply the results in the context of K-12 settings.

5. Communicate statistical findings clearly and make informed decisions based on data analysis.

PSY6100 - History and Systems of Psychology - 3 - Credits

Course Overview

Course Prefix
PSY

Course Number
6100

Department
Psychology

Dual-Listed Courses
PSY5100 - History and Systems of Psychology

Course Title
History and Systems of Psychology

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students learn theoretical and historical developments in psychology with primary emphasis on nineteenth and twentieth-century developments, although earlier precursors are also considered. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

PSY6120 - Behavioral Neuroscience - 3 - Credits

Course Overview

Course Prefix
PSY

Course Number
6120

Department
Psychology

Cross-Listed Courses
BIOL6120 - Behavioral Neuroscience

Course Title

Behavioral Neuroscience

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This is a comprehensive introductory neuroscience course for graduate students that builds on material learned in Cellular and Molecular Neuroscience. The course provides an overview of brain circuits and higher brain functions. Neuropsychiatric disease is also discussed.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

PSY6130 - Evidence-Based Practice: School Intervention - 3 - Credits

Course Overview

Course Prefix
PSY

Course Number
6130

Department
Psychology

Course Title
Evidence-Based Practice: School Intervention

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
To prepare students to design and implement evidence-based intervention in K-12 school populations.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

PSY6160 - Evidence-Based Psychotherapy Across Ages - 3 - Credits

Course Overview

Course Prefix
PSY

Course Number
6160

Department
Psychology

Course Title
Evidence-Based Psychotherapy Across Ages

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Introduction to application of evidence-based practice in psychology, focusing on child, adolescent, and adult populations.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Admission to one of the following:

- Psychology - EdS program - Psychology - EdS
- Psychology - PhD program - Psychology - PhD

Course Learning Objectives

Course Learning Outcomes

1. Learn how to implement key adult psychotherapy procedures.

2. Learn to implement key child and adolescent psychotherapy procedures.

3. Learn how to implement psychotherapy techniques based on presenting processes of change.

4. Understand the model for process-based psychotherapy techniques.

5. Learn how to choose the right therapy technique for the right presenting issues.

PSY6230 - Effective Interventions with Parents - 1 - Credits

Course Overview

Course Prefix
PSY

Course Number
6230

Department
Psychology

Course Title
Effective Interventions with Parents

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Covers effective implementation of collaborative home-school interventions with a focus on working with parents to address difficulties children are exhibiting in home and schools. Behavioral parent training covered extensively.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Registration Restrictions

Admission to the Psychology - PhD - Ph.D. in Psychology program.

PSY6240 - Comprehensive and Systemic School Counseling Programs - 3 - Credits

Course Overview

Course Prefix
PSY

Course Number
6240

Department
Psychology

Course Title
Comprehensive and Systemic School Counseling Programs

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students will examine the role of the professional school counselor and attain the skills necessary to establish an effective school counseling program using national and Utah comprehensive school counseling models.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

PSY6260 - Career Literacy and Development for School Counselors - 3 - Credits

Course Overview

Course Prefix
PSY

Course Number
6260

Department
Psychology

Course Title

Career Literacy and Development for School Counselors

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course is designed for students who plan to license for and enter professional school counseling. It provides an opportunity for exploration of career patterns and factors influencing career development and effectiveness, in keeping with the Utah Model.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Admission to Professional School Counselor Education

No Requirements

PSY6290 - Diversity Issues in Treatment and Assessment - 1 - 3 Credits

Course Overview

Course Prefix
PSY

Course Number
6290

Department
Psychology

Course Title
Diversity Issues in Treatment and Assessment

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Course will advance cultural competence development in trainees; particular focus on specific skills in psychotherapy and psychological/educational assessment with ethnic, linguistic, and culturally diverse clients/families/groups/schools/communities. Students will acquire skills in training others in developing cultural self-awareness, knowledge, and skills.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

Registration Restrictions
Admission to a graduate program in Psychology

PSY6291 - Diversity Issues in Treatment and Assessment: Self-Awareness - 1 - Credits

Course Overview

Course Prefix
PSY

Course Number
6291

Department
Psychology

Course Title
Diversity Issues in Treatment and Assessment: Self-Awareness

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course focuses on an exploration of personal and professional worldviews with an emphasis on exposing students to theories (e.g., Multicultural, Feminist, Critical) that can provide alternative or meta-theoretical conceptualizations to existing theories of change.

Credit Hours

Credit Hours Min:
1

Contact Hours

Contact Hours Min:
1

Billing Hours

Billing Hours Min:
1

Lecture Hours

Lecture Hours Min:
1

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- PSY6290 - Diversity Issues in Treatment and Assessment

PSY6292 - Diversity Issues in Treatment and Assessment: Skills - 1 - Credits

Course Overview

Course Prefix
PSY

Course Number
6292

Department
Psychology

Course Title
Diversity Issues in Treatment and Assessment: Skills

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course focuses on the development of specific skills for treatment and assessment of diverse clients including cultural adaptations, cultural formulation interview, the use of specific techniques such as family genograms, and general skills in engaging difficult dialogues.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- PSY6290 - Diversity Issues in Treatment and Assessment
- PSY6291 - Diversity Issues in Treatment and Assessment: Self-Awareness

PSY6310 - Intellectual Assessment - 3 - Credits

Course Overview

Course Prefix
PSY

Course Number
6310

Department
Psychology

Course Title
Intellectual Assessment

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Training and supervised experience in administering and interpreting individual intellectual ability tests, such as the Wechsler and Stanford-Binet scales.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Admission to one of the following:

- Psychology - EdS -Psychology - EdS
- Psychology - PhD - Psychology - PhD

PSY6320 - Objective Assessment of Personality and Affect - 3 - Credits

Course Overview

Course Prefix
PSY

Course Number
6320

Department
Psychology

Course Title
Objective Assessment of Personality and Affect

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Research bases and clinical applications of objective psychological assessment instruments and techniques, designed to measure adolescent and adult personality, affect, and psychotherapy.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- PSY6310 - Intellectual Assessment

PSY6330 - Evidence-Based Practice: School Assessment and Measurement - 3 - Credits

Course Overview

Course Prefix
PSY

Course Number
6330

Department
Psychology

Course Title
Evidence-Based Practice: School Assessment and Measurement

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers psychological test and measurement theories, including statistical theories for defining reliability and validity. It also discusses the application of psychometric theory to psychological scale development and evaluation.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Admission to the MEd in School Counseling program School Counseling - MEd.

PSY6340 - Consultation in the Schools - 3 - Credits

Course Overview

Course Prefix
PSY

Course Number
6340

Department
Psychology

Course Title
Consultation in the Schools

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students will learn to create positive collaborative efforts between school professionals, students, parents, community organizations and health care providers, including mental health professionals.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Admission to School Counseling - MEd graduate program

No Requirements

PSY6350 - Introduction to Theories of Intervention in Psychology - 3 - Credits

Course Overview

Course Prefix
PSY

Course Number
6350

Department
Psychology

Course Title
Introduction to Theories of Intervention in Psychology

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Introduction to empirically based psychological practice (EBPP) and basic theories of psychological intervention. Explores basic models of EBPP, common factors associated with therapeutic change, and core theories of psychological intervention.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Admission to one of the following:

- M.Ed. in School Counseling School Counseling - MEd
- Combined Clinical/Counseling specialization of the Psychology - PhD program Psychology - PhD

PSY6380 - Practicum in School Psychology - 3 - Credits

Course Overview

Course Prefix
PSY

Course Number
6380

Department
Psychology

Course Title
Practicum in School Psychology

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Supervised practicum in school psychology in public school or closely related setting. Taken by second-year students in School Psychology master's program.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

PSY6390 - Program Evaluation in the Schools: Models and Guidelines - 3 - Credits

Course Overview

Course Prefix
PSY

Course Number
6390

Department
Psychology

Course Title
Program Evaluation in the Schools: Models and Guidelines

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Models and guidelines for conducting ethical, valid and reliable evaluation studies in the schools, with emphasis on state-required data projects for school counseling centers.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Admission to the School Counseling graduate program.

No Requirements

PSY6410 - Psychoeducational Assessment - 3 - Credits

Course Overview

Course Prefix
PSY

Course Number
6410

Department
Psychology

Course Title
Psychoeducational Assessment

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Training and supervised experience in assessment of school-age and preschool-age children. Administration and interpretation of cognitive, developmental, and academic achievement measures, along with other psychoeducational assessment instruments and methods.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

PSY6420 - Group Counseling in the Schools - 3 - Credits

Course Overview

Course Prefix
PSY

Course Number
6420

Department
Psychology

Course Title
Group Counseling in the Schools

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Theories and models of group counseling with emphasis on application with children and adolescents in school settings.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Admission to the School counseling graduate program.

No Requirements

PSY6440 - Legal and Ethical Issues in the Schools - 3 - Credits

Course Overview

Course Prefix
PSY

Course Number
6440

Department
Psychology

Course Title
Legal and Ethical Issues in the Schools

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course discusses theories, legal, ethical and professional standards, and issues in the practice of school psychology. This course presents case studies and students learn responsive ethical and professional decision-making.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Admission to one of the following:

- Psychology - EdS program - Psychology - EdS
- Psychology - PhD with a specialization in School Psychology program - Psychology - PhD.

PSY6450 - Introduction to School Psychology - 3 - Credits

Course Overview

Course Prefix
PSY

Course Number
6450

Department
Psychology

Course Title
Introduction to School Psychology

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces an overview of the field of school psychology. This course discusses the role and function of school psychologists, historical context of school psychology, and trends and new developments in service provision.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Admission to one of the following:

- School Psychology master's program
- Combined Psychology doctoral program

No Requirements

PSY6460 - Ethical, Legal and Professional Issues in School Counseling - 3 - Credits

Course Overview

Course Prefix
PSY

Course Number
6460

Department
Psychology

Course Title
Ethical, Legal and Professional Issues in School Counseling

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Exploration of ethical, legal and professional issues related to school counselor responsibilities, including advocacy, leadership, collaboration and systemic change.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Admission to one of the following:

- School Counseling - MEd program
- Psychology Sch of Counsel MED

PSY6470 - Health Psychology - 3 - Credits

Course Overview

Course Prefix
PSY

Course Number
6470

Department
Psychology

Course Title
Health Psychology

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Explores psychological and behavioral principles relating to health and illness. Focuses on development and maintenance of health behaviors. Emphasizes integration of research findings with clinical intervention.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

PSY6510 - Social Psychology - 3 - Credits

Course Overview

Course Prefix
PSY

Course Number
6510

Department
Psychology

Course Title
Social Psychology

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Provides students with common knowledge base in social psychology. Emphasizes recent developments in the field, while providing an in-depth overview of classic research in the field.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

PSY6530 - Developmental Psychology - 3 - Credits

Course Overview

Course Prefix
PSY

Course Number
6530

Department
Psychology

Course Title
Developmental Psychology

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Advanced survey course in general developmental psychology. Theory and research in human development across the lifespan, with particular emphasis on child and adolescent development.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

PSY6540 - School Mental Health I: Assessment - 3 - Credits

Course Overview

Course Prefix
PSY

Course Number
6540

Department
Psychology

Course Title
School Mental Health I: Assessment

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course instructs in school-based mental health services from the perspective of school psychology. This course specifically focuses on conceptual frameworks, assessment purposes, and methods used in school-based mental health services.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- PSY6440 - Legal and Ethical Issues in the Schools
- PSY6450 - Introduction to School Psychology

Course Learning Objectives

Course Learning Outcomes
1. Understand the warrant for school-based mental health services.

2. Understand and apply the conceptual frameworks that guide school-based mental health services.

3. Understand the purposes of assessment within school-based mental health services.

4. Select and administer appropriate assessment methods to inform each of the different purposes of school-based mental health services.

5. Understand the strengths and limitations of different assessment methods used in school-based mental health services.

6. Effectively interpret and communicate results from assessment methods used for different purposes in school-based mental health services.

PSY6560 - Introduction to Educational and Psychological Research - 3 - Credits

Course Overview

Course Prefix
PSY

Course Number
6560

Department
Psychology

Course Title
Introduction to Educational and Psychological Research

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides an introduction to research methods, including identification of a research problem, review and evaluation of research literature, and design and implementation of a research project.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

PSY6580 - Collaborative Classroom Instruction, Leadership and Professional Topics - 3 - Credits

Course Overview

Course Prefix
PSY

Course Number
6580

Department
Psychology

Course Title
Collaborative Classroom Instruction, Leadership and Professional Topics

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course trains future school counselors as systemic change leaders and provides evidence-based practices for effective classroom instruction. Additional professional school counseling topics are discussed.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Admission to the school counseling program

No Requirements

PSY6600 - Statistical Foundations - 3 - Credits

Course Overview

Course Prefix
PSY

Course Number
6600

Department
Psychology

Cross-Listed Courses
EDUC6600 - Statistical Foundations

Course Title
Statistical Foundations

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers research design and statistical concepts for research in education, human services, and psychology, with an emphasis on the selection and interpretation of statistical analyses.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Special Approval
Instructor permission

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Fulfill ALL of the following requirements:

Required

Complete the following pre-test:
A pretest score of 70% or higher is required. Please visit https://cehs.usu.edu/research/courses/educ-psy-6600 to complete the pretest for PSY6600 STATISTICAL FOUNDATIONS.

AND

Required

Any of these courses can also be taken concurrently with PSY6600 STATISTICAL FOUNDATIONS.

Complete at least 1 of the following courses:

- EDUC6040 - Applied Research Methods
- EDUC6570 - Introduction to Educational and Psychological Research
- HDFS6031 - Research Methodology
- HDFS6380 - Applying Scholarly Research and Systemic Family Treatment
- ITLS7015 - Introduction to Theories and Methods of Instructional Technology and Learning Sciences II
- KIN6810 - Research Methods in Kinesiology
- LING6010 - Research in Second Language Learning
- PSY6560 - Introduction to Educational and Psychological Research
- SPED6700 - Introduction to Behavioral Research in Education
- SHS6230 - Introduction to Research in Communicative Disorders

PSY6610 - College and Career Readiness for School Counselors - 3 - Credits

Course Overview

Course Prefix
PSY

Course Number
6610

Department
Psychology

Course Title
College and Career Readiness for School Counselors

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Designed for pre-service and practicing school counselors, this course teaches effective strategies for preparing all students for post-secondary education.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Admission to the Schools Counseling graduate program.

No Requirements

PSY6630 - Supervision and Consultation in Psychological and Educational Settings - 3 - Credits

Course Overview

Course Prefix
PSY

Course Number
6630

Department
Psychology

Course Title
Supervision and Consultation in Psychological and Educational Settings

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Introduction to skills and research fundamental to consultation and supervision, with particular emphasis on educational settings. Majority of course devoted to instruction in the skills required through applied case work.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Admission to one of the following:

- School Psychology
- Combined Psychology Program

No Requirements

PSY6650 - Theories of Learning: The Behavioral Perspective - 3 - Credits

Course Overview

Course Prefix
PSY

Course Number
6650

Department
Psychology

Course Title
Theories of Learning: The Behavioral Perspective

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
In-depth examination of the major behavioral theories of learning, including classical and operant conditioning.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

PSY6660 - Cognition and Instruction - 3 - Credits

Course Overview

Course Prefix
PSY

Course Number
6660

Department
Psychology

Course Title
Cognition and Instruction

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Survey of theory and principles in cognitive psychology, with special emphasis on applying these principles in instructional settings.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

PSY6670 - Neuropharmacology - 2 - 3 Credits

Course Overview

Course Prefix
PSY

Course Number
6670

Department
Psychology

Course Title
Neuropharmacology

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This is an advanced graduate seminar examining the psychopharmacological mechanisms of action of psychotropic drugs. It considers abnormalities in neurotransmission underlying major psychiatric disorders, including depression, anxiety disorders, psychosis, cognitive disorders, and substance abuse.

Credit Hours

Credit Hours Min:
2

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
2

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
2

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
2

Lecture Hours Max:
3

Lecture Hours Operator:
TO

PSY6680 - Neuroeconomics - 3 - Credits

Course Overview

Course Prefix
PSY

Course Number
6680

Department
Psychology

Course Title
Neuroeconomics

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Status and trends in Neuroeconomics, an interdisciplinary field that seeks to explain decision making, the ability of the brain to process multiple alternatives and to choose a course of action. Studies how neuroscientific discoveries constrain and guide models of economics.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- PSY6020 - Cellular and Molecular Neuroscience

PSY6760 - Fundamentals of Acceptance and Commitment Therapy - 3 - Credits

Course Overview

Course Prefix
PSY

Course Number
6760

Department
Psychology

Course Title
Fundamentals of Acceptance and Commitment Therapy

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This class covers the fundamentals of Acceptance and Commitment Therapy (ACT). The theory behind ACT as well as the research that informs ACT and the processes targeted will be covered. Delivery of ACT will be practiced in class.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

PSY6770 - Pre-Practicum: Counseling Skills and Techniques - 3 - Credits

Course Overview

Course Prefix
PSY

Course Number
6770

Department
Psychology

Course Title
Pre-Practicum: Counseling Skills and Techniques

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course emphasizes the acquisition of counseling skills and practical application of counseling techniques. Students delve into evidence-based methods suitable for both prevention and intervention, providing a holistic grasp of school counseling practices.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Registration Restrictions
Admission to the School Counseling - MEd program

Special Approval
Others wishing to enroll must have program director approval

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- PSY6240 - Comprehensive and Systemic School Counseling Programs
- PSY6350 - Introduction to Theories of Intervention in Psychology
- PSY6390 - Program Evaluation in the Schools: Models and Guidelines
- PSY6420 - Group Counseling in the Schools
- PSY6460 - Ethical, Legal and Professional Issues in School Counseling
- PSY6530 - Developmental Psychology

Corequisite

Type
Corequisite

Required

Enroll in the following Courses:

- PSY6290 - Diversity Issues in Treatment and Assessment
- PSY6330 - Evidence-Based Practice: School Assessment and Measurement

Course Learning Objectives

Course Learning Outcomes

1. Case conceptualization skills using a variety of models and approaches.

2. Principles of critical thinking and reasoning in the counseling process.

3. Culturally sustaining and responsive strategies for establishing and maintaining counseling relationships across service delivery modalities.

4. Application of technology related to counseling.

5. Counselor characteristics, behaviors, and strategies that facilitate effective counseling relationships.

6. Interviewing, attending, and listening skills in the counseling process.

7. Counseling strategies and techniques used to facilitate the client change process.

8. Strategies for adapting and accommodating the counseling process to client culture, context, abilities, and preferences.

9. Evidence-based counseling strategies and techniques for prevention and intervention.

10. Record keeping and documentation skills.

11. Processes for developing a personal model of counseling.

12. Techniques of social/emotional counseling in school settings.

PSY6775 - Practicum in School Counseling - 3 - Credits

Course Overview

Course Prefix
PSY

Course Number
6775

Department
Psychology

Course Title
Practicum in School Counseling

Grade Mode
Pass/Fail

Repeat Status
NR

Course Description
Supervised practicum in a public school setting under direction of licensed school counselor. Taken by students in the School Counseling master's program.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Admission to the School Counseling - MEd M.Ed. in School Counseling Program.

Other Enrollment Recommendations

- PSY6240 COMPREH SYS SCH COUNSEL PROGM
- PSY6530 DEVELOPMENTAL PSYCHOLOGY
- PSY6460 LEGAL, ETHIC, TRANSITION ISSUE
- PSY6350 INTRO TO INTERVENTION
- PSY6420 GROUP COUNSEL IN THE SCHOOLS
- PSY6390 PROG EVALUATION IN THE SCHOOLS
- PSY6770 PRE-PRACT COUNSEL SKILLS&TECHN

Simple Requisites

Corequisite

Type
Corequisite

Required

Enroll in the following Courses:

- PSY6290 - Diversity Issues in Treatment and Assessment **AND** PSY6580 - Collaborative Classroom Instruction, Leadership and Professional Topics

PSY6780 - Internship in School Counseling - 1 - 10 Credits

Course Overview

Course Prefix
PSY

Course Number
6780

Department
Psychology

Course Title
Internship in School Counseling

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
Internship in approved school system involving comprehensive school counseling activities under supervision of licensed school counselor.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
10

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
10

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
10

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
10

Lecture Hours Operator:
TO

Registration Restrictions

Admission to the School Counseling - MEd program.

Other Enrollment Recommendations

- PSY6130 EV BASED PRAC: SCHOOL INTERVN
- PSY6240 COMPREH SYS SCH COUNSEL PROGM
- PSY6330 EV-BASED PRAC: ASSMT & MEAS
- PSY6340 CONSULTATION IN THE SCHOOLS
- PSY6350 INTRO TO INTERVENTION
- PSY6390 PROG EVALUATION IN THE SCHOOLS
- PSY6420 GROUP COUNSEL IN THE SCHOOLS
- PSY6460 LEGAL, ETHIC, TRANSITION ISSUE
- PSY6530 DEVELOPMENTAL PSYCHOLOGY
- PSY6580 COLLAB CLASS INST, LEADER
- PSY6610 COLLEGE CAREER FOR SCH COUNSEL
- PSY6770 PRE-PRACT COUNSEL SKILLS&TECHN
- PSY6775 PRACT SCHOOL COUNSELING

PSY6810 - Seminar - 1 - 3 Credits

Course Overview

Course Prefix
PSY

Course Number
6810

Department
Psychology

Course Title
Seminar

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Special topics designed to help students develop in-depth knowledge of emerging research, theory, and practice in psychology. Taught in seminar format by USU faculty or visiting scholars.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

No Requirements

PSY6850 - Introduction to the Combined Doctoral Program - 1 - Credits

Course Overview

Course Prefix
PSY

Course Number
6850

Department
Psychology

Course Title
Introduction to the Combined Doctoral Program

Grade Mode
Pass/Fail

Repeat Status
NR

Course Description
This seminar is designed to orient beginning PhD students to the combined program and to the School of Graduate Studies. Opportunity provided for students to meet and talk with all faculty members concerning their research. Students also begin their own research and become acquainted with required paperwork for their program.

Credit Hours

Credit Hours Min:
1

Contact Hours

Contact Hours Min:
1

Billing Hours

Billing Hours Min:
1

Lecture Hours

Lecture Hours Min:
1

No Requirements

PSY6900 - Independent Study - 1 - 3 Credits

Course Overview

Course Prefix
PSY

Course Number
6900

Department
Psychology

Course Title
Independent Study

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
Individual discussion and intensive study of a particular problem or area.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

No Requirements

PSY6910 - Independent Research - 1 - 3 Credits

Course Overview

Course Prefix
PSY

Course Number
6910

Department
Psychology

Course Title
Independent Research

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
Experiments and demonstration projects are conducted and reported.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

No Requirements

PSY6930 - University Teaching Apprenticeship - 1 - Credits

Course Overview

Course Prefix
PSY

Course Number
6930

Department
Psychology

Course Title
University Teaching Apprenticeship

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Prepares graduate students for college teaching. Students learn to prepare study guides, examinations, and lectures, and learn to use audio-visual aids. Students also examine various current methods of instruction and course evaluation schemes.

Credit Hours

Credit Hours Min:
1

Contact Hours

Contact Hours Min:
1

Billing Hours

Billing Hours Min:
1

Lecture Hours

Lecture Hours Min:
1

No Requirements

PSY6950 - Internship in School Psychology - 1 - 3 Credits

Course Overview

Course Prefix
PSY

Course Number
6950

Department
Psychology

Course Title
Internship in School Psychology

Grade Mode
Temporary Standard Letter

Repeat Status
RP

Course Description
Internship in approved school system involving assessment, counseling, consultation, and program development, under the supervision of a certified school psychologist.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

Special Approval

Instructor permission

No Requirements

PSY6970 - Thesis - 1 - 6 Credits

Course Overview

Course Prefix
PSY

Course Number
6970

Department
Psychology

Course Title
Thesis

Grade Mode
Temporary Pass/Fail

Repeat Status
RP

Course Description
This course consists of research for a master's thesis, arranged with the advisor. Credits may vary by semester.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
6

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
6

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
6

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
6

Lecture Hours Operator:
TO

No Requirements

PSY6990 - Continuing Graduate Advisement - 1 - 12 Credits

Course Overview

Course Prefix
PSY

Course Number
6990

Department
Psychology

Course Title
Continuing Graduate Advisement

Grade Mode
Temporary Pass/Fail

Repeat Status
RP

Course Description
This course consists of continuing registration to complete thesis requirements.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
12

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
12

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
12

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
12

Lecture Hours Operator:
TO

No Requirements

PSY7070 - Advanced Measurement Theories and Practice - 3 - Credits

Course Overview

Course Prefix
PSY

Course Number
7070

Department
Psychology

Course Title
Advanced Measurement Theories and Practice

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers classical test theory (CTT), latent state-trait theory (LSTT), and item-response theory (IRT). Students learn how to estimate, evaluate, and interpret measurement models of CTT, LSTT, and IRT in the software Mplus. We also discuss advanced topics in the test validity and test validation literature.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ANY of the following Courses:

- EDUC6600 - Statistical Foundations
  OR PSY6600 - Statistical Foundations

PSY7090 - Experimental and Applied Psychological Science Program Seminar - 1 - Credits

Course Overview

Course Prefix
PSY

Course Number
7090

Department
Psychology

Course Title
Experimental and Applied Psychological Science Program Seminar

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
Provides opportunity for doctoral students in the Experimental and Applied Psychological Science Program to meet on a regular basis to discuss journal articles and explore student and faculty research projects.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

No Requirements

PSY7100 - Biological Basis of Behavior - 3 - Credits

Course Overview

Course Prefix
PSY

Course Number
7100

Department
Psychology

Course Title
Biological Basis of Behavior

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course explores biological and physiological processes underlying behavior. Individual differences, psychological disorders and pharmacological/ nonpharmacological applications are discussed.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

PSY7110 - Cognitive Neuroscience - 3 - Credits

Course Overview

Course Prefix
PSY

Course Number
7110

Department
Psychology

Cross-Listed Courses
BIOL7110 - Cognitive Neuroscience

Course Title
Cognitive Neuroscience

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides an in-depth study of theories, models, and current research in the field of cognitive neuroscience, including memory, perception, problem-solving, and decision making.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Graduate standing, or instructor permission

Special Approval
Instructor permission

PSY7140 - Methods in Neuroscience - 3 - Credits

Course Overview

Course Prefix
PSY

Course Number
7140

Department
Psychology

Cross-Listed Courses
BIOL7140 - Methods in Neuroscience

Course Title
Methods in Neuroscience

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This comprehensive course for graduate students provides an overview of modern neuroscience methods, including molecular and cellular methods, pharmacology, in vivo electrophysiology, optogenetics, imaging and behavioral methods.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ANY of the following Courses:

- PSY6020 - Cellular and Molecular Neuroscience
  OR BIOL4450 - Neurobiology

PSY7200 - School Mental Health II: Intervention - 3 - Credits

Course Overview

Course Prefix
PSY

Course Number
7200

Department
Psychology

Course Title
School Mental Health II: Intervention

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course Instructs in school-based mental health services from the perspective of school psychology. This course specifically focuses on conceptual frameworks, prevention and intervention purposes, and methods used in school-based mental health services.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- PSY6440 - Legal and Ethical Issues in the Schools
- PSY6450 - Introduction to School Psychology

Course Learning Objectives

Course Learning Outcomes
1. Understand the warrant for school-based mental health services.

2. Understand and apply the conceptual frameworks that guide school-based mental health services.

3. Understand the purposes of prevention and intervention within school-based mental health services.

4. Select and administer appropriate prevention and intervention methods to inform each of the different purposes of school-based mental health services.

5. Understand the strengths and limitations of different prevention and intervention methods used in school-based mental health services.

6. Effectively interpret and communicate results from prevention and intervention methods used for different purposes in school-based mental health services.

PSY7250 - Professional Ethics and Standards - 1 - 3 Credits

Course Overview

Course Prefix
PSY

Course Number
7250

Department
Psychology

Course Title
Professional Ethics and Standards

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Designed to train clinicians and researchers in the field of psychology to operate within the professional ethics and standards of the field.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

No Requirements

PSY7270 - Lifespan Psychopathology - 3 - Credits

Course Overview

Course Prefix
PSY

Course Number
7270

Department
Psychology

Course Title
Lifespan Psychopathology

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Summarizes research on risk, epidemiology, and etiological perspectives regarding emotional and behavioral disorders of children, adolescents, and adults. Emphasizes classification and diagnosis of these disorders utilizing the DSM system.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

PSY7350 - Integrated Practicum with Adults, Adolescents, and Children - 3 - Credits

Course Overview

Course Prefix
PSY

Course Number
7350

Department
Psychology

Course Title
Integrated Practicum with Adults, Adolescents, and Children

Grade Mode
Temporary Standard Letter

Repeat Status
RP

Course Description
Doctoral-level practicum in a community setting. Supervised experience with evidence-based practice applied to diverse clients, including adults, adolescents, and children. Appropriate assessment, intervention, and consultation relevant to diverse clients and problems.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Special Approval
Permission of program chair

No Requirements

PSY7360 - Practicum in Clinical Child/School Psychology - 3 - Credits

Course Overview

Course Prefix
PSY

Course Number
7360

Department
Psychology

Course Title
Practicum in Clinical Child/School Psychology

Grade Mode
Temporary Standard Letter

Repeat Status
RP

Course Description
Doctoral-level practicum in a school or related setting, focused on intervention with children and adolescents. Supervised experience in developmental, emotional, and/or school-related problems. Includes assessment and consultation with teachers, parents, and others.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Special Approval

Permission of program chair

No Requirements

PSY7370 - Practicum in Counseling/Clinical Psychology - 3 - Credits

Course Overview

Course Prefix
PSY

Course Number
7370

Department
Psychology

Course Title
Practicum in Counseling/Clinical Psychology

Grade Mode
Temporary Standard Letter

Repeat Status
RP

Course Description
Doctoral-level practicum in a clinical/counseling setting, focused on intervention with young adult and adult populations. Supervised experience in individual, group, and/or family intervention. Includes psychological assessment and consultation with relevant individuals.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Special Approval

Permission of program chair

No Requirements

PSY7380 - Practicum in Psychology - 1 - 6 Credits

Course Overview

Course Prefix
PSY

Course Number
7380

Department
Psychology

Course Title
Practicum in Psychology

Grade Mode
Temporary Standard Letter

Repeat Status
RP

Course Description
Doctoral-level practicum in a variety of health service settings. Supervised experience in individual, group, and family psychotherapy assessment and consultation as needed.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
6

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
6

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
6

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
6

Lecture Hours Operator:
TO

Special Approval
Permission of program chair

No Requirements

PSY7390 - Externship in Adult Clinical/ Counseling Psychology - 1 - Credits

Course Overview

Course Prefix
PSY

Course Number
7390

Department
Psychology

Course Title
Externship in Adult Clinical/Counseling Psychology

Grade Mode
Temporary Standard Letter

Repeat Status
RP

Course Description
Students in the course are engaged in applied training experiences (generally paid) across a variety of practice settings focused on adult assessment and/or intervention. Student goals and objectives are developed individually with program faculty and on-site supervisors. Students must complete a competency evaluation form with their supervisor and submit their contact hours (direct, indirect, and supervision) to receive a grade in the course.

Credit Hours

Credit Hours Min:
1

Contact Hours

Contact Hours Min:
1

Billing Hours

Billing Hours Min:
1

Lecture Hours

Lecture Hours Min:
1

Special Approval
Approval of Combined Clinical/Counseling Program faculty.

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- PSY7350 - Integrated Practicum with Adults, Adolescents, and Children

(On rare occasion, students may take the course while enrolled in PSY7350 PRACT W/ADULT, ADOLES, CHILD with combined faculty approval)

PSY7395 - Externship in Child/Adolescent Psychology - 1 - Credits

Course Overview

Course Prefix
PSY

Course Number
7395

Department
Psychology

Course Title
Externship in Child/Adolescent Psychology

Grade Mode
Temporary Standard Letter

Repeat Status
RP

Course Description
Students in the course are engaged in applied training experiences (generally paid) across a variety of practice settings focused on child and/or adolescent assessment and/or intervention. Student goals and objectives are developed individually with program faculty and on-site supervisors. Students must complete a competency evaluation form with their supervisor and submit their contact hours (direct, indirect, and supervision) to receive a grade in the course.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Special Approval
Approval of combined Clinical/Counseling Program faculty.

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- PSY7350 - Integrated Practicum with Adults, Adolescents, and Children

(On rare occasion, students may take the course while enrolled in PSY7350 PRACT W/ADULT, ADOLES, CHILD with combined faculty approval.)

PSY7530 - Advanced Developmental Psychology - 3 - Credits

Course Overview

Course Prefix
PSY

Course Number
7530

Department
Psychology

Course Title
Advanced Developmental Psychology

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
In-depth study of theories, models, and current research in the field of developmental psychology, including memory, perception, language, and social development.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

PSY7540 - Advanced Cognition and Development - 3 - Credits

Course Overview

Course Prefix
PSY

Course Number
7540

Department
Psychology

Course Title
Advanced Cognition and Development

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides a survey of human cognition and development over the lifespan and its cultural context.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Demonstrate understanding of a framework for organizing and applying cognitive and developmental principles.

2. Examine controversies in cognitive and developmental science.

3. Explain the influence of nature and nurture on the development of cognition and behavior.

4. Compare and contrast theories of development and cognition.

5. Apply developmental principles to enhance some area of human performance, cognition, and/or adaptability.

PSY7550 - Multicultural Perspectives on Social Development - 3 - Credits

Course Overview

Course Prefix
PSY

Course Number
7550

Department
Psychology

Course Title
Multicultural Perspectives on Social Development

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students engage with the core content areas of developmental psychology and social psychology in an integrated and advanced way by applying a multicultural lens to a circumscribed list of topics.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- PSY6510 - Social Psychology
- PSY7540 - Advanced Cognition and Development

Course Learning Objectives

Course Learning Outcomes

1. Students will engage with the core content areas of developmental psychology and social psychology in an integrated and advanced way by applying a multicultural lens to a circumscribed list of topics.

PSY7610 - Regression Analysis - 3 - Credits

Course Overview

Course Prefix
PSY

Course Number
7610

Department
Psychology

Cross-Listed Courses
EDUC7610 - Regression Analysis

Course Title
Regression Analysis

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course is an advanced treatment of research design and statistical concepts and issues in educational, human-services, and psychological research.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete at least 1 of the following courses:

- EDUC6600 - Statistical Foundations
  OR PSY6600 - Statistical Foundations

PSY7630 - Supervision and Consultation in Applied Psychology - 1 - Credits

Course Overview

Course Prefix
PSY

Course Number
7630

Department
Psychology

Course Title
Supervision and Consultation in Applied Psychology

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Introduces knowledge foundations of clinical supervision, as well as consultation theories and models in diverse settings. Discusses ethical, legal, and evaluation issues. Focuses on exposure to a knowledge base, rather than on applied practice.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Registration Restrictions
Admission to one of the following:

- School Psychology
- Combined Psychology program

No Requirements

PSY7650 - Multilevel and Marginal Models for the Social Sciences - 3 - Credits

Course Overview

Course Prefix
PSY

Course Number
7650

Department
Psychology

Course Title
Multilevel and Marginal Models for the Social Sciences

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Coverage of multilevel (ie, mixed-effects, hierarchical linear) and marginal (ie, GEE) models for both continuous and categorical outcomes. Includes application of these methods to many types of cross-sectional and longitudinal research designs (eg, experimental, case-control, cohort, cross-over, complex sample, randomized controlled trials).

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ANY of the following Courses:

- PSY7610 - Regression Analysis
  OR EDUC7610 - Regression Analysis

PSY7670 - Literature Reviews in Education and Psychology - 2 - Credits

Course Overview

Course Prefix
PSY

Course Number
7670

Department
Psychology

Cross-Listed Courses
EDUC7670 - Literature Reviews in Education and Psychology

Course Title
Literature Reviews in Education and Psychology

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Advanced concepts in designing, writing, and critiquing literature reviews.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

PSY7700 - Grant Writing - 3 - Credits

Course Overview

Course Prefix
PSY

Course Number
7700

Department
Psychology

Course Title
Grant Writing

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students learn to identify funding sources, select strategies for seeking resources, and write proposals for research, development, training, and service activities in education, psychology, and related fields.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ANY of the following Courses:

- PSY6560 - Introduction to Educational and Psychological Research
  OR EDUC6570 - Introduction to Educational and Psychological Research

PSY7740 - Behavioral Pharmacology - 3 - Credits

Course Overview

Course Prefix
PSY

Course Number
7740

Department
Psychology

Course Title
Behavioral Pharmacology

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers the history and scope of behavioral pharmacology, which is the synthesis of the experimental analysis of behavior and pharmacology. Topics include drugs and drug abuse, foundations and methodology, and current issues.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

PSY7750 - Behavioral Economics - 3 - Credits

Course Overview

Course Prefix
PSY

Course Number
7750

Department
Psychology

Course Title
Behavioral Economics

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
A survey of major findings in the broad field of behavioral economics. Topics range from essential value derivations from consumer demand functions, to Prospect Theory, to intertemporal choice.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

PSY7760 - Structural Equation Modeling - 3 - Credits

Course Overview

Course Prefix
PSY

Course Number
7760

Department
Psychology

Course Title
Structural Equation Modeling

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers matrix algebra, path analysis, statistical mediation, exploratory and confirmatory factor analysis, latent variable structural equation modeling, the analysis of multiple groups, and statistical power analysis.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ANY of the following Courses:

- EDUC7610 - Regression Analysis
  OR PSY7610 - Regression Analysis

PSY7770 - Longitudinal Data Analysis - 3 - Credits

Course Overview

Course Prefix
PSY

Course Number
7770

Department
Psychology

Course Title
Longitudinal Data Analysis

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers various statistical models for repeated measures data, including longitudinal confirmatory factor analysis, state trait models, autoregressive/ crosslagged models, change score models, growth curve models, dynamic structural equation modeling with applications in the Mplus software, and missing data.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- PSY7760 - Structural Equation Modeling

PSY7810 - Seminar - 1 - 3 Credits

Course Overview

Course Prefix
PSY

Course Number
7810

Department
Psychology

Course Title
Seminar

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Special topics designed to help students develop in-depth knowledge of emerging research, theory, and practice in psychology. Taught in seminar format by USU faculty or visiting scholars.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

No Requirements

PSY7820 - Neuropsychology: Principles and Assessment - 2 - 4 Credits

Course Overview

Course Prefix
PSY

Course Number
7820

Department
Psychology

Course Title
Neuropsychology: Principles and Assessment

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course explores neuropsychological symptoms, common syndromes, and involved neuroanatomy/neuropathology. Coverage includes approaches for assessment and diagnostic issues as well as treatment and rehabilitation.

Credit Hours

Credit Hours Min:
2

Credit Hours Max:
4

Credit Hours Operator:
OR

Contact Hours

Contact Hours Min:
2

Contact Hours Max:
4

Contact Hours Operator:
OR

Billing Hours

Billing Hours Min:
2

Billing Hours Max:
4

Billing Hours Operator:
OR

Lecture Hours

Lecture Hours Min:
2

Lecture Hours Max:
4

Lecture Hours Operator:
OR

No Requirements

PSY7830 - Mechanisms of Neuropsychiatric Disease - 3 - Credits

Course Overview

Course Prefix
PSY

Course Number
7830

Department
Psychology

Cross-Listed Courses
BIOL7830 - Mechanisms of Neuropsychiatric Disease

Course Title
Mechanisms of Neuropsychiatric Disease

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course discusses the clinical presentation and current therapeutical approaches for brain disorders in the context of neurobiology, neuropsychology, imaging and genetics.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

PSY7840 - Psychopharmacology - 1 - Credits

Course Overview

Course Prefix
PSY

Course Number
7840

Department
Psychology

Course Title
Psychopharmacology

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Provides psychology graduate students with basic working knowledge of the field of psychopharmacology and the medical use of psychotropic drugs.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- PSY6320 - Objective Assessment of Personality and Affect

PSY7850 - Internship and Professional Development Seminar - 1 - Credits

Course Overview

Course Prefix
PSY

Course Number
7850

Department
Psychology

Course Title
Internship and Professional Development Seminar

Grade Mode
Temporary Pass/Fail

Repeat Status
NR

Course Description
Advanced orientation to issues and trends in professional psychology. Internship, including application process. Also overviews remaining program requirements. Focuses on continuing development of good professional decision-making skills.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

No Requirements

PSY7900 - Independent Study - 1 - 3 Credits

Course Overview

Course Prefix
PSY

Course Number
7900

Department
Psychology

Course Title
Independent Study

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
Individual discussion and intensive study of a particular problem or area.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

No Requirements

PSY7910 - Independent Research - 1 - 3 Credits

Course Overview

Course Prefix
PSY

Course Number
7910

Department
Psychology

Course Title
Independent Research

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
Experiments and demonstration projects are conducted and reported.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

No Requirements

PSY7950 - Internship in Professional Psychology - - Credits

Course Overview

Course Prefix
PSY

Course Number
7950

Department
Psychology

Course Title
Internship in Professional Psychology

Grade Mode
Temporary Pass/Fail

Repeat Status
RP

Course Description
One-year, supervised, full-time internship required of doctoral candidates in professional psychology (clinical, counseling, and/or school psychology).

Credit Hours

Credit Hours Min:
0

Contact Hours

Contact Hours Min:
0

Billing Hours

Billing Hours Min:
0

Lecture Hours

Lecture Hours Min:
0

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Requirements
All doctoral coursework completed, with the possible exception of the dissertation if approved by the student's committee, prior to initiating the internship.

PSY7970 - Dissertation - 1 - 18 Credits

Course Overview

Course Prefix
PSY

Course Number
7970

Department
Psychology

Course Title
Dissertation

Grade Mode
Temporary Pass/Fail

Repeat Status
RP

Course Description
This course covers dissertation research for students in the Curriculum and Instruction specialization. Credits may vary by semester.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
18

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
18

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
18

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
18

Lecture Hours Operator:
TO

No Requirements

PSY7990 - Continuing Graduate Advisement - 1 - 12 Credits

Course Overview

Course Prefix
PSY

Course Number
7990

Department
Psychology

Course Title
Continuing Graduate Advisement

Grade Mode
Temporary Pass/Fail

Repeat Status
RP

Course Description
This course consists of continuing registration to complete dissertation requirements.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
12

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
12

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
12

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
12

Lecture Hours Operator:
TO

No Requirements

PSYDIVE - Psychology Diversity and Inclusivity Courses - 3 - Credits

Course Overview

Course Prefix
PSY

Course Number
DIVE

Department
Psychology

Course Title
Psychology Diversity and Inclusivity Courses

Grade Mode
Non-gradable

Repeat Status
RP

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

PSYMAJR - Psychology Major Elective Courses - 3 - Credits

Course Overview

Course Prefix
PSY

Course Number
MAJR

Department
Psychology

Course Title
Psychology Major Elective Courses

Grade Mode
Non-gradable

Repeat Status
RP

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

PSYRESE - Psychology Research Core Courses - 4 - Credits

Course Overview

Course Prefix
PSY

Course Number
RESE

Department
Psychology

Course Title
Psychology Research Core Courses

Grade Mode
Non-gradable

Repeat Status
RP

Credit Hours

Credit Hours
Min:
4

Contact Hours

Contact Hours
Min:
4

Billing Hours

Billing Hours
Min:
4

Lecture Hours

Lecture Hours
Min:
4

No Requirements

PUBH3120 - Family and Community Health - 3 - Credits

Course Overview

Course Prefix
PUBH

Course Number
3120

Department
Biology

Course Title
Family and Community Health

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Focuses on health aspects of various population groups within the community. Particular emphasis placed on guidelines for optimal family health.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

PUBH3310 - Occupational Health and Safety - 3 - Credits

Course Overview

Course Prefix
PUBH

Course Number
3310

Department
Biology

Course Title
Occupational Health and Safety

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Covers the principles of occupational health and safety, including regulatory standards. Emphasizes on-the-job health and safety problems from the occupational health and safety professional and management view.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

PUBH3510 - Essentials of Environmental Health - 3 - Credits

Course Overview

Course Prefix
PUBH

Course Number
3510

Department
Biology

Course Title
Essentials of Environmental Health

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course will introduce students in public health and related health science fields to environmental health, from terminology, potential impact of environmental health on humans, epidemiologic tools used, and the impact of specific regulation, monitoring and surveillance.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Other Enrollment Recommendations
BIOL1610 BIOLOGY I, CHEM1210 PRIN OF CHEMISTRY I

Course Learning Objectives

Course Learning Outcomes
1. Gain factual knowledge (facts, terms, methods, trends) about major aspects of environmental health ranging from different exposures associated with waste, air, water, workplace, and infectious diseases.
2. Learn basic principles, generalizations, and theories about environmental health exposures and how to control and prevent acute and chronic human exposures, as well as to reduce/limit environmental contaminants.
3. Develop skills, competencies, regulatory understanding, and views valuable for careers in public health and environmental health.

PUBH3610 - Environmental Management - 3 - Credits

Course Overview

Course Prefix
PUBH

Course Number
3610

Department
Biology

Cross-Listed Courses
CEE3610 - Environmental Management

Course Title
Environmental Management

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides an introduction to environmental health, emphasizing relationships among environmental quality, public health, environmental and occupational health regulations, human health risk assessment, institutions, and engineered systems in environmental health management.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:
- CHEM1210 - Principles of Chemistry I
- CHEM1210 - Principles of Chemistry I

Required

May be fulfilled by coursework, course with a Breadth Life Sciences (BLS) attribute, or qualifying AP exam score.

Fulfill ANY of the following requirements:

Coursework

Complete ALL of the following Courses:

- BIOL1610 - Biology I

OR

OR

Breadth Life Science (BLS) course

Complete ANY of the following Course Sets:

- Breadth Life Sciences (BLS) Course

OR

OR

Exam

AP Exam score of 3 or higher

- AP Biology score
- AP Environmental Science

PUBH4000 - Public Health Internship - 3 - 6 Credits

Course Overview

Course Prefix
PUBH

Course Number
4000

Department
Biology

Course Title
Public Health Internship

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This is an internship for the practice of public health with an emphasis in either public health education or environmental health.

Credit Hours

Credit Hours Min:
3

Credit Hours Max:
6

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
3

Contact Hours Max:
6

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
3

Billing Hours Max:
6

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
3

Lecture Hours Max:
6

Lecture Hours Operator:
TO

Registration Restrictions

Junior standing in the Public Health - BS program

No Requirements

PUBH4030 - Communicable Disease Control - 3 - Credits

Course Overview

Course Prefix
PUBH

Course Number
4030

Department
Biology

Cross-Listed Courses
BIOL4030 - Communicable Disease Control

Course Title
Communicable Disease Control

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course consists of a comprehensive study of communicable diseases. Topics include etiological agents, reservoirs of infection, and mechanisms of transmission, control, and prevention.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ANY of the following Courses:

- BIOL1610 - Biology I
  OR BIOL2060 - Elementary Microbiology
  OR BIOL2420 - Human Physiology

PUBH4040 - Fundamentals of Epidemiology - 3 - Credits

Course Overview

Course Prefix
PUBH

Course Number
4040

Department
Biology

Cross-Listed Courses
BIOL4040 - Fundamentals of Epidemiology

Course Title
Fundamentals of Epidemiology

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides an introduction to the study of the distribution and causes of communicable and noncommunicable diseases in humans and other animals.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Other Enrollment Recommendations
A course in statistics is recommended

No Requirements

PUBH4200 - Public Health Seminar - 1 - Credits

Course Overview

Course Prefix
PUBH

Course Number
4200

Department
Biology

Course Title
Public Health Seminar

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Students participate in a seminar on current problems in public health.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

No Requirements

PUBH4300 - Industrial Hygiene Seminar - 1 - Credits

Course Overview

Course Prefix
PUBH

Course Number
4300

Department
Biology

Course Title
Industrial Hygiene Seminar

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Participant seminar on current developments in industrial hygiene.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Registration Restrictions

Admission to the Public Health - BS program

No Requirements

PUBH4310 - Industrial Hygiene Recognition of Hazards - 4 - Credits

Course Overview

Course Prefix
PUBH

Course Number
4310

Department
Biology

Course Title
Industrial Hygiene Recognition of Hazards

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Through classroom and field experiences, provides an introduction to industrial hazards and familiarizes students with manufacturing and industrial processes in which industrial hygienists commonly work.

Credit Hours

Credit Hours
Min:
4

Contact Hours

Contact Hours
Min:
4

Billing Hours

Billing Hours
Min:
4

Lecture Hours

Lecture Hours
Min:
4

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- PUBH3310 - Occupational Health and Safety

may be taken concurrently

PUBH4320 - Industrial Hygiene Chemical Hazard Evaluation - 3 - Credits

Course Overview

Course Prefix
PUBH

Course Number
4320

Department
Biology

Course Title
Industrial Hygiene Chemical Hazard Evaluation

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This is a survey of principles and methods used to evaluate industrial chemical health hazards and includes practical application in a field sampling project. There are two lectures and one lab.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- PUBH3310 - Occupational Health and Safety

PUBH4330 - Industrial Hygiene Physical Hazards - 3 - Credits

Course Overview

Course Prefix
PUBH

Course Number
4330

Department
Biology

Course Title
Industrial Hygiene Physical Hazards

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Through lectures and labs, covers the potential health effects, methods of exposure evaluation, and principles of control of noise, vibration, heat and cold, and nonionizing and ionizing radiation hazards that can occur in the workplace.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- PUBH3310 - Occupational Health and Safety
  OR PUBH4310 - Industrial Hygiene Recognition of Hazards

PUBH4380 - Industrial Hygiene Internship - 3 - 12 Credits

Course Overview

Course Prefix
PUBH

Course Number
4380

Department
Biology

Course Title
Industrial Hygiene Internship

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Field experience in the practice of industrial hygiene. Participation in an active program serving employees in either the private or public sector.

Credit Hours

Credit Hours Min:
3

Credit Hours Max:
12

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
3

Contact Hours Max:
12

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
3

Billing Hours Max:
12

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
3

Lecture Hours Max:
12

Lecture Hours Operator:
TO

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- PUBH4300 - Industrial Hygiene Seminar

- PUBH4320 - Industrial Hygiene Chemical Hazard Evaluation
- PUBH4330 - Industrial Hygiene Physical Hazards

PUBH4410 - Industrial Safety - 3 - Credits

Course Overview

Course Prefix
PUBH

Course Number
4410

Department
Biology

Course Title
Industrial Safety

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Through lectures, demonstrations, and hands-on activities, covers recognition and control of industrial safety hazards (including power tools, fire, electricity, excavations, confined spaces, and falls), material handling, process safety, protective equipment, safety promotion and training, and standards and programs.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

PUBH4850 - Special Topics in Public Health - 1 - 3 Credits

Course Overview

Course Prefix
PUBH

Course Number
4850

Department
Biology

Course Title
Special Topics in Public Health

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course allows an exploration of topics that are not part of the standard curriculum.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

Registration Restrictions
Junior standing in Public Health

No Requirements

PUBH5330 - Industrial Hygiene Chemical Hazard Control (QI) - 3 - Credits

Course Overview

Course Prefix
PUBH

Course Number
5330

Department
Biology

Course Title
Industrial Hygiene Chemical Hazard Control (QI)

General Education Attribute
QI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers methods to control chemical occupational health hazards, with an emphasis on the function, design, and management of local exhaust ventilation. There are three lectures and one lab.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- MATH1210 - Calculus I (QL)
- PUBH4310 - Industrial Hygiene Recognition of Hazards

PUBH5400 - Environmental Toxicology - 3 - Credits

Course Overview

Course Prefix
PUBH

Course Number
5400

Department
Biology

Cross-Listed Courses
BIOL5400 - Environmental Toxicology

Dual-Listed Courses
PUBH6400 - Environmental Toxicology

Course Title
Environmental Toxicology

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course presents an in-depth survey of toxic chemicals present in the environment, environmental factors impacting fate of chemicals, potential biological effects associated with chemical exposures, and methods of defining and reducing associated risks. Additional course work is required for those enrolled in the graduate level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- CHEM1220 - Principles of Chemistry II (BPS)
- BIOL1620 - Biology II (BLS)
- CHEM2300 - Principles of Organic Chemistry

(or higher)

PUBH5500 - Public Health Management (CI) - 2 - Credits

Course Overview

Course Prefix
PUBH

Course Number
5500

Department
Biology

Course Title
Public Health Management (CI)

General Education Attribute
CI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Presentation of basic organizational and financial management tools that students will utilize in written and oral reports on an educational, environmental, or occupational health problem of their choice.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- PUBH4000 - Public Health Internship
  OR PUBH4380 - Industrial Hygiene Internship

PUBH5670 - Hazardous Chemicals Handling and Safety - 2 - Credits

Course Overview

Course Prefix
PUBH

Course Number
5670

Department
Biology

Cross-Listed Courses
CEE5670 - Hazardous Chemicals Handling and Safety

Course Title
Hazardous Chemicals Handling and Safety

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Provides students with necessary skills and knowledge for working safely in areas associated with hazardous chemicals. Topics covered include: regulations, exposure routes, toxicology, chemical and physical hazards, personal protective equipment, sampling, monitoring, decontamination, and emergency response procedures.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- CHEM1210 - Principles of Chemistry I

PUBH5730 - Environmental Chemistry of Organic Contaminants - 3 - Credits

Course Overview

Course Prefix
PUBH

Course Number
5730

Department
Biology

Cross-Listed Courses
CEE5730 - Environmental Chemistry of Organic Contaminants

Dual-Listed Courses
PUBH6730 - Environmental Chemistry of Organic Contaminants

Course Title
Environmental Chemistry of Organic Contaminants

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Provides students with understanding of methods used in analysis of environmental samples for organic contaminants. Examines various properties and processes determining the fate of organic contaminants in the environment.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Earn a minimum grade of C- in the following:

- CHEM1210 - Principles of Chemistry I
- CHEM1215 - Chemical Principles Laboratory I

PUBH5790 - Accident and Emergency Management - 3 - Credits

Course Overview

Course Prefix
PUBH

Course Number
5790

Department
Biology

Cross-Listed Courses
CEE5790 - Accident and Emergency Management

Course Title
Accident and Emergency Management

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Introduction to fundamentals of accident, hazard, and emergency management. Topics include legislation; chemical safety fundamentals; fire, explosion, and spill fundamentals; contaminant air transport fundamentals; hazard and risk assessment; dispersion applications; and hazard and risk management applications.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- CHEM1220 - Principles of Chemistry II (BPS)

PUBH6400 - Environmental Toxicology - 3 - Credits

Course Overview

Course Prefix
PUBH

Course Number
6400

Department
Biology

Cross-Listed Courses
BIOL6400 - Environmental Toxicology

Dual-Listed Courses
PUBH5400 - Environmental Toxicology

Course Title
Environmental Toxicology

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course presents an in-depth survey of toxic chemicals present in the environment, environmental factors impacting fate of chemicals, potential biological effects associated with chemical exposures, and methods of defining and reducing associated risks. Additional course work is required for those enrolled in the graduate level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- CHEM1220 - Principles of Chemistry II (BPS)
- BIOL1620 - Biology II (BLS)
- CHEM2300 - Principles of Organic Chemistry

(or higher)

PUBH6730 - Environmental Chemistry of Organic Contaminants - 3 - Credits

Course Overview

Course Prefix
PUBH

Course Number
6730

Department
Biology

Cross-Listed Courses
CEE6730 - Environmental Chemistry of Organic Contaminants

Dual-Listed Courses
PUBH5730 - Environmental Chemistry of Organic Contaminants

Course Title
Environmental Chemistry of Organic Contaminants

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Provides students with understanding of methods used in analysis of environmental samples for organic contaminants. Examines various properties and processes determining the fate of organic contaminants in the environment. Taught first half of fall semester.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Earn a minimum grade of C- in the following:

- CHEM1210 - Principles of Chemistry I
- CHEM1215 - Chemical Principles Laboratory I

RAM1000 - Introduction to Recreation Services - 2 - Credits

Course Overview

Course Prefix
RAM

Course Number
1000

Department
Kinesiology and Health Science

Course Title
Introduction to Recreation Services

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces the conceptual foundations of play, recreation, and leisure, as well as the history and current trends of the profession. Provides insight into the careers offered within the recreation services industry.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

No Requirements

Course Learning Objectives

Course Learning Outcomes
1. Explain the foundational concepts, history, and philosophy of play, recreation, and leisure.

2. Describe the major sectors and career opportunities within the recreation services industry.

3. Assess personal interests, strengths, and values in relation to professional roles in recreation.

4. Recognize current trends and professional expectations shaping the recreation and leisure field.

RAM1500 - Leisure and Human Behavior (BSS) - 3 - Credits

Course Overview

Course Prefix
RAM

Course Number
1500

Department
Kinesiology and Health Science

Course Title
Leisure and Human Behavior (BSS)

General Education Attribute
BSS

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces leisure from historical and contemporary perspectives. Students explore the forces shaping leisure behavior, and relationships among leisure, the environment, and social institutions. Special attention is given to the role of leisure in individual health and wellness.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes
1. Describe the historical and contemporary perspectives that have shaped leisure in society.

2. Explain how social, cultural, and environmental forces influence leisure behavior.

3. Analyze the relationships among leisure, work, community, and social institutions.

4. Discuss the role of leisure in promoting individual health, wellness, and quality of life.

RAM1700 - Backcountry Basics: Designing a Backcountry Experience - 3 - Credits

Course Overview

Course Prefix
RAM

Course Number
1700

Department
Kinesiology and Health Science

Course Title
Backcountry Basics: Designing a Backcountry Experience

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces the development of backcountry programs. Students gain an understanding of backcountry equipment, trip planning and organization, instruction of basic camping skills, implementation of safety procedures and group management on backcountry trips.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Course Learning Objectives

Course Learning Outcomes

1. Develop comprehensive trip plans that include equipment lists, food systems, navigation routes, and risk-management protocols appropriate for multi-day travel.

2. Safely set up shelters, prepare meals, manage hydration, and maintain health and hygiene in wilderness environments.

3. Lead peers in backcountry settings using effective communication, decision-making, and facilitation techniques aligned with the four OAL principles: challenge yourself, inspire others, lead boldly, and cultivate connection.

4. Integrate Leave No Trace and emerging “wilding” practices into planning and fieldwork, demonstrating respect for natural and cultural landscapes.

5. Use Kolb's Experiential Learning Cycle to analyze field experiences, synthesize insights, and apply lessons to future leadership and life contexts.

RAM1800 - Community Engaged Learning - 1 - 3 Credits

Course Overview

Course Prefix
RAM

Course Number
1800

Department
Kinesiology and Health Science

Course Title
Community Engaged Learning

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Students experience the process and development of their altruistic tendencies. Students must select approved, community-engaged partners. Students become aware of the needs in the community and adopt techniques and practices that are beneficial to the recipient of the service.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Identify community needs and opportunities for service through engagement with local partners.

2. Demonstrate professionalism, empathy, and responsibility in community-engaged settings.

3. Apply techniques and practices that contribute positively to individuals and organizations served.

RAM1888 - Leadership from the Sideline - 2 - Credits

Course Overview

Course Prefix
RAM

Course Number
1888

Department
Kinesiology and Health Science

Course Title
Leadership from the Sideline

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students learn key leadership principles from coaches, administrators, and staff from the USU Athletics Department. Students learn these principles in the classroom and observe them as they are implemented on the sidelines during practices and games.

Credit Hours

Credit Hours Min:
2

Contact Hours

Contact Hours Min:
2

Billing Hours

Billing Hours Min:
2

Lecture Hours

Lecture Hours Min:
2

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Students will develop an understanding of the key leadership principles in Sport Management.

2. Students will evaluate how those principles are operationalized on and off the playing field.

3. Students will understand the organization and structure of a large NCAA Athletic Department.

RAM1964 - Recreation on the Road Consortium - 3 - Credits

Course Overview

Course Prefix
RAM

Course Number
1964

Department
Kinesiology and Health Science

Course Title
Recreation on the Road Consortium

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
In this class, students have the opportunity to network with professionals in a variety of professional settings (i.e., professional conferences, facility tours, volunteer experiences, etc.). Students are expected to comport themselves as future recreation service professionals.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Be exposed to new and diverse practitioners, facilities, and organizations.

2. Be able to communicate professionally with a variety of experts in our field.

3. Have an understanding of current trends and best practices in our field.

4. Expand their professional networks.

RAM2000 - Recreational Sport Management - 3 - Credits

Course Overview

Course Prefix
RAM

Course Number
2000

Department
Kinesiology and Health Science

Course Title
Recreational Sport Management

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course is designed to explore and examine the theoretical foundations and basic skills, methods, and techniques necessary for effective and efficient design and delivery of recreational sports programs within a variety of collegiate, public, quasi-public, and private organizations.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Understand the different ways in which analytics are used in sport.

2. Discuss and analyze different types of data used in sport.

3. Identify the different analytic approaches used in sport.

4. Understand how analytics may better inform sport organizations' decision-making.

5. Identify and apply descriptive analytics to advance sport business.

RAM2200 - Introduction to Sport Analytics - 3 - Credits

Course Overview

Course Prefix
RAM

Course Number
2200

Department
Kinesiology and Health Science

Course Title
Introduction to Sport Analytics

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Explore the different ways in which statistical analyses are applied in the sport industry. This course introduces techniques for evaluating player and team performance, predicting outcomes, and making data-driven decisions for on-field performance and off-field business needs.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Course Learning Objectives

Course Learning Outcomes

1. Understand the different ways in which analytics are used in sport.

2. Discuss and analyze different types of data used in sport.

3. Identify the different analytic approaches used in sport.

4. Understand how analytics may better inform sport organizations' decision-making.

5. Identify and apply descriptive analytics to advance sport business.

RAM2250 - RAM Cooperative Work Experience - 4 - Credits

Course Overview

Course Prefix
RAM

Course Number
2250

Department
Kinesiology and Health Science

Course Title
RAM Cooperative Work Experience

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides practical and educational work and/or volunteer opportunities to gain professional experience prior to completing the Recreation Administration (RAM) internship.

Credit Hours

Credit Hours
Min:
4

Contact Hours

Contact Hours
Min:
4

Billing Hours

Billing Hours
Min:
4

Lecture Hours

Lecture Hours
Min:
4

Course Learning Objectives

Course Learning Outcomes

1. Demonstrate Professional Competence

Apply workplace communication, leadership, and organizational skills within a recreation, parks, events, sports, or outdoor leadership setting.

2. Connect Academic Learning to Practice

Integrate theoretical concepts from recreation administration coursework into applied professional experiences.

3. Engage in Reflective Learning and Growth

Use structured reflection and supervisor feedback to assess performance, identify strengths, and set goals for continued development.

4. Explore Career Pathways in Recreation Administration

Gain exposure to the breadth of the recreation industry, including public, nonprofit, and private-sector roles.

5. Model Ethical and Responsible Practice

Demonstrate integrity, accountability, and professionalism consistent with the values of the recreation and parks profession.

RAM2300 - Fundamentals of Sport Management - 3 - Credits

Course Overview

Course Prefix
RAM

Course Number
2300

Department
Kinesiology and Health Science

Course Title
Fundamentals of Sport Management

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course explores the unique nature of the sport industry. Students are introduced to the various sport industry segments and investigate the academic areas comprising sport management discipline. Students focus on professional development and best practices to obtain employment in the field.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Appraise the significance of sport in today's society.

2. Examine the size and scope of the sport industry and its many segments.

3. Assess the various governance structures within the sport industry.

4. Analyze the general philosophical principles influencing the management of sport organizations.

5. Critically evaluate the theoretical foundations relevant to the organization and delivery of sport services.

6. Demonstrate how knowledge of basic management skills are critical to the

success of a sport organization.

7. Compare and contrast opposing viewpoints regarding current issues and common ethical dilemmas in sport management.

8. Develop strategies for enhancing professional skills and gaining employment within the field.

RAM2380 - Facility Management - 2 - Credits

Course Overview

Course Prefix
RAM

Course Number
2380

Department
Kinesiology and Health Science

Course Title
Facility Management

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Teaches the student how to properly maintain an athletic field. Students will learn to care for the playing surface and also the grounds around the playing surface. This is a “hands-on” course. Students will meet for a short description on what is to be accomplished each day, and the reminder of class time will be spent working on actual projects.

Credit Hours

Credit Hours Min:
2

Contact Hours

Contact Hours Min:
2

Billing Hours

Billing Hours Min:
2

Lecture Hours

Lecture Hours Min:
2

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Demonstrate proper techniques for maintaining athletic fields and surrounding grounds.

2. Identify tools, materials, and safety procedures used in field and grounds maintenance.

3. Apply best practices for turf care, irrigation, and facility upkeep through hands-on projects.

4. Evaluate field conditions and maintenance outcomes to ensure safety, playability, and appearance.

RAM2500 - Outdoor Recreation Management - 3 - Credits

Course Overview

Course Prefix
RAM

Course Number
2500

Department
Kinesiology and Health Science

Course Title
Outdoor Recreation Management

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Explores philosophy, meaning, and value of outdoor recreation in society. Gives management agency overview. Emphasizes organizing and leading outdoor recreation pursuits.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Interpret Foundational Theories and Philosophies of Outdoor Recreation

Analyze the social, cultural, and ethical meanings of outdoor recreation and their influence on leadership and management practices.

2. Examine Contemporary Management Issues in Outdoor Recreation

Evaluate how policy, land ethics, and public perception affect decision-making in outdoor recreation and leadership contexts.

3. Apply Outdoor Adventure Leadership (OAL) Principles in Practice

Demonstrate how the four OAL principles: Challenge Yourself, Inspire Others, Lead Boldly, and Cultivate Connection, guide responsible leadership and community engagement.

4. Integrate Environmental Ethics and Sustainability Frameworks

Compare and contrast Leave No Trace and Wilding principles to develop a balanced, relational approach to land stewardship.

5. Develop and Articulate a Personal Outdoor Recreation Philosophy

Synthesize readings, experiences, and reflective practices into a coherent philosophy that expresses one's values, leadership style, and vision for the role of outdoor recreation in society.

RAM2600 - Sport Tourism - 3 - Credits

Course Overview

Course Prefix
RAM

Course Number
2600

Department
Kinesiology and Health Science

Course Title
Sport Tourism

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Examines impact of sport tourism on economies, cultures, and communities. This course covers the role of attracting sport tourists to events by studying their motivations, experiences, and behaviors as part of the revenue-generating process. Trends and future directions are investigated.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Course Learning Objectives

Course Learning Outcomes

1. Identify and analyze the economic impacts of sport tourism.

2. Assess the cultural dimensions of sport tourism.

3. Develop effective marketing strategies for promoting sport tourism destinations and events.

4. Demonstrate the ability to plan, manage, and evaluate sport tourism events.

RAM2988 - Special Problems - 1 - 3 Credits

Course Overview

Course Prefix
RAM

Course Number
2988

Department
Kinesiology and Health Science

Course Title
Special Problems

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Individual work approved by instructor. Time and credit to be arranged.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Identify a topic or project relevant to the recreation and leisure field.

2. Develop clear goals, methods, and a plan of work in collaboration with the instructor.

3. Demonstrate self-directed learning and professional responsibility in completing assigned tasks.

4. Communicate outcomes or findings through appropriate written or oral formats.

RAM3000 - Recreation Experience Design I - 3 - Credits

Course Overview

Course Prefix
RAM

Course Number
3000

Department
Kinesiology and Health Science

Course Title
Recreation Experience Design I

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Produces aspects of designing theory-based recreation experiences, utilizing methods, models, marketing, budgets, and evaluation.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Explain key theories and models that guide recreation program design.

2. Develop program plans that incorporate goals, objectives, budgets, and marketing strategies.

3. Implement design methods that create meaningful and engaging participant experiences.

4. Evaluate program effectiveness using appropriate assessment tools and feedback.

RAM3100 - Experience and Sport Promotion and Marketing - 3 - Credits

Course Overview

Course Prefix
RAM

Course Number
3100

Department
Kinesiology and Health Science

Course Title
Experience and Sport Promotion and Marketing

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides a framework for understanding the promotion, marketing, and public relations strategies used in the experience design and sports industries. This uses research, case study analysis, and other opportunities to learn and implement experience and sports marketing strategies.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ANY of the following Courses:

- RAM1000 - Introduction to Recreation Services
  OR RAM2300 - Fundamentals of Sport Management

Course Learning Objectives

Course Learning Outcomes

1. Students will be able to identify the marketing, sports, and experience industry, business terms, concepts, and theories that comprise the fields of marketing and sports, and experience marketing.

2. Develop skills in critical analysis and problem-solving.
3. Understand the unique nature of sports and experience promotion and marketing.
4. Conduct primary and secondary marketing analyses to develop promotion and marketing strategies.
5. Be able to implement various promotion, marketing, and public relations strategies.

RAM3200 - Evaluation of Recreation Services (QI) - 3 - Credits

Course Overview

Course Prefix
RAM

Course Number
3200

Department
Kinesiology and Health Science

Course Title
Evaluation of Recreation Services (QI)

General Education Attribute
QI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Examines methods and practical applications of evaluation utilized in recreation services.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Fulfill ALL of the following requirements:

Required

Complete ALL of the following Courses:

- RAM1000 - Introduction to Recreation Services
- RAM3000 - Recreation Experience Design I

AND

Required

Complete ALL of the following Course Sets:

- Quantitative Literacy (QL) Course

Course Learning Objectives

Course Learning Outcomes

1. Explain the purpose and importance of evaluation in recreation and leisure services.

2. Design basic evaluation plans using appropriate methods and tools.

3. Collect and analyze data to assess program effectiveness and participant outcomes.

4. Interpret and communicate evaluation results to support decision-making and program improvement.

RAM3300 - Sport Marketing Design - 3 - Credits

Course Overview

Course Prefix
RAM

Course Number
3300

Department
Kinesiology and Health Science

Course Title
Sport Marketing Design

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Learn to design engaging campaigns, develop brand strategies, and leverage digital media to enhance fan experience and team loyalty. Gain hands-on experience with industry tools and techniques to create marketing materials for sport organizations.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Course Learning Objectives

Course Learning Outcomes

1. Produce compelling visual content for various platforms.

2. Design and implement a comprehensive marketing campaign that engages fans, increases brand awareness, and drives revenue for sport organizations.

3. Evaluate current marketing trends and consumer behavior in the sport industry to inform design decisions.

RAM3400 - Outdoor Education and Facilitation - 3 - Credits

Course Overview

Course Prefix
RAM

Course Number
3400

Department
Kinesiology and Health Science

Course Title
Outdoor Education and Facilitation

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This class is an orientation into outdoor adventure education, facilitation, and experiential learning through an interactive environment. Students develop and implement lesson and program plans emphasizing learning methods, teaching, leadership styles, and risk management for youth-adult programs.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Course Learning Objectives

Course Learning Outcomes

1. Demonstrate Foundational Knowledge of Outdoor Education and Facilitation

Explain the history, philosophy, and professional standards guiding outdoor education and experiential learning.

2. Plan and Deliver Effective Outdoor Learning Experiences

Design and implement lesson and program plans that integrate teaching methods, facilitation skills, and risk management principles.

3. Apply Facilitation and Leadership Techniques

Practice varied facilitation approaches that foster engagement, inclusion, and personal growth in outdoor learning environments.

4. Integrate the Outdoor Adventure Leadership (OAL) Core Values

Challenge themselves, inspire others, lead boldly, and cultivate connection through teaching, teamwork, and reflection.

5. Reflect on Personal Growth as an Outdoor Educator

Use an experiential learning framework (Kolb's Experiential Learning Cycle) to evaluate learning and professional development.

RAM3900 - Civic Engagement in Recreation and Sports - 3 - Credits

Course Overview

Course Prefix
RAM

Course Number
3900

Department
Kinesiology and Health Science

Course Title
Civic Engagement in Recreation and Sports

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course explores civic engagement through recreation and sport. Students examine community needs, participation trends, and strategies for developing responsive programs across various settings.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Course Learning Objectives

Course Learning Outcomes

1. Explain the role of recreation and sport in promoting civic engagement and community well-being.

2. Identify strategies for building inclusive and equitable recreation and sport programs that serve diverse populations.

3. Apply principles of leadership, ethics, and service through community-based projects or partnerships.

4. Reflect on personal and professional responsibilities in fostering social connection and civic participation through recreation and sport.

RAM4000 - Experience and Event Design - 3 - Credits

Course Overview

Course Prefix
RAM

Course Number
4000

Department
Kinesiology and Health Science

Course Title
Experience and Event Design

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course explores the foundations behind and techniques utilized in leading recreation experiences. It emphasizes practical experience with planning recreation activities.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Course Learning Objectives

Course Learning Outcomes

1. Explain principles of experience design and their application to recreation and event settings.

2. Develop creative concepts that align event goals with participant needs and desired outcomes.

3. Apply design thinking, logistics, and evaluation techniques to plan and implement engaging events.

4. Assess the quality and impact of designed experiences using participant feedback and reflection.

RAM4100 - History of Leisure (CI) - 3 - Credits

Course Overview

Course Prefix
RAM

Course Number
4100

Department
Kinesiology and Health Science

Course Title
History of Leisure (CI)

General Education Attribute
CI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course explores historical, behavioral, scientific, and philosophical foundations of leisure and recreation.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ENGL2010 - Research and Argument Across Perspectives (CL2)

Course Learning Objectives

Course Learning Outcomes

1. Describe major historical developments that have shaped leisure and recreation across cultures and time periods.

2. Explain key philosophical and scientific perspectives that inform the study of leisure behavior.

3. Analyze the relationship between leisure, work, and society in different historical contexts.

4. Evaluate how historical trends continue to influence contemporary recreation and leisure practices.

RAM4200 - Community-Based Program Planning, Implementation, and Evaluation - 3 - Credits

Course Overview

Course Prefix
RAM

Course Number
4200

Department
Kinesiology and Health Science

Cross-Listed Courses
HEP4200 - Community-Based Program Planning, Implementation, and Evaluation

Course Title
Community-Based Program Planning, Implementation, and Evaluation

General Education Attribute
QI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course develops knowledge and skills in planning, implementing, evaluating, and sustaining community-based health programs. Students design a program that addresses real community needs while gaining hands-on experience for professional roles in health promotion, program development, and community engagement.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete at least 1 of the following courses:

- MATH1030 - Quantitative Reasoning (QL)
- MATH1050 - College Algebra (QL)
- MATH1051 - Classical Algebra for Teachers (QL)

- STAT1040 - Introduction to Statistics (QL)
- STAT1045 - Introduction to Statistics with Elements with Algebra (QL)
- STAT1080 - Foundations of Data Science (QL)

Course Learning Objectives

Course Learning Outcomes

1. Compare and contrast various planning models and be able to apply them accurately.

2. Recognize the role of knowledge, attitudes, and behaviors in the effectiveness of health promotion and community-based programming.

3. Apply psychological and sociological theories to the development of programs.

4. Identify sources of information for a needs assessment for the target population.

5. Learn various methods to collect needs assessment data for various settings.

6. Create a data collection instrument.

7. Collect, analyze, and present original data.

8. Apply prominent methodologies to program planning.

9. Create measurable program objectives based on target population needs.

RAM4205 - Program Management and Evaluation for Health Education - 3 - Credits

Course Overview

Course Prefix
RAM

Course Number
4205

Department
Kinesiology and Health Science

Cross-Listed Courses

HEP4205 - Program Management and Evaluation for Health Education

Course Title

Program Management and Evaluation for Health Education

Grade Mode
Standard Letter

Repeat Status
NR

Course Description

This course introduces students to the concepts and techniques of program implementation, management, evaluation and sustainability for health promotion programs in multiple settings. Students gain experience in these areas through active participation in a program based service learning project.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- HEP4200 - Community-Based Program Planning, Implementation, and Evaluation

Course Learning Objectives

Course Learning Outcomes

1. Implement a well-planned health promotion program using established processes, models, and phases.

2. Implement and manage a program in a safe and ethical manner.

3. Overcome obstacles that may arise in the program implementation process.

4. Create a budget for a health promotion program.

5. Gain awareness of and be able to secure resources to sustain a program. This includes items such as grant development and fundraising campaigns.

6. Develop a marketing campaign to promote the success of a program.

7. Engage in community organizing and building to facilitate program success.

8. Understand the various forms of program evaluation and design.

9. Evaluate health promotion programs and interventions.

10. Create valid data collection instruments for program evaluation.

11. Collect, analyze, and present original data related to programs and outcomes.

12. Use data to justify and garner support for quality public health programs.

RAM4250 - Advanced Cooperative Work Experience - 1 - 12 Credits

Course Overview

Course Prefix
RAM

Course Number
4250

Department
Kinesiology and Health Science

Course Title
Advanced Cooperative Work Experience

Grade Mode
Temporary Pass/Fail

Repeat Status
RP

Course Description
This advanced course provides additional practical and educational work and/or voluntary opportunities to gain professional experience prior to an internship in Recreation Services.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
12

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
12

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
12

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
12

Lecture Hours Operator:
TO

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- RAM1000 - Introduction to Recreation Services

(may be taken concurrently)

Course Learning Objectives

Course Learning Outcomes

1. Apply classroom knowledge and skills in a supervised professional recreation setting.

2. Demonstrate professionalism, reliability, and effective communication in the workplace.

3. Reflect on personal growth, strengths, and areas for improvement related to career goals.

4. Evaluate how professional experiences contribute to readiness for an internship in recreation services.

RAM4300 - Sport Finance - 3 - Credits

Course Overview

Course Prefix
RAM

Course Number
4300

Department
Kinesiology and Health Science

Course Title
Sport Finance

Grade Mode
Standard Letter

Repeat Status
NR

Course Description

Students study financial management tools used for decision-making in the sport industry. Students learn about financial models, revenue streams, and cost centers for sport organizations. Students gain practical skills in financial analysis to understand how it impacts organizational success.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Other Enrollment Recommendations

1. Understand and analyze financial statements, budgeting, and accounting principles specific to sports organizations and events.

2. Identify and evaluate various revenue streams in sports, including ticket sales, broadcasting rights, sponsorship, and merchandising.

3. Understand the ethical and legal considerations in sports finance, including salary caps, player contracts, and financial regulations.

Course Learning Objectives

Course Learning Outcomes

1. Understand and analyze financial statements, budgeting, and accounting principles specific to sports organizations and events.

2. Identify and evaluate various revenue streams in sports, including ticket sales, broadcasting rights, sponsorship, and merchandising.

RAM4400 - Recreation and Park Facility Planning and Management - 3 - Credits

Course Overview

Course Prefix
RAM

Course Number
4400

Department
Kinesiology and Health Science

Course Title
Recreation and Park Facility Planning and Management

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course is designed to give PRP majors an understanding of the skills necessary for planning, designing, maintaining and managing recreation parks and facilities.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- RAM1000 - Introduction to Recreation Services

Course Learning Objectives

Course Learning Outcomes
1. Describe principles of planning, design, and maintenance for recreation parks and facilities.

2. Apply management practices that ensure safe, efficient, and sustainable facility operations.

3. Evaluate facility layouts and designs for accessibility, functionality, and user experience.

4. Develop maintenance and management plans that align with agency goals and community needs.

RAM4500 - Management of Recreation Services - 3 - Credits

Course Overview

Course Prefix
RAM

Course Number
4500

Department
Kinesiology and Health Science

Course Title
Management of Recreation Services

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides entry-level knowledge of current management practice, specializing in human resources, finance, budget, and marketing.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- RAM1000 - Introduction to Recreation Services

Course Learning Objectives

Course Learning Outcomes

1. Explain key principles of management and administration in recreation and leisure organizations.

2. Apply basic practices in human resource management, budgeting, and financial planning.

3. Develop marketing strategies that promote programs, services, and organizational goals.

4. Demonstrate decision-making and problem-solving skills relevant to managing recreation operations.

RAM4600 - Legal Issues and Risk Management of Recreation - 3 - Credits

Course Overview

Course Prefix
RAM

Course Number
4600

Department
Kinesiology and Health Science

Course Title
Legal Issues and Risk Management of Recreation

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course is designed to focus on the legal issues of the risk management process. Students learn about the liability management concerns of recreation programs, facilities and areas.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- RAM1000 - Introduction to Recreation Services

Course Learning Objectives

Course Learning Outcomes

1. Identify key legal concepts and principles relevant to recreation, sport, and leisure services.

2. Explain the components of the risk management process and their application to recreation settings.

3. Analyze liability issues related to facilities, programs, and participant safety.

4. Apply risk management strategies to minimize legal exposure and enhance organizational safety.

RAM4800 - Senior Seminar (CI) - 3 - Credits

Course Overview

Course Prefix
RAM

Course Number
4800

Department
Kinesiology and Health Science

Course Title
Senior Seminar (CI)

General Education Attribute
CI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
In this course, students focus on current issues and trends in recreation services through analysis, papers, presentation, and discussion with professionals.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- RAM1000 - Introduction to Recreation Services
- ENGL2010 - Research and Argument Across Perspectives (CL2)

*(ENGL2010 RSRCH&ARGUMENT PRSPCTVES (CL2) **may be taken concurrently**)*

Course Learning Objectives

Course Learning Outcomes
1. Identify emerging issues and trends affecting the recreation and leisure profession.

2. Analyze how social, economic, environmental, and technological factors influence recreation services.

3. Evaluate professional perspectives on key challenges and innovations in the field.

4. Communicate informed positions on current topics through written, oral, and professional presentations.

RAM4900 - Internship in Recreation Services - 6 - Credits

Course Overview

Course Prefix
RAM

Course Number
4900

Department
Kinesiology and Health Science

Course Title
Internship in Recreation Services

Grade Mode
Temporary Pass/Fail

Repeat Status
NR

Course Description
This course fulfills the professional practice requirement of a minimum of 400 hours with a cooperating recreation service agency.

Credit Hours

Credit Hours
Min:
6

Contact Hours

Contact Hours
Min:
6

Billing Hours

Billing Hours
Min:
6

Lecture Hours

Lecture Hours
Min:
6

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- RAM1000 - Introduction to Recreation Services
- RAM2250 - RAM Cooperative Work Experience

Course Learning Objectives

Course Learning Outcomes

1. Apply academic knowledge and professional skills in a full-time recreation service setting.

2. Demonstrate professionalism, leadership, and effective communication in the workplace.

3. Evaluate agency operations, programs, and management practices through direct experience.

4. Reflect on personal and professional growth to identify future career goals and competencies

RAM5100 - Communications in Sport - 3 - Credits

Course Overview

Course Prefix
RAM

Course Number
5100

Department
Kinesiology and Health Science

Course Title
Communications in Sport

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Provides instruction in media relations, digital strategies, and content creation for sport organizations. Emphasis is on developing storytelling, public relations, and social media skills to promote events, athletes, and sports organizations effectively.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Course Learning Objectives

Course Learning Outcomes

1. Evaluate the role and impact of various media channels on sports communication, including traditional and digital platforms.

2. Understand the influence of the different media platforms on public perception.

3. Create and execute effective communication strategies tailored to diverse audiences for sports entities.

4. Analyze audience demographics and behaviors to create targeted communication campaigns that enhance the effective delivery of organizational messages.

RAM5130 - Data Analytics and Data Driven Decision Making in Sports - 3 - Credits

Course Overview

Course Prefix
RAM

Course Number
5130

Department
Kinesiology and Health Science

Course Title
Data Analytics and Data Driven Decision Making in Sports

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers data analytics and decision-making in sport management, focusing on collecting, processing, analyzing, and interpreting data for player performance, fan engagement, marketing strategies, and revenue optimization.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Understand the fundamentals of data-driven decision-making in sport management.

2. Know of the importance of data-driven decision-making in sport management.

3. Learn basic techniques for collecting and analyzing sports data.

4. Gain proficiency in interpreting data insights to inform strategic decisions.

5. Explore ethical considerations related to data usage in sport management.

6. Apply learned concepts to practical scenarios through case studies and projects.

RAM5900 - Independent Study - 1 - 3 Credits

Course Overview

Course Prefix
RAM

Course Number
5900

Department
Kinesiology and Health Science

Course Title
Independent Study

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Students work on special projects and/or research out of the classroom, with approval and guidance of instructor.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

Special Approval
Instructor permission

Course Learning Objectives

Course Learning Outcomes

1. Collaborate with a faculty mentor to define the scope and objectives of an independent inquiry or project.

2. Pursue self-directed learning or project work using relevant methods and resources.

3. Create a final product demonstrating understanding and application of the chosen topic or skill.

4. Reflect on their learning experience and engage in meaningful discussion with their mentor.

RAM5910 - Independent Research - 1 - 3 Credits

Course Overview

Course Prefix
RAM

Course Number
5910

Department
Kinesiology and Health Science

Course Title
Independent Research

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Students work on research out of the classroom, with approval and guidance of instructor.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

Special Approval
Instructor permission

Course Learning Objectives

Course Learning Outcomes

1. Develop a research question or hypothesis aligned with their academic interests.

2. Design and implement a research plan using appropriate methodologies under faculty supervision.

3. Analyze and interpret research findings using scholarly standards.

4. Produce a well-documented research report or paper communicating their results.

REH2010 - Neurodiversity and Society - 3 - Credits

Course Overview

Course Prefix
REH

Course Number
2010

Department
Special Education & Rehab Counseling

Course Title
Neurodiversity and Society

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course focuses on the experiences of neurodiverse individuals across the lifespan. This class provides foundational knowledge as well as practical approaches to supporting neurodiverse people across a variety of environments.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Students will be able to define neurodiversity and describe its impacts on people at the individual level as well as society at large.

2. Students will be able to differentiate between a deficit model of disability and a diversity model of disability.

3. Students will identify methods that support the inclusion of neurodiverse people in their day-to-day lives, as well as what they can look like as students complete college and enter the workforce.

4. Students will be able to describe and understand the social impacts and benefits of embracing individual neurodiversity.

REH2060 - Health Promotion for Individuals with Chronic Illness and Disability - 3 - Credits

Course Overview

Course Prefix
REH

Course Number
2060

Department
Special Education & Rehab Counseling

Course Title
Health Promotion for Individuals with Chronic Illness and Disability

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course focuses on the assessment, management, and promotion of health specific to individuals with chronic illness and disability. Concepts related to health promotion are explored in relation to chronic illness and disability and other key aspects of diversity.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Describe theoretical models and frameworks of health promotion for individuals with chronic illness and disability.

2. Compare and contrast exemplary health promotion efforts for individuals with chronic illness and disability, focusing on the theoretical framework, methods of intervention and evaluation design used.

3. Engage in dialogue across professional disciplines related to health and disability.

4. Identify health issues, health promotion and health practices that increase functioning and reduce secondary conditions due to disability and chronic illness.

5. Demonstrate the health promotion process including community assessment, resource identification, intervention strategies and evaluation using state-of-the-art approaches.

6. Adapt health promotion strategies to individuals with chronic illness and disability, including those from ethnic minority and special population groups.

7. Foster positive, productive relationships with all stakeholders that allow for effective collaboration.

REH4200 - Disability Culture & The Workplace - 3 - Credits

Course Overview

Course Prefix
REH

Course Number
4200

Department
Special Education & Rehab Counseling

Course Title
Disability Culture & The Workplace

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course critically examines psychosocial impacts of workplace cultures on this frequently marginalized, often overlooked cultural identity.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Course Learning Objectives

Course Learning Outcomes

1. Student Learning Outcome #1: Students will reflect on big questions about the experience of being a person with disability, by analyzing and applying relevant legislation (e.g., ADA, IDEA, Section 504, WIOA) to the experience of persons with chronic illness and disability in the workplace.
2. Student Learning Outcome #2: Students will critically examine the variability of disability culture through the humanistic framework of phenomenological expression.
3. Student Learning Outcome #3: Students will confront the history of disability in the US and examine the role work plays in the lived experience of persons with disabilities.
4. Student Learning Outcome #4: Students will analyze the role workplace culture plays in the identity of persons with chron**ic illness and disability.**

REH4210 - Ethics in Behavioral Health - 3 - Credits

Course Overview

Course Prefix
REH

Course Number
4210

Department
Special Education & Rehab Counseling

Course Title
Ethics in Behavioral Health

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course examines ethical principles and philosophy, with an emphasis on differentiating between morals, values, and ethics. Ethical decision making in behavioral health and health care settings will be explored with emphasis on persons with chronic illness and/or disability.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Course Learning Objectives

Course Learning Outcomes

1. The student will be able to identify patterns of decision making and the potential influence of disability stigma on those decisions.
2. The student will be able to critique their own decision making processes and infuse relevant industry standards into their decision making pathways.
3. The student will be able to apply concepts learned in the course in practical settings and situations to improve ethical service delivery to persons with chronic illness/disability in behavioral health and health care settings.

REH4250 - Communication Skills for Helping Professions - 3 - Credits

Course Overview

Course Prefix
REH

Course Number
4250

Department
Special Education & Rehab Counseling

Course Title
Communication Skills for Helping Professions

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Students develop competencies in communication and interviewing necessary for helping professions in medicine, social work, and counseling. Students practice communication skills in class, utilizing techniques that are relevant across settings (e.g., Motivational Interviewing, Solutions Focused Brief Therapy techniques, etc.).

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Course Learning Objectives

Course Learning Outcomes

1. Student will engage in the iterative process of improving communication based on feedback from peers and instructors.
2. Students will be able to define, describe, and demonstrate communication skills for the purpose of accessing information and clinical assessment.
3. Students will develop an ability to communicate orally and write with purpose in accordance with professional conventions.
4. Students will self-evaluate skill acquisition and growth.

REH4350 - Introduction to Counseling Theories - 3 - Credits

Course Overview

Course Prefix
REH

Course Number
4350

Department
Special Education & Rehab Counseling

Course Title
Introduction to Counseling Theories

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
A study of the major counseling theories, an exploration of how human nature changes, and the theoretical interventions to facilitate change. This course is intended for students pursuing careers in case management or allied health professional licensure in behavioral health.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Course Learning Objectives

Course Learning Outcomes

1. Student Learning Outcome #1: Students will learn fundamental principles, generalizations, or theories in counseling and psychotherapy.
2. Student Learning Outcome #2: Students will learn to apply course materials as a means to improve critical thinking, problem solving, and decision-making.
3. Student Learning Outcome #3: Students will develop specific skills, competencies, and orientations necessary for effective practice.

REH6000 - Professional Seminar in Counseling - 1 - Credits

Course Overview

Course Prefix
REH

Course Number
6000

Department
Special Education & Rehab Counseling

Course Title
Professional Seminar in Counseling

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces students to professional issues in counseling. Topics include ethics, licensure and certification, self-care, and other counseling related content. Skills requisite for success in graduate school are addressed within the context of professional issues and concerns.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

No Requirements

REH6100 - Professional Counseling Orientation - 3 - Credits

Course Overview

Course Prefix
REH

Course Number
6100

Department
Special Education & Rehab Counseling

Course Title
Professional Counseling Orientation

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides a broad orientation to the counseling profession and specialties. Students familiarize themselves with counseling roles and functions, credentialing standards, and organizations relevant to practice. Foundational knowledge for practice as a rehabilitation counselor is also provided.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

REH6110 - Medical Aspects of Disability - 3 - Credits

Course Overview

Course Prefix
REH

Course Number
6110

Department
Special Education & Rehab Counseling

Course Title
Medical Aspects of Disability

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Overview of basic medical issues affecting employment and independent living for persons with disabilities. Explores basic anatomy and systems, as well as disorders and diseases of these systems. Covers medical terminology applicable to rehabilitation counseling.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

REH6120 - Psychosocial Aspects of Disability - 2 - Credits

Course Overview

Course Prefix
REH

Course Number
6120

Department
Special Education & Rehab Counseling

Course Title
Psychosocial Aspects of Disability

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course explores psychological and sociological aspects of disabilities, including adjustment factors in living with disabilities (i.e., individual, family, sexuality, other service providers, etc.). It examines societal attitudes, stigma related to mental health, women's issues, and deaf culture issues.

Credit Hours

Credit Hours Min:
2

Contact Hours

Contact Hours Min:
2

Billing Hours

Billing Hours Min:
2

Lecture Hours

Lecture Hours Min:
2

No Requirements

REH6130 - Counseling Skill Development - 3 - Credits

Course Overview

Course Prefix
REH

Course Number
6130

Department
Special Education & Rehab Counseling

Course Title
Counseling Skill Development

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course uses simulated interviews and counseling sessions to develop the basic mental health counseling skills necessary to function as a counselor in various counseling practice settings (e.g., state/federal VR agencies, clinical mental health agencies, community rehabilitation programs, Veterans Administration).

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- REH6200 - Theories of Counseling

REH6140 - Counseling Practicum - 3 - Credits

Course Overview

Course Prefix
REH

Course Number
6140

Department
Special Education & Rehab Counseling

Course Title
Counseling Practicum

Grade Mode
Pass/Fail

Repeat Status
NR

Course Description
Students complete a minimum of 100 hours of firsthand, supervised experience working with persons with disabilities in counseling settings (e.g., community clinical mental health programs, independent living programs, community rehabilitation programs, state/federal VR agencies, etc.). This course has multiple prerequisites.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Fulfill ALL of the following requirements:

Required

Complete ALL of the following Courses:

- REH6110 - Medical Aspects of Disability
- REH6190 - Vocational Assessment in Rehabilitation Counseling
- REH6200 - Theories of Counseling

AND

Required

Earn a minimum grade of B in the following:

- REH6130 - Counseling Skill Development

Course Requirements

PREREQUISITES
Course Number 6110, Subject Code REH, Level GR, Grade GR; AND Course Number 6130, Subject Code REH, Level GR, Grade GR [Concurrent]; AND Course Number 6190, Subject Code REH, Level GR, Grade GR; AND Course Number 6200, Subject Code REH, Level GR, Grade GR

REH6150 - Case Management for Health Professions - 2 - Credits

Course Overview

Course Prefix
REH

Course Number
6150

Department
Special Education & Rehab Counseling

Course Title
Case Management for Health Professions

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Course includes coordination of community resources, individual assessment information, ethical issues, eligibility determination, and development of individualized rehabilitation programs and independent living plans. Time, fiscal, and caseload management skills for rehabilitation professionals are explored. Client choice in rehabilitation planning is emphasized.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

No Requirements

REH6160 - Career Development, Analysis and Placement - 3 - Credits

Course Overview

Course Prefix
REH

Course Number
6160

Department
Special Education & Rehab Counseling

Course Title
Career Development, Analysis and Placement

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course emphasizes the need to develop individualized supports that promote integrated competitive employment for all individuals with disabilities. The course introduces career development theory and teaches students to embed specific theories into practice to promote integrated employment outcomes.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

REH6170 - Counseling Internship I - 4 - Credits

Course Overview

Course Prefix
REH

Course Number
6170

Department
Special Education & Rehab Counseling

Course Title
Counseling Internship I

Grade Mode
Pass/Fail

Repeat Status
NR

Course Description
While supervised by site supervisors and the internship coordinator, students provide counseling services to individuals with disabilities in appropriate counseling settings (e.g., rehabilitation agency, clinical mental health, community rehabilitation program, Veterans' Administration). Must be a minimum of 300 hours.

Credit Hours

Credit Hours Min:
4

Contact Hours

Contact Hours Min:
4

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
4

Lecture Hours

Lecture Hours Min:
4

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Fulfill ALL of the following requirements:

Required

Complete ALL of the following Courses:

- REH6140 - Counseling Practicum
- REH6250 - Group Counseling

AND

Completion of credits required

Successful completion of credits within program.

- 32 credits

REH6175 - Counseling Internship II - 5 - Credits

Course Overview

Course Prefix
REH

Course Number
6175

Department
Special Education & Rehab Counseling

Course Title
Counseling Internship II

Grade Mode
Pass/Fail

Repeat Status
NR

Course Description
While supervised by site supervisors and the internship coordinator, students provide counseling services to individuals with disabilities in appropriate counseling settings (e.g., rehabilitation agency, clinical mental health, community rehabilitation program, Veterans' Administration). Must be a minimum of 300 hours.

Credit Hours

Credit Hours
Min:
5

Contact Hours

Contact Hours
Min:
5

Billing Hours

Billing Hours
Min:
5

Lecture Hours

Lecture Hours
Min:
5

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- REH6170 - Counseling Internship I

REH6180 - Mental Illness, Disability, and Trauma - 2 - Credits

Course Overview

Course Prefix
REH

Course Number
6180

Department
Special Education & Rehab Counseling

Course Title
Mental Illness, Disability, and Trauma

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
An overview of the rehabilitation of persons with clinical mental illness including dual diagnosis, community integration, suicide prevention, trauma-based counseling, and theory-driven treatment planning.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

REH6190 - Vocational Assessment in Rehabilitation Counseling - 3 - Credits

Course Overview

Course Prefix
REH

Course Number
6190

Department
Special Education & Rehab Counseling

Course Title
Vocational Assessment in Rehabilitation Counseling

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course addresses vocational assessment with an emphasis on individuals with disabilities. It includes history, ethics, special issues, formal and informal assessments selection and administration, psychometrics, and report writing for ecologically valid and reliable evaluations using contemporary methodology.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

REH6200 - Theories of Counseling - 3 - Credits

Course Overview

Course Prefix
REH

Course Number
6200

Department
Special Education & Rehab Counseling

Course Title
Theories of Counseling

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces established counseling theories for use in counseling services to persons with disabilities, including those with mental health concerns. A specific focus on case conceptualization is included. The course emphasizes the development of an individual theoretical orientation.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

REH6210 - Mental Health Assessment - 3 - Credits

Course Overview

Course Prefix
REH

Course Number
6210

Department
Special Education & Rehab Counseling

Course Title
Mental Health Assessment

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course focuses on the tools, procedures, psychometrics, and resources for mental health assessment, with an in-depth focus on specific clinical mental health diagnoses (e.g., anxiety, depression, bipolar, personality disorders, etc.) and their social, emotional, educational, and occupational impact.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

REH6220 - Multicultural Aspects of Counseling - 3 - Credits

Course Overview

Course Prefix
REH

Course Number
6220

Department
Special Education & Rehab Counseling

Course Title
Multicultural Aspects of Counseling

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students analyze the effect of cultural/ethnic/racial/linguistic background across counseling settings, acceptance/perception of disability, and perceived importance of seeking out counseling services. Practice applications include providing culturally sensitive counseling, as well as awareness of stigma associated with mental health and disability.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

REH6230 - Research in Clinical Rehabilitation Counseling - 3 - Credits

Course Overview

Course Prefix
REH

Course Number
6230

Department
Special Education & Rehab Counseling

Course Title
Research in Clinical Rehabilitation Counseling

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course emphasizes research design (e.g., qualitative, quantitative, and mixed methods) and research principles necessary for effective research and evaluation practices in rehabilitation counseling, including locating, reviewing, evaluating, and synthesizing relevant literature. Principles of program evaluation are emphasized.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

REH6240 - Ethical Decision-Making in Counseling - 3 - Credits

Course Overview

Course Prefix
REH

Course Number
6240

Department
Special Education & Rehab Counseling

Course Title
Ethical Decision-Making in Counseling

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
The course examines professional ethical standards, ethical decision-making processes, current issues, and multicultural considerations within the counseling profession. Professional Codes of Ethics outlined by the ACA, CRCC, NBCC, and AMHCA are examined.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

REH6250 - Group Counseling - 3 - Credits

Course Overview

Course Prefix
REH

Course Number
6250

Department
Special Education & Rehab Counseling

Course Title
Group Counseling

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides an introduction to group counseling with an emphasis on stages of group development, types of groups, common ethical concerns, selection of group members, and appropriate leadership styles. Students participate in and lead group sessions to build group counseling skills.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- REH6130 - Counseling Skill Development
- REH6200 - Theories of Counseling

REH6260 - Human Growth and Development - 3 - Credits

Course Overview

Course Prefix
REH

Course Number
6260

Department
Special Education & Rehab Counseling

Course Title
Human Growth and Development

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides an overview of major developmental theories and the way these theories frame human growth and development across the lifespan. It explores issues faced by individuals with disabilities (e.g., physical, clinical mental health, neurodevelopmental, intellectual) at various life stages.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

REH6320 - The Diagnostic and Statistical Manual (DSM 5) of Mental Health Disorders - 3 - Credits

Course Overview

Course Prefix
REH

Course Number
6320

Department
Special Education & Rehab Counseling

Course Title
The Diagnostic and Statistical Manual (DSM 5) of Mental Health Disorders

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides an in-depth exploration of the process of assessing clinical mental health using the Diagnostic and Statistical Manual, including etiology, diagnostic criteria and process, disorder subtypes, and associated features and disorders.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

REH6350 - Treatment Approaches for Addiction Disorders - 3 - Credits

Course Overview

Course Prefix
REH

Course Number
6350

Department
Special Education & Rehab Counseling

Course Title
Treatment Approaches for Addiction Disorders

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers the theory and practice of a variety of treatment modalities and settings for addiction disorders. It explores interdisciplinary treatment planning and evidence-based practices. Attention is given to substance use disorders and co-occurring clinical mental health issues.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

REH6500 - Fundamental Skills for Transition Services - 3 - Credits

Course Overview

Course Prefix
REH

Course Number
6500

Department
Special Education & Rehab Counseling

Course Title
Fundamental Skills for Transition Services

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides foundational knowledge of the philosophies, science, models, and practices of serving transition-age secondary students and youth with disabilities and their families; and of the role of rehabilitation counselors in the planning and service delivery of pre-employment transition and transition services.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

REH6510 - Transition to Supported/ Competitive Employment - 3 - Credits

Course Overview

Course Prefix
REH

Course Number
6510

Department
Special Education & Rehab Counseling

Course Title
Transition to Supported/Competitive Employment

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides students with knowledge to understand and analyze evidence-based transition to employment for individuals with disabilities.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

REH6520 - Capstone Demonstration Project: Education, Services, and Processes Leading to Postsecondary Life - 2 - Credits

Course Overview

Course Prefix
REH

Course Number
6520

Department
Special Education & Rehab Counseling

Course Title
Capstone Demonstration Project: Education, Services, and Processes Leading to Postsecondary Life

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
In this capstone course (i.e., field-based applied course), students demonstrate the skills necessary to carry out evidence-based transition education and services leading to employment of individuals with disabilities.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

No Requirements

REH6560 - Special Topics in Rehabilitation - 1 - 6 Credits

Course Overview

Course Prefix
REH

Course Number
6560

Department
Special Education & Rehab Counseling

Course Title
Special Topics in Rehabilitation

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Opportunity to provide specialized training in topics unique to rehabilitation. Topics cover many disability, employment, and independent-living issues.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
6

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
6

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
6

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
6

Lecture Hours Operator:
TO

No Requirements

REH6570 - Collaboration in Transition Services - 3 - Credits

Course Overview

Course Prefix
REH

Course Number
6570

Department
Special Education & Rehab Counseling

Course Title
Collaboration in Transition Services

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides foundational knowledge of the theories, models, and practices in general collaboration applied to the delivery of transition and pre-employment transition services; and the specialized knowledge of rehabilitation counselors' roles in serving transitioning youth and students with disabilities and their families.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

REH6700 - Internship in Counseling I - 2 - Credits

Course Overview

Course Prefix
REH

Course Number
6700

Department
Special Education & Rehab Counseling

Course Title
Internship in Counseling I

Grade Mode
Pass/Fail

Repeat Status
NR

Course Description
While supervised by site supervisors and the internship coordinator, students provide counseling services to individuals with disabilities in Clinical Mental Health Counseling settings (e.g., rehabilitation agency, clinical mental health, community rehabilitation program, Veterans' Administration). Must be a minimum of 300 hours.

Credit Hours

Credit Hours Min:
2

Contact Hours

Contact Hours Min:
2

Billing Hours

Billing Hours Min:
2

Lecture Hours

Lecture Hours Min:
2

Course Learning Objectives

Course Learning Outcomes
By the end of the Clinical Rehabilitation Counseling Internship students will have developed and strengthened:

1. The ability to establish and maintain effective counseling relationships. At least 240 hours of the internship time (600 total hours required) needs to be spent engaged in direct client service. For internship students, this may include limited time observing other professionals working with clients but should primarily spent providing direct services to clients with disabilities. See Internship Manual for additional clarification and examples of direct client contact activities.
2. The ability to conceptualize and integrate a client's personal, social, vocational, medical, and environmental situation.
3. Formulate sound and realistic rehabilitation plans, make optimum use of available rehabilitation services, and evaluate the progress of clients in their rehabilitation plan.
4. Plan and organize work, write reports, and maintain adequate records.
5. Form effective relationships with rehabilitation clients, staff, supervisors, and external agency professionals.
6. The ability to assess and draw accurate inferences about clients from observing their behavior both inside and outside of the counseling situation.
7. The capability to interpret vocational tests and other information to clients and other professionals.
8. Perform rehabilitation counseling tasks with a minimal level of supervision.
9. Maintain professional and ethical standards in work responsibilities and relationships.

REH6710 - Internship in Counseling II - 2 - Credits

Course Overview

Course Prefix
REH

Course Number
6710

Department
Special Education & Rehab Counseling

Course Title
Internship in Counseling II

Grade Mode
Pass/Fail

Repeat Status
NR

Course Description
While supervised by site supervisors and the internship coordinator, students provide counseling services to individuals with disabilities in Clinical Mental Health Counseling settings (e.g., rehabilitation agency, clinical mental health, community rehabilitation program, Veterans' Administration). Must be a minimum of 300 hours.

Credit Hours

Credit Hours Min:
2

Contact Hours

Contact Hours Min:
2

Billing Hours

Billing Hours Min:
2

Lecture Hours

Lecture Hours Min:
2

Course Learning Objectives

Course Learning Outcomes
By the end of the Clinical Rehabilitation Counseling Internship students will have developed and strengthened:

1. The ability to establish and maintain effective counseling relationships. At least 240 hours of the internship time (600 total hours required) needs to be spent engaged in direct client service. For internship students, this may include limited time observing other professionals working with clients but should primarily spent providing direct services to clients with disabilities. See Internship Manual for additional clarification and examples of direct client contact activities.
2. The ability to conceptualize and integrate a client's personal, social, vocational, medical, and environmental situation.
3. Formulate sound and realistic rehabilitation plans, make optimum use of available rehabilitation services, and evaluate the progress of clients in their rehabilitation plan.
4. Plan and organize work, write reports, and maintain adequate records.
5. Form effective relationships with rehabilitation clients, staff, supervisors, and external agency professionals.
6. The ability to assess and draw accurate inferences about clients from observing their behavior both inside and outside of the counseling situation.
7. The capability to interpret vocational tests and other information to clients and other professionals.
8. Perform rehabilitation counseling tasks with a minimal level of supervision.
9. Maintain professional and ethical standards in work responsibilities and relationships.

REH6790 - Special Topics - 1 - 4 Credits

Course Overview

Course Prefix
REH

Course Number
6790

Department
Special Education & Rehab Counseling

Cross-Listed Courses
SPED6790 - Special Topics

Course Title
Special Topics

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This is an in-depth study of targeted topics related to special education and/or rehabilitation counseling.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
4

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
4

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
4

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
4

Lecture Hours Operator:
TO

No Requirements

REH6900 - Independent Study - 1 - 3 Credits

Course Overview

Course Prefix
REH

Course Number
6900

Department
Special Education & Rehab Counseling

Course Title
Independent Study

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course allows undergraduate students to pursue personal research interests by formalizing an independent project under the guidance of a professor or faculty mentor.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

Special Approval
Instructor permission

No Requirements

REH7010 - Doctoral Practicum - 1 - Credits

Course Overview

Course Prefix
REH

Course Number
7010

Department
Special Education & Rehab Counseling

Course Title
Doctoral Practicum

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
This course gives students the opportunity to gain experience in one of five primary professional roles: counseling, supervision, teaching, research and scholarship, or leadership and advocacy. Students spend 50 to 100 hours of supervised experience in one of these areas.

Credit Hours

Credit Hours Min:
1

Contact Hours

Contact Hours Min:
1

Billing Hours

Billing Hours Min:
1

Lecture Hours

Lecture Hours Min:
1

Course Learning Objectives

Course Learning Outcomes

The objective of this course is to promote increased competency in the following areas:

1. Enhanced understanding of one of the five designated professional roles
2. Supervised experience in one of the five designated professional roles
3. The application of ethical standards in a designated professional role
4. The ability to interact professionally with personnel from a wide variety of interests, backgrounds, and experiences
5. Demonstrate intermediate skill in case conceptualization and/or problem-solving in a professional role
6. Demonstrate knowledge and skills gained through coursework
7. Demonstrate knowledge and advanced skills in leading peer professional discussions in rehabilitation counselor education

REH7040 - Literature Review - 1 - 3 Credits

Course Overview

Course Prefix
REH

Course Number
7040

Department
Special Education & Rehab Counseling

Course Title
Literature Review

Grade Mode
Pass/Fail

Repeat Status
NR

Course Description
Guided experience in conducting a comprehensive and systematic review of literature on a topic related to rehabilitation counseling.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

No Requirements

REH7050 - Professional Issues in Rehabilitation Counselor Education - 3 - Credits

Course Overview

Course Prefix
REH

Course Number
7050

Department
Special Education & Rehab Counseling

Course Title
Professional Issues in Rehabilitation Counselor Education

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides a thorough consideration of the development and evolution of counseling and rehabilitation counseling, including its history, systems, and philosophy. In-depth focus is given to contemporary issues and opportunities for professionalization and practice.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Examine and understand the history and philosophy of counseling and rehabilitation counseling, legislation, current perspectives on rehabilitation counselor educator roles and functions.

2. Identify and discuss leadership and advocacy in counseling and rehabilitation counseling organizations and other institutions.

3. Review professional preparation for rehabilitation counselor educators.

4. Review professional standards (credentialing, qualifications, and affiliations) for counselors, rehabilitation counselors, and rehabilitation counselor educators.

5. Review rehabilitation service delivery systems in terms of organizations, service coordination, community resources, and staff requirements.

6. Identify and discuss contemporary issues related to counseling and rehabilitation counseling.

7. Gain increased understanding of the importance of research in advancing the counseling profession, including how to critique research to inform counseling practice.

REH7060 - Research Internship - 1 - 3 Credits

Course Overview

Course Prefix
REH

Course Number
7060

Department
Special Education & Rehab Counseling

Course Title
Research Internship

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
Guided experience in conducting rehabilitation/disability research.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

Special Approval
Instructor permission

No Requirements

REH7070 - REH Grant Writing Internship - 1 - 3 Credits

Course Overview

Course Prefix
REH

Course Number
7070

Department
Special Education & Rehab Counseling

Course Title
REH Grant Writing Internship

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
Guided experience in preparation of grant proposals.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

Special Approval
Instructor permission

No Requirements

REH7080 - Writing for Publication - 1 - 3 Credits

Course Overview

Course Prefix
REH

Course Number
7080

Department
Special Education & Rehab Counseling

Course Title
Writing for Publication

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
In-depth, individualized experience in which student chooses a topic area and writes a scholarly manuscript, which is submitted for publication in an academic journal.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

No Requirements

REH7090 - Professional Conference Presentation - 1 - 3 Credits

Course Overview

Course Prefix
REH

Course Number
7090

Department
Special Education & Rehab Counseling

Course Title
Professional Conference Presentation

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Individualized, supervised experience in which student makes professional conference presentation. Emphasizes value of intellectual discourse with one's colleagues on a topic of interest, chosen by the student.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

No Requirements

REH7250 - Leadership & Advocacy Internship - 1 - 3 Credits

Course Overview

Course Prefix
REH

Course Number
7250

Department
Special Education & Rehab Counseling

Course Title
Leadership & Advocacy Internship

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
The doctoral internships provide students with a supervised experience in a rehabilitation counseling or related counseling setting in one of five CACREP professional roles: (a) counseling, (b) supervision, (c) teaching, (d) research and scholarship, or (e) or leadership and advocacy.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- REH7010 - Doctoral Practicum

Course Learning Objectives

Course Learning Outcomes

The objectives of this course are to promote competency in the following areas:

1. Enhanced understanding of one of the five designated professional roles
2. Supervised experience in one of the five designated professional roles
3. The application of ethical standards in a designated professional role
4. The ability to interact professionally with personnel from a wide variety of interests, backgrounds, and experiences
5. Demonstrate intermediate skill in case conceptualization and/or problem-solving in a professional role
6. Demonstrate knowledge and skills gained through coursework
7. Demonstrate knowledge and advanced skills in leading peer professional discussions in rehabilitation counselor education

REH7330 - Supervision Internship - 1 - 3 Credits

Course Overview

Course Prefix
REH

Course Number
7330

Department
Special Education & Rehab Counseling

Course Title
Supervision Internship

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
Guided experience in supervising master's students during practica and internship, as well as during other clinical experiences.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

No Requirements

REH7340 - College Teaching Internship - 1 - 3 Credits

Course Overview

Course Prefix
REH

Course Number
7340

Department
Special Education & Rehab Counseling

Course Title
College Teaching Internship

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
Guided experience in teaching university courses.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

No Requirements

REH7350 - Counseling Internship - 1 - 3 Credits

Course Overview

Course Prefix
REH

Course Number
7350

Department
Special Education & Rehab Counseling

Course Title
Counseling Internship

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
The doctoral internships provide students with a supervised experience in a rehabilitation counseling or related counseling setting in one of five CACREP professional roles: (a) counseling, (b) supervision, (c) teaching, (d) research and scholarship, or (e) or leadership and advocacy.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- REH7010 - Doctoral Practicum

Course Learning Objectives

Course Learning Outcomes

The objectives of this course are to promote competency in the following areas:

1. Enhanced understanding of one of the five designated professional roles

2. Supervised experience in one of the five designated professional roles

3. The application of ethical standards in a designated professional role

4. The ability to interact professionally with personnel from a wide variety of interests, backgrounds, and experiences

5. Demonstrate intermediate skill in case conceptualization and/or problem-solving in a professional role

6. Demonstrate knowledge and skills gained through coursework

7. Demonstrate knowledge and advanced skills in leading peer professional discussions in rehabilitation counselor education

REH7750 - Social and Legal Context of Disability - 3 - Credits

Course Overview

Course Prefix
REH

Course Number
7750

Department
Special Education & Rehab Counseling

Cross-Listed Courses
SPED7750 - Social and Legal Context of Disability

Course Title
Social and Legal Context of Disability

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course places the disability experience in its social and legal context by exploring models of disabilities. Key statutes and case law reflecting historical landmarks in disability law and policy will be discussed as the codification of societal values.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

REH7760 - Clinical Supervision - 3 - Credits

Course Overview

Course Prefix
REH

Course Number
7760

Department
Special Education & Rehab Counseling

Course Title
Clinical Supervision

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Clinical supervision is a unique intervention process that is focused on the professional identity and skill development of the supervisee. This course will focus on developing a quality supervisory working alliance, conceptualization skills, evaluation, teaching and consultation skills, and developing skills in both group and individual supervision modalities.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

REH7770 - College Teaching - 3 - Credits

Course Overview

Course Prefix
REH

Course Number
7770

Department
Special Education & Rehab Counseling

Course Title
College Teaching

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
The purpose of this course is to gain an understanding of the college course development and delivery. The topics of learning theories, course design, student evaluation, course evaluation, and the use of technology will be covered.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

REH7780 - Bioethics, Ethics and Disability - 3 - Credits

Course Overview

Course Prefix
REH

Course Number
7780

Department
Special Education & Rehab Counseling

Course Title
Bioethics, Ethics and Disability

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This seminar focuses on quality of life, concomitant ethical principles/values, and the impact of medical technology on individuals with and without disabilities. Bioethical concepts across the life span, professional codes of ethics (e.g., ACA, CRCC, ASHA), and decision-making models are discussed.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

REH7790 - Theoretical Foundations of Counseling - 3 - Credits

Course Overview

Course Prefix
REH

Course Number
7790

Department
Special Education & Rehab Counseling

Course Title
Theoretical Foundations of Counseling

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This seminar is designed to provide the doctoral student in Rehabilitation Counselor Education with in-depth exposure to theories foundational to the counseling profession. It includes literature on the process and outcomes of counseling, as well as analysis and discussion of professional issues.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

REH7820 - Special Topics in Rehabilitation Counseling - 1 - 3 Credits

Course Overview

Course Prefix
REH

Course Number
7820

Department
Special Education & Rehab Counseling

Course Title
Special Topics in Rehabilitation Counseling

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Critical analysis of a variety of rehabilitation counseling issues and trends. Empirical and theoretical information presented in a seminar format.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

No Requirements

REH7840 - Preliminary Examinations - 1 - Credits

Course Overview

Course Prefix
REH

Course Number
7840

Department
Special Education & Rehab Counseling

Course Title
Preliminary Examinations

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Preparation for the examination and successful completion of the written examination. Students analyze published rehabilitation research and demonstrate their ability to integrate knowledge of theoretical and empirical issues, providing an early assessment of doctoral-level competencies.

Credit Hours

Credit Hours Min:
1

Contact Hours

Contact Hours Min:
1

Billing Hours

Billing Hours Min:
1

Lecture Hours

Lecture Hours Min:
1

REH7900 - Independent Study - 1 - 3 Credits

Course Overview

Course Prefix
REH

Course Number
7900

Department
Special Education & Rehab Counseling

Course Title
Independent Study

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Individual discussion and intensive study of particular problem or area.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

Special Approval

Instructor permission

No Requirements

REH7970 - Dissertation - 1 - 15 Credits

Course Overview

Course Prefix
REH

Course Number
7970

Department
Special Education & Rehab Counseling

Course Title
Dissertation

Grade Mode
Temporary Pass/Fail

Repeat Status
RP

Course Description
Variable credit for dissertation project associated with doctoral program in disability disciplines.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
15

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
15

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
15

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
15

Lecture Hours Operator:
TO

No Requirements

RELS1010 - Introduction to Religious Studies (BHU) - 3 - Credits

Course Overview

Course Prefix
RELS

Course Number
1010

Department
History, Cultures & Ideas

Course Title
Introduction to Religious Studies (BHU)

General Education Attribute
BHU

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Historical and comparative survey of the principal beliefs and practices of the world's religions, as well as an exploration of their interplay with the cultures in which they exist. Following general introduction to the study of religion, course includes units on Hinduism, Buddhism, Chinese and Japanese Religions, Islam, Judaism, Christianity, and the "new religions" in America.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

RELS1070 - Religion, Violence, and Peace (BHU) - 3 - Credits

Course Overview

Course Prefix
RELS

Course Number
1070

Department
History, Cultures & Ideas

Course Title
Religion, Violence, and Peace (BHU)

General Education Attribute
BHU

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course explores and interrogates what one scholar has called "the ambivalence of the sacred," meaning the ways in which religion has alternately contributed to both violent conflict and peacebuilding in historical and contemporary societies throughout the world.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

RELS1090 - Introduction to Interfaith Leadership (BHU) - 3 - Credits

Course Overview

Course Prefix
RELS

Course Number
1090

Department
History, Cultures & Ideas

Cross-Listed Courses
ANTH1090 - Introduction to Interfaith Leadership (BHU)

Course Title
Introduction to Interfaith Leadership (BHU)

General Education Attribute
BHU

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This is a foundations course for the Interfaith Leadership Certificate Program. It is a required course for students in this program and is open to all students. The course introduces students to knowledge, vision, and skills of interfaith leadership and is applicable to all majors.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

RELS1600 - Religion and Film - 3 - Credits

Course Overview

Course Prefix
RELS

Course Number
1600

Department
History, Cultures & Ideas

Course Title
Religion and Film

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
At the crossroads of film and religion, this course unpacks life's big questions as portrayed through the lens of cinema. "Religion and Film" explores themes such as life and death, the divine, love, sex, the soul, belonging, violence, and materiality.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Students will develop critical thinking skills .

2. Students will enhance their ability to analyze cultural and media products.

3. Students will learn how to watch films and analyze them.

4. Students will learn how to evaluate critically the ways in which the sacred is portrayed in popular culture and its implications for our understanding of the human experience in the 21st century.

RELS1680 - Horses, Humans, and Gods (BHU) - 3 - Credits

Course Overview

Course Prefix
RELS

Course Number
1680

Department
History, Cultures & Ideas

Course Title
Horses, Humans, and Gods (BHU)

General Education Attribute
BHU

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Horses play key roles in world mythologies and iconographies. Their presence enabled the dissemination of multiple religions, and their introduction has transformed others. This course explores the religious impacts of human-horse relationships across a spectrum of historical, cultural, and social settings.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Describe the broad history and contemporary manifestation of horse cultures' religious traditions, as well as the details of at least one community's.

2. Explain different ways in which horse-keeping communities' religious identities shape and respond to larger worldviews and to factors such as colonialism, racialism, nationalism, and economies.

3. Articulate the variety of socio-religious responses to biologically required, and thus broadly shared, necessities of horse-keeping and range of horse usage.

4. Closely read and critically analyze primary texts and scholarly writings.

RELS2050 - The Historical Jesus in a First Century Jewish Context - 3 - Credits

Course Overview

Course Prefix
RELS

Course Number
2050

Department
History, Cultures & Ideas

Course Title
The Historical Jesus in a First Century Jewish Context

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course exposes students to the ways in which scholars use historical data to understand who Jesus was and how his views and teaching relate to his original social and religious context.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

RELS3010 - Introduction to Buddhism (DHA) - 3 - Credits

Course Overview

Course Prefix
RELS

Course Number
3010

Department
History, Cultures & Ideas

Cross-Listed Courses
HIST3010 - Introduction to Buddhism (DHA)

Course Title
Introduction to Buddhism (DHA)

General Education Attribute
DHA

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
General survey of historical development, basic doctrine, and practice of Hinayana and Mahayana Buddhism.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

RELS3020 - Introduction to Hinduism (DHA) - 3 - Credits

Course Overview

Course Prefix
RELS

Course Number
3020

Department
History, Cultures & Ideas

Cross-Listed Courses
HIST3020 - Introduction to Hinduism (DHA)

Course Title
Introduction to Hinduism (DHA)

General Education Attribute
DHA

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Surveys history, doctrinal developments, and sociological concerns of Hinduism from the Vedic Period through the Modern Period. Focuses primarily on Hindu religious thought as applied to Hindu life through various modes of religious action.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

RELS3030 - Introduction to Islam (DHA) - 3 - Credits

Course Overview

Course Prefix
RELS

Course Number
3030

Department
History, Cultures & Ideas

Cross-Listed Courses
HIST3030 - Introduction to Islam (DHA)

Course Title
Introduction to Islam (DHA)

General Education Attribute
DHA

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course focuses on the core beliefs, historical practices, scriptures and sentiments that have defined historically Muslim communities. In addition, the course examines the spiritual dimensions, theological discourses and historical traditions of Islam.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

RELS3050 - Introduction to Christianity (DHA) - 3 - Credits

Course Overview

Course Prefix
RELS

Course Number
3050

Department
History, Cultures & Ideas

Course Title
Introduction to Christianity (DHA)

General Education Attribute
DHA

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course is intended to be a general survey of the historical development, basic doctrine and practice of Christianity.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

RELS3060 - Introduction to Judaism (DHA) - 3 - Credits

Course Overview

Course Prefix
RELS

Course Number
3060

Department
History, Cultures & Ideas

Cross-Listed Courses
HIST3060 - Introduction to Judaism (DHA)

Course Title
Introduction to Judaism (DHA)

General Education Attribute
DHA

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides a multidisciplinary survey of Judaism from its Biblical origins to modern times, including an introduction to its sacred texts, religious practices, and social dimensions.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

RELS3080 - Mormonism and the American Religious Experience (DHA) - 3 - Credits

Course Overview

Course Prefix
RELS

Course Number
3080

Department
History, Cultures & Ideas

Cross-Listed Courses
HIST3080 - Mormonism and the American Religious Experience (DHA)

Course Title
Mormonism and the American Religious Experience (DHA)

General Education Attribute
DHA

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students consider the history of Mormonism in the context of American religious history, including the history of religious groups that trace their origins to Joseph Smith, but focusing on the history of the Church of Jesus Christ of Latter-day Saints.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

RELS3110 - Transformative Mediation - 3 - Credits

Course Overview

Course Prefix
RELS

Course Number
3110

Department
History, Cultures & Ideas

Cross-Listed Courses
PI3110 - Transformative Mediation

Course Title
Transformative Mediation

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course equips students with practical skills in applying the theories of conflict resolution as third-party transformative mediators. Special attention is given to interpersonal, cultural and religious conflict.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ANY of the following Courses:

- RELS1070 - Religion, Violence, and Peace (BHU)
  OR PI2010 - Introduction to Peace Building and Transformative Conflict (BHU)

Course Learning Objectives

Course Learning Outcomes
1. Understand the theory behind transformative mediation practice.

2. Develop the ability to apply those theories to simulated conflicts in class.

3. Obtain a mediation skill set that allows students to do pre-mediation, conflict mapping, active listening, reframing and collaborative problem solving.

4. Develop the confidence and ability to use those skills in real world settings, particularly inter- and intra-faith, upon completion of the course.

RELS3125 - Religion & Science: Examining a Complex History of Interaction - 3 - Credits

Course Overview

Course Prefix
RELS

Course Number
3125

Department
History, Cultures & Ideas

Cross-Listed Courses
HIST3125 - Religion & Science: Examining a Complex History of Interaction

Course Title
Religion & Science: Examining a Complex History of Interaction

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course is a historical study of the relationship between religion and science. Students explore evolving definitions of science and religion, important figures during the early modern period, and the emergence of modern science and religion in the 19th-20th centuries.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

RELS3130 - Introduction to Christian Peacebuilding - 3 - Credits

Course Overview

Course Prefix
RELS

Course Number
3130

Department
History, Cultures & Ideas

Course Title
Introduction to Christian Peacebuilding

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course explores how Christianity has contributed to critical peacebuilding concepts and movements in historical and contemporary societies around the world. Students survey the history, theology, and practices of some of Christianity's major religious traditions.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes
1. Gain familiarity with the history, theology, language, and concepts necessary to have sophisticated conversations about the topic of Christian peacebuilding.

2. Acquire transformative conflict and peacebuilding skills that can be applied in various conflicts with both Christians and non-Christians.

3. Develop critical thinking, reading, speaking, and writing skills.

RELS3160 - Anthropology of Religion (DSS) - 3 - Credits

Course Overview

Course Prefix
RELS

Course Number
3160

Department
History, Cultures & Ideas

Cross-Listed Courses
ANTH3160 - Anthropology of Religion (DSS)

Course Title
Anthropology of Religion (DSS)

General Education Attribute
DSS

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Cross-cultural description and theoretical analysis of religion and its functional relationships to human psychology, society, and the natural environment.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

RELS3165 - Bridging Religious Difference in Theory and Practice: an Introduction to Interfaith Leadership - 3 - Credits

Course Overview

Course Prefix
RELS

Course Number
3165

Department
History, Cultures & Ideas

Cross-Listed Courses
ANTH3165 - Bridging Religious Difference in Theory and Practice: an Introduction to Interfaith Leadership

Course Title
Bridging Religious Difference in Theory and Practice: an Introduction to Interfaith Leadership

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces students to the knowledge, values, and skill-sets needed to navigate religious complexity and diversity in the world today. As of Fall 2018, course will serve as a required foundations course for proposed interdisciplinary Interfaith Studies Certificate Program

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

RELS3170 - Descent and Return: Ancient Views of Hades and the Afterlife - 3 - Credits

Course Overview

Course Prefix
RELS

Course Number
3170

Department
History, Cultures & Ideas

Cross-Listed Courses
CLAS3170 - Descent and Return: Ancient Views of Hades and the Afterlife, HIST3170 - Descent and Return: Ancient Views of Hades and the Afterlife

Course Title
Descent and Return: Ancient Views of Hades and the Afterlife

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course will focus on classical views of Hades and the afterlife, paying special attention to the gods and heroes, such as Persephone, Odysseus, Orpheus, and Aeneas, who were able to make the journey down into Hades while alive and then return back to the upper world. We will also discuss the historical background to the works and related religious and literary themes.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

RELS3190 - The Old Testament: The Hebrew Bible in Context - 3 - Credits

Course Overview

Course Prefix
RELS

Course Number
3190

Department
History, Cultures & Ideas

Course Title
The Old Testament: The Hebrew Bible in Context

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides students with a general introduction to the collection of writings known as the Old Testament. In addition to reading the biblical texts themselves, the course is intended to introduce students to literary-historical methods of biblical research and scholarship.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

RELS3210 - Classical Mythology - 3 - Credits

Course Overview

Course Prefix
RELS

Course Number
3210

Department
History, Cultures & Ideas

Cross-Listed Courses
ARTH3210 - Classical Mythology, CLAS3210 - Classical Mythology, ENGL3210 - Classical Mythology, HIST3210 - Classical Mythology

Course Title
Classical Mythology

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces major myths of the Classical world and explores how these myths serve as keys to understanding the documents and arts of Classical civilization.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

RELS3220 - Medieval European Civilization, 500-1500 (DHA/CI) - 3 - Credits

Course Overview

Course Prefix
RELS

Course Number
3220

Department
History, Cultures & Ideas

Cross-Listed Courses
HIST3220 - Medieval European Civilization, 500-1500 (DHA/CI)

Course Title
Medieval European Civilization, 500-1500 (DHA/CI)

General Education Attribute
CI, DHA

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Provides students with overview of major themes in medieval European history from 500 to 1500 A.D. Also introduces major historiographical problems related to this period. Writing intensive and document based.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Course Sets:

- Communications Literacy (CL2) Course

RELS3260 - Fire and Blood: The Mongol World Empire - 3 - Credits

Course Overview

Course Prefix
RELS

Course Number
3260

Department
History, Cultures & Ideas

Cross-Listed Courses
HIST3260 - Fire and Blood: The Mongol World Empire

Course Title
Fire and Blood: The Mongol World Empire

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course explores the Mongol Empire's rise from 13th-15th centuries and its impact on global history. Delve into social, military, cultural, and political history, examining interactions between nomadic and settled societies through primary sources and diverse secondary scholarly perspectives.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Course Learning Objectives

Course Learning Outcomes
1. Students will acquire a comprehensive understanding of the Mongol Empire's historical significance, particularly in relation to religious dynamics and cultural interactions across Eurasia.
2. Students will critically read primary source material from the period and contextualize it from the perspective of course lectures and modern studies.
3. Students will closely read and critique secondary scholarly literature on the history of the Mongols and become familiar with debates in the field.
4. Students will compare and contrast the religious landscapes before, during, and after Mongol rule in Eurasia.

RELS3270 - The Crusades (DHA) - 3 - Credits

Course Overview

Course Prefix
RELS

Course Number
3270

Department
History, Cultures & Ideas

Cross-Listed Courses
HIST3270 - The Crusades (DHA)

Course Title
The Crusades (DHA)

General Education Attribute
DHA

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course follow the evolution of the concept of holy war in Europe, western Asia and North Africa from the European campaigns to Jerusalem in the 1000s CE to the expansion of the Muscovite and Ottoman empires in the 1500s.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

RELS3290 - Studying the New Testament - 3 - Credits

Course Overview

Course Prefix
RELS

Course Number
3290

Department
History, Cultures & Ideas

Cross-Listed Courses
CLAS3290 -
Studying the New Testament, HIST3290 - Studying the New Testament

Course Title
Studying the New Testament

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides students a scholarly introduction to the collection of writings known as the New Testament. In addition to reading the biblical texts themselves, the course is intended to introduce students to literary-historical methods of biblical research and scholarship.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

RELS3330 - Jesus Through the Centuries - 3 - Credits

Course Overview

Course Prefix
RELS

Course Number
3330

Department
History, Cultures & Ideas

Course Title
Jesus Through the Centuries

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Jesus of Nazareth is one of history's most discussed figures. This course explores how Christians and others worldwide have interpreted him, and to what ends. Analysis of textual and artistic primary sources will be the foundation of the class.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Other Enrollment Recommendations
Recommended for students who have already completed the Breadth Humanities (BHU) requirement or its replacement.

Course Learning Objectives

Course Learning Outcomes
1. Covers the central doctrines and practices of Christians – a term not attested until seventy or more years after the death of Jesus. But Christological doctrine, as mentioned above, has largely remained settled for more than 1,500 years. Conceptualizations of Jesus have varied immensely, often to great impact, but they simply cannot receive due attention in a course that must also substantively cover religious authority; church-state relations; martyrdom; soteriology; eschatology; the constitution of sacraments; missions; the role of images; saints; scholasticism; mysticism; etc. The foundational Christology officially promulgated at the Council of Nicaea (325) is widely shared across the expanse of Christianity.
2. The shared Christology has paradoxically allowed for an endless array of conceptualizations of Jesus, united in little beyond a vital agreement about his importance. Cultural representations of Jesus, and political deployments of the figure, are but two arenas abounding in concrete examples of this phenomenon.

RELS3400 - History of the Ottoman Empire - 3 - Credits

Course Overview

Course Prefix
RELS

Course Number
3400

Department
History, Cultures & Ideas

Cross-Listed Courses
HIST3400 - History of the Ottoman Empire

Course Title
History of the Ottoman Empire

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers the Ottoman Empire (1300-1924), tracing its evolution from a small Anatolian "beylik" to a global powerhouse. It examines Byzantine, Turkic, and Islamic influences, exploring state formation, cultural identity, and decline narratives through primary sources and multimedia resources.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Course Learning Objectives

Course Learning Outcomes
1. Students will gain broad knowledge of the history of the Ottoman Empire and its impact on the societies in the Middle East, Balkans, and eastern Europe (ca. 1300-1900).

2. Students will compare experiences across different eras and regions within the Ottoman domains to identify enduring historical issues.

3. Students will construct well-reasoned arguments based on primary and secondary sources in Ottoman historical writing.

4. Students will analyze how religious values (Muslim and Christian) and institutions shaped Ottoman culture and governance.

RELS3410 - The Modern Middle East - 3 - Credits

Course Overview

Course Prefix
RELS

Course Number
3410

Department
History, Cultures & Ideas

Cross-Listed Courses
HIST3410 - The Modern Middle East

Course Title
The Modern Middle East

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course investigates the social, economic, cultural, and political developments in the Middle East since World War I. Topics include interactions with the West, modernity and globalization, orientalism, Islamic reform, nationalism and communism, and the rise of extremism.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

RELS3420 - Gods and Goddesses of India - 3 - Credits

Course Overview

Course Prefix
RELS

Course Number
3420

Department
History, Cultures & Ideas

Course Title
Gods and Goddesses of India

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course explores the living traditions dedicated to the goddesses and gods of Hinduism. We will examine themes such as dance, drama, sculpture, pilgrimage, possession, and the worship of river goddesses.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

RELS3430 - History of Ancient Religions - 3 - Credits

Course Overview

Course Prefix
RELS

Course Number
3430

Department
History, Cultures & Ideas

Cross-Listed Courses
HIST3430 - History of Ancient Religions

Course Title
History of Ancient Religions

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students learn the intellectual and cultural history of religion and the dominant academic methods used for evaluating them. To that end, the course is an examination of the academic methodology, religious literature, and Greek, Judaic, Chinese, and Indian intellectual history.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

RELS3440 - Muslims and Jews: Medieval and Modern Encounters - 3 - Credits

Course Overview

Course Prefix
RELS

Course Number
3440

Department
History, Cultures & Ideas

Cross-Listed Courses
HIST3440 - Muslims and Jews: Medieval and Modern Encounters

Course Title
Muslims and Jews: Medieval and Modern Encounters

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course explores historical interactions between Muslims and Jews, from the Middle Ages to modern times. The course includes religious, legal, and cultural topics, as well as the Israel-Palestine conflict, with interest in peacebuilding.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

RELS3456 - History of South Asia (DHA) - 3 - Credits

Course Overview

Course Prefix
RELS

Course Number
3456

Department
History, Cultures & Ideas

Cross-Listed Courses
HIST3456 - History of South Asia (DHA)

Course Title
History of South Asia (DHA)

General Education Attribute
DHA

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course surveys the subcontinental history of South Asia from the emergence of civilization along the Indus Valley to the "Global War on Terrorism." It includes special emphasis on the development of the modern states of South Asia.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. To evaluate debates among historians in regard to Jewish-Muslim interaction in the medieval and modern Middle East.

2. To apply appropriate methods of research and argumentation to questions concerning the encounter of Judaism and Islam.

3. To analyze key primary and secondary sources to differentiate between historical facts and historical interpretations.

4. To write critically about the complex nature of past experiences to explain how Jews and Muslims have existed and coexisted in particular historical periods.

RELS3470 - Religion and Politics in South Asia - 3 - Credits

Course Overview

Course Prefix
RELS

Course Number
3470

Department
History, Cultures & Ideas

Cross-Listed Courses
HIST3470 - Religion and Politics in South Asia

Course Title
Religion and Politics in South Asia

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course offers an introduction to South Asian religio-political history combined with an examination of how religion and politics intersect in India and Pakistan, with a focus on the 19th and 20th centuries.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

RELS3482 - Ancient China to 1800 (DHA) - 3 - Credits

Course Overview

Course Prefix
RELS

Course Number
3482

Department
History, Cultures & Ideas

Cross-Listed Courses
HIST3482 - Ancient China to 1800 (DHA)

Course Title
Ancient China to 1800 (DHA)

General Education Attribute
DHA

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course traces the emergence of political states within China and their eventual unification into a single empire, an institution that persisted for millennia. The development of literature, religion, philosophy, and material culture in Chinese society all played a role in shaping the character of what became China today.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

RELS3510 - Islamic Visual Cultures (CI/DHA) - 3 - Credits

Course Overview

Course Prefix
RELS

Course Number
3510

Department
History, Cultures & Ideas

Course Title
Islamic Visual Cultures (CI/DHA)

General Education Attribute
CI, DHA

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Explores the emergence and development of Islamic visual cultures in Asia and around the Mediterranean between 622 and 1250.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

RELS3710 - Topics in Folklore (CI) - 3 - Credits

Course Overview

Course Prefix
RELS

Course Number
3710

Department
History, Cultures & Ideas

Cross-Listed Courses
ANTH3710 - Topics in Folklore (CI), ENGL3710 - Topics in Folklore (CI), HIST3710 - Topics in Folklore (CI)

Course Title
Topics in Folklore (CI)

General Education Attribute
CI

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Issues, problems, and methodologies in folklore study. Focus and instructor variable.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

RELS3820 - Hindu Sacred Texts (CI) - 3 - Credits

Course Overview

Course Prefix
RELS

Course Number
3820

Department
History, Cultures & Ideas

Course Title
Hindu Sacred Texts (CI)

General Education Attribute
CI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
In this intensive study of two influential sacred texts from the Hindu traditions, the Upanishads and Bhagavad Gita, students use several translations, traditional commentaries, and modern expositions to address philosophical issues including evil, free will, and the nature of God.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete at least 1 of the following courses:

- RELS1010 - Introduction to Religious Studies (BHU)
- RELS3020 - Introduction to Hinduism (DHA)
- RELS3420 - Gods and Goddesses of India

RELS3830 - The History of Yoga - 3 - Credits

Course Overview

Course Prefix
RELS

Course Number
3830

Department
History, Cultures & Ideas

Cross-Listed Courses
ENGL3830 - The History of Yoga, HIST3830 - The History of Yoga, KIN3830 - The History of Yoga

Course Title
The History of Yoga

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course explores the history of yoga from its origins in Indian prehistory to the variety of philosophies and practices that have evolved throughout the world. Students study ancient and modern texts on yoga and broader philosophy and theory.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

RELS4015 - Buddhism and the West - 3 - Credits

Course Overview

Course Prefix
RELS

Course Number
4015

Department
History, Cultures & Ideas

Cross-Listed Courses
HIST4015 - Buddhism and the West

Course Title
Buddhism and the West

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This is a one-semester introduction to Buddhism in the Western world for non-specialists in Buddhism. It focuses on the development of Buddhism as a Western religious phenomenon. It presents an interpretive, historical introduction to Buddhism in the West.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

RELS4230 - The History of Christianity in the West (DHA/CI) - 3 - Credits

Course Overview

Course Prefix
RELS

Course Number
4230

Department
History, Cultures & Ideas

Cross-Listed Courses
HIST4230 - The History of Christianity in the West (DHA/CI)

Course Title
The History of Christianity in the West (DHA/CI)

General Education Attribute
CI, DHA

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Introduces students to history of Christian spirituality, asking how Christianity has been lived and how it has shaped lives over two thousand years. Uses original sources to introduce both the history and the historiographical problems surrounding the Christian religion. Writing intensive.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

RELS4350 - Greek Intellectual History - 3 - Credits

Course Overview

Course Prefix
RELS

Course Number
4350

Department
History, Cultures & Ideas

Cross-Listed Courses
HIST4350 - Greek Intellectual History

Course Title
Greek Intellectual History

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Through reading and discussing Greek literature and philosophy, attempts to understand the major Greek philosophers, in the context of the major literary authors of the period and contemporary political developments.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- CLAS3210 - Classical Mythology

RELS4520 - Religious Studies Editing Internship - 1 - 3 Credits

Course Overview

Course Prefix
RELS

Course Number
4520

Department
History, Cultures & Ideas

Course Title
Religious Studies Editing Internship

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This internship includes training in requirements of editorial work for scholarly journals and books. It emphasizes editing techniques and mechanics of editorial work. The course can be repeated for credit only once.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

No Requirements

RELS4555 - Women in Buddhism - 3 - Credits

Course Overview

Course Prefix
RELS

Course Number
4555

Department
History, Cultures & Ideas

Cross-Listed Courses
HIST4555 - Women in Buddhism

Course Title
Women in Buddhism

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course explores the historical, textual, and social questions relevant to the status of women in the Buddhist world ranging from the time of Buddhism's origins in South Asia to the present day.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

RELS4560 - Women in Islam (DHA) - 3 - Credits

Course Overview

Course Prefix
RELS

Course Number
4560

Department
History, Cultures & Ideas

Cross-Listed Courses
HIST4560 - Women in Islam (DHA)

Course Title
Women in Islam (DHA)

General Education Attribute
DHA

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Within a religious and historical framework, it explores topics such as gender and social roles, women's rights, veiling and dress, female circumcisions, arranged marriages, education, employment, parenting, honor killings, and politics in the lives of Islamic women. A basic knowledge of Islam is recommended before enrolling.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

RELS4565 - Medieval Islam (DHA) - 3 - Credits

Course Overview

Course Prefix
RELS

Course Number
4565

Department
History, Cultures & Ideas

Cross-Listed Courses
HIST4565 - Medieval Islam (DHA)

Course Title
Medieval Islam (DHA)

General Education Attribute
DHA

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course focuses on the history of the Islamic world to the 1400s, beginning in sixth-century Arabia and ending with the conversion of the western Mongol states to Islam and the rise of the Ottoman Empire.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

RELS4566 - Global Faces of Islam (DHA) - 3 - Credits

Course Overview

Course Prefix
RELS

Course Number
4566

Department
History, Cultures & Ideas

Cross-Listed Courses
HIST4566 - Global Faces of Islam (DHA)

Course Title
Global Faces of Islam (DHA)

General Education Attribute
DHA

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces students to the modern and contemporary Islamic world. Students examine how colonialism, imperialism, industrialization, capitalism, decolonization, and mass media have shaped what it means to be Muslim and how Muslims envision themselves within a globalized world.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

RELS4567 - Slavery in the Islamic World - 3 - Credits

Course Overview

Course Prefix
RELS

Course Number
4567

Department
History, Cultures & Ideas

Cross-Listed Courses
HIST4567 - Slavery in the Islamic World

Course Title
Slavery in the Islamic World

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course explores the social, political, cultural, legal, and economic dimensions of slavery in the history of the Islamic world (600-1600). The course allows students to outline the establishment, growth, and evolution of slavery in the Muslim world.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Becoming familiar with slavery in a global context, and to analyze the comparative dimensions that made slavery in the Islamic world different.

2. To analyze the different forms of the institutions of slavery, clientage, and concubinage in Islamic History.

3. Developing the reading skills necessary to navigate primary source materials and engage critically with secondary scholarship.

RELS4730 - History of Black America (CI) - 3 - Credits

Course Overview

Course Prefix
RELS

Course Number
4730

Department
History, Cultures & Ideas

Cross-Listed Courses
HIST4730 - History of Black America (CI)

Course Title
History of Black America (CI)

General Education Attribute
CI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Study of African-American experience from slavery to freedom, as well as the difficult quest for democracy and equality in contemporary America. Includes both creative and research writing components.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

RELS4790 - American Religious History - 3 - Credits

Course Overview

Course Prefix
RELS

Course Number
4790

Department
History, Cultures & Ideas

Cross-Listed Courses
HIST4790 - American Religious History

Course Title
American Religious History

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Varieties of American religious experience from settlement to the present.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

RELS4825 - Historical Roots of the War on Terror (DHA) - 3 - Credits

Course Overview

Course Prefix
RELS

Course Number
4825

Department
History, Cultures & Ideas

Cross-Listed Courses
HIST4825 - Historical Roots of the War on Terror (DHA)

Course Title
Historical Roots of the War on Terror (DHA)

General Education Attribute
DHA

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course offers students a critical understanding of the historical roots of the global “War on Terror” by familiarizing them with the ideological underpinnings (both Islamic and Western) of the conflict, socio-economic factors, and the historical antecedents of modern-day terrorism.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

RELS4910 - Special Topics in Religious Studies - 1 - 3 Credits

Course Overview

Course Prefix
RELS

Course Number
4910

Department
History, Cultures & Ideas

Course Title
Special Topics in Religious Studies

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Examination of special areas and themes in religious studies.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

RELS4930 - Directed Readings - 1 - 3 Credits

Course Overview

Course Prefix
RELS

Course Number
4930

Department
History, Cultures & Ideas

Course Title
Directed Readings

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Directed readings in any special religious studies field. For each credit granted, a minimum of four books must be read.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

Special Approval
Instructor permission

No Requirements

RELS4990 - Religious Studies Senior Seminar - 3 - Credits

Course Overview

Course Prefix
RELS

Course Number
4990

Department
History, Cultures & Ideas

Course Title
Religious Studies Senior Seminar

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Through close readings of texts and seminar-style discussions, students will deepen their ability to read, think, speak, and write about religion. They will reflect on how these skills are applicable in a variety of careers. Readings will vary by semester.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

RELS5195 - Interfaith Leadership Practicum Experience - 3 - Credits

Course Overview

Course Prefix
RELS

Course Number
5195

Department
History, Cultures & Ideas

Cross-Listed Courses
ANTH5195 - Interfaith Leadership Practicum Experience

Course Title
Interfaith Leadership Practicum Experience

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This is a semester-length, supervised, practicum/capstone experience for the Interfaith Leadership Certificate. Students apply classroom-based methods and theories in interfaith leadership to real-world problems.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Fulfill ALL of the following requirements:

Required

Complete at least 1 of the following courses:

- ANTH1090 - Introduction to Interfaith Leadership (BHU)
  OR RELS1090 - Introduction to Interfaith Leadership (BHU)

AND

Required

Complete at least 1 of the following courses:

- ANTH3160 - Anthropology of Religion (DSS)
  OR RELS1010 - Introduction to Religious Studies (BHU)

RELS5740 - Art and Religion: Topics in Sacred Art - 3 - Credits

Course Overview

Course Prefix
RELS

Course Number
5740

Department
History, Cultures & Ideas

Cross-Listed Courses
ARTH5740 - Art and Religion: Topics in Sacred Art

Course Title
Art and Religion: Topics in Sacred Art

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Discussion-based course investigating relationships between religion and the arts. May focus on any period of history or region of the world, depending on scholarly interests of instructor.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

RUSS1010 - Russian First Year I - 4 - Credits

Course Overview

Course Prefix
RUSS

Course Number
1010

Department
World Languages and Cultures

Course Title
Russian First Year I

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Communicative competencies in the four language skills: speaking, listening, reading, and writing, with exposure to cultures and customs.

Credit Hours

Credit Hours
Min:
4

Contact Hours

Contact Hours
Min:
4

Billing Hours

Billing Hours
Min:
4

Lecture Hours

Lecture Hours
Min:
4

Other Enrollment Recommendations
Not open to those with more than one year high school Russian or equivalent.

No Requirements

RUSS1020 - Russian First Year II - 4 - Credits

Course Overview

Course Prefix
RUSS

Course Number
1020

Department
World Languages and Cultures

Course Title
Russian First Year II

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Communicative competencies in the four language skills: speaking, listening, reading, and writing, with exposure to cultures and customs.

Credit Hours

Credit Hours
Min:
4

Contact Hours

Contact Hours
Min:
4

Billing Hours

Billing Hours
Min:
4

Lecture Hours

Lecture Hours
Min:
4

Simple Requisites

Prerquisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- RUSS1010 - Russian First Year I

(or not more than three years of high school Russian)

RUSS1030 - Accelerated Russian First Year - 4 - Credits

Course Overview

Course Prefix
RUSS

Course Number
1030

Department
World Languages and Cultures

Course Title
Accelerated Russian First Year

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course corresponds to the two semesters of beginning Russian and covers communicative competence in four skills: listening, reading, writing, and speaking. Develops intercultural competence.

Credit Hours

Credit Hours
Min:
4

Contact Hours

Contact Hours
Min:
4

Billing Hours

Billing Hours
Min:
4

Lecture Hours

Lecture Hours
Min:
4

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. To familiarize students with the major topics and events of Slavic cultural history.

2. To identify the representatives of Slavic culture in art, music, and literature.

3. To develop an appreciation for the Slavic contribution to world civilization.

4. To analyze, interpret and describe the critical ideas, values, and themes that appear in literary and cultural texts.

RUSS1050 - Eastern Slavic Civilization - 3 - Credits

Course Overview

Course Prefix
RUSS

Course Number
1050

Department
World Languages and Cultures

Course Title
Eastern Slavic Civilization

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course surveys the art, music, and literature of the Eastern Slavic people from the earliest times through the 18th century. It places these and other arts in their socio-cultural contexts. The course is taught in English.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Students learn about the Russian cultural identity, its tensions, and religious, historical, and other groundings.
2. Students develop intercultural awareness in areas such as ideological structures, communication, and lifestyles.
3. Students explore the cultural values of Russia and the U.S.

RUSS2010 - Russian Second Russian Second Year I - 4 - Credits

Course Overview

Course Prefix
RUSS

Course Number
2010

Department
World Languages and Cultures

Course Title
Russian Second Russian Second Year I

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students further develop first-year competencies with emphasis on language structure, vocabulary expansion, reading, writing, and conversation in the context of culture.

Credit Hours

Credit Hours
Min:
4

Contact Hours

Contact Hours
Min:
4

Billing Hours

Billing Hours
Min:
4

Lecture Hours

Lecture Hours
Min:
4

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Prerequisite can be fulfilled with one of the following options:

Fulfill ANY of the following requirements:

Prerequisite

Complete ALL of the following Courses:

- RUSS1020 - Russian First Year II

OR

Exam

Language Proficiency Exam
USU World Languages and Cultures Language Proficiency Placement test score of 370-439

RUSS2020 - Russian Second Year II - 4 - Credits

Course Overview

Course Prefix
RUSS

Course Number
2020

Department
World Languages and Cultures

Course Title
Russian Second Year II

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students further develop of skills and cultural competencies with emphasis on language structure, vocabulary expansion, reading, writing, and verbal communication in the context of culture.

Credit Hours

Credit Hours
Min:
4

Contact Hours

Contact Hours
Min:
4

Billing Hours

Billing Hours
Min:
4

Lecture Hours

Lecture Hours
Min:
4

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Prerequisite can be fulfilled with one of the following options:

Fulfill ANY of the following requirements:

Prerequisite

Complete ALL of the following Courses:

- RUSS2010 - Russian Second Russian Second Year I

OR

Exam

Language Proficiency Exam

USU World Languages and Cultures Language Proficiency Placement test score of 440-499

RUSS2030 - Accelerated Russian Second Year - 4 - Credits

Course Overview

Course Prefix
RUSS

Course Number
2030

Department
World Languages and Cultures

Course Title
Accelerated Russian Second Year

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
The course builds on the RUSS 1040 course outcomes to further develop student language proficiency in Russian, particularly the conversational speaking competency. It includes listening, reading, writing, and speaking skills. It works on intercultural competence.

Credit Hours

Credit Hours Min:
4

Contact Hours

Contact Hours Min:
4

Billing Hours

Billing Hours Min:
4

Lecture Hours

Lecture Hours Min:
4

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Prerequisite may be fulfilled through coursework or by proficiency testing.

Fulfill ANY of the following requirements:

Coursework

Complete ALL of the following Courses:

- RUSS1020 - Russian First Year II
  OR RUSS1040 - Accelerated Russian First Year (Inactive)

OR

Testing

Proficiency Testing

- Equivalent proficiency testing score of 370+

Course Learning Objectives

Course Learning Outcomes

1. To develop conversational abilities in Russian, including speaking, reading, listening, and writing skills.

2. To prepare for the linguistic competency required for the more advanced coursework in Russian.

3. To reach intermediate-level proficiency, as determined by ACTFL.

RUSS2700 - Exploring Russian Folktales - 3 - Credits

Course Overview

Course Prefix
RUSS

Course Number
2700

Department
World Languages and Cultures

Course Title
Exploring Russian Folktales

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces students to Russian folktales and how they reflect continuing aesthetic, cultural, social and psychological values in everyday life. The course is taught in English.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

RUSS2880 - Individual Readings - 1 - 4 Credits

Course Overview

Course Prefix
RUSS

Course Number
2880

Department
World Languages and Cultures

Course Title
Individual Readings

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Individual study of selected readings in Russian.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
4

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
4

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
4

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
4

Lecture Hours Operator:
TO

Special Approval
Instructor permission

No Requirements

RUSS2988 - Special Problems - 1 - 3 Credits

Course Overview

Course Prefix
RUSS

Course Number
2988

Department
World Languages and Cultures

Course Title
Special Problems

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
An elective course intended for advanced students. Students will work individually with the instructor to develop reading, writing, listening and speaking skills. Emphasis will be on advanced grammar and conversation. Russian culture will also be emphasized. Significant reading and work outside of class are required.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

No Requirements

RUSS3040 - Advanced Russian Grammar and Composition - 3 - Credits

Course Overview

Course Prefix
RUSS

Course Number
3040

Department
World Languages and Cultures

Course Title
Advanced Russian Grammar and Composition

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Detailed presentation of Russian grammar. Class discussions and work on oral and written assignments.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Prerequisite may be fulfilled through coursework or by proficiency testing.

Fulfill ANY of the following requirements:

Coursework

Complete ALL of the following Courses:

- RUSS2020 - Russian Second Year II

OR

Testing

Proficiency Testing

- Equivalent proficiency testing score of 500+

RUSS3050 - Advanced Russian Grammar and Composition - 3 - Credits

Course Overview

Course Prefix
RUSS

Course Number
3050

Department
World Languages and Cultures

Course Title
Advanced Russian Grammar and Composition

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Detailed presentation of Russian grammar. Class discussions and work on oral and written assignments.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Prerequisite may be fulfilled through coursework or by proficiency testing.

Fulfill ANY of the following requirements:

Coursework

Complete ALL of the following Courses:

- RUSS2020 - Russian Second Year II

OR

Testing

Proficiency Test

- Equivalent proficiency testing score of 500+

RUSS3100 - Healthcare Russian - 3 - Credits

Course Overview

Course Prefix
RUSS

Course Number
3100

Department
World Languages and Cultures

Course Title
Healthcare Russian

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
A comprehensive and foundational exploration of the specialized language used in the healthcare and medical fields. Designed for students, healthcare professionals, and anyone interested in gaining proficiency in Russian medical terminology to communicate in healthcare settings. In English and Russian.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete the following:
Any 3000-level RUSS course **except** RUSS3510 BUSINESS RUSSIAN (CI),

Additional Comments:

Course Learning Objectives

Course Learning Outcomes

Learning outcomes: Students who successfully complete this course are expected to be able to:

1. Recall and adequately use language terminology and concepts relating to human anatomy physiology, diseases and symptoms, medical procedures, medications, treatments, and healthcare professionals that are used in common medical communication tasks.
2. Communicate fluently in the L2 in provider-patient interactions by expressing needs and symptoms, understanding advice, and asking and answering questions.
3. Identify medical textual genres and rhetorical patterns to read and adequately interpret information.
4. Contrast medical cultures to identify possible cultural and interpersonal aspects that may hinder communication between English and Russian-speaking populations as well as strategies to resolve miscommunications

RUSS3116 - Rusophone Popular Culture: Trends and Traditions - 3 - Credits

Course Overview

Course Prefix
RUSS

Course Number
3116

Department
World Languages and Cultures

Course Title
Rusophone Popular Culture: Trends and Traditions

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
An exploration of current film, media, and entertainment in the Russian-speaking world, including historical and cultural perspectives. Students develop interpretive and communication skills related to events, experiences, points of view, complex issues, and academic, social, and professional topics.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

NEWL Exam

Russian NEWL Exam

- Score of 3 or higher

Course Learning Objectives

Course Learning Outcomes

1. Identify, describe, and explain the historical, political, social, and artistic significance of popular cultural products, practices, and perspectives of the Russian-speaking world.
2. Compare and contrast cultural similarities and differences of the Russian-speaking pop-culture and the learners' own culture.
3. Argue and defend their position on pop-culture using multiple perspectives.
4. Evaluate a variety of culturally authentic sources—audio, written and audiovisual—about a diverse array of pop culture topics from the Russian-speaking world.

RUSS3117 - Exploring Russia: East to West - 3 - Credits

Course Overview

Course Prefix
RUSS

Course Number
3117

Department
World Languages and Cultures

Course Title
Exploring Russia: East to West

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course follows the route of the world's longest train journey, the Trans-Siberian Railway, where students explore historical, cultural and environmental issues essential to understanding ourselves and the peoples of Russia.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Exam

NEWL Exam

- Score of 3 or higher

Course Learning Objectives

Course Learning Outcomes
1. Identify and describe significant cultural products, practices and perspectives of Russian cultural identity.

2. Create narratives based on course content and personal experiences.

3. Analyze intercultural perspectives in the narratives and experiences of others.

4. Articulate a position on cultural comparisons of products, practices and perspectives with clarity and cohesion.

RUSS3300 - Contemporary Russian Language and Culture (DHA) - 3 - Credits

Course Overview

Course Prefix
RUSS

Course Number
3300

Department
World Languages and Cultures

Course Title
Contemporary Russian Language and Culture (DHA)

General Education Attribute
DHA

Grade Mode
Standard Letter

Repeat Status
NR

Course Description

Reading and discussion of contemporary popular, literary, and scientific materials in Russian. Also cultural and historical considerations of today's Russia.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisiite

Type
Prerequisite

Required

Prerequisite may be fulfilled through coursework or by proficiency testing.

Fulfill ANY of the following requirements:

Coursework

Complete ALL of the following Courses:

- RUSS2020 - Russian Second Year II

OR

Proficiency Testing

Proficiency Testing

- Equivalent proficiency testing score of 500+

RUSS3400 - Russian Language through Art - 3 - Credits

Course Overview

Course Prefix
RUSS

Course Number
3400

Department
World Languages and Cultures

Course Title
Russian Language through Art

Grade Mode
Standard Letter

Repeat Status
NR

Course Description

Explores Russian art and art as a tool for language learning and cultural immersion. Through visual analysis, critical discussion, and creative projects, students expand vocabulary, improve oral and written skills, and deepen their understanding of Russian cultural history.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- RUSS2030 - Accelerated Russian Second Year

Course Learning Objectives

Course Learning Outcomes

Students will be able to:

1. Analyze and discuss Russian and Russian-speaking cultures' artworks, and art more generally, using appropriate vocabulary and grammar in both oral and written Russian.

2. Interpret cultural and historical contexts of major Russian and Russian-speaking cultures' artistic movements and styles.

3. Apply intermediate-level Russian language skills to describe visual elements and express aesthetic judgments.

4. Conduct short research presentations on artists or art movements at a local art museum.

5. Demonstrate improved fluency and confidence in engaging with authentic Russian language texts and multimedia related to art.

RUSS3510 - Business Russian (CI) - 3 - Credits

Course Overview

Course Prefix
RUSS

Course Number
3510

Department
World Languages and Cultures

Course Title
Business Russian (CI)

General Education Attribute
CI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Study of current Russian business and commercial terminology and practices. Development of communication skills for international Russian business purposes.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Prerequisite may be fulfilled through coursework or by proficiency testing.

Fulfill ANY of the following requirements:

Coursework

Complete ALL of the following Courses:

- RUSS2020 - Russian Second Year II

OR

Testing

Proficiency Testing

- Equivalent proficiency testing score of 500+

RUSS3540 - Russian Translation for Science, Business, and Culture - 3 - Credits

Course Overview

Course Prefix
RUSS

Course Number
3540

Department
World Languages and Cultures

Course Title
Russian Translation for Science, Business, and Culture

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Familiarization with approaches to translation, special grammatical structures, specialized vocabulary, and reference materials and aids. Practical exercises.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Prerequisite may be fulfilled through coursework or by proficiency testing.

Fulfill ANY of the following requirements:

Coursework

Complete ALL of the following Courses:

- RUSS2020 - Russian Second Year II

OR

Testing

Proficiency Testing

- Equivalent proficiency testing score of 500+

RUSS3600 - Ethical Communication in Russian Life - 3 - Credits

Course Overview

Course Prefix
RUSS

Course Number
3600

Department
World Languages and Cultures

Course Title
Ethical Communication in Russian Life

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course expands student knowledge and understanding of ethical considerations in everyday Russian life. It also further develops student language skills required to manage these situations successfully.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Prerequisite may be fulfilled through coursework or by proficiency testing.

Fulfill ANY of the following requirements:

Coursework

Complete ALL of the following Courses:

- RUSS2020 - Russian Second Year II

OR

Test

Proficiency Testing

- Equivalent proficiency testing score of 500+

RUSS4081 - Medical Interpreting Training - 3 - Credits

Course Overview

Course Prefix
RUSS

Course Number
4081

Department
World Languages and Cultures

Course Title
Medical Interpreting Training

Grade Mode
Standard Letter

Repeat Status
RP

Course Description

This medical interpreting training course introduces students to specialized terminology, modes of interpreting, and code of ethics and procedures. Students receive a certificate of completion on interpreting training that will give them the opportunity to work as medical interpreters.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Other Enrollment Recommendations

RUSS2020 RUSSIAN SECOND YR II

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Prerequisite may be fulfilled through coursework or by proficiency testing.

Fulfill ANY of the following requirements:

Coursework

Complete ALL of the following Courses:

- RUSS1010 - Russian First Year I
- RUSS1020 - Russian First Year II

OR

Testing

Proficiency Testing

- Equivalent proficiency testing score of 500+

Course Learning Objectives

Course Learning Outcomes

1. Understand and accurately interpret medical terminology, procedures, and concepts.

2. Recognize and interpret specialized vocabulary related to various medical fields (e.g., cardiology, oncology, pediatrics).

3. Comprehend the ethical standards and practices specific to medical translation and interpretation.

4. Identify and adhere to confidentiality requirements and patient privacy laws (e.g., HIPAA in the United States).

5. Understand the impact of cultural differences on communication in medical settings.

6. Recognize and address potential cultural barriers to effective translation and interpretation.

7. Develop proficiency in both consecutive and simultaneous interpretation techniques.

8. Practice interpreting patient-provider interactions, medical histories, informed consent, and discharge instructions.

RUSS4880 - Individual Readings - 1 - 4 Credits

Course Overview

Course Prefix
RUSS

Course Number
4880

Department
World Languages and Cultures

Course Title
Individual Readings

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Readings in technical, scientific, or literary Russian.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
4

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
4

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
4

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
4

Lecture Hours Operator:
TO

Special Approval

Instructor permission

No Requirements

RUSS4920 - Russian Language Tutoring - 1 - 3 Credits

Course Overview

Course Prefix
RUSS

Course Number
4920

Department
World Languages and Cultures

Course Title
Russian Language Tutoring

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Students develop tutoring and communication skills by assisting instructors in Russian courses or in language laboratory, public schools, or similar activities with departmental approval.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

Special Approval
Instructor permission

Simple Requisites

Prerequisite

Type
Prerequisite

Exam

Language Proficiency Exam
USU World Languages and Cultures Language Proficiency Placement test score of 500

SCED1000 - Volunteer Experience - 1 - Credits

Course Overview

Course Prefix
SCED

Course Number
1000

Department
School of Teacher Education & Leadership

Course Title
Volunteer Experience

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Optional course providing orientation to agencies coordinating volunteer experiences in the community; such experiences are part of standards for admission to secondary teacher education.

Credit Hours

Credit Hours Min:
1

Contact Hours

Contact Hours Min:
1

Billing Hours

Billing Hours Min:
1

Lecture Hours

Lecture Hours Min:
1

No Requirements

SCED3210 - Educational and Multicultural Foundations (DSS/CI) - 3 - Credits

Course Overview

Course Prefix
SCED

Course Number
3210

Department
School of Teacher Education & Leadership

Course Title
Educational and Multicultural Foundations (DSS/CI)

General Education Attribute
CI, DSS

Grade Mode
Standard Letter

Repeat Status
NR

Course Description

Students examine political, economic, and educational policies influencing students' access to equitable educational experiences. The course explores historical and philosophical foundations influencing multicultural education in our society, the influence of personal biases on instructional practices, and development of multicultural curriculum.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Registration Restrictions

Admission to Teacher Education (Level 1)

No Requirements

SCED3300 - Clinical Experience I - 1 - Credits

Course Overview

Course Prefix
SCED

Course Number
3300

Department
School of Teacher Education & Leadership

Course Title
Clinical Experience I

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description

This course includes a 45 hours minimum clinical practicum in middle or secondary schools, arranged by instructors and the Office of Field Experience in Teacher Education and Leadership (TEAL).

Credit Hours

Credit Hours Min:
1

Contact Hours

Contact Hours Min:
1

Billing Hours

Billing Hours Min:
1

Lecture Hours

Lecture Hours Min:
1

Registration Restrictions

Admission to Secondary Teacher Education Program (STEP)

SCED3400 - Teaching Science I - 3 - Credits

Course Overview

Course Prefix
SCED

Course Number
3400

Department
School of Teacher Education & Leadership

Course Title
Teaching Science I

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Laboratory practicum focused on design, practice, and performance of secondary science demonstrations and investigative lab activities. Must be taken at Level 1. A grade of C or better is required in this course for advancement to student teaching.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Admission Secondary teacher Education Program

SCED3500 - Teaching Social Studies - 3 - Credits

Course Overview

Course Prefix
SCED

Course Number
3500

Department
School of Teacher Education & Leadership

Course Title
Teaching Social Studies

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This methods course focuses on social studies curriculum and instruction for preservice secondary teachers with teaching majors or minors in history or any of the social sciences. It should be taken at Level 1. A grade of C or better is required in this course for advancement to student teaching.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Admission to the Secondary Teacher Education Program (STEP)

Simple Requisites

Corequisite

Type
Corequisite

Required

Enroll in the following Courses:

- SCED3300 - Clinical Experience I

SCED3550 - Teaching Social Studies in the Middle Grades - 3 - Credits

Course Overview

Course Prefix
SCED

Course Number
3550

Department
School of Teacher Education & Leadership

Course Title
Teaching Social Studies in the Middle Grades

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course explores the foundation for teaching social studies at the middle grades level (6-8) through an emphasis on curriculum and pedagogy.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Admission to Secondary Teacher Education Program (STEP)

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- SCED3500 - Teaching Social Studies

Corequisite

Type
Corequisite

Required

Enroll in one of following corequisite courses:

Enroll in the following Courses:

- SCED3300 - Clinical Experience I
  OR SCED4300 - Clinical Experience II

SCED4300 - Clinical Experience II - 1 - Credits

Course Overview

Course Prefix
SCED

Course Number
4300

Department
School of Teacher Education & Leadership

Course Title
Clinical Experience II

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
This course includes a 45 hours minimum clinical practicum in middle or secondary schools, arranged by instructors and the Office of Field Experience in Teacher Education and Leadership (TEAL).

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Registration Restrictions

Admission to Secondary Teacher Education Program (STEP)

SCED4900 - Senior Thesis - 1 - 6 Credits

Course Overview

Course Prefix
SCED

Course Number
4900

Department
School of Teacher Education & Leadership

Course Title
Senior Thesis

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Student-initiated research project under faculty supervision. Requires prior approval of department head, honors committee, and instructor.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
6

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
6

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
6

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
6

Lecture Hours Operator:
TO

Special Approval
Approval of department head

No Requirements

SCED5100 - Motivation and Classroom Management - 3 - Credits

Course Overview

Course Prefix
SCED

Course Number
5100

Department
School of Teacher Education & Leadership

Course Title
Motivation and Classroom Management

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course examines the diverse traits and experiences students bring to the secondary classroom as students develop throughout adolescence. Addresses how teachers can work with students to build cooperative classroom communities that motivate students to engage in productive learning activities.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Registration Restrictions
Admission to the Secondary Teacher Education program

SCED5200 - Language, Literacy, and Learning in the Content Areas (CI) - 3 - Credits

Course Overview

Course Prefix
SCED

Course Number
5200

Department
School of Teacher Education & Leadership

Course Title
Language, Literacy, and Learning in the Content Areas (CI)

General Education Attribute
CI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course examines how theories and research about language, learning, and literacy inform the teaching practices required to motivate and enable secondary students to comprehend, interpret, analyze, evaluate, integrate, and use domain-specific and cross-curricular concepts.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Admission to the Secondary Teacher Education Program (STEP)

SCED5210 - Learning Theory, Curriculum, and Assessment - 3 - Credits

Course Overview

Course Prefix
SCED

Course Number
5210

Department
School of Teacher Education & Leadership

Course Title
Learning Theory, Curriculum, and Assessment

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students learn about human development as it relates to learning and human cognition, and use that knowledge to develop their skills in designing curricular materials using a standards' based instructional model. Lastly, students learn how to differentiate and assess learning.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Admission to the Secondary Teacher Education Program

SCED5240 - Public School Internship - 12 - Credits

Course Overview

Course Prefix
SCED

Course Number
5240

Department
School of Teacher Education & Leadership

Course Title
Public School Internship

Grade Mode
Pass/Fail

Repeat Status
NR

Course Description
This course is a 30-week internship in the public schools in which students assume full-time teaching responsibilities under the direction of a university supervisor and district mentor.

Credit Hours

Credit Hours Min:
12

Contact Hours

Contact Hours Min:
12

Billing Hours

Billing Hours Min:
12

Lecture Hours

Lecture Hours Min:
12

Special Approval

Instructor permission

No Requirements

SCED5400 - Laboratory Practicum - 3 - Credits

Course Overview

Course Prefix
SCED

Course Number
5400

Department
School of Teacher Education & Leadership

Course Title
Laboratory Practicum

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Laboratory practicum for inservice teachers, focused on design, practice, and performance of secondary science demonstrations and investigative lab activities.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

SCED5500 - Student Teaching Seminar - 2 - Credits

Course Overview

Course Prefix
SCED

Course Number
5500

Department
School of Teacher Education & Leadership

Course Title
Student Teaching Seminar

Grade Mode
Pass/Fail

Repeat Status
NR

Course Description
Capstone seminar focused upon student teaching issues, professional development, and principles of effective instruction, emphasizing reflective teaching.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Registration Restrictions
Admission to Secondary Education Student Teaching placement.

SCED5630 - Student Teaching in Secondary Schools - 10 - Credits

Course Overview

Course Prefix
SCED

Course Number
5630

Department
School of Teacher Education & Leadership

Course Title
Student Teaching in Secondary Schools

Grade Mode
Pass/Fail

Repeat Status
NR

Course Description
Thirteen-week minimum culminating practicum in which students assume full-time teaching responsibilities under direction of cooperating teachers in major and minor fields.

Credit Hours

Credit Hours
Min:
10

Contact Hours

Contact Hours
Min:
10

Billing Hours

Billing Hours
Min:
10

Lecture Hours

Lecture Hours
Min:
10

Registration Restrictions
Level 1 and Level 2 completion, and student teaching placement

SCED5810 - Social Studies Teaching Methods - 3 - Credits

Course Overview

Course Prefix
SCED

Course Number
5810

Department
School of Teacher Education & Leadership

Course Title
Social Studies Teaching Methods

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Guides students in developing a philosophical rationale for teaching social studies. Includes strategies for integrating best practices in and across the curriculum.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

SCED5820 - Science Education Teaching and Dispositions Knowledge - 3 - Credits

Course Overview

Course Prefix
SCED

Course Number
5820

Department
School of Teacher Education & Leadership

Course Title
Science Education Teaching and Dispositions Knowledge

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students plan lessons, laboratories, and demonstrations to meet the Utah Science and Engineering Education (SEEd) standards. The course covers curriculum and lesson design, instructional practice, and assessment specific to science instruction.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Secondary Teacher Education Program (STEP)

SCED5821 - Three-Dimensional Science and Engineering Pedagogical Knowledge - 3 - Credits

Course Overview

Course Prefix
SCED

Course Number
5821

Department
School of Teacher Education & Leadership

Course Title
Three-Dimensional Science and Engineering Pedagogical Knowledge

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course integrates the three discrete dimensions of science learning in the Utah Science and Engineering Education (SEEd) standards. Students develop and teach lessons that engage students in Science and Engineering Practices, Cross Cutting Concepts, and Disciplinary Core Ideas.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Registration Restrictions
Admission to Secondary Teacher Education (STEP)

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- SCED5820 - Science Education Teaching and Dispositions Knowledge

SCED5900 - Independent Study - 1 - 3 Credits

Course Overview

Course Prefix
SCED

Course Number
5900

Department
School of Teacher Education & Leadership

Course Title
Independent Study

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course allows undergraduate students to pursue personal research interests by formalizing an independent project under the guidance of a professor or faculty mentor.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

Special Approval
Instructor permission

SCED6305 - Graduate Clinical Experience - 1 - Credits

Course Overview

Course Prefix
SCED

Course Number
6305

Department
School of Teacher Education & Leadership

Course Title
Graduate Clinical Experience

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
This course includes a 45 hours minimum clinical practicum in middle or secondary schools, arranged by instructors and the Office of Field Experience in Teacher Education and Leadership (TEAL).

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

No Requirements

SCED6555 - Practicum Improvement in Instruction/Seminar - 1 - Credits

Course Overview

Course Prefix
SCED

Course Number
6555

Department
School of Teacher Education & Leadership

Course Title
Practicum Improvement in Instruction/Seminar

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
To meet the requirements of the Alternative Route to Secondary Licensure program, students should take this practicum during fall semester and then again during spring semester.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

No Requirements

SCI1050 - Tutor Training Level I - 1 - Credits

Course Overview

Course Prefix
SCI

Course Number
1050

Department
College of Arts & Sciences

Course Title
Tutor Training Level I

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course is geared toward students involved in leadership training as part of their roles and responsibilities at the university. It involves interaction with peers in a tutor or mentoring capacity. It results in College Reading and Learning Association Level 1 Certification.

Credit Hours

Credit Hours Min:
1

Contact Hours

Contact Hours Min:
1

Billing Hours

Billing Hours Min:
1

Lecture Hours

Lecture Hours Min:
1

Special Approval
Instructor permission

No Requirements

SCI2050 - Tutor and Recitation Leader Training Level II - 1 - Credits

Course Overview

Course Prefix
SCI

Course Number
2050

Department
College of Arts & Sciences

Course Title
Tutor and Recitation Leader Training Level II

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course is geared toward students involved in leadership training as part of their roles and responsibilities at the university. It involves interaction with peers in a tutor or recitation leader capacity. It results in College Reading and Learning Association Level 2 Certification.

Credit Hours

Credit Hours Min:
1

Contact Hours

Contact Hours Min:
1

Billing Hours

Billing Hours Min:
1

Lecture Hours

Lecture Hours Min:
1

Special Approval
Instructor permission

No Requirements

SCI4250 - Internship/Co-op - 1 - 3 Credits

Course Overview

Course Prefix
SCI

Course Number
4250

Department
College of Arts & Sciences

Course Title
Internship/Co-op

Grade Mode
Pass/Fail

Repeat Status
NR

Course Description
This is an internship/cooperative work experience for Science General Studies majors completing a senior project

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

Special Approval

Instructor permission

No Requirements

SHS1500 - Basics of Human Anatomy and Physiology for Applied Sciences - 3 - Credits

Course Overview

Course Prefix
SHS

Course Number
1500

Department
Speech and Hearing Sciences

Cross-Listed Courses
KIN1500 - Basics of Human Anatomy and Physiology for Applied Sciences

Course Title
Basics of Human Anatomy and Physiology for Applied Sciences

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Introduction to human anatomy and physiology, focusing on body systems, their functions in daily life, and applied science fields. Emphasis on the relationship between structure, function, and health. Does not fulfill requirements for biology or pre-health majors (including nursing).

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Course Learning Objectives

Course Learning Outcomes

Course Objectives: Upon completion of this course, the student will be able to:

1. Define the basic concepts of anatomy and physiology.
2. Demonstrate understanding of cell structure and function.
3. Identify basic characteristics of each body system and how they work together as a whole
4. Differentiate between the following organ systems of the body and their various functions

- Integumentary
- Skeletal
- Muscular
- Lymphatic

- Respiratory
- Urinary
- Nervous
- Endocrine
- Circulatory
- Digestive
- Reproductive (male & female)
- Pregnancy and Human Development

SHS2400 - Orientation and Observation - 1 - Credits

Course Overview

Course Prefix
SHS

Course Number
2400

Department
Speech and Hearing Sciences

Course Title
Orientation and Observation

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces students to professional responsibilities and observation of clinical cases.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Simple Requisites

Preqrequisite

Type
Prerequisite

Required

Earn a minimum grade of C in the following:

- SHS2600 - Introduction to Communication Disorders

(may be taken concurrently)

Course Learning Objectives

Course Learning Outcomes

1. Acquire guided clinical observation in speech-language pathology.
2. Demonstrate knowledge of ethical and professional responsibilities.

SHS2600 - Introduction to Communication Disorders - 3 - Credits

Course Overview

Course Prefix
SHS

Course Number
2600

Department
Speech and Hearing Sciences

Course Title
Introduction to Communication Disorders

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces the nature and characteristics of communication disorders across the lifespan. It explores careers in speech-language pathology, audiology, and deaf education. It also introduces students to professional responsibilities and observation of clinical cases.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Demonstrate introductory knowledge of basic human communication and swallowing processes, including the appropriate biological, neurological, acoustic, psychological, developmental, linguistic, and cultural bases.
2. Demonstrate introductory knowledge of communicative disorders resulting from cognitive, speech, language, and hearing impairments.
3. Demonstrate introductory knowledge of the foundations and scope of clinical practice in speech-language pathology and audiology.

SHS3100 - Speech Science - 3 - Credits

Course Overview

Course Prefix
SHS

Course Number
3100

Department
Speech and Hearing Sciences

Course Title
Speech Science

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course examines the anatomy, physiology, acoustics, and basic neurology associated with speech, language, and swallowing. It addresses systems involved in respiration, phonation, resonation, articulation, and ingestion. Lab exercises may be required.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Course Learning Objectives

Course Learning Outcomes

1. Identify the structural and functional components of respiration, phonation, resonation, articulation, and the nervous system.
2. Become familiar with software analysis of voice and speech sound acoustics.
3. Understand normal speech production and a variety of disorder speech impairments.

SHS3200 - Child Language Development - 3 - Credits

Course Overview

Course Prefix
SHS

Course Number
3200

Department
Speech and Hearing Sciences

Course Title
Child Language Development

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course addresses the typical development of semantics, syntax, and pragmatics from infancy to adolescence. It includes prelinguistic communication, cognitive correlates, discourse, metalinguistics, bilingual acquisition, and the effects of sociocultural context on acquisition. Students are introduced to language sample analysis.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Requried

Earn a minimum grade of C in the following:

- SHS2600 - Introduction to Communication Disorders

(may be taken concurrently)

Course Learning Objectives

Course Learning Outcomes

1. Explain language, its component domains, and how it relates to speech and communication.
2. Explain developmental of prelinguistic communication.
3. Explain developmental sequence for phonology, semantics, syntax, and pragmatics.
4. Describe the effects of linguistic, cultural, and social differences on language acquisition.
5. Conduct a language sample analysis on a typically developing young child.

SHS3400 - Hearing Science - 3 - Credits

Course Overview

Course Prefix
SHS

Course Number
3400

Department
Speech and Hearing Sciences

Course Title
Hearing Science

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course examines anatomy and physiology of the human auditory and balance systems. It addresses acoustics, mechanisms, and perception of sound transmission for human hearing.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Course Learning Objectives

Course Learning Outcomes

1. Identify anatomical structures of the auditory system and describe their function
2. Familiarize with common pathologies of the auditory system
3. Relate basic knowledge to the practice of Audiology
4. Develop problem-solving skills necessary for the fields of clinical practice and science

SHS3500 - Phonetics and Phonological Development - 3 - Credits

Course Overview

Course Prefix
SHS

Course Number
3500

Department
Speech and Hearing Sciences

Course Title
Phonetics and Phonological Development

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course addresses the physical characteristics of speech sound production, features of the phonological system, and typical child development of phonology and speech sounds. It includes phonology of languages other than English and teaches transcription with the International Phonetic Alphabet.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Earn a minimum grade of C in the following:

- SHS2600 - Introduction to Communication Disorders

(may be taken concurrently)

Course Learning Objectives

Course Learning Outcomes

1. Demonstrate proficiency in transcription of vowels and consonants

2. Demonstrate proficiency in transcription of citation forms and connected speech
3. Demonstrate proficiency in transcription of diacritics in normal and disordered speech
4. Demonstrate proficiency in transcription of dialects of English
5. Describe process and sequence of speech sound development

SHS3600 - Language Science (CI) - 3 - Credits

Course Overview

Course Prefix
SHS

Course Number
3600

Department
Speech and Hearing Sciences

Course Title
Language Science (CI)

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This is an advanced analysis of syntax and morphology of the English language. It includes formal grammatical analysis, clinical tools for assessing language development, use in discourse contexts, and application to case studies.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- SHS2600 - Introduction to Communication Disorders

(may be taken concurrently)

Course Learning Objectives

Course Learning Outcomes

1. Develop proficiency in analyzing words into component parts
2. Demonstrate how to graphically display sentence constituents and clausal relations

3. Translate schematic diagrams into prose explanations of language structure
4. Apply grammatical analysis to selection of clinical goals

SHS3800 - Anatomy and Physiology of Speech and Hearing - 3 - Credits

Course Overview

Course Prefix
SHS

Course Number
3800

Department
Speech and Hearing Sciences

Course Title
Anatomy and Physiology of Speech and Hearing

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course examines the anatomy and physiology of speech, swallowing, hearing, and balance. It addresses systems involved in respiration, phonation, resonation, articulation, ingestion, audition, and vestibulation.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- SHS2600 - Introduction to Communication Disorders

(may be taken concurrently)

Course Learning Objectives

Course Learning Outcomes

1. Identify the structural components of respiration, phonation, articulation, and the auditory and nervous systems.

2. Explain how to produce speech in a clear and healthy manner.
3. Explain how a person is able to hear sound waves.

SHS3850 - Anatomy and Physiology of Hearing - 1 - Credits

Course Overview

Course Prefix
SHS

Course Number
3850

Department
Speech and Hearing Sciences

Course Title
Anatomy and Physiology of Hearing

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course examines the anatomy and physiology of hearing and balance. Students examine structures and processes in the outer, middle, inner ear, and innervation system.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Course Learning Objectives

Course Learning Outcomes

1. Identify and describe the anatomy and physiology of the outer and middle relating to hearing and balance.
2. Identify and describe the anatomy and physiology of the inner ear and innervation relating to hearing and balance.

SHS4100 - Clinical Practicum in Speech-Language Pathology (CI) - 1 - Credits

Course Overview

Course Prefix
SHS

Course Number
4100

Department
Speech and Hearing Sciences

Course Title
Clinical Practicum in Speech-Language Pathology (CI)

General Education Attribute
CI

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This is an introductory-level practicum for undergraduate students consisting of supervised diagnostics and treatment for individuals with communication disorders. It is available by invitation only and is not required for the major.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Special Approval

Advisor permission.

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Earn a minimum grade of C in the following:

- SHS4200 - Clinical Methods (CI)
- SHS4450 - Developmental Communication Disorders

Course Learning Objectives

Course Learning Outcomes

1. Demonstrate introductory level competence in treating a child with a speech-language impairment
2. Show understanding of processes and procedures in a university speech-language clinic
3. Demonstrate understanding of professional roles and responsibilities

SHS4200 - Clinical Methods (CI) - 3 - Credits

Course Overview

Course Prefix
SHS

Course Number
4200

Department
Speech and Hearing Sciences

Course Title
Clinical Methods (CI)

General Education Attribute
CI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students learn procedures for the assessment and treatment of speech and language disorders, including goal selection, treatment plans, progress reports, norm-referenced and descriptive testing, and test psychometrics. Family, cultural, and interprofessional factors in intervention are addressed.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Corequisite

Type
Corequisite

Required

Enroll in the following Courses:

- SHS4450 - Developmental Communication Disorders

Course Learning Objectives

Course Learning Outcomes

1. Recognize methods of assessment and intervention in broad areas of communication disorders.
2. Write treatment goals, plans, progress reports, case histories, and other types of clinical planning and documentation.

3. Demonstrate knowledge and application of ASHA Code of Ethics , client confidentiality, and universal safety precautions
4. Demonstrate emerging written and oral communication skills appropriate for clinical and professional interaction with graduate clinicians, clients/patients and relevant others.

SHS4450 - Developmental Communication Disorders - 3 - Credits

Course Overview

Course Prefix
SHS

Course Number
4450

Department
Speech and Hearing Sciences

Course Title
Developmental Communication Disorders

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students examine childhood speech-language disorders including phonological disorder, stuttering, primary language disorder, autism, intellectual disability, and learning disability; and consider the effects of organic and social factors on identification and management. Assessment and treatment principles for developmental disorders are introduced.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Earn a minimum grade of C in the following:

- SHS3200 - Child Language Development
- SHS3500 - Phonetics and Phonological Development

Course Learning Objectives

Course Learning Outcomes

1. Explain and differentiate types of speech-language disorders that appear in the developmental period.

2. Identify how cognitive, social, and literacy factors are involved in developmental communicative disorders.
3. Demonstrate introductory knowledge of principles of assessment and treatment of speech-language disorders.
4. Describe cultural and contextual considerations in the diagnostic and treatment process.

SHS4500 - Acquired Communication Disorders - 3 - Credits

Course Overview

Course Prefix
SHS

Course Number
4500

Department
Speech and Hearing Sciences

Course Title
Acquired Communication Disorders

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students examine neurogenic and other communication disorders in adults, focusing on etiology and characteristics of disorders including stroke, traumatic brain injury, degenerative disorders, dysarthria, apraxia of speech, aphasia, voice, and dysphagia. Assessment and treatment principles for acquired disorders are introduced.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete one of the following:

Earn a minimum grade of C in the following:

- SHS3100 - Speech Science
  OR SHS3800 - Anatomy and Physiology of Speech and Hearing

Course Learning Objectives

Course Learning Outcomes

1. Discuss the role of the speech-language pathologist in working with select acquired adult and pediatric communication and swallowing disorders
2. Demonstrate an understanding of common causes of communication and swallowing disorders and their impact on the individual patient
3. Acquire a basic understanding of assessment and treatment for acquired communication and swallowing disorders

SHS4700 - Basic Audiology - 3 - Credits

Course Overview

Course Prefix
SHS

Course Number
4700

Department
Speech and Hearing Sciences

Course Title
Basic Audiology

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students study the evaluation of hearing for adults and children, including pure tone audiometry, clinical masking, speech audiometry, clinical immittance measures, and screening procedures. Disorders of the outer, middle, and inner ear that affect hearing and balance are addressed.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Registration Restrictions
Admission to the Communicative Disorders and Deaf Education major.

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Earn a minimum grade of C in the following:

- SHS3400 - Hearing Science
  OR SHS3800 - Anatomy and Physiology of Speech and Hearing

Course Learning Objectives

Course Learning Outcomes

1. Describe the profession of audiology, including work settings and tasks.
2. Describe and conduct basic audiologic procedures including otoscopy, pure tone and speech audiometry, immittance measures, and hearing screenings.
3. Interpret pure tone audiograms to determine type, degree, and configuration of hearing loss.
4. Define physiological tests of the auditory system including acoustic reflex, otoacoustic emission and auditory brainstem responses.
5. Identify common disorders of the outer, middle, and inner ear, as well as retrocochlear pathologies.

SHS5070 - Acoustics of Speech and Hearing - 3 - Credits

Course Overview

Course Prefix
SHS

Course Number
5070

Department
Speech and Hearing Sciences

Course Title
Acoustics of Speech and Hearing

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This speech and hearing science course examines properties of sound waves, processes of speech production, resonance, filtering, and sound transmission in the auditory system. Students learn psychological aspects of sound perception and clinical applications of sound measurement.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Earn a minimum grade of C in the following:

- SHS3400 - Hearing Science
  OR SHS3800 - Anatomy and Physiology of Speech and Hearing
- SHS3500 - Phonetics and Phonological Development

Course Learning Objectives

Course Learning Outcomes

1. Explain the basic acoustic properties of speech sounds as they relate to speech production and hearing.

2. Describe methods for quantifying speech features and characterizing psychoacoustic phenomena
3. Interpret acoustic and perceptual data related to speech and hearing

SHS5120 - Management of Speech Sound Disorders - 3 - Credits

Course Overview

Course Prefix
SHS

Course Number
5120

Department
Speech and Hearing Sciences

Course Title
Management of Speech Sound Disorders

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students gain a basic understanding of the developmental disorders of articulation, phonology, and related conditions. This course introduces evaluation and treatment principles, procedures, materials, and activities.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Earn a minimum grade of C in the following:

- SHS3200 - Child Language Development
- SHS3500 - Phonetics and Phonological Development

Course Learning Objectives

Course Learning Outcomes

1. Demonstrate basic understanding of articulation and phonological disorders

2. Demonstrate basic understanding of speech sound screening and assessments
3. Demonstrate basic understanding of articulation and phonological approaches to therapy
4. Demonstrate basic knowledge of therapy techniques, activities, and data collection

SHS5240 - Neural Bases of Cognition and Communication - 3 - Credits

Course Overview

Course Prefix
SHS

Course Number
5240

Department
Speech and Hearing Sciences

Course Title
Neural Bases of Cognition and Communication

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students examine neurological systems associated with cognition and communication, learning about the implications of the nature and management of disorders in speech-language pathology and audiology. This course provides a foundation for advanced study in cognitive neuroscience and neurogenic communication disorders.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Earn a minimum grade of C in the following:

- SHS3100 - Speech Science
  OR SHS3800 - Anatomy and Physiology of Speech and Hearing

Course Learning Objectives

Course Learning Outcomes

1. Demonstrate factual knowledge (terminology, classifications, methods) pertaining to neurological systems, particularly as they relate to cognition and communication (e.g., sensory-motor systems, attention, learning, memory, language, executive functions) across the lifespan.
2. Describe fundamental principles, generalizations, and theories pertaining to neurological systems, particularly as they relate to cognition and communication across the lifespan.
3. Demonstrate critical thinking skills and professional competencies related to applied cognitive neuroscience, particularly with respect to communication disorders across the lifespan.

SHS5330 - Aural Rehabilitation - 3 - Credits

Course Overview

Course Prefix
SHS

Course Number
5330

Department
Speech and Hearing Sciences

Course Title
Aural Rehabilitation

Grade Mode
Standard Letter

Repeat Status
NR

Course Description

This course explores the ramifications of hearing loss for children and adults. Students learn rehabilitative audiologic techniques and programs to improve communication of both children and adults who have hearing loss. This course is available for undergraduate credit only.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete any of the following:

Earn a minimum grade of C in the following:

- SHS3400 - Hearing Science
- SHS3800 - Anatomy and Physiology of Speech and Hearing

Course Learning Objectives

Course Learning Outcomes

1. Describe the effect hearing loss has on an individual's cultural, educational, vocational, social and emotional aspects of communication
2. Explain rehabilitative audiologic devices, techniques, and programs to improve communication of children and adults who have hearing loss.
3. Describe and distinguish models of patient care including medical model, patient-centered care, person-centered care and family-centered care
4. Develop counseling and shared decision-making skills to assist individuals and their significant others to develop personal hearing management plans.
5. Identify direct and collaborative methods to support children with hearing loss in the educational system.

SHS5900 - Independent Study - 1 - 6 Credits

Course Overview

Course Prefix
SHS

Course Number
5900

Department
Speech and Hearing Sciences

Course Title
Independent Study

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
This cours assigns, manages and directs selected individual work. Problems of mutual interest to students and the instructor are investigated and reported.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
6

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
6

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
6

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
6

Lecture Hours Operator:
TO

SHS5905 - Special Topics in Communicative Disorders - 1 - 3 Credits

Course Overview

Course Prefix
SHS

Course Number
5905

Department
Speech and Hearing Sciences

Course Title
Special Topics in Communicative Disorders

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course addresses special topics in communicative disorders and deaf education. The topic and requirements are set by the instructor.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

Course Learning Objectives

Course Learning Outcomes

1. Students will explain main ideas of a designated topic in communicative disorders and deaf education.
2. Students will report important details of a designated topic in communicative disorders and deaf education.

SHS5950 - Cooperative Education Experience - 1 - 3 Credits

Course Overview

Course Prefix
SHS

Course Number
5950

Department
Speech and Hearing Sciences

Course Title
Cooperative Education Experience

Grade Mode
Pass/Fail

Repeat Status
NR

Course Description
Students gain an educational, self-driven improvement experience in their workplace. Students meet with the internship coordinator to determine learning objectives relevant to communicative disorders or deaf education. The employer, student, and instructor evaluate performance progress over time.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

Special Approval
Instructor permission

Course Learning Objectives

Course Learning Outcomes

1. Apply skills learned in Speech and Hearing Science courses to settings outside of the classroom.
2. Develop skills and competencies needed by professionals in a variety of careers and settings related to communication disorders.

SHS5960 - Clinical Experience: Speech-Language Pathology Assistant - 3 - Credits

Course Overview

Course Prefix
SHS

Course Number
5960

Department
Speech and Hearing Sciences

Course Title
Clinical Experience: Speech-Language Pathology Assistant

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students gain a supervised clinical experience as a speech-language pathology assistant in a pre K-12 educational setting within their workplace or as a student intern. Students obtain 80 hours of direct and 20 hours of indirect clinical service experience.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Admission to the Speech-Language Pathology Assistant - Certificate Certificate program.

Special Approval
Advisor Permission

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Earn a minimum grade of C in the following:

- SHS4200 - Clinical Methods (CI)
- SHS4450 - Developmental Communication Disorders

Course Learning Objectives

Course Learning Outcomes

1. Learn SLPA-level service delivery practices and work-place behaviors.
2. Complete a supervised clinical experience that meets requirements for national certification as a Speech-Language Pathology Assistant.

SHS6020 - Language Assessment and Intervention for School-Age Children and Adolescents - 3 - Credits

Course Overview

Course Prefix
SHS

Course Number
6020

Department
Speech and Hearing Sciences

Course Title

Language Assessment and Intervention for School-Age Children and Adolescents

Grade Mode
Standard Letter

Repeat Status
NR

Course Description

Students learn language assessment and intervention for school-age children, including developmental oral and written language deficits, dynamic language assessment, interpreting formal and informal testing, facilitating language through strategies, and corresponding theories, planning clinical management and intervention, and linking curriculum-based instruction.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Course Learning Objectives

Course Learning Outcomes

1. Describe oral and written language features of school-age children with developmental language disorders
2. Explain how attention, cognition, and social skills affect communicative and academic success of children with language disorders
3. Identify and evaluate measures and procedures to evaluate and describe oral and written language performance
4. Select and design treatment goals, activities, and procedures across language areas and age levels

SHS6030 - Disorders of Fluency-Stuttering - 3 - Credits

Course Overview

Course Prefix
SHS

Course Number
6030

Department
Speech and Hearing Sciences

Course Title
Disorders of Fluency-Stuttering

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides understanding of theory, nature, etiologies, and principles of diagnosis and treatment of communication disorders related to stuttering and other disorders of fluency.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Describe and distinguish features of stuttering and other speech fluency disorders.
2. Explain principles and methods of assessment for stuttering and other speech fluency disorders.
3. Identify and select interventions suited to particular fluency disorders and characteristics of individuals with those disorders

SHS6050 - Professional Practice in Speech-Language Pathology - 1 - 2 Credits

Course Overview

Course Prefix
SHS

Course Number
6050

Department
Speech and Hearing Sciences

Course Title
Professional Practice in Speech-Language Pathology

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course facilitates lecture, discussion, and guest presenters on various professional practice topics pertaining to speech-language pathology.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
2

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
2

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
2

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
2

Lecture Hours Operator:
TO

Course Learning Objectives

Course Learning Outcomes

1. Demonstrate knowledge related to standards of ethical conduct in speech-language pathology.
2. Demonstrate knowledge related to contemporary professional issues and advocacy.

3. Demonstrate knowledge related to certification, specialty recognition, licensure, and other relevant professional credentials.

SHS6100 - Advanced Clinical Practicum in Speech-Language Pathology - 1 - 4 Credits

Course Overview

Course Prefix
SHS

Course Number
6100

Department
Speech and Hearing Sciences

Course Title
Advanced Clinical Practicum in Speech-Language Pathology

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course offers supervised diagnostic and treatment practicum with individuals who have communication disorders.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
4

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
4

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
4

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
4

Lecture Hours Operator:
TO

Course Learning Objectives

Course Learning Outcomes

1. Carry out supervised evaluations of individuals with communication and swallowing disorders across the lifespan in a university clinic.
2. Select, design, and carry out supervised interventions that fit the needs of individuals with communication and swallowing disorders across the lifespan in a university clinic.

3. Communicate and interact effectively with clients, families professionals, and significant others.
4. Complete documentation and reporting functions to support assessment and intervention.
5. Conduct clinical practices professionally and ethically.

SHS6120 - Adult Language Disorders - 3 - Credits

Course Overview

Course Prefix
SHS

Course Number
6120

Department
Speech and Hearing Sciences

Course Title
Adult Language Disorders

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course is a study of neuropathologies of language, cognition, and communication associated with aphasia, traumatic brain injury, right hemisphere syndrome and dementia and addresses underlying pathology, diagnostic methods, and management of these disorders using evidence-based practice.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Describe and classify neurogenic language and cognitive-communication disorders.
2. Demonstrate knowledge of formal and informal assessments of acquired neurogenic language and cognitive-communication disorders.
3. Diagnose and differentiate neurogenic language and cognitive-communication disorders on the basis of behavioral and medical assessment results and theoretical knowledge.
4. Create appropriate intervention plans for persons with acquired neurogenic language and cognitive-communication disorders based on awareness of evidence-based approaches and techniques.

5. Apply critical thinking skills and professional competencies to therapy planning for persons with acquired neurogenic language and cognitive-communication disorders.

SHS6130 - Motor Speech Disorders - 3 - Credits

Course Overview

Course Prefix
SHS

Course Number
6130

Department
Speech and Hearing Sciences

Course Title
Motor Speech Disorders

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students learn the neurological substrates of speech production and clinical manifestations of acquired motor speech disorders, including dysarthria and apraxia of speech as well as diagnostic methods and management of these disorders using evidence-based practice.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Describe and classify the various acquired motor speech disorders.
2. Explain formal and informal assessments of acquired motor speech disorders.
3. Diagnose an individual's motor speech disorder on the basis of speech and medical assessment results and theoretical knowledge.
4. Determine appropriate therapy intervention based on awareness of evidence-based approaches techniques employed in acquired motor speech disorders.
5. Apply problem-solving processes to therapy planning/monitoring in acquired motor speech disorders.

SHS6140 - Dysphagia - 1 - 3 Credits

Course Overview

Course Prefix
SHS

Course Number
6140

Department
Speech and Hearing Sciences

Course Title
Dysphagia

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course considers the neurological substrates of normal deglutition and clinical manifestation of dysphagia across the lifespan and addresses diagnostic methods and management of these disorders using evidence-based practice.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Identify normal and abnormal anatomy and physiology of the swallow mechanism across the lifespan.
2. Describe and demonstrate assessment techniques for pediatric and adult dysphagia.
3. Collect, analyze, and interpret assessment and progress data to plan and evaluate interventions for individuals with dysphagia across the lifespan.
4. Describe and apply knowledge about ethical considerations and professional issues affecting assessment and treatment of individuals with dysphagia.

SHS6150 - Phonological Assessments and Intervention - 3 - Credits

Course Overview

Course Prefix
SHS

Course Number
6150

Department
Speech and Hearing Sciences

Course Title
Phonological Assessments and Intervention

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course is a graduate study of theoretical and clinical issues related to the assessment and intervention of articulation and phonological disorders in children.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Describe normal articulation acquisition and the parameters involved in normal sound production.
2. Explain and differentiate the developmental disorders of articulation and phonology in children.
3. Transcribe and analyze disordered articulation and phonology.
4. Administer and interpret articulation screening and diagnostic evaluations.
5. Plan appropriate treatment programs for articulation and phonological disorders.

SHS6200 - Internship in Public Schools-Speech-Language Pathology - 1 - 5 Credits

Course Overview

Course Prefix
SHS

Course Number
6200

Department
Speech and Hearing Sciences

Course Title
Internship in Public Schools-Speech-Language Pathology

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course is a supervised public school practicum in speech-language pathology.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
5

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
5

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
5

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
5

Lecture Hours Operator:
TO

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Carry out supervised evaluations of individuals with communication disorders in an educational setting externship.

2. Select, design, and carry out supervised interventions that fit the needs of individuals with communication disorders in an educational setting externship.
3. Communicate and interact effectively with students, families, professionals, and significant others Complete documentation and reporting functions to support assessment and intervention.
4. Conduct clinical practices professionally and ethically.

SHS6220 - Severe Communication Impairments - 1 - 3 Credits

Course Overview

Course Prefix
SHS

Course Number
6220

Department
Speech and Hearing Sciences

Course Title
Severe Communication Impairments

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course is a study of assessment and treatment strategies for individuals with severe communication impairments, including those requiring augmentative and alternative communication systems.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Assess severe communication impairments.

2. Choose appropriate AAC systems to match needs, strengths, and resources of clients with severe communication disorders.
3. Identify barriers to communication and how to address different types of barriers.
4. Plan evidence-based treatment sessions for clients with complex communication needs.
5. Accurately evaluate quality information regarding severe communication disorder on social media and identify information without research evidence.

SHS6230 - Introduction to Research in Communicative Disorders - 3 - Credits

Course Overview

Course Prefix
SHS

Course Number
6230

Department
Speech and Hearing Sciences

Course Title
Introduction to Research in Communicative Disorders

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course is an introduction to experimental research designs, including educational research and development, causal-comparative, correlational, and qualitative research. Includes research reviews, research proposals, threats to internal and external validity, and statistical/practical significance.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- PSY3010 - Psychological Statistics (QI)

Course Learning Objectives

Course Learning Outcomes

1. Explain the scientific method, designs, and procedures.
2. Identify ethical issues and their management in human subjects research.

3. Explain basic types and uses of descriptive and inferential statistics.
4. Locate, summarize, and evaluate research sources.
5. Demonstrate evidence-based practice clinical decision-making.

SHS6250 - Birth to Five Language Intervention - 3 - Credits

Course Overview

Course Prefix
SHS

Course Number
6250

Department
Speech and Hearing Sciences

Course Title
Birth to Five Language Intervention

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students learn assessment and treatment principles and procedures for language and social communication of young children and infants. Topics include clinical management, family-centered services, early intervention teams, and early literacy enhancement, as well as pediatric feeding and swallowing.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Describe specific language evaluation procedures including standardized tests and descriptive measures for children from birth to five years.
2. Administer, analyze, and interpret a language evaluation for a young child.
3. Determine intervention goals and recommendations for clinical management from evaluation results.
4. Explain methods for teaching language and facilitating language development for children who are not achieving typical milestones.

SHS6300 - Externship in Speech-Language Pathology - 1 - 12 Credits

Course Overview

Course Prefix
SHS

Course Number
6300

Department
Speech and Hearing Sciences

Course Title
Externship in Speech-Language Pathology

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Supervised off-campus practicum in speech-language pathology. Prerequisite: Consent of instructor.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
12

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
12

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
12

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
12

Lecture Hours Operator:
TO

Special Approval
Instructor permission

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Carry out supervised evaluations of individuals with communication and swallowing disorders in an externship.
2. Select, design, and carry out supervised interventions that fit the needs of individuals with communication disorders in a medical setting in an externship.
3. Communicate and interact effectively with clients, families, professionals and significant others.
4. Complete documentation and reporting functions to support assessment and intervention.
5. Conduct clinical practices professionally and ethically.

SHS6320 - Language Learning and Literacy Acquisition in Children with Hearing Loss - 3 - Credits

Course Overview

Course Prefix
SHS

Course Number
6320

Department
Speech and Hearing Sciences

Course Title
Language Learning and Literacy Acquisition in Children with Hearing Loss

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Addresses unique process of language learning in children with hearing loss. Explores processes and strategies to facilitate literacy acquisition in these children through an auditory-oral approach.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Explain key literacy theories, summarize National Reading Panel recommendations, and describe Science of Reading practices as they relate to effective literacy instruction in educational settings.
2. Describe and apply strategies for using children's natural environments and everyday experiences to
3. support meaningful, context-based language and literacy development.

SHS6340 - Foundations of Listening and Spoken Language - 3 - Credits

Course Overview

Course Prefix
SHS

Course Number
6340

Department
Speech and Hearing Sciences

Course Title
Foundations of Listening and Spoken Language

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course examines developmental processes underpinning audition and spoken language acquisition. Explores specific techniques, strategies, and teaching behaviors for developing listening and spoken language in young children who are deaf or hard of hearing.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Identify and describe the listening hierarchy and the importance of auditory perception development for children who are DHH who are developing and using listening and spoken language.
2. Discuss various LSL intervention strategies and the most effective methods of implementation within
3. classroom, small group, and individual therapy services.
4. Explore a variety of tools for evaluating speech, language, and auditory perception acquisition and ongoing progress monitoring to make data-driven intervention decisions.

SHS6350 - Early Elementary and Itinerant Support for Children who are DHH using LSL - 3 - Credits

Course Overview

Course Prefix
SHS

Course Number
6350

Department
Speech and Hearing Sciences

Course Title
Early Elementary and Itinerant Support for Children who are DHH using LSL

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course prepares Deaf Education graduate students with knowledge and strategies to support children with hearing loss in general education, emphasizing audiology, hearing technology, and itinerant services to promote language and academic development.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Explain the role of itinerant services for children who are DHH in early elementary settings and identify the accommodations, academic supports, and social–emotional/communication skills needed for full curriculum access.
2. Apply audiology and assistive technology (HAT) knowledge to select, administer, and interpret formal and informal assessments used to evaluate and monitor the progress of students with hearing loss.
3. Describe and model strategies for building effective collaborative relationships with teachers, related

SHS6360 - LSL Preschool Curriculum: Language and Cognition - 3 - Credits

Course Overview

Course Prefix
SHS

Course Number
6360

Department
Speech and Hearing Sciences

Course Title
LSL Preschool Curriculum: Language and Cognition

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This class develops skills in creating effective learning environments, designing lesson plans, and implementing preschool curricula across developmental domains, emphasizing auditory perception, language and cognition as learning foundations, and behavior management to support children's growth and success.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Identify Developmentally Appropriate Practices (DAP) and describe effective ways to implement them in preschool classroom settings.
2. Demonstrate competencies in effective teaching practices, including differentiated instruction and progress monitoring across curricular areas.
3. Explain the auditory perception needs of children who are DHH and apply strategies to integrate auditory learning goals throughout the preschool curriculum.

SHS6400 - Medical Externship in Speech-Language Pathology - 1 - 12 Credits

Course Overview

Course Prefix
SHS

Course Number
6400

Department
Speech and Hearing Sciences

Course Title
Medical Externship in Speech-Language Pathology

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course is a supervised off-campus practicum in medical settings, generally for adults.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
12

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
12

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
12

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
12

Lecture Hours Operator:
TO

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Carry out supervised evaluations of individuals with communication and swallowing disorders in a medical setting externship.
2. Select, design, and carry out supervised interventions that fit the needs of individuals with communication and swallowing disorders in a medical setting externship.
3. Communicate and interact effectively with clients, families, professionals, and significant others
4. Complete documentation and reporting functions to support assessment and intervention.
5. Conduct clinical practices professionally and ethically.

SHS6560 - Speech and Language Assessment and Intervention for Children Who are Deaf or Hard of Hearing - 3 - Credits

Course Overview

Course Prefix
SHS

Course Number
6560

Department
Speech and Hearing Sciences

Course Title
Speech and Language Assessment and Intervention for Children Who are Deaf or Hard of Hearing

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students explore foundations of assessment in young children who are deaf/hard of hearing, including standardized, non-standardized, curriculum-based, checklists, language samples, and so forth. Students discuss application of assessment findings to listening and spoken language service delivery implementation.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

SHS6580 - Family Centered Practices for Children who are Deaf, Hard of Hearing (DHH) - 3 - Credits

Course Overview

Course Prefix
SHS

Course Number
6580

Department
Speech and Hearing Sciences

Course Title
Family Centered Practices for Children who are Deaf, Hard of Hearing (DHH)

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course explores issues, theories, models, research, and practices related to family and professional relationships in early intervention for children with hearing loss. It emphasizes early intervention needs of children with hearing loss who are acquiring spoken language.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Describe specific skills, competencies, and points of view needed by professionals providing family-
2. centered intervention.
3. Demonstrate an understanding of fundamental principles, generalizations, and theories related to family-centered intervention.
4. Students will apply family-centered principles to design early intervention session plans that incorporate caregiver coaching strategies and evidence-based practices to promote caregiver competence.

SHS6700 - Practicum in Education of Children who are Deaf and Hard of Hearing - 1 - 3 Credits

Course Overview

Course Prefix
SHS

Course Number
6700

Department
Speech and Hearing Sciences

Course Title
Practicum in Education of Children who are Deaf and Hard of Hearing

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course is supervised diagnostic and remedial casework in education of the deaf and hard of hearing.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Demonstrate discipline-specific competencies in delivering evidence-based LSL services to children who are DHH across diverse service settings (e.g., home visits, tele-intervention, groups, classrooms, individual therapy, and clinical sessions).
2. Develop the interdisciplinary knowledge and skills needed to collaborate effectively with professional
3. colleagues and families.

SHS6715 - Listening and Spoken Language Practicum Workshop - 1 - Credits

Course Overview

Course Prefix
SHS

Course Number
6715

Department
Speech and Hearing Sciences

Course Title
Listening and Spoken Language Practicum Workshop

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course supports Deaf Education graduate students by covering service delivery concepts and implementation, including curriculum development and lesson planning in providing individualized services for children who are deaf or hard of hearing.

Credit Hours

Credit Hours Min:
1

Contact Hours

Contact Hours Min:
1

Billing Hours

Billing Hours Min:
1

Lecture Hours

Lecture Hours Min:
1

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Participate in collaborative and supportive discussions with other students in a variety of practicum
2. placements.
3. Brainstorm and share ideas and insights from their practicum experiences.
4. Develop skills needed to become a reflective practitioner and collaborative colleague as LSL practitioners.

SHS6720 - Interdisciplinary Implementation of IDEA - 2 - Credits

Course Overview

Course Prefix
SHS

Course Number
6720

Department
Speech and Hearing Sciences

Course Title
Interdisciplinary Implementation of IDEA

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces effective research and evidence-based services for children who are deaf or hard of hearing and their families, including team approach service delivery, special education law and policy, Part C and early intervention, and the IEP and IFSP.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Engage in interdisciplinary collaboration to support integrated service delivery, applying research evidence and best practice recommendations.
2. Demonstrate understanding of special education laws, policies, and key court decisions that shape and
3. guide service delivery.
4. Apply course concepts to enhance critical thinking and problem-solving skills for effective interdisciplinary service delivery.

SHS6730 - Multiple Disabilities and Differentiated Instruction - 2 - Credits

Course Overview

Course Prefix
SHS

Course Number
6730

Department
Speech and Hearing Sciences

Course Title
Multiple Disabilities and Differentiated Instruction

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students obtain a basic understanding of the problems and characteristics of children who have hearing loss and one or more disabling conditions. This course also discusses teaching strategies.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Recognize syndromes commonly associated with hearing loss and describe their etiologies.
2. Discuss the language, developmental, and educational impacts of hearing loss when combined with
3. additional disabilities.
4. Identify and apply teaching strategies that support differentiated instruction and improved outcomes for children with multiple disabilities.

SHS6770 - Audiology and Teachers of Children who are Deaf and Hard of Hearing - 1 - 3 Credits

Course Overview

Course Prefix
SHS

Course Number
6770

Department
Speech and Hearing Sciences

Course Title
Audiology and Teachers of Children who are Deaf and Hard of Hearing

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course focuses on the fields of hearing science and audiology and how information from these disciplines relates to the education of deaf and hard-of-hearing children.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Describe the type and degree of hearing loss; explain basic audiologic assessments and their purposes; and effectively interpret and communicate audiogram results to parents and professionals.
2. Explain the anatomy and physiology of common hearing disorders.
3. Identify the components, functions, and troubleshooting procedures for hearing aids, bone-anchored
4. devices, cochlear implants, and assistive listening technologies.

SHS6850 - Seminar in Communicative Disorders and Deaf Education - 1 - 3 Credits

Course Overview

Course Prefix
SHS

Course Number
6850

Department
Speech and Hearing Sciences

Course Title
Seminar in Communicative Disorders and Deaf Education

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Students research and analyze selected topics.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Interpret and integrate research and evidence-based practices that guide high-quality services for children who are DHH and their families.
2. Describe the roles and contributions of deaf educators, speech-language pathologists, and audiologists in delivering coordinated LSL services.
3. Demonstrate culturally responsive collaboration with families and professionals to support cohesive and effective LSL intervention.

SHS6880 - Listening and Spoken Language Deaf Education Student Teaching - 6 - 12 Credits

Course Overview

Course Prefix
SHS

Course Number
6880

Department
Speech and Hearing Sciences

Course Title
Listening and Spoken Language Deaf Education Student Teaching

Grade Mode
Pass/Fail

Repeat Status
NR

Course Description
Students apply listening and spoken language (LSL) direct service concepts and skills (including curriculum development, instructional strategies, lesson design, and classroom management) in classroom contexts. Mentor teachers and university supervisors support competency development and implementation of evidence-based practices.

Credit Hours

Credit Hours Min:
6

Credit Hours Max:
12

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
6

Contact Hours Max:
12

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
6

Billing Hours Max:
12

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
6

Lecture Hours Max:
12

Lecture Hours Operator:
TO

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Apply content knowledge and practicum experiences to provide differentiated, evidence-based instruction for children who are deaf or hard of hearing, using core standards, assessments, and ongoing data to guide decision-making.
2. Demonstrate competencies in creating lesson plans, designing curricula, and creating a positive and
3. effective learning environment.
4. Demonstrate professional competencies to uphold the highest standards of legal, moral, and ethical conduct as outlined in Utah State Board Rule R277-304-8.

SHS6900 - Independent Study - 1 - 9 Credits

Course Overview

Course Prefix
SHS

Course Number
6900

Department
Speech and Hearing Sciences

Course Title
Independent Study

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
This course allows undergraduate students to pursue personal research interests by formalizing an independent project under the guidance of a professor or faculty mentor.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
9

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
9

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
9

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
9

Lecture Hours Operator:
TO

Special Approval

Instructor permission

No Requirements

SHS6905 - Special Topics in Communicative Disorders - 1 - 3 Credits

Course Overview

Course Prefix
SHS

Course Number
6905

Department
Speech and Hearing Sciences

Course Title
Special Topics in Communicative Disorders

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course addresses special topics in communicative disorders and deaf education. The topic and requirements are set by the instructor.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Students will explain main ideas of a designated topic in communicative disorders and deaf education.
2. Students will report important details of a designated topic in communicative disorders and deaf education.

SHS6930 - Comprehensive Examination in Speech-Language Pathology - 1 - Credits

Course Overview

Course Prefix
SHS

Course Number
6930

Department
Speech and Hearing Sciences

Course Title

Comprehensive Examination in Speech-Language Pathology

Grade Mode
Pass/Fail

Repeat Status
NR

Course Description

Students prepare for and complete a comprehensive case-based examination in speech-language pathology. Students demonstrate their ability to analyze, synthesize, apply, and express knowledge from across their graduate academic and clinical course work at an entry-practice level.

Credit Hours

Credit Hours Min:
1

Contact Hours

Contact Hours Min:
1

Billing Hours

Billing Hours Min:
1

Lecture Hours

Lecture Hours Min:
1

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Analyze, synthesize, and apply major concepts from across graduate coursework in speech-language pathology in a comprehensive examination.
2. Demonstrate academic and clinical knowledge of speech-language pathology at an entry-practice level in a comprehensive examination.

SHS6970 - Thesis - 1 - 7 Credits

Course Overview

Course Prefix
SHS

Course Number
6970

Department
Speech and Hearing Sciences

Course Title
Thesis

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
This course is designed for students preparing a master's degree thesis.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
7

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
7

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
7

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
7

Lecture Hours Operator:
TO

Special Approval

Instructor permission

No Requirements

SHS6990 - Continuing Graduate Advisement - 1 - 9 Credits

Course Overview

Course Prefix
SHS

Course Number
6990

Department
Speech and Hearing Sciences

Course Title
Continuing Graduate Advisement

Grade Mode
Temporary Pass/Fail

Repeat Status
RP

Course Description
This course provides graduate students with continued support and advisement. It is usually taken following completion of all coursework required for the degree.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
9

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
9

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
9

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
9

Lecture Hours Operator:
TO

No Requirements

SHS7000 - Implementation Science Seminar - 1 - Credits

Course Overview

Course Prefix
SHS

Course Number
7000

Department
Speech and Hearing Sciences

Course Title
Implementation Science Seminar

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
This course provides a weekly presentation of research projects, ideas, current topics in the field, and clinical initiatives by faculty, students, and guests to facilitate the execution of implementation science in audiology.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Registration Restrictions
Admission to the Audiology - AuD program.

Course Learning Objectives

Course Learning Outcomes

1. Describe principles of research and evidence-based practice relevant to clinical decision-making in audiology.
2. Engage in professional discussion of emerging literature, clinical practices, and disciplinary trends.
3. Identify strategies that strengthen hearing health services across patient, provider, clinic, and system levels.
4. Demonstrate effective collaboration and communication across clinical, supervisory, and interdisciplinary contexts.
5. Discuss foundational concepts related to clinical supervision, hearing conservation, and contemporary issues in audiology.

SHS7050 - Introduction to the Field of Audiology - 1 - Credits

Course Overview

Course Prefix
SHS

Course Number
7050

Department
Speech and Hearing Sciences

Course Title
Introduction to the Field of Audiology

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides current Audiology students with information on a variety of professional issues important to clinical practice and graduate coursework in audiology.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Registration Restrictions
Admission to the Audiology - AuD program.

Course Learning Objectives

Course Learning Outcomes

1. Describe legal, ethical, and regulatory frameworks governing audiology practice.
2. Explain credentialing, licensure, and certification requirements.
3. Apply professional standards to common practice-management and ethical scenarios.

SHS7100 - Acoustics - 1 - Credits

Course Overview

Course Prefix
SHS

Course Number
7100

Department
Speech and Hearing Sciences

Course Title
Acoustics

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
The purpose of this course is two-fold: 1) to provide students with the theories underlying basic principles of acoustics, and 2) to develop basic science and problem-solving skills.

Credit Hours

Credit Hours Min:
1

Contact Hours

Contact Hours Min:
1

Billing Hours

Billing Hours Min:
1

Lecture Hours

Lecture Hours Min:
1

Registration Restrictions
Admission Audiology - AuD program.

Course Learning Objectives

Course Learning Outcomes
1. Describe the generation and propagation of sound and perform basic analyses of sound waves.
2. Develop skills and confidence in the mathematics necessary for audiological evaluation and the critical consumption of research.
3. Understand acoustic properties related to hearing.
4. Relate basic acoustic principles to the practice of Audiology.
5. Develop problem-solving skills necessary for the fields of clinical practice and science.

SHS7200 - Introduction to Clinical Practice - 1 - 4 Credits

Course Overview

Course Prefix
SHS

Course Number
7200

Department
Speech and Hearing Sciences

Course Title
Introduction to Clinical Practice

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course is a supervised diagnostic practicum for first-year students in the Audiology Program.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
4

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
4

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
4

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
4

Lecture Hours Operator:
TO

Registration Restrictions
Admission to the Audiology - AuD program.

Course Learning Objectives

Course Learning Outcomes
1. Perform core audiologic assessment procedures with appropriate supervision.

2. Document findings and impressions using professional clinical language.
3. Demonstrate professional communication with patients, families, and clinic staff.

SHS7240 - Anatomy and Physiology - 3 - Credits

Course Overview

Course Prefix
SHS

Course Number
7240

Department
Speech and Hearing Sciences

Course Title
Anatomy and Physiology

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course reviews the anatomy and physiology of the peripheral and central hearing and balance system focusing on healthy function. This course also covers basic genetics and an overview of the hearing system's embryology and development.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Registration Restrictions

Admission to the Audiology - AuD program.

Course Learning Objectives

Course Learning Outcomes

1. Identify the microscopic and gross anatomy of the peripheral and central auditory and vestibular systems.
2. Demonstrate an understanding of macroscopic and microscopic function of the auditory and vestibular systems.
3. Describe basic principles of genetics.
4. Demonstrate a basic understanding of embryology and the development of the auditory and vestibular systems

SHS7250 - Pediatric Audiology Practicum for the Listening and Spoken Language Emphasis - 1 - 9 Credits

Course Overview

Course Prefix
SHS

Course Number
7250

Department
Speech and Hearing Sciences

Course Title
Pediatric Audiology Practicum for the Listening and Spoken Language Emphasis

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Pediatric audiology practicum for students participating in the Listening and Spoken Language (LSL) emphasis.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
9

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
9

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
9

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
9

Lecture Hours Operator:
TO

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Participate in pediatric audiologic assessment and management using Listening and Spoken Language principles.
2. Assist with pediatric amplification and hearing-technology procedures.
3. Communicate results and recommendations using family-centered language.

SHS7300 - Intermediate Clinical Practicum - 1 - 9 Credits

Course Overview

Course Prefix
SHS

Course Number
7300

Department
Speech and Hearing Sciences

Course Title
Intermediate Clinical Practicum

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Supervised diagnostic practicum for second-year students in the Audiology Program.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
9

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
9

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
9

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
9

Lecture Hours Operator:
TO

Registration Restrictions

Admission to the Audiology Program

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Complete the full audiologic test battery with increasing independence.
2. Interpret behavioral and physiologic findings to form diagnostic impressions.
3. Develop and communicate preliminary management recommendations.

SHS7310 - Psychoacoustics - 2 - Credits

Course Overview

Course Prefix
SHS

Course Number
7310

Department
Speech and Hearing Sciences

Course Title
Psychoacoustics

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
The purpose of this course is two-fold: 1) to provide students with the theories underlying basic principles of psychology of hearing, and 2) to develop basic science and problem-solving skills.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Registration Restrictions

Admission to the Audiology - AuD program.

Course Learning Objectives

Course Learning Outcomes

1. Understand how sound is processed by the ear
2. Read and interpret basic auditory research
3. Draw clinical conclusions of how pathological auditory processing affects hearing

SHS7320 - Amplification I - 3 - Credits

Course Overview

Course Prefix
SHS

Course Number
7320

Department
Speech and Hearing Sciences

Course Title
Amplification I

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers hearing aid types and uses, hearing aid components and characteristics, electroacoustic performance, hearing aid candidacy and hearing aid evaluation, and hearing aid fitting and orientation.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Admission to the Audiology - AuD program.

Course Learning Objectives

Course Learning Outcomes

1. Describe consequences of hearing loss, evidence-based amplification tests, and factors influencing hearing aid services.
2. Synthesize information to guide hearing-aid selection, assessment, and treatment.
3. Apply course material when performing pre-fitting tests, electroacoustic measures, and earmold impressions.
4. Develop applied clinical skills in hearing aid evaluation and management.

SHS7340 - Pediatric Audiology - 2 - 3 Credits

Course Overview

Course Prefix
SHS

Course Number
7340

Department
Speech and Hearing Sciences

Course Title
Pediatric Audiology

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides students with understanding of normal auditory development and theoretical, clinical, and practical issues involved in screening, assessment, and management of children with hearing loss.

Credit Hours

Credit Hours Min:
2

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
2

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
2

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
2

Lecture Hours Max:
3

Lecture Hours Operator:
TO

Registration Restrictions
Admission to the Audiology - AuD program.

Course Learning Objectives

Course Learning Outcomes

1. Gain an understanding of the key components of hearing loss identification, comprehensive assessment, verification, and monitoring in children.
2. Describe and identify developmental characteristics and landmarks across children with hearing loss and typical hearing
3. Collaboratively support the child and their family—as well as transdisciplinary professionals—when educating, counseling, and advocating around issues that arise throughout childhood due to diagnosed hearing disorders.

SHS7360 - Pediatric Amplification - 1 - 3 Credits

Course Overview

Course Prefix
SHS

Course Number
7360

Department
Speech and Hearing Sciences

Course Title
Pediatric Amplification

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides a comprehensive exploration of pediatric amplification, focusing on the foundational principles and advanced clinical applications essential for audiology professionals working with children. Students learn the considerations in selecting, fitting, and managing amplification systems for pediatric populations.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

Registration Restrictions
Admission to the Audiology - AuD program.

Course Learning Objectives

Course Learning Outcomes
1. Identify and describe evidenced-based practice for amplification selection, verification, orientation, and validation for the pediatric population, considering patient characteristics, developmental behavior, laws, regulations and policies.

2. Identify perspectives of other disciplines and incorporate knowledge of those views to enhance collaboration and improve communications.

SHS7380 - Advanced Audiology - 3 - Credits

Course Overview

Course Prefix
SHS

Course Number
7380

Department
Speech and Hearing Sciences

Course Title
Advanced Audiology

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers special auditory testing for site of lesion in the conductive, sensory, and neural/central auditory systems with special emphasis on the comprehensive behavioral audiologic test battery.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Registration Restrictions
Admission to the Audiology - AuD program.

Course Learning Objectives

Course Learning Outcomes

1. Complete a complete audiologic test battery with increasing independence.
2. Interpret behavioral and physiologic findings to form diagnostic impressions.
3. Develop and communicate preliminary management recommendations.

SHS7400 - Advanced Clinical Practicum - 1 - 9 Credits

Course Overview

Course Prefix
SHS

Course Number
7400

Department
Speech and Hearing Sciences

Course Title
Advanced Clinical Practicum

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course is supervised clinical practicum for third-year students in the Audiology Program.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
9

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
9

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
9

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
9

Lecture Hours Operator:
TO

Registration Restrictions
Admission to the Audiology - AuD program.

Course Learning Objectives

Course Learning Outcomes

1. Describe specialized behavioral and physiologic procedures used in site-of-lesion assessment.

2. Select appropriate special tests based on diagnostic questions.
3. Interpret results from special auditory tests within the broader diagnostic battery.

SHS7410 - Noise and Hearing Conservation - 1 - 3 Credits

Course Overview

Course Prefix
SHS

Course Number
7410

Department
Speech and Hearing Sciences

Course Title
Noise and Hearing Conservation

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students learn principles of noise hazard evaluation, effects of noise on the auditory mechanism, and development and maintenance of an effective hearing conservation program.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

Registration Restrictions

Admission to the Audiology - AuD Program.

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Evaluate noise exposure using recognized measurement standards.
2. Describe effects of noise on auditory and systemic health.
3. Identify and explain components of an evidence-based hearing conservation program.

SHS7420 - Amplification II - 3 - Credits

Course Overview

Course Prefix
SHS

Course Number
7420

Department
Speech and Hearing Sciences

Course Title
Amplification II

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides applications of advanced hearing aid circuitry. Hearing aid troubleshooting, modifications, and repairs are addressed. Pediatric amplification is also covered.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Registration Restrictions
Admission to the Audiology - AuD program.

Course Learning Objectives

Course Learning Outcomes

1. Critically analyze and discuss practice implications for advanced topics.
2. Synthesize information to formulate decisions for hearing aid selection, assessment, and treatment for the pediatric population.
3. Research topics and orally present complex information in a meaningful way that is understandable and supports learning.

SHS7430 - Electrophysiology - 3 - Credits

Course Overview

Course Prefix
SHS

Course Number
7430

Department
Speech and Hearing Sciences

Course Title
Electrophysiology

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides students with extensive working knowledge of early, middle, and late evoked potentials. Assessment of the sensory function of the auditory system with otoacoustic emissions also included.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Admission to the Audiology - AuD program.

Course Learning Objectives

Course Learning Outcomes

1. Describe physiologic foundations of auditory evoked potentials and otoacoustic emissions.
2. Select appropriate test protocols for clinical indications.
3. Record, analyze, and interpret evoked potential and OAE results.

SHS7450 - Counseling for Audiological Care - 3 - Credits

Course Overview

Course Prefix
SHS

Course Number
7450

Department
Speech and Hearing Sciences

Course Title
Counseling for Audiological Care

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students gain foundational theoretical background knowledge necessary for effective implementation of evidence-based counseling approaches when providing diagnostic, treatment, and educational services for individuals with hearing and balance disorders and their families.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Admission to the Audiology - AuD program.

Course Learning Objectives

Course Learning Outcomes

1. Gain an understanding of counseling and how learn to apply said techniques when providing hearing healthcare.
2. Develop specific counseling skills, competencies, and points of view needed by clinicians practicing audiology.
3. Bolster their abilities to collectively determine the counseling needs of individuals who are affected by hearing loss.
4. Collaboratively work with the patient and/or their family to address the issues affecting them as a result of diagnosed hearing disorders.

SHS7460 - Aural Rehabilitation Across the Lifespan - 3 - Credits

Course Overview

Course Prefix
SHS

Course Number
7460

Department
Speech and Hearing Sciences

Course Title
Aural Rehabilitation Across the Lifespan

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students learn to help individuals with hearing loss apply their impaired auditory sense in language communication. It includes models of aural rehabilitation, cultural issues, federal/state mandates, early identification, intervention, amplification, vocational placement, quality of life, and implementing aural rehabilitation.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Admission to the Audiology - AuD program.

Course Learning Objectives

Course Learning Outcomes

1. Prepare and execute person-/family-centered aural (re)habilitation plans rooted in the biopsychosocial approach of the International Classification of Functioning, Disability and Health framework.
2. Identify and understand the effects of hearing and communication difficulties on various aspects of daily living across the lifespan (e.g., schooling, social relationships, vocation, marital dyads, family dynamics)
3. Demonstrate an understanding of laws and regulations impacting individuals with hearing loss across the lifespan to effectively educate and advocate for them as a clinical audiologist.

SHS7490 - Medical Aspects of Audiology - 3 - Credits

Course Overview

Course Prefix
SHS

Course Number
7490

Department
Speech and Hearing Sciences

Course Title
Medical Aspects of Audiology

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students study the etiology, symptomatology, audiological manifestations, and medical treatment of various pathological conditions of the auditory system.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Admission to the Audiology - AuD program.

Course Learning Objectives

Course Learning Outcomes

1. Increase knowledge of disorders affecting the auditory system, associated management strategies, and expected audiometric outcomes.
2. Strengthen skills in symptom interpretation, test selection and interpretation, and medical referral decision-making.

SHS7510 - Supervision in Speech and Hearing Sciences - 2 - Credits

Course Overview

Course Prefix
SHS

Course Number
7510

Department
Speech and Hearing Sciences

Course Title
Supervision in Speech and Hearing Sciences

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Principles and practices of supervision in Speech and Hearing Sciences. Emphasizes clinical and educational supervision as these styles relate to individuals who are deaf and hard of hearing or who have communicative disorders.

Credit Hours

Credit Hours Min:
2

Contact Hours

Contact Hours Min:
2

Billing Hours

Billing Hours Min:
2

Lecture Hours

Lecture Hours Min:
2

No Requirements

SHS7520 - Introduction to Cochlear Implants - 2 - 3 Credits

Course Overview

Course Prefix
SHS

Course Number
7520

Department
Speech and Hearing Sciences

Course Title
Introduction to Cochlear Implants

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Provides an introduction to cochlear implant technology, including a history of cochlear implants, development of cochlear implants, candidacy for cochlear implants, and outcomes for cochlear implant recipients.

Credit Hours

Credit Hours Min:
2

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
2

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
2

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
2

Lecture Hours Max:
3

Lecture Hours Operator:
TO

Registration Restrictions
Admission to the Audiology - AuD program.

Course Learning Objectives

Course Learning Outcomes
1. Describe the components and function of cochlear implant systems.

2. Explain candidacy criteria and expected outcomes for cochlear implant recipients.
3. Compare cochlear implants with other hearing technologies in terms of indications and limitations.

SHS7530 - Balance Evaluation and Management - 3 - Credits

Course Overview

Course Prefix
SHS

Course Number
7530

Department
Speech and Hearing Sciences

Course Title
Balance Evaluation and Management

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students explore techniques and technology for vestibular and balance assessment, including electronystagmography, videonystagmography, rotational testing, and posturography.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Admission to the Audiology - AuD program.

Course Learning Objectives

Course Learning Outcomes
1. Describe anatomy and physiology of the vestibular system relevant to assessment.
2. Explain principles and indications for ENG, VNG, rotational testing, and posturography.
3. Perform and interpret results of fundamental vestibular assessments.

SHS7710 - Evidence-Based Practice in Audiology - 3 - Credits

Course Overview

Course Prefix
SHS

Course Number
7710

Department
Speech and Hearing Sciences

Course Title
Evidence-Based Practice in Audiology

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Discussion of evidence-based practice in hearing and balance disorders, including existing research base, areas in need of further research, and issues related to implementation in practice.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Earn a minimum grade of C in the following:
- SHS2600 - Introduction to Communication Disorders

(May be taken concurrently)

SHS7730 - Advanced Topics in Audiology - 3 - Credits

Course Overview

Course Prefix
SHS

Course Number
7730

Department
Speech and Hearing Sciences

Course Title
Advanced Topics in Audiology

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course discusses advanced topics and issues in hearing and balance disorders, including assessment and treatment considerations, underlying influences related to treatment adherence, and functional outcomes.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Critically evaluate emerging research in hearing and balance sciences.
2. Discuss implications of new technology and treatments for clinical practice.
3. Integrate research findings into decision-making for complex audiologic cases.

SHS7740 - Research in Audiology - 3 - Credits

Course Overview

Course Prefix
SHS

Course Number
7740

Department
Speech and Hearing Sciences

Course Title
Research in Audiology

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Under faculty direction, students read and discuss current research in audiology, examine methods used, and limitations.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

SHS7800 - Clinical Externship in Audiology - 1 - 9 Credits

Course Overview

Course Prefix
SHS

Course Number
7800

Department
Speech and Hearing Sciences

Course Title
Clinical Externship in Audiology

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course is a twelve-month full-time clinical practicum experience in one or more off-campus clinical sites.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
9

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
9

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
9

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
9

Lecture Hours Operator:
TO

Registration Restrictions
Admission to the Audiology - AuD program.

Course Learning Objectives

Course Learning Outcomes
1. Provide supervised audiologic services across the scope of practice.
2. Manage a full-time clinical caseload with professional conduct and effective time management.
3. Collaborate with interprofessional teams and community partners in service delivery.

SHS7820 - Clinical Research in Audiology - 1 - Credits

Course Overview

Course Prefix
SHS

Course Number
7820

Department
Speech and Hearing Sciences

Course Title
Clinical Research in Audiology

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course facilitates completion of doctoral students' clinical research projects in audiology. Further enables students to incorporate evidence-based practice into the profession of audiology.

Credit Hours

Credit Hours Min:
1

Contact Hours

Contact Hours Min:
1

Billing Hours

Billing Hours Min:
1

Lecture Hours

Lecture Hours Min:
1

Registration Restrictions
Admission to the Audiology - AuD program.

No Requirements

SHS7830 - Special Topics in Speech-Language Pathology - 3 - Credits

Course Overview

Course Prefix
SHS

Course Number
7830

Department
Speech and Hearing Sciences

Course Title
Special Topics in Speech-Language Pathology

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course discusses advanced topics and issues in speech and language disorders, including theories of information processing and learning mechanisms underlying speech and language disorders, nature of various types of speech and language disorders, current research, assessment practices, and/or intervention practices.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

SHS7840 - Journal Reading Group in Speech-Language Pathology - 1 - Credits

Course Overview

Course Prefix
SHS

Course Number
7840

Department
Speech and Hearing Sciences

Course Title
Journal Reading Group in Speech-Language Pathology

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Under faculty direction, students read and discuss published research. Students learn to critique empirical and theoretical papers, as well as current research findings in important areas of speech-language pathology.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

No Requirements

SHS7860 - Practice Management in Audiology - 1 - Credits

Course Overview

Course Prefix
SHS

Course Number
7860

Department
Speech and Hearing Sciences

Course Title
Practice Management in Audiology

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers audiology business and practice management. It includes discussion of business set-up, the business plan, managerial accounting and financial analysis, marketing, pricing, reimbursement, record keeping, and forensics.

Credit Hours

Credit Hours Min:
1

Contact Hours

Contact Hours Min:
1

Billing Hours

Billing Hours Min:
1

Lecture Hours

Lecture Hours Min:
1

Registration Restrictions
Admission to the Audiology - AuD program.

Course Learning Objectives

Course Learning Outcomes

1. Describe core components of audiology business operations and practice models.
2. Interpret financial and practice metrics relevant to service delivery.
3. Apply principles of coding, billing, and reimbursement to audiologic services

SHS7870 - Clinical Research Project - 1 - 6 Credits

Course Overview

Course Prefix
SHS

Course Number
7870

Department
Speech and Hearing Sciences

Course Title
Clinical Research Project

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Under the direction of his or her advisory committee, the student develops a clinically-related project. This project is a creative work at a doctoral level and worthy of publication or presentation.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
6

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
6

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
6

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
6

Lecture Hours Operator:
TO

Registration Restrictions
Admission to theAudiology - AuD.

Course Learning Objectives

Course Learning Outcomes

1. Critically identify and evaluate research literature to inform evidence-based clinical decision-making and strengthen professional practice in audiology.
2. Design and carry out a mentored research project or paper to address a theoretically and/or clinically relevant question in audiology.
3. Analyze, interpret, and clearly communicate research findings to professional and lay audiences

SHS7880 - Research Methods in Audiology - 3 - Credits

Course Overview

Course Prefix
SHS

Course Number
7880

Department
Speech and Hearing Sciences

Course Title
Research Methods in Audiology

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This graduate-level course builds foundational research methodology in audiology for evidence-based diagnostic, treatment, and educational services, while strengthening students' ability to locate, analyze, and critically discuss research articles relevant to hearing and balance disorders.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Describe major quantitative and qualitative research designs used in audiology.
2. Evaluate strengths and limitations of research studies.
3. Develop a basic research proposal.

SHS7890 - Journal Reading - Audiology - 1 - Credits

Course Overview

Course Prefix
SHS

Course Number
7890

Department
Speech and Hearing Sciences

Course Title
Journal Reading - Audiology

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Under faculty direction, students read and discuss published research. Students learn to critique empirical and theoretical papers as well as current research findings in important areas of Audiology.

Credit Hours

Credit Hours Min:
1

Contact Hours

Contact Hours Min:
1

Billing Hours

Billing Hours Min:
1

Lecture Hours

Lecture Hours Min:
1

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Critically appraise empirical and theoretical work in audiology.
2. Summarize key findings from current research literature.
3. Discuss applications of research evidence to audiology practice

SHS7900 - Independent Study - 1 - 2 Credits

Course Overview

Course Prefix
SHS

Course Number
7900

Department
Speech and Hearing Sciences

Course Title
Independent Study

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
In this course, advanced students, under direction of a faculty member, will study independently.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
2

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
2

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
2

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
2

Lecture Hours Operator:
TO

Special Approval

Instructor permission

No Requirements

SHS7910 - Independent Research - 1 - 2 Credits

Course Overview

Course Prefix
SHS

Course Number
7910

Department
Speech and Hearing Sciences

Course Title
Independent Research

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
In this course, advanced students, under the direction of a faculty member, conduct research in an area of personal interest.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
2

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
2

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
2

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
2

Lecture Hours Operator:
TO

No Requirements

SHS7920 - Preliminary Exam - 1 - Credits

Course Overview

Course Prefix
SHS

Course Number
7920

Department
Speech and Hearing Sciences

Course Title
Preliminary Exam

Grade Mode
Pass/Fail

Repeat Status
NR

Course Description
This course provides preparation for and supports the successful completion of an oral examination. Students demonstrate the knowledge and skills they gain during their graduate studies through case-based interactions with a standardized patient and/or parent.

Credit Hours

Credit Hours Min:
1

Contact Hours

Contact Hours Min:
1

Billing Hours

Billing Hours Min:
1

Lecture Hours

Lecture Hours Min:
1

Registration Restrictions
Admission to the Audiology - AuD program.

Course Learning Objectives

Course Learning Outcomes

1. Demonstrate ability to complete a comprehensive hearing evaluation.
2. Demonstrate competency in required KASA clinical and professional skills.
3. Demonstrate readiness for off-campus externship placements.

SHS7930 - Comprehensive Exam - 1 - Credits

Course Overview

Course Prefix
SHS

Course Number
7930

Department
Speech and Hearing Sciences

Course Title
Comprehensive Exam

Grade Mode
Pass/Fail

Repeat Status
NR

Course Description
This course provides preparation for, and successful completion of, a written case-based comprehensive examination. Assesses students' ability to synthesize and apply knowledge from their Audiology graduate course work.

Credit Hours

Credit Hours Min:
1

Contact Hours

Contact Hours Min:
1

Billing Hours

Billing Hours Min:
1

Lecture Hours

Lecture Hours Min:
1

Registration Restrictions
Admission to the Audiology - AuD program.

Course Learning Objectives

Course Learning Outcomes

1. Integrate foundational and advanced audiologic knowledge to accurately assess complex case information and formulate evidence-based conclusions and recommendations.
2. Demonstrate clear, organized, and professional reasoning in exam responses that reflect developmentally appropriate mastery.

SHS7990 - Continuing Graduate Advisement - 1 - 9 Credits

Course Overview

Course Prefix
SHS

Course Number
7990

Department
Speech and Hearing Sciences

Course Title
Continuing Graduate Advisement

Grade Mode
Temporary Pass/Fail

Repeat Status
RP

Course Description
This course provides graduate students with continued support and advisement. It is usually taken following completion of all coursework required for the degree.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
9

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
9

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
9

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
9

Lecture Hours Operator:
TO

No Requirements

SLSC1010 - New Student Orientation - 1 - Credits

Course Overview

Course Prefix
SLSC

Course Number
1010

Department
Technology, Design & Technical Ed

Course Title
New Student Orientation

Grade Mode
Pass/Fail

Repeat Status
NR

Course Description

Designed to provide incoming students with a working knowledge of the opportunities and services available to them at USU Eastern. This two-phase course will assist in the student's transition to college and successful completion of his/her academic goals. During Phase I of orientation, instruction includes an overview of academic regulations, graduation requirements, USU Eastern policies and procedures, the advising process, and course registration. Students are familiarized with USU Eastern resources, personnel, and functions of academic and student support services. During Phase II, students have the opportunity to interact in a social setting with student leaders, student service personnel, faculty advisors, and fellow students, as we seek to establish a connection between the student and campus community.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

No Requirements

SLSC1030 - International Student Orientation - 1 - Credits

Course Overview

Course Prefix
SLSC

Course Number
1030

Department
Technology, Design & Technical Ed

Course Title
International Student Orientation

Grade Mode
Pass/Fail

Repeat Status
NR

Course Description

Provides first-semester students with knowledge of the services and regulations governing international students while attending USU Eastern. Aids students in their cultural transition to U.S. education and will provide particulars of complying with BCIS (Bureau of Citizenship and Immigration Service) rules and regulations governing F-1 visa holders. Includes an overview of academic regulations, graduation requirements, USU Eastern policies and procedures. Class meets daily for the first three weeks of each semester. Course is required of all new F-1 international students.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

No Requirements

SLSC1110 - Leadership Perspectives - 1 - 3 Credits

Course Overview

Course Prefix
SLSC

Course Number
1110

Department
Technology, Design & Technical Ed

Course Title
Leadership Perspectives

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course is the first course in a leadership series. The purpose of this course is to introduce students to basic concepts of leadership. Students will learn theories and principles related to leadership and learn about their own personal leadership characteristics.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

Special Approval
Approval of the course coordinator

No Requirements

SLSC1120 - Leadership Perspectives - 2 - Credits

Course Overview

Course Prefix
SLSC

Course Number
1120

Department
Technology, Design & Technical Ed

Course Title
Leadership Perspectives

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course is the second course in a leadership series. The purpose of this course is to introduce students to group leadership. Students will learn concepts and theories which will assist them in working in groups. Students will complete a final group project on a topic of their choice.

Credit Hours

Credit Hours Min:
2

Contact Hours

Contact Hours Min:
2

Billing Hours

Billing Hours Min:
2

Lecture Hours

Lecture Hours Min:
2

No Requirements

SLSC1130 - Leadership Perspectives - 2 - Credits

Course Overview

Course Prefix
SLSC

Course Number
1130

Department
Technology, Design & Technical Ed

Course Title
Leadership Perspectives

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course is a discussion of various leadership situations, as well as how to utilize leadership skills to work with groups, lead groups, and tackle conflict in groups.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

No Requirements

SLSC1140 - Leadership Perspectives - 2 - Credits

Course Overview

Course Prefix
SLSC

Course Number
1140

Department
Technology, Design & Technical Ed

Course Title
Leadership Perspectives

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course is the fourth course in a leadership series. Students will complete a series of observations in which they learn about people who are different from themselves. The final project for this course will be a presentation "My Journey in Diversity" in which students discuss what they learned about themselves.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

No Requirements

SLSC1150 - College Student Affairs - 1 - Credits

Course Overview

Course Prefix
SLSC

Course Number
1150

Department
Technology, Design & Technical Ed

Course Title
College Student Affairs

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Course is the first part of an ongoing educational, development, and training program intended to help students be successful as resident assistants and student leaders.

Credit Hours

Credit Hours Min:
1

Contact Hours

Contact Hours Min:
1

Billing Hours

Billing Hours Min:
1

Lecture Hours

Lecture Hours Min:
1

No Requirements

SLSC1300 - Tutoring Training - 1 - Credits

Course Overview

Course Prefix
SLSC

Course Number
1300

Department
Technology, Design & Technical Ed

Course Title
Tutoring Training

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Designed to teach tutors how to effectively provide students with quality academic assistance, while promoting independent learning. Course covers the following: tutoring policies and procedures, basic tutoring techniques, learning styles, learning disabilities, study skills techniques, and communication and active listening skills. Course will use several types of information delivery including: lectures, videos/DVD's, and reading material.

Credit Hours

Credit Hours Min:
1

Contact Hours

Contact Hours Min:
1

Billing Hours

Billing Hours Min:
1

Lecture Hours

Lecture Hours Min:
1

No Requirements

SLSC1800 - Leadership in Civic Engagement - 2 - Credits

Course Overview

Course Prefix
SLSC

Course Number
1800

Department
Technology, Design & Technical Ed

Course Title
Leadership in Civic Engagement

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Provides students who have been selected as a service leader an opportunity to strengthen leadership skills, work with community agencies, organize and carry out service projects, and work with and encourage students to become involved with service.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Special Approval
Instructor Permission

Other Enrollment Recommendations
Must apply and be selected as a SUN Involvement Center Leader.

No Requirements

SOC1010 - Introductory Sociology (BSS) - 3 - Credits

Course Overview

Course Prefix
SOC

Course Number
1010

Department
School of Social Sciences

Course Title
Introductory Sociology (BSS)

General Education Attribute
BSS

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Examination of social behavior of humans and social institutions. Theories and methods for studying society and social issues, along with insights from related disciplines.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

SOC1020 - Social Problems (BSS) - 3 - Credits

Course Overview

Course Prefix
SOC

Course Number
1020

Department
School of Social Sciences

Course Title
Social Problems (BSS)

General Education Attribute
BSS

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Study of major U.S. and international social problems. Examination of how issues are defined as social problems and ways groups attempt to solve the problems.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

SOC1030 - Introduction to Gender & Sexuality Studies (BSS) - 3 - Credits

Course Overview

Course Prefix
SOC

Course Number
1030

Department
School of Social Sciences

Course Title
Introduction to Gender & Sexuality Studies (BSS)

General Education Attribute
BSS

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course focuses on the economic, social, cultural and political forces that shape gender relations. Students learn how gender, race, class, ability and sexuality intersect and shape relations of power and identity.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

SOC2120 - Social Statistics in Everyday Life (QI) - 3 - Credits

Course Overview

Course Prefix
SOC

Course Number
2120

Department
School of Social Sciences

Course Title
Social Statistics in Everyday Life (QI)

General Education Attribute
QI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course is designed to provide students with a very basic understanding of specific statistical techniques and how to interpret data in order to be more critical consumers of information, first as students and then as citizens.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

SOC2370 - Sociology of Gender (BSS) - 3 - Credits

Course Overview

Course Prefix
SOC

Course Number
2370

Department
School of Social Sciences

Course Title
Sociology of Gender (BSS)

General Education Attribute
BSS

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Examines impacts of social constructions of gender on individual and collective experience. Investigates how gender is shaped through social processes and through the effects of social institutions. Particular attention given to relation of gender to social stratification.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

SOC2500 - Research Methods for the Social Sciences - 3 - Credits

Course Overview

Course Prefix
SOC

Course Number
2500

Department
School of Social Sciences

Course Title
Research Methods for the Social Sciences

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Introduction to theory and research methodology which will prepare the student to understand, evaluate, and do empirical research. (i.e., an inquiry that seeks general verified explanations for any class of phenomena.) Course includes, but is not limited to, instruction in data collection, sample selection, definition and measurement, surveys, and statistical analysis. Course is a must for every student of the social sciences.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

SOC2600 - Families Yesterday and Today - 3 - Credits

Course Overview

Course Prefix
SOC

Course Number
2600

Department
School of Social Sciences

Course Title
Families Yesterday and Today

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course focuses on marriage and family as social institutions that both shape and are shaped by societal structures. Using sociological theory and research, the class examines the history of family and various issues related to marriage and family.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Gaining a basic understanding of the subject (e.g., factual knowledge, methods, principles, generalizations, theories).

2. Developing knowledge and understanding of diverse perspectives, global awareness, or other cultures.

3. Learning to apply course material (to improve thinking, problem solving, and decisions).

SOC2630 - Sociology of Race and Ethnicity (BSS) - 3 - Credits

Course Overview

Course Prefix
SOC

Course Number
2630

Department
School of Social Sciences

Course Title
Sociology of Race and Ethnicity (BSS)

General Education Attribute
BSS

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course offers sociological perspectives on the dynamics of racial and ethnic relations focusing on social structure, group interaction processes, group inequality, cultural diversity, and gender relations within and between groups.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

SOC2650 - Globalization and International Development (BSS) - 3 - Credits

Course Overview

Course Prefix
SOC

Course Number
2650

Department
School of Social Sciences

Course Title
Globalization and International Development (BSS)

General Education Attribute
BSS

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course explores economic, political, social, and cultural globalization and theories and topics related to globalization and international development. Students examine social issues and their causes, consequences, and solutions in a global context and how global forces shape their lives.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

SOC2800 - Seminar in Sociology - 3 - Credits

Course Overview

Course Prefix
SOC

Course Number
2800

Department
School of Social Sciences

Course Title
Seminar in Sociology

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Students participate in seminars covering various areas of sociology: (a) theory, (b) methodology, (c) demography, (d) social organization, (e) social deviance, (f) social psychology, (g) human ecology, (h) gerontology.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

SOC2988 - Special Problems - 1 - 3 Credits

Course Overview

Course Prefix
SOC

Course Number
2988

Department
School of Social Sciences

Course Title
Special Problems

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Individual work approved by instructor. Time and credit to be arranged.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

No Requirements

SOC2999 - Workshop - 1 - 3 Credits

Course Overview

Course Prefix
SOC

Course Number
2999

Department
School of Social Sciences

Course Title
Workshop

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Designed to meet the changing needs of the student in Sociology.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

No Requirements

SOC3010 - Social Inequality (DSS) - 3 - Credits

Course Overview

Course Prefix
SOC

Course Number
3010

Department
School of Social Sciences

Course Title
Social Inequality (DSS)

General Education Attribute
DSS

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course explores the extent, causes and consequences of social inequality in the U.S. and beyond with a focus on unequal access to political, economic and social benefits at the individual, organizational, and institutional levels historically and today.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

SOC3020 - Inclusive Leadership & Community Engagement (CI) - 3 - Credits

Course Overview

Course Prefix
SOC

Course Number
3020

Department
School of Social Sciences

Course Title
Inclusive Leadership & Community Engagement (CI)

General Education Attribute
CI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course explores different models of inclusive leadership and community engagement and their application. Students explore conceptual frameworks related to inequality, intersectionality, power and identity, and have the opportunity to develop their own leadership identity, vision and style.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

SOC3040 - The History of Sexuality - 3 - Credits

Course Overview

Course Prefix
SOC

Course Number
3040

Department
Center for Intersectional Gender Studies and Research (Inactive Code - Do Not Use)

Cross-Listed Courses
HIST3040 - The History of Sexuality

Course Title
The History of Sexuality

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course focuses on histories of sexuality in the United States. It explores why sexuality has been central to American culture. Lectures and readings specifically cover sexual politics, sexual regulation, sex and popular culture, and the historical development of sexual identities.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

SOC3110 - Methods of Social Research (CI) - 3 - Credits

Course Overview

Course Prefix
SOC

Course Number
3110

Department
School of Social Sciences

Course Title
Methods of Social Research (CI)

General Education Attribute
CI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides an overview of social research methods. It covers the formulation of research questions, usage of theory to inform research design, common data collection methods, basic techniques of analyzing that data, and ethical considerations for conducting research.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Untitled Requirement

Type
Prerequisite

Required

Completion of 6 credits in departmental courses.

SOC3120 - Social Statistics I (QI) - 3 - Credits

Course Overview

Course Prefix
SOC

Course Number
3120

Department
School of Social Sciences

Course Title
Social Statistics I (QI)

General Education Attribute
QI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers descriptive and inferential statistical methods used by social scientists. It emphasizes conceptual understanding, practical application, and effective communication of statistical processes and findings. Students work with hypothetical and real-world social data, using hand and computer-based calculations to produce statistical estimates.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Prerequisite requires a minimum grade of C- or better.

Complete ALL of the following Course Sets:

- Quantitative Literacy (QL) Course

SOC3200 - Population and Society (DSS) - 3 - Credits

Course Overview

Course Prefix
SOC

Course Number
3200

Department
School of Social Sciences

Course Title
Population and Society (DSS)

General Education Attribute
DSS

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Examination of interrelationships between population change and social structure in national and international context. Examines contributions of fertility, mortality, and migration to population characteristics, particularly sex, age, and ethnic composition. Stresses demographic data and analysis.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

SOC3260 - Politics and Society in Post-Colonial States - 3 - Credits

Course Overview

Course Prefix
SOC

Course Number
3260

Department
School of Social Sciences

Cross-Listed Courses
POLS3260 - Politics and Society in Post-Colonial States

Course Title
Politics and Society in Post-Colonial States

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Post-colonial states, including the states of the former USSR, have faced violent conflict, environmental destruction, political and economic turmoil, and demographic upheaval as they emerge from empire. This study abroad course mixes classroom experiences with internships in local organizations in order to address issues of post-colonial institutional reform, ethnic conflict, and population change.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

SOC3300 - Sociology of Climate Change - 3 - Credits

Course Overview

Course Prefix
SOC

Course Number
3300

Department
School of Social Sciences

Course Title
Sociology of Climate Change

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course examines how social structures play a role in generating the climate crisis and the unequal distribution of climate impacts. We also examine proposed climate solutions and the prevalence of institutional inaction through a sociological lens.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

SOC3310 - Environmental Justice - 3 - Credits

Course Overview

Course Prefix
SOC

Course Number
3310

Department
School of Social Sciences

Course Title
Environmental Justice

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students learn about environmental justice, which involves fair and equitable outcomes and meaningful participation in response to environmental issues. Environmental justice is interdisciplinary, intersectional, and includes issues related to class, gender, race, ethnicity, Indigenous studies, and international and global concerns.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes
1. Students will be able to explain the various aspects of environmental justice.

2. Students will be able to describe specific examples of environmental justice and injustice and related issues.

3. Students will be able to apply an environmental justice lens to a variety of environmental problems and contexts.

SOC3320 - Work, Inequality and the American Dream (DSS) - 3 - Credits

Course Overview

Course Prefix
SOC

Course Number
3320

Department
School of Social Sciences

Course Title
Work, Inequality and the American Dream (DSS)

General Education Attribute
DSS

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course explores the transformation of work and resulting inequalities in wealth and income accumulation, social mobility and opportunity. Students critically evaluate theories, concepts and debates regarding social class inequality at the intersection of race, gender, ability and sexuality.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

SOC3330 - Medical Sociology (DSS) - 3 - Credits

Course Overview

Course Prefix
SOC

Course Number
3330

Department
School of Social Sciences

Course Title
Medical Sociology (DSS)

General Education Attribute
DSS

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers the social causes of illness, the changing nature of the health care system and the profession of medicine, and their impact on physician-patient interaction and health outcomes.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes
1. Gaining a basic understanding of the subject (e.g., factual knowledge, methods, principles, generalizations, theories).

2. Developing knowledge and understanding of diverse perspectives, global awareness, or other cultures.

3. Learning to analyze and critically evaluate ideas, arguments, and points of view.

4. Learning to apply knowledge acquired in the course to benefit others of serve the public good.

SOC3340 - Activism, Protest, and Social Movements (DSS) - 3 - Credits

Course Overview

Course Prefix
SOC

Course Number
3340

Department
School of Social Sciences

Course Title
Activism, Protest, and Social Movements (DSS)

General Education Attribute
DSS

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course offers a conceptual and substantive study of social movements that have challenged established structures of power. This class provides an overview of the main theories and issues regarding social movements and interaction between individuals and societal change.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

SOC3370 - Gender-Based Violence - 3 - Credits

Course Overview

Course Prefix
SOC

Course Number
3370

Department
School of Social Sciences

Cross-Listed Courses
CJ3370 - Gender-Based Violence

Course Title
Gender-Based Violence

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Gender has a unique relationship with violence. Using the lens of intersectionality, this course analyzes how marginalized identities interact with a variety of forms of violence including sexual assault/rape and intimate partner violence, as well as systemic and institutionalized violence.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes
1. Students will be exposed to theory and research focusing on gender-based violence.
2. Students will examine gender roles, socialization, cultures of violence, the role of anger, agencies of violence, and how survival informs responses to violence.

SOC3400 - Tribal Criminal Justice Systems - 3 - Credits

Course Overview

Course Prefix
SOC

Course Number
3400

Department
School of Social Sciences

Cross-Listed Courses
CJ3400 - Tribal Criminal Justice Systems

Course Title
Tribal Criminal Justice Systems

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course examines tribal criminal justice systems present in today's Native American legal structures, and the role, impact, and integration of the reservation system with federal and state laws and government policies from the early 1800's to the present.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Other Enrollment Recommendations

CJ1010 INTRO TO CRIMINAL JUSTICE(BSS) and CJ1330 CRIMINAL LAW are recommended but not required.

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Gaining a basic understanding of the subject (ie factual knowledge, methods, principles, generalizations, theories).

2. Developing knowledge and understanding of diverse perspectives, global awareness, or other cultures.

3. Developing specific skills, competencies, and points of view needed by professionals in the field most closely related to this course

SOC3410 - Juvenile Delinquency - 3 - Credits

Course Overview

Course Prefix
SOC

Course Number
3410

Department
School of Social Sciences

Course Title
Juvenile Delinquency

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Focuses on nature, extent, and causes of delinquent behavior. Examines workings of juvenile justice system and programs for delinquency prevention.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

SOC3420 - Criminology - 3 - Credits

Course Overview

Course Prefix
SOC

Course Number
3420

Department
School of Social Sciences

Course Title
Criminology

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Examines theoretical explanations for crime in the U.S. Describes characteristics of major forms of criminal behavior.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

SOC3430 - Social Deviance (DSS) - 3 - Credits

Course Overview

Course Prefix
SOC

Course Number
3430

Department
School of Social Sciences

Course Title
Social Deviance (DSS)

General Education Attribute
DSS

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Examination of sociological perspectives on deviance as they apply to lifestyles, commitment, and social control in American society.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

SOC3440 - Victimology - 3 - Credits

Course Overview

Course Prefix
SOC

Course Number
3440

Department
School of Social Sciences

Cross-Listed Courses
CJ3440 - Victimology

Course Title
Victimology

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course explores the study of victims and the impact of crime on individuals and communities. Topics include the theoretical foundations of victimology, patterns of victimization, victim rights, the impact of gender and social class, and services available to victims.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Course Learning Objectives

Course Learning Outcomes

1. Understand the key theories and concepts in victimology.

2. Analyze patterns of victimization and their social implications.

3. Identify the psychological, emotional, and legal impacts of victimization on individuals and communities.

4. Critically examine the role of the criminal justice system in addressing victimization.

5. Discuss victim rights, advocacy, and the services available for victims of crime.

6. Assess the effects of social, economic, and cultural factors on victimization.

SOC3500 - Social Psychology - 3 - Credits

Course Overview

Course Prefix
SOC

Course Number
3500

Department
School of Social Sciences

Course Title
Social Psychology

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Explores interaction between the social system and the individual. Examines human behavior in terms of positions people occupy in the social structure.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

SOC3520 - Sociology of Mental Illness - 3 - Credits

Course Overview

Course Prefix
SOC

Course Number
3520

Department
School of Social Sciences

Course Title
Sociology of Mental Illness

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This class introduces students to socio-historical aspects of mental illness in the U.S., from the social construction of mental illness, its lived experience, and the examination of American psychiatry, to mental health policy and its interaction with the criminal justice system.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

SOC3600 - Finding Community in Today's Society (DSS) - 3 - Credits

Course Overview

Course Prefix
SOC

Course Number
3600

Department
School of Social Sciences

Course Title
Finding Community in Today's Society (DSS)

General Education Attribute
DSS

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course explores the academic and popular usage of the concept of community, including contested meanings and measurement, and relevance in today's U.S. society. Students learn ways to more effectively use the concept in their research and daily lives.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

SOC3610 - Rural People and Places (DSS) - 3 - Credits

Course Overview

Course Prefix
SOC

Course Number
3610

Department
School of Social Sciences

Course Title
Rural People and Places (DSS)

General Education Attribute
DSS

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Examines rural life and social change in the U.S. and around the world. Considers how rural people and places connect to broader society at regional, national, and global scales. Explores demographic, economic, political, social, and environmental conditions of rural communities.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

SOC3650 - Sociology of Education - 3 - Credits

Course Overview

Course Prefix
SOC

Course Number
3650

Department
School of Social Sciences

Course Title
Sociology of Education

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students develop an understanding of sociological issues in education. Though curriculum plays a role in student achievement, other factors affect this outcome. Students examine issues of gender, race, class, and sexual orientation related to educational outcomes.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

SOC3750 - Sociology of Aging (DSS) - 3 - Credits

Course Overview

Course Prefix
SOC

Course Number
3750

Department
School of Social Sciences

Course Title
Sociology of Aging (DSS)

General Education Attribute
DSS

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Examination of social context in which aging occurs, the social implications of aging, and attendant social policy issues. Considers both individual and societal aging, using an historical and global approach.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

SOC3905 - Gender, Sexuality and Adolescence - 3 - Credits

Course Overview

Course Prefix
SOC

Course Number
3905

Department
School of Social Sciences

Course Title
Gender, Sexuality and Adolescence

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This survey course focuses on the fields of childhood, adolescence and sexuality. Students learn how gender, race, class and ability shape inequalities, cultural norms and life experiences in childhood and adolescence.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- SOC1030 - Introduction to Gender & Sexuality Studies (BSS)

SOC3910 - Theories of Gender and Sexuality - 3 - Credits

Course Overview

Course Prefix
SOC

Course Number
3910

Department
School of Social Sciences

Course Title
Theories of Gender and Sexuality

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course explores theoretical perspectives and core concepts that have shaped the study of gender and sexuality. Feminist, queer and critical race theories are explored to understand the intersections of gender, race, class, ability and sexuality.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

SOC3930 - Gender and Sexuality in Contemporary Families - 3 - Credits

Course Overview

Course Prefix
SOC

Course Number
3930

Department
School of Social Sciences

Course Title
Gender and Sexuality in Contemporary Families

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course explores the economic, social, cultural and political forces that shape the family. Students learn how gender, race, class, ability and sexuality shape cultural norms of marriage and the family historically and today.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

SOC4010 - Sociological Theory: Insights from Classical and Contemporary Perspectives (DSS) - 3 - Credits

Course Overview

Course Prefix
SOC

Course Number
4010

Department
School of Social Sciences

Course Title
Sociological Theory: Insights from Classical and Contemporary Perspectives (DSS)

General Education Attribute
DSS

Grade Mode
Standard Letter

Repeat Status
NR

Course Description

This course includes critical analysis of major theorists and schools of theory in sociology from the late nineteenth century through recent and current works. Authors are discussed in terms of their biography, methodological approach and major contributions to the field of sociology.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

SOC4350 - People, Power, and the Political - 3 - Credits

Course Overview

Course Prefix
SOC

Course Number
4350

Department
School of Social Sciences

Course Title
People, Power, and the Political

Grade Mode
Standard Letter

Repeat Status
NR

Course Description

This seminar familiarizes students with theory and research in political sociology. It explores fundamental relationships between state institutions, political processes, and social structure. Topics include political inclusion and exclusion, political participation, social movements, and culture and political ideology.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

SOC4410 - Race and Crime (CI) - 3 - Credits

Course Overview

Course Prefix
SOC

Course Number
4410

Department
School of Social Sciences

Course Title
Race and Crime (CI)

General Education Attribute
CI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description

This course examines one of the most divisive issues in criminal justice—racial and ethnic incarceration disparity in the United States—and examines the social and political reasons behind and consequences of disproportionate minority involvement in the criminal justice system.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- SOC3420 - Criminology

SOC4420 - Law and Society (CI) - 3 - Credits

Course Overview

Course Prefix
SOC

Course Number
4420

Department
School of Social Sciences

Course Title
Law and Society (CI)

General Education Attribute
CI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description

This course consists of a sociological analysis of the relationship between law and social control and social change, especially regarding law enforcement, courts, and corrections.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

SOC4600 - Senior Research Capstone Seminar - 3 - Credits

Course Overview

Course Prefix
SOC

Course Number
4600

Department
School of Social Sciences

Course Title
Senior Research Capstone Seminar

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students undertake sociological analysis from research question through hypotheses, research design, data collection, data analysis, and presentation. Synthesis of student training in critical thinking and substantive areas in sociology.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Special Approval
Instructor permission

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- SOC1010 - Introductory Sociology (BSS)
- SOC3010 - Social Inequality (DSS)
- SOC3110 - Methods of Social Research (CI)
- SOC3120 - Social Statistics I (QI)
- SOC4010 - Sociological Theory: Insights from Classical and Contemporary Perspectives (DSS)

SOC4620 - Sociology of the Environment and Natural Resources (DSS) - 3 - Credits

Course Overview

Course Prefix
SOC

Course Number
4620

Department
School of Social Sciences

Course Title
Sociology of the Environment and Natural Resources (DSS)

General Education Attribute
DSS

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Social aspects associated with the environment and natural resources. Topics include: environmental attitudes and perceptions, environmentalism as a social movement, resource scarcity and land use, and social change in resource-based communities.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

SOC4640 - Managing Community Conflict (CI) - 3 - Credits

Course Overview

Course Prefix
SOC

Course Number
4640

Department
School of Social Sciences

Course Title
Managing Community Conflict (CI)

General Education Attribute
CI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description

This course covers fundamental techniques in successful conflict management at the public/community scale with a skill-building focus. Process design, facilitation, negotiation, and collaborative problem solving are addressed. Several cases are drawn from the natural resource/inter-organizational conflict in the western U.S.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

SOC4720 - Effective Community Engagement - 3 - Credits

Course Overview

Course Prefix
SOC

Course Number
4720

Department
School of Social Sciences

Course Title
Effective Community Engagement

Grade Mode
Standard Letter

Repeat Status
NR

Course Description

This course uses service learning principles to teach about the practice of community development by first exposing students to theoretical concepts related to community development and then through personalized placement with an organization aligned with their career goals.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Junior standing

SOC4800 - Seminar in Sociology - 1 - 3 Credits

Course Overview

Course Prefix
SOC

Course Number
4800

Department
School of Social Sciences

Course Title
Seminar in Sociology

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Seminars in various areas of sociology: (a) theory, (b) methodology, (c) demography, (d) social organization, (e) social deviance, (f) social psychology, (g) human ecology, (h) gerontology.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

No Requirements

SOC4900 - Capstone Experience - 1 - 3 Credits

Course Overview

Course Prefix
SOC

Course Number
4900

Department
School of Social Sciences

Course Title
Capstone Experience

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
The Capstone Experience can either be guided independent readings in an area of sociology or a hands-on research collaboration with a professor which involves selecting a research topic of interest, reviewing the literature, collecting and analyzing data, and presenting results.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

Special Approval
Instructor permission

No Requirements

SOC5120 - Population and Health - 3 - Credits

Course Overview

Course Prefix
SOC

Course Number
5120

Department
School of Social Sciences

Dual-Listed Courses
SOC6120 - Population and Health

Course Title
Population and Health

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Examines current threats to health and longevity among populations in industrialized and developing nations. Evaluates debates surrounding the history of mortality decline. Emphasis is given to the demographic, socioeconomic and environmental determinants of poor health and premature mortality.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

SOC5130 - Ethnographic Field School - 3 - 6 Credits

Course Overview

Course Prefix
SOC

Course Number
5130

Department
School of Social Sciences

Cross-Listed Courses
ANTH5130 - Ethnographic Field School

Dual-Listed Courses
SOC6130 - Ethnographic Field School

Course Title
Ethnographic Field School

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Provides practical training in use of ethnographic field methods, qualitative data analysis, and ethnographic report-writing. Combines classroom instruction with supervised off-campus field research, while living in a cross-cultural setting. Fulfills program methods requirement. Application and additional fee required.

Credit Hours

Credit Hours Min:
3

Credit Hours Max:
6

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
3

Contact Hours Max:
6

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
3

Billing Hours Max:
6

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
3

Lecture Hours Max:
6

Lecture Hours Operator:
TO

SOC5230 - Techniques of Demographic Analysis - 3 - Credits

Course Overview

Course Prefix
SOC

Course Number
5230

Department
School of Social Sciences

Dual-Listed Courses
SOC6230 - Techniques of Demographic Analysis

Course Title
Techniques of Demographic Analysis

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides instruction in use of rates, ratios, life tables, and related measures to describe, analyze, and estimate the three demographic processes: fertility, mortality, and migration. Special emphasis is placed on using U.S. Census data to create population profiles. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

SOC5270 - Global Migration - 3 - Credits

Course Overview

Course Prefix
SOC

Course Number
5270

Department
School of Social Sciences

Dual-Listed Courses
SOC6270 - Global Migration

Course Title
Global Migration

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces students to the ways researchers have answered three key questions regarding migration: why people migrate, how migration influences the destination society, and how migration shapes the origin society.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Special Approval
Instructor permission

SOC5420 - Gender, Sexuality and Social Inequality - 3 - Credits

Course Overview

Course Prefix
SOC

Course Number
5420

Department
School of Social Sciences

Dual-Listed Courses
SOC6420 - Gender, Sexuality, and Social Inequality

Course Title
Gender, Sexuality and Social Inequality

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course explores sociological theories and research related to gender and sexuality. It focuses on the economic, cultural, and political forces, historic and contemporary, that shape gender hierarchies at the intersection of race, class and ability. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

SOC5460 - Sociology of Health, Illness, and Disability - 3 - Credits

Course Overview

Course Prefix
SOC

Course Number
5460

Department
School of Social Sciences

Dual-Listed Courses
SOC6460 - Sociology of Health, Illness, and Disability

Course Title
Sociology of Health, Illness, and Disability

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course examines the social and cultural factors influencing variation in health, illness, and disability. Through engagement in scholarship in sociology, epidemiology, and social psychology, students learn about the health consequences of diverse personal and social behaviors and processes. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

SOC5470 - Inequalities in the Criminal Justice System - 3 - Credits

Course Overview

Course Prefix
SOC

Course Number
5470

Department
School of Social Sciences

Dual-Listed Courses
SOC6470 - Inequalities in the Criminal Justice System

Course Title
Inequalities in the Criminal Justice System

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers the inequalities that exist in the criminal justice system in the United States. These include inequalities based on race, socioeconomic status, and gender. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

SOC5640 - Managing Community Conflict (CI) - 3 - Credits

Course Overview

Course Prefix
SOC

Course Number
5640

Department
School of Social Sciences

Course Title
Managing Community Conflict (CI)

General Education Attribute
CI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers fundamental techniques in successful conflict management at the public/community scale with a skill-building focus. Process design, facilitation, negotiation, and collaborative problem solving are addressed. Several cases are drawn from the natural resource/inter-organizational conflict in the western U.S.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

SOC5900 - Directed Study: Gender and Sexuality Studies - 1 - 3 Credits

Course Overview

Course Prefix
SOC

Course Number
5900

Department
School of Social Sciences

Course Title
Directed Study: Gender and Sexuality Studies

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Students pursue directed research, writing or reading on a topic related to gender and sexuality studies.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

Special Approval
Instructor permission

SOC5920 - Research Methods in Gender & Sexuality Studies - 3 - Credits

Course Overview

Course Prefix
SOC

Course Number
5920

Department
School of Social Sciences

Course Title
Research Methods in Gender & Sexuality Studies

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This interdisciplinary course explores intersectionality as an analytic framework for conducting research. Students learn to apply feminist epistemologies and related research methods to the interdisciplinary study of gender and sexuality within the sciences and humanities.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

SOC6010 - Development of Sociological Theory - 3 - Credits

Course Overview

Course Prefix
SOC

Course Number
6010

Department
School of Social Sciences

Course Title
Development of Sociological Theory

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Examines development of social theory from early to premodern times. Special attention given to nineteenth century European influences on development of American sociological theory.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

SOC6100 - Advanced Methods of Social Research - 3 - Credits

Course Overview

Course Prefix
SOC

Course Number
6100

Department
School of Social Sciences

Course Title
Advanced Methods of Social Research

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Examines philosophical bases, techniques, and political and ethical aspects of social research.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

SOC6120 - Population and Health - 3 - Credits

Course Overview

Course Prefix
SOC

Course Number
6120

Department
School of Social Sciences

Dual-Listed Courses
SOC5120 - Population and Health

Course Title
Population and Health

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Examines current threats to health and longevity among populations in industrialized and developing nations. Evaluates debates surrounding the history of mortality decline. Emphasis is given to the demographic, socioeconomic and environmental determinants of poor health and premature mortality.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

SOC6130 - Ethnographic Field School - 3 - 6 Credits

Course Overview

Course Prefix
SOC

Course Number
6130

Department
School of Social Sciences

Cross-Listed Courses
ANTH6130 - Ethnographic Field School

Dual-Listed Courses
SOC5130 - Ethnographic Field School

Course Title
Ethnographic Field School

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Provides practical training in use of ethnographic field methods, qualitative data analysis, and ethnographic report-writing. Combines classroom instruction with supervised off-campus field research, while living in a cross-cultural setting. Fulfills program methods requirement. Application and additional fee required.

Credit Hours

Credit Hours Min:
3

Credit Hours Max:
6

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
3

Contact Hours Max:
6

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
3

Billing Hours Max:
6

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
3

Lecture Hours Max:
6

Lecture Hours Operator:
TO

No Requirements

SOC6150 - Social Statistics II - 3 - Credits

Course Overview

Course Prefix
SOC

Course Number
6150

Department
School of Social Sciences

Course Title
Social Statistics II

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Statistical procedures for sociological analysis; nonparametric statistics; inferential statistics, cross-tabulation, and log-linear analysis; correlation; regression; ANOVA; and other multivariable social science statistical treatments.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

SOC6200 - Social Demography - 3 - Credits

Course Overview

Course Prefix
SOC

Course Number
6200

Department
School of Social Sciences

Course Title
Social Demography

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Focuses on relationships between demographic and sociological processes. Study of theoretical perspectives and empirical analyses of the determinants. Consequences of change in population size, composition, and distribution, as well as changes in demographic processes.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

SOC6230 - Techniques of Demographic Analysis - 3 - Credits

Course Overview

Course Prefix
SOC

Course Number
6230

Department
School of Social Sciences

Dual-Listed Courses
SOC5230 - Techniques of Demographic Analysis

Course Title
Techniques of Demographic Analysis

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides instruction in use of rates, ratios, life tables, and related measures to describe, analyze, and estimate the three demographic processes: fertility, mortality, and migration. Special emphasis is placed on using U.S. Census data to create population profiles. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

SOC6250 - Sociology Internship/Co-op - 1 - 6 Credits

Course Overview

Course Prefix
SOC

Course Number
6250

Department
School of Social Sciences

Course Title
Sociology Internship/Co-op

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Professional level of educational work experience in an internship/cooperative education position for graduate students.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
6

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
6

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
6

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
6

Lecture Hours Operator:
TO

No Requirements

SOC6270 - Global Migration - 3 - Credits

Course Overview

Course Prefix
SOC

Course Number
6270

Department
School of Social Sciences

Dual-Listed Courses
SOC5270 - Global Migration

Course Title
Global Migration

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces students to the ways researchers have answered three key questions regarding migration: why people migrate, how migration influences the destination society, and how migration shapes the origin society. Additional coursework may be required for graduate students.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Special Approval
Instructor permission

No Requirements

SOC6280 - Event History and Survival Analysis - 3 - Credits

Course Overview

Course Prefix
SOC

Course Number
6280

Department
School of Social Sciences

Course Title
Event History and Survival Analysis

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces event history/survival analysis, incorporating statistical methods for studying the time involved in the occurrence of an event.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

SOC6310 - Sociology of Work and Occupations - 3 - Credits

Course Overview

Course Prefix
SOC

Course Number
6310

Department
School of Social Sciences

Course Title
Sociology of Work and Occupations

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Uses an applied and comparative cross-cultural perspective to examine work in pre-industrial (agricultural/pastoral), industrializing, industrialized, and post-industrial societies.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

SOC6420 - Gender, Sexuality, and Social Inequality - 3 - Credits

Course Overview

Course Prefix
SOC

Course Number
6420

Department
School of Social Sciences

Dual-Listed Courses
SOC5420 - Gender, Sexuality and Social Inequality

Course Title
Gender, Sexuality, and Social Inequality

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course explores sociological theories and research related to gender and sexuality. It focuses on the economic, cultural, and political forces, historic and contemporary, that shape gender hierarchies at the intersection of race, class and ability. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

SOC6450 - Theories and Methods in Medical Sociology - 3 - Credits

Course Overview

Course Prefix
SOC

Course Number
6450

Department
School of Social Sciences

Course Title
Theories and Methods in Medical Sociology

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course presents an overview of the major classical and contemporary work in medical sociology. Students discuss controversies within the field and across the various fields concerned with health, illness, and healing, including debates about theory, substance, and methodology.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

SOC6460 - Sociology of Health, Illness, and Disability - 3 - Credits

Course Overview

Course Prefix
SOC

Course Number
6460

Department
School of Social Sciences

Dual-Listed Courses
SOC5460 - Sociology of Health, Illness, and Disability

Course Title
Sociology of Health, Illness, and Disability

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course examines the social and cultural factors influencing variation in health, illness, and disability. Through engagement in scholarship in sociology, epidemiology, and social psychology, students learn about the health consequences of diverse personal and social behaviors and processes. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

SOC6470 - Inequalities in the Criminal Justice System - 3 - Credits

Course Overview

Course Prefix
SOC

Course Number
6470

Department
School of Social Sciences

Dual-Listed Courses
SOC5470 - Inequalities in the Criminal Justice System

Course Title
Inequalities in the Criminal Justice System

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers the inequalities that exist in the criminal justice system in the United States. These include inequalities based on race, socioeconomic status, and gender. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

SOC6480 - Seminar in Race and Ethnicity - 3 - Credits

Course Overview

Course Prefix
SOC

Course Number
6480

Department
School of Social Sciences

Course Title
Seminar in Race and Ethnicity

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This seminar introduces students to the study of race and ethnicity with a focus on theoretical frameworks, the social psychology of race and racism, methodology, substantive issues, and the lived experiences of racial and ethnic minorities in the United States.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

SOC6620 - Environment, Technology, and Social Change - 3 - Credits

Course Overview

Course Prefix
SOC

Course Number
6620

Department
School of Social Sciences

Course Title
Environment, Technology, and Social Change

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course examines theories and research in environmental sociology across multiple topics and scales. Topics include environmental values, coupled human and natural systems, and societal causes and consequences of, and ways to address, various environmental issues.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

SOC6630 - Social and Community Dimensions of Natural Resources - 3 - Credits

Course Overview

Course Prefix
SOC

Course Number
6630

Department
School of Social Sciences

Course Title
Social and Community Dimensions of Natural Resources

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course focuses on the ways that human populations and communities relate to and are affected by the uses and management of specific natural resources in particular locations. Students review key concepts such as dependency, community, and place.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

SOC6640 - Multispecies Justice and Indigenous Environmentalisms - 3 - Credits

Course Overview

Course Prefix
SOC

Course Number
6640

Department
School of Social Sciences

Course Title
Multispecies Justice and Indigenous Environmentalisms

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces students to the concept of multispecies justice via a diversity of intersecting lenses, including feminist, Black, and Queer ecologies, Western scientific approaches to multispecies ethics, and Indigenous approaches to the environment.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

SOC6650 - Developing Societies - 3 - Credits

Course Overview

Course Prefix
SOC

Course Number
6650

Department
School of Social Sciences

Course Title
Developing Societies

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Reviews how sociology, cultural geography, and economic anthropology analyze processes of globalization in postcolonial societies. Examines changing livelihoods, patterns of spatial incorporation and societal evolution, and emergent policy problems associated with rapid socioeconomic change.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

SOC6700 - Advanced Rural Sociology - 3 - Credits

Course Overview

Course Prefix
SOC

Course Number
6700

Department
School of Social Sciences

Course Title
Advanced Rural Sociology

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Analysis of major developments in the study of rural society and rural communities. Emphasis on rural social changes related to economic, demographic, organizational, and technological trends at societal and global levels.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

SOC6720 - Applied Community Development - 3 - Credits

Course Overview

Course Prefix
SOC

Course Number
6720

Department
School of Social Sciences

Dual-Listed Courses
SOC4720 - Effective Community Engagement

Course Title
Applied Community Development

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Uses asset-building model to explore current practice and theory of community development. Organized around service-learning placements with local and regional organizations. Includes reflective evaluation of theories based upon the service-learning experiences.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- SOC1010 - Introductory Sociology (BSS)
- SOC3010 - Social Inequality (DSS)
- SOC3110 - Methods of Social Research (CI)
- SOC3120 - Social Statistics I (QI)
- SOC4010 - Sociological Theory: Insights from Classical and Contemporary Perspectives (DSS)

SOC6730 - Gender and International Development - 3 - Credits

Course Overview

Course Prefix
SOC

Course Number
6730

Department
School of Social Sciences

Course Title
Gender and International Development

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Examines gender issues in economic and social development. Focuses on theory and methodologies for gender analysis.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

SOC6760 - Theory and Research in Social Inequality - 3 - Credits

Course Overview

Course Prefix
SOC

Course Number
6760

Department
School of Social Sciences

Course Title
Theory and Research in Social Inequality

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This graduate seminar provides perspectives on the processes that generate and perpetuate social inequality. The focus is on foundational theoretical and empirical works as well as important contemporary scholarship.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

SOC6770 - Social Policy and Inequality - 3 - Credits

Course Overview

Course Prefix
SOC

Course Number
6770

Department
School of Social Sciences

Course Title
Social Policy and Inequality

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course examines the causes and consequences of inequality with particular emphasis on the role of social policies in reducing or exacerbating inequality among individuals and their families.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

SOC6800 - Seminar in Sociology - 1 - 3 Credits

Course Overview

Course Prefix
SOC

Course Number
6800

Department
School of Social Sciences

Course Title
Seminar in Sociology

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Seminars in various areas of sociology: (a) theory, (b) methodology, (c) demography, (d) social organization, (e) social deviance, (f) social psychology, (g) social problems, (h) international development, (i) domestic development, (j) rural sociology, (k) environmental sociology, (l) other.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

No Requirements

SOC6900 - Independent Readings in Sociology - 1 - 3 Credits

Course Overview

Course Prefix
SOC

Course Number
6900

Department
School of Social Sciences

Course Title
Independent Readings in Sociology

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Independent readings in various areas of sociology: (a) theory, (b) methodology, (c) demography, (d) environmental/natural resource sociology, (e) sociology of development, (f) social problems.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

No Requirements

SOC6970 - Thesis Research - 1 - 12 Credits

Course Overview

Course Prefix
SOC

Course Number
6970

Department
School of Social Sciences

Course Title
Thesis Research

Grade Mode
Temporary Pass/Fail

Repeat Status
RP

Course Description
This course is designed for students preparing a master's degree thesis.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
12

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
12

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
12

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
12

Lecture Hours Operator:
TO

No Requirements

SOC6990 - Continuing Graduate Advisement - 1 - 3 Credits

Course Overview

Course Prefix
SOC

Course Number
6990

Department
School of Social Sciences

Course Title
Continuing Graduate Advisement

Grade Mode
Temporary Pass/Fail

Repeat Status
RP

Course Description
This course provides graduate students with continued support and advisement. It is usually taken following completion of all coursework required for the degree.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

No Requirements

SOC7010 - Issues in Sociological Theory - 3 - Credits

Course Overview

Course Prefix
SOC

Course Number
7010

Department
School of Social Sciences

Course Title
Issues in Sociological Theory

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Explores current philosophical discussions on theoretical approaches to understanding society. Examines feminist, post-structuralist, and post-modernist conceptualizations of power, knowledge, and identity.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

SOC7100 - Advanced Survey Techniques - 3 - Credits

Course Overview

Course Prefix
SOC

Course Number
7100

Department
School of Social Sciences

Course Title
Advanced Survey Techniques

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Examines the empirical and methodological literature regarding techniques for designing and implementing mail, telephone, and internet surveys for sociological research. Focuses on practical lessons for sampling, data collection, and survey data organization.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

SOC7110 - Advanced Quantitative Analysis - 3 - Credits

Course Overview

Course Prefix
SOC

Course Number
7110

Department
School of Social Sciences

Course Title
Advanced Quantitative Analysis

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Provides review of several quantitative approaches utilized in contemporary social research. Students undertake small-scale analytical exercises in topics including, but not limited to, log-linear and structural equation modeling, logistic regression, and event history analysis.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

SOC7150 - Advanced Qualitative Methods in Sociology - 3 - Credits

Course Overview

Course Prefix
SOC

Course Number
7150

Department
School of Social Sciences

Course Title
Advanced Qualitative Methods in Sociology

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Examines the empirical and methodological literature regarding techniques for designing and implementing qualitative data collection and analysis for sociological research. Emphasizes practical tools for graduate students seeking to use qualitative methods for their thesis or dissertation research.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

SOC7250 - Advanced Seminar in Social Demography - 3 - Credits

Course Overview

Course Prefix
SOC

Course Number
7250

Department
School of Social Sciences

Course Title
Advanced Seminar in Social Demography

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Detailed comparative and multilevel examination of substantive and methodological issues in the study of nuptiality, fertility, morbidity and mortality, migration, and social mobility. Covers theories, data collection strategies, measurement issues, and analytical techniques.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

SOC7350 - People, Power, and the Political - 3 - Credits

Course Overview

Course Prefix
SOC

Course Number
7350

Department
School of Social Sciences

Course Title
People, Power, and the Political

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This seminar familiarizes students with theory and research in political sociology. It explores fundamental relationships between state institutions, political processes, and social structure. Topics include political inclusion and exclusion, political participation, social movements, and culture and political ideology.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

SOC7400 - Perspectives on Inequality and Social Problems - 3 - Credits

Course Overview

Course Prefix
SOC

Course Number
7400

Department
School of Social Sciences

Course Title
Perspectives on Inequality and Social Problems

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Examines major theoretical and empirical approaches to the sociological analysis of inequality and social problems.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

SOC7620 - Sociology of Environmental Hazards and Risks - 3 - Credits

Course Overview

Course Prefix
SOC

Course Number
7620

Department
School of Social Sciences

Course Title
Sociology of Environmental Hazards and Risks

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Focuses on how individuals and organizations respond to environmental hazards and risks resulting from either natural events or human technological and industrial processes.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

SOC7640 - Population and Environment - 3 - Credits

Course Overview

Course Prefix
SOC

Course Number
7640

Department
School of Social Sciences

Course Title
Population and Environment

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
In-depth exploration of relationship between human populations and their environment. Heavy emphasis placed on developing an understanding of contemporary research in this area, especially with regard to the association between environmental factors and population organization, change, and growth.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

SOC7660 - Public Sociology: Ecological Justice and Community Action - 3 - Credits

Course Overview

Course Prefix
SOC

Course Number
7660

Department
School of Social Sciences

Course Title
Public Sociology: Ecological Justice and Community Action

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This class applies Public Sociology to ecological justice and community action. Public Sociology takes sociological knowledge beyond the "ivory tower" into communities. It stresses raising awareness of social issues, and the importance of civic engagement to a functional democratic society.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

SOC7720 - Applied Community Theory and Development - 3 - Credits

Course Overview

Course Prefix
SOC

Course Number
7720

Department
School of Social Sciences

Course Title
Applied Community Theory and Development

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides a theoretical overview of community and examines characteristics of thriving communities. It explores internal and external forces that impact communities in a rapidly changing world, and provides an overview of tools available to address issues and concerns.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

SOC7800 - Topical Seminar in Sociology - 3 - Credits

Course Overview

Course Prefix
SOC

Course Number
7800

Department
School of Social Sciences

Course Title
Topical Seminar in Sociology

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Seminars in various areas of sociology: (a) theory, (b) methodology, (c) demography, (d) environmental/natural resource sociology, (e) sociology of development, (f) social problems.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

SOC7900 - Independent Study - 1 - 3 Credits

Course Overview

Course Prefix
SOC

Course Number
7900

Department
School of Social Sciences

Course Title
Independent Study

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Independent study in sociological areas emphasizing (a) theory, (b) methodology, (c) demography, (d) environmental/natural resource sociology, (e) sociology of development, (f) social problems.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

No Requirements

SOC7910 - Second Year Project for BA/BS to PhD Students - 3 - Credits

Course Overview

Course Prefix
SOC

Course Number
7910

Department
School of Social Sciences

Course Title
Second Year Project for BA/BS to PhD Students

Grade Mode
Pass/Fail

Repeat Status
NR

Course Description
With the guidance of the Supervisory Committee and prior to the end of the fourth semester of study, students entering the Sociology PhD program with only a BA/BS prepare a research proposal or paper. Successful completion of this project is required for continuation into the third year of PhD study.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete at least 2 of the following courses:

- SOC6010 - Development of Sociological Theory
- SOC6100 - Advanced Methods of Social Research
- SOC6150 - Social Statistics II

SOC7970 - Dissertation Research - 1 - 12 Credits

Course Overview

Course Prefix
SOC

Course Number
7970

Department
School of Social Sciences

Course Title
Dissertation Research

Grade Mode
Temporary Pass/Fail

Repeat Status
RP

Course Description
This course consists of individual work on research problems for students enrolled in doctoral programs.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
12

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
12

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
12

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
12

Lecture Hours Operator:
TO

No Requirements

SOC7990 - Continuing Graduate Advisement - 1 - 9 Credits

Course Overview

Course Prefix
SOC

Course Number
7990

Department
School of Social Sciences

Course Title
Continuing Graduate Advisement

Grade Mode
Temporary Pass/Fail

Repeat Status
RP

Course Description
This course provides graduate students with continued support and advisement. It is usually taken following completion of all coursework required for the degree.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
9

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
9

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
9

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
9

Lecture Hours Operator:
TO

No Requirements

SPAN1010 - Spanish First Year I - 4 - Credits

Course Overview

Course Prefix
SPAN

Course Number
1010

Department
World Languages and Cultures

Course Title
Spanish First Year I

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Communicative competencies in the four language skills: speaking, listening, reading, and writing, with exposure to cultures and customs.

Credit Hours

Credit Hours Min:
4

Contact Hours

Contact Hours Min:
4

Billing Hours

Billing Hours Min:
4

Lecture Hours

Lecture Hours Min:
4

Other Enrollment Recommendations

No more than one year of Spanish in high school. USU World Languages and Cultures Language Proficiency Placement Test score of 0-319.

No Requirements

SPAN1020 - Spanish First Year II - 4 - Credits

Course Overview

Course Prefix
SPAN

Course Number
1020

Department
World Languages and Cultures

Course Title
Spanish First Year II

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Communicative competencies in the four language skills: speaking, listening, reading, and writing, with exposure to cultures and customs.

Credit Hours

Credit Hours
Min:
4

Contact Hours

Contact Hours
Min:
4

Billing Hours

Billing Hours
Min:
4

Lecture Hours

Lecture Hours
Min:
4

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Prerequisite can be fulfilled through coursework or exam.

Fulfill ANY of the following requirements:

Coursework

Complete ALL of the following Courses:

- SPAN1010 - Spanish First Year I

OR

Exam

Language Proficiency Exam

USU World Languages and Cultures Language Proficiency Placement Test score of 320-369

SPAN1030 - Accelerated Spanish First Year - 4 - Credits

Course Overview

Course Prefix
SPAN

Course Number
1030

Department
World Languages and Cultures

Course Title
Accelerated Spanish First Year

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Accelerated beginning Spanish, equivalent to the first two semesters. Communicative competencies in the four language skills: speaking, listening, reading, and writing, with exposure to cultures and customs is discussed.

Credit Hours

Credit Hours
Min:
4

Contact Hours

Contact Hours
Min:
4

Billing Hours

Billing Hours
Min:
4

Lecture Hours

Lecture Hours
Min:
4

Other Enrollment Recommendations

No more than one year of Spanish in high school recommended.

USU World Languages and Cultures Language Proficiency Placement Test score of 0-319 recommended.

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. To develop Spanish language skills in accordance with the material found in chapters 1-8 of the required text program (Vistas).

2. To provide students with language learning activities that advance Spanish language skill proficiency (especially speaking proficiency) to the level required for continued progress at the next course level (USU Spanish 2010).

3. To reach Novice-High Spanish language skills, as defined by ACTFL.

SPAN1050 - Intensive First Year Spanish - 8 - Credits

Course Overview

Course Prefix
SPAN

Course Number
1050

Department
World Languages and Cultures

Course Title
Intensive First Year Spanish

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Intensive one-semester alternative course to SPAN 1010 and 1020, emphasizing active usage.

Credit Hours

Credit Hours
Min:
8

Contact Hours

Contact Hours
Min:
8

Billing Hours

Billing Hours
Min:
8

Lecture Hours

Lecture Hours
Min:
8

No Requirements

SPAN1800 - Spanish I Study Abroad - 1 - 4 Credits

Course Overview

Course Prefix
SPAN

Course Number
1800

Department
World Languages and Cultures

Course Title
Spanish I Study Abroad

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Communicative competencies in the four language skills: speaking, listening, reading, and writing, with exposure to cultures and customs.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
4

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
4

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
4

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
4

Lecture Hours Operator:
TO

SPAN2010 - Spanish Second Year I - 4 - Credits

Course Overview

Course Prefix
SPAN

Course Number
2010

Department
World Languages and Cultures

Course Title
Spanish Second Year I

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Continued development of communicative competencies in the four language skills: speaking, listening, reading, and writing, with exposure to cultures and customs.

Credit Hours

Credit Hours Min:
4

Contact Hours

Contact Hours Min:
4

Billing Hours

Billing Hours Min:
4

Lecture Hours

Lecture Hours Min:
4

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Fulfill prerequisite by coursework or exam.

Fulfill ANY of the following requirements:

Coursework

Complete ALL of the following Courses:

- SPAN1020 - Spanish First Year II

OR

Exam

Language Proficiency Exam

USU World Languages and Cultures Language Proficiency Placement Test score of 370-439

SPAN2020 - Spanish Second Year II - 4 - Credits

Course Overview

Course Prefix
SPAN

Course Number
2020

Department
World Languages and Cultures

Course Title
Spanish Second Year II

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Continued development of communicative competencies in the four language skills: speaking, listening, reading, and writing, with exposure to cultures and customs.

Credit Hours

Credit Hours
Min:
4

Contact Hours

Contact Hours
Min:
4

Billing Hours

Billing Hours
Min:
4

Lecture Hours

Lecture Hours
Min:
4

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Fulfill prerequisite by coursework or exam.

Fulfill ANY of the following requirements:

Coursework

Complete ALL of the following Courses:

- SPAN2010 - Spanish Second Year I

OR

Exam

Language Proficiency Exam

USU World Languages and Cultures Language Proficiency Placement Test score of 440-499

SPAN2030 - Accelerated Spanish Second Year - 4 - Credits

Course Overview

Course Prefix
SPAN

Course Number
2030

Department
World Languages and Cultures

Course Title
Accelerated Spanish Second Year

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course is accelerated intermediate Spanish, equivalent to the third and fourth semester. Continued development of communicative competencies in the four language skills: speaking, listening, reading, and writing, with exposure to cultures and customs.

Credit Hours

Credit Hours Min:
4

Contact Hours

Contact Hours Min:
4

Billing Hours

Billing Hours Min:
4

Lecture Hours

Lecture Hours Min:
4

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Fulfill prerequisite by coursework or exam.

Fulfill ANY of the following requirements:

Coursework

Complete ANY of the following Courses:

- SPAN1020 - Spanish First Year II
  OR SPAN1030 - Accelerated Spanish First Year

OR

Exam

Placement by Exam
World Languages and Cultures Proficiency Test with a minimum score of 370.

Course Learning Objectives

Course Learning Outcomes

1. To develop Spanish language skills in accordance with the material found in chapters 9-16 of the required text program (Vistas).

2. To provide students with language learning activities that advance Spanish language skill proficiency (especifically speaking proficiency) to the level required for continued progress at the next course level (USU Spanish 3040, 3060 or study abroad).

3. To reach Intermediate-High Spanish language skills, as defined by ACTFL.

SPAN2800 - Spanish II Study Abroad - 1 - 4 Credits

Course Overview

Course Prefix
SPAN

Course Number
2800

Department
World Languages and Cultures

Course Title
Spanish II Study Abroad

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Students continue development of communicative competencies in the four language skills: speaking, listening, reading, and writing, with exposure to cultures and customs through study abroad immersion.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
4

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
4

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
4

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
4

Lecture Hours Operator:
TO

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ANY of the following Courses:

- SPAN1020 - Spanish First Year II
  OR SPAN1030 - Accelerated Spanish First Year

Exam

Language Proficiency Exam
Or USU World Languages and Cultures Language Proficiency Placement Test score of 320-369

SPAN2988 - Special Problems - 1 - 3 Credits

Course Overview

Course Prefix
SPAN

Course Number
2988

Department
World Languages and Cultures

Course Title
Special Problems

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
An elective course intended for advanced students. Students will work individually with the instructor to develop reading, writing, listening and speaking skills. Emphasis will be on advanced grammar and conversation. Hispanic culture will also be emphasized. Significant reading and work outside of class are required.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

No Requirements

SPAN3010 - Hispanic Outreach Practicum - 1 - 4 Credits

Course Overview

Course Prefix
SPAN

Course Number
3010

Department
World Languages and Cultures

Course Title
Hispanic Outreach Practicum

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
Students of Spanish improve language skills and develop cultural competencies in a Hispanic community setting.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
4

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
4

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
4

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
4

Lecture Hours Operator:
TO

Special Approval
Instructor permission

Other Enrollment Recommendations
May be repeated for maximum of 4 credits, with maximum 3 applied to Spanish major emphasis or minor.

Simple Requisites

Prerequisite

Type
Prerequisite

Exam

Language Proficiency Exam
USU World Languages and Cultures Language Proficiency Placement test score of 500

SPAN3030 - Dungeons and Dialogues: Spanish Speaking Practice through Gameplay - 3 - Credits

Course Overview

Course Prefix
SPAN

Course Number
3030

Department
World Languages and Cultures

Course Title
Dungeons and Dialogues: Spanish Speaking Practice through Gameplay

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course is intended for students who have completed SPAN 2020. It focuses on the development of vocabulary and fluency needed to navigate an array of conversational contexts. Students practice listening, responding, and presenting in oral contexts.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- SPAN2020 - Spanish Second Year II

Course Learning Objectives

Course Learning Outcomes

1. Speak both formally and informally on a variety of topics related to work, home, school, and personal interests.

2. Narrate and describe coherently in the past, present, and future with supporting facts.

3. Navigate the linguistic challenges presented by a complication or an unexpected turn of events in a conversation.

SPAN3040 - Advanced Spanish Grammar - 3 - Credits

Course Overview

Course Prefix
SPAN

Course Number
3040

Department
World Languages and Cultures

Course Title
Advanced Spanish Grammar

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Intense review of selected problematic areas of Spanish grammar for students with advanced language skills.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Fulfill prerequisite by coursework or exam.

Fulfill ANY of the following requirements:

Coursework

Complete ALL of the following Courses:

- SPAN2020 - Spanish Second Year II

OR

Exam

Proficiency Exam

- Equivalent Proficiency testing score of 500+

SPAN3041 - Bridging the Gap Medical Interpreter - 3 - Credits

Course Overview

Course Prefix
SPAN

Course Number
3041

Department
World Languages and Cultures

Course Title
Bridging the Gap Medical Interpreter

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course prepares individuals to work as medical interpreters in hospital and clinical settings. Students will learn the necessary skills and best practices to become a qualified medical interpreter through lecture-based lessons, interactive role plays, case studies, and group discussions.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. The student will gain an understanding and appreciation of Interpretation.

2. Students will learn the necessary skills and best practices to become a qualified medical interpreter through lecture-based lessons, interactive role plays, case studies, and group discussions.

3. At the end of the course, participants receive a signed and individually numbered certificate of successful completion after passing the final exam.

SPAN3060 - Advanced Spanish Conversation and Composition (CI) - 3 - Credits

Course Overview

Course Prefix
SPAN

Course Number
3060

Department
World Languages and Cultures

Course Title
Advanced Spanish Conversation and Composition (CI)

General Education Attribute
CI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Development of advanced conversation and writing skills through debate and composition on contemporary controversial topics.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerquisite

Type
Prerequisite

Required

Fulfill by coursework or proficiency testing.

Fulfill ANY of the following requirements:

Coursework

Complete ALL of the following Courses:

- SPAN2020 - Spanish Second Year II

OR

Testing

Proficiency Testing

- Equivalent Proficiency testing score of 500+

SPAN3061 - Fundamentals of Translation and Interpretation - 3 - Credits

Course Overview

Course Prefix
SPAN

Course Number
3061

Department
World Languages and Cultures

Course Title
Fundamentals of Translation and Interpretation

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces students to the essentials of Translation Studies through translation and interpretation theories and practice. Coursework raises awareness of issues in the discipline, such as the role of translators and interpreters, the different modalities of translation and interpretation, and the norms and ethics behind them.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ANY of the following Courses:

- SPAN3040 - Advanced Spanish Grammar
  OR SPAN3060 - Advanced Spanish Conversation and Composition (CI)

Course Learning Objectives

Course Learning Outcomes

1. The student will gain an understanding and appreciation of Translation and Interpretation.

2. Develop the ability to apply genre-specific methods (e.g., discourse analysis, functional adequacy) for resolving common translation problems (e.g., challenges of figurative language, rhetorical patterns).

3. Demonstrate the ability to evaluate translation quality according to criteria such as conformity to specifications (e.g., audience, translator's purpose.

4. Demonstrate an understanding of the translation industry, including questions of localization and domain.

SPAN3081 - Healthcare Translation - 3 - Credits

Course Overview

Course Prefix
SPAN

Course Number
3081

Department
World Languages and Cultures

Course Title
Healthcare Translation

Grade Mode
Standard Letter

Repeat Status
NR

Course Description

This course covers medical translation. Focusing on building conceptual knowledge in the healthcare contexts and language and translation competence in these settings, it introduces students to professional, nationally-accepted standards of translation practice and uses authentic materials and contextually meaningful situations.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Other Enrollment Recommendations

SPAN3061 FUNDMTLS TRANSLN AND INTERPRTN (may be taken concurrently)

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Fulfilled by coursework or exam.

Fulfill ANY of the following requirements:

Coursework

Complete ALL of the following Courses:

- SPAN2020 - Spanish Second Year II

OR

Exam

Proficiency Exam

- Proficiency testing score of 500+

Course Learning Objectives

Course Learning Outcomes

1. The student will gain an understanding and appreciation of Medical and Business Translation.

2. Students will learn nationally-accepted standards of translation practice and performance.

3. Students will develop interpreting skills in this field.

SPAN3082 - Legal and Business Translation - 3 - Credits

Course Overview

Course Prefix
SPAN

Course Number
3082

Department
World Languages and Cultures

Course Title
Legal and Business Translation

Grade Mode
Standard Letter

Repeat Status
NR

Course Description

This course covers legal and business translation. It focuses on building conceptual knowledge in the legal and business contexts. It introduces students to professional, nationally-accepted standards of translation practice and performance and uses authentic materials and contextually-meaningful situations.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- SPAN3061 - Fundamentals of Translation and Interpretation

(may be taken concurrently)

Additional Comments:

Course Learning Objectives

Course Learning Outcomes

1. The student will gain an understanding and appreciation for Legal and Business Translation.

2. Students will learn nationally-accepted standards of translation practice and performance and uses of authentic materials and contextually-meaningful situations.

SPAN3083 - Literary Translation - 3 - Credits

Course Overview

Course Prefix
SPAN

Course Number
3083

Department
World Languages and Cultures

Course Title
Literary Translation

Grade Mode
Standard Letter

Repeat Status
NR

Course Description

This course introduces theoretical and practical approaches to literary translation. Students critically reflect on cultural and sociological aspects of literary translation and practice decision-making strategies regarding genre, theme, literary movements, as well as register and dialectal varieties of Spanish and English.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. In this course, students will learn the theoretical and practical approaches to literary translation.

2. Students will critically reflect on cultural and sociological aspects of literary translation.

SPAN3100 - Spanish Healthcare - 3 - Credits

Course Overview

Course Prefix
SPAN

Course Number
3100

Department
World Languages and Cultures

Course Title
Spanish Healthcare

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course is a comprehensive and foundational exploration of the specialized language used in the healthcare and medical fields. Designed for students, healthcare professionals, and anyone interested in gaining proficiency in medical terminology to communicate in healthcare settings.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Fulfill through coursework or exam.

Fulfill ANY of the following requirements:

Coursework

Complete ALL of the following Courses:

- SPAN2020 - Spanish Second Year II

OR

Exam

Proficiency Testing

- Equivalent proficiency testing score of 500+

SPAN3116 - Spanish Pop Culture: Film, Media and Entertainment - 3 - Credits

Course Overview

Course Prefix
SPAN

Course Number
3116

Department
World Languages and Cultures

Course Title
Spanish Pop Culture: Film, Media and Entertainment

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course considers the role that current film, media, and entertainment play in the Spanish-speaking world. Students in this course are exposed to the historical and cultural perspectives presented through these media.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Exam

Score of 3 or higher required in one of the following:

AP Exams

- AP Spanish Language and Culture
- AP Spanish Literature

SPAN3117 - Building Identities (Breaking Down Walls, Building Identities) - 3 - Credits

Course Overview

Course Prefix
SPAN

Course Number
3117

Department
World Languages and Cultures

Course Title
Building Identities (Breaking Down Walls, Building Identities)

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course considers how critical moments of change in the Spanish-speaking world have shaped the present by building new identities.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Exam

Score of 3 or higher required in one of the following:

Advanced Placement Exam

- AP Spanish Language and Culture
- AP Spanish Literature

SPAN3118 - Literature and Film: Contemporary Issues - 3 - Credits

Course Overview

Course Prefix
SPAN

Course Number
3118

Department
World Languages and Cultures

Course Title
Literature and Film: Contemporary Issues

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students critically analyze and interpret works of literature and film in Spanish to explore contemporary societal issues.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Exam

Score of 3 or higher required in one of the following:

AP Exams

- AP Spanish Language and Culture
- AP Spanish Literature

SPAN3300 - Introduction to Hispanic Literature and Literary Analysis - 3 - Credits

Course Overview

Course Prefix
SPAN

Course Number
3300

Department
World Languages and Cultures

Course Title
Introduction to Hispanic Literature and Literary Analysis

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Readings in Hispanic literatures, focusing on literary analysis (both oral and written) in the principle literary genres: narrative, drama, and poetry.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

May be fulfilled by coursework or exam.

Fulfill ANY of the following requirements:

Coursework

Complete ALL of the following Courses:

- SPAN2020 - Spanish Second Year II

OR

Exam

Proficiency Exam

- Proficiency testing score of 500+

SPAN3400 - Introduction to Hispanic Cinema - 3 - Credits

Course Overview

Course Prefix
SPAN

Course Number
3400

Department
World Languages and Cultures

Course Title
Introduction to Hispanic Cinema

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course explores Hispanic cinema, focusing on the cinematic theory and interpretation of movies. The movies are studied in terms of their political, social, historical, and cultural contexts, as well as their aesthetic components.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- SPAN3300 - Introduction to Hispanic Literature and Literary Analysis

SPAN3510 - Business Spanish - 3 - Credits

Course Overview

Course Prefix
SPAN

Course Number
3510

Department
World Languages and Cultures

Course Title
Business Spanish

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Development of communication skills in Spanish for international Hispanic business purposes.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Prerequisite may be fulfilled through coursework or by proficiency testing.

Fulfill ANY of the following requirements:

Coursework

Complete ALL of the following Courses:

- SPAN2020 - Spanish Second Year II

OR

Proficiency Testing

Proficiency Testing

- Equivalent proficiency testing score of 500+

SPAN3520 - Business Spanish Practicum - 1 - 4 Credits

Course Overview

Course Prefix
SPAN

Course Number
3520

Department
World Languages and Cultures

Course Title
Business Spanish Practicum

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
Allows students of Spanish to gain practical work experience in a Hispanic Business context.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
4

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
4

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
4

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
4

Lecture Hours Operator:
TO

Special Approval

Instructor permission

SPAN3550 - Spanish Culture and Civilization (DHA) - 3 - Credits

Course Overview

Course Prefix
SPAN

Course Number
3550

Department
World Languages and Cultures

Course Title
Spanish Culture and Civilization (DHA)

General Education Attribute
DHA

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Historical, social, political, economic, and cultural conditions and institutions of Spain.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Prerequisite may be fulfilled through coursework or by proficiency testing.

Fulfill ANY of the following requirements:

Coursework

Complete ALL of the following Courses:

- SPAN2020 - Spanish Second Year II

OR

Proficiency Exam

Proficiency Exam

- Equivalent proficiency testing score of 500+

SPAN3560 - Introduction to U.S. Latino/a Culture - 3 - Credits

Course Overview

Course Prefix
SPAN

Course Number
3560

Department
World Languages and Cultures

Course Title
Introduction to U.S. Latino/a Culture

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
An introduction to U.S. Latino/Latina history, civilization, literature, and culture. Students will examine the socio-historical, cultural, and political contexts that shape the educational experience of Latinos in the U.S..

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Prerequisite may be fulfilled through coursework or by testing.

Fulfill ANY of the following requirements:

Coursework

Complete ALL of the following Courses:

- SPAN2020 - Spanish Second Year II

OR

Testing

Proficiency Testing

- Equivalent proficiency testing score of 500+

SPAN3570 - Hispanic American Culture and Civilization (DHA) - 3 - Credits

Course Overview

Course Prefix
SPAN

Course Number
3570

Department
World Languages and Cultures

Course Title
Hispanic American Culture and Civilization (DHA)

General Education Attribute
DHA

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
A thematic approach to Hispanic American cultures and civilization. Individual course sections may focus alternately on topics such as Contemporary Art, Cinema, Popular Music, Cuisine, Dictatorship and Democracy, Globalization, Popular Resistance, Human Rights, Exile and/or Immigration.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Prerequisite may be fulfilled through coursework or by testing.

Fulfill ANY of the following requirements:

Coursework

Complete ALL of the following Courses:

- SPAN2020 - Spanish Second Year II

OR

Testing

Proficiency Testing

- Equivalent proficiency testing score of 500+

SPAN3600 - Survey of Spanish Literature I (DHA) - 3 - Credits

Course Overview

Course Prefix
SPAN

Course Number
3600

Department
World Languages and Cultures

Course Title
Survey of Spanish Literature I (DHA)

General Education Attribute
DHA

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Selective readings and discussions of major works and authors in Spanish literature from El Cid through Calderon.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- SPAN3300 - Introduction to Hispanic Literature and Literary Analysis

SPAN3610 - Survey of Spanish Literature II (DHA/CI) - 3 - Credits

Course Overview

Course Prefix
SPAN

Course Number
3610

Department
World Languages and Cultures

Course Title
Survey of Spanish Literature II (DHA/CI)

General Education Attribute
CI, DHA

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Selective readings and discussions of major works and authors in Spanish literature from the eighteenth to twentieth centuries.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- SPAN3300 - Introduction to Hispanic Literature and Literary Analysis

SPAN3620 - Survey of Hispanic American Literature I (DHA) - 3 - Credits

Course Overview

Course Prefix
SPAN

Course Number
3620

Department
World Languages and Cultures

Course Title
Survey of Hispanic American Literature I (DHA)

General Education Attribute
DHA

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Selective readings and discussion of major works and authors in Hispanic literature from the Pre-Columbian period up to the beginning of the Wars of Independence (1810).

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- SPAN3300 - Introduction to Hispanic Literature and Literary Analysis

SPAN3630 - Survey of Hispanic American Literature II (DHA) - 3 - Credits

Course Overview

Course Prefix
SPAN

Course Number
3630

Department
World Languages and Cultures

Course Title
Survey of Hispanic American Literature II (DHA)

General Education Attribute
DHA

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Selective readings and discussion of major works and authors in Hispanic American literature from the Wars of Independence (1810) through contemporary literary production.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- SPAN3300 - Introduction to Hispanic Literature and Literary Analysis

SPAN3640 - Introduction to U.S. Latino/a Literature - 3 - Credits

Course Overview

Course Prefix
SPAN

Course Number
3640

Department
World Languages and Cultures

Course Title
Introduction to U.S. Latino/a Literature

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces students to contemporary Latino/Latina in the United States. This course will familiarize students with an important part of American Literature that is often ignored.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- SPAN3300 - Introduction to Hispanic Literature and Literary Analysis

SPAN3650 - Spanish Literature-Study Abroad - 1 - 4 Credits

Course Overview

Course Prefix
SPAN

Course Number
3650

Department
World Languages and Cultures

Course Title
Spanish Literature-Study Abroad

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Selective readings and discussions of major works and authors in Spanish literature.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
4

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
4

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
4

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
4

Lecture Hours Operator:
TO

Special Approval

Instructor permission

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Fulfill ALL of the following requirements:

Required

Complete ALL of the following Courses:

- SPAN3040 - Advanced Spanish Grammar

AND

Required

Complete ALL of the following Course Sets:

- Communications Literacy (CL2) Course

SPAN3660 - Hispanic American Literature - Study Abroad - 1 - 4 Credits

Course Overview

Course Prefix
SPAN

Course Number
3660

Department
World Languages and Cultures

Course Title
Hispanic American Literature - Study Abroad

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Selective readings and discussions of major works and authors of Hispanic American literature.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
4

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
4

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
4

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
4

Lecture Hours Operator:
TO

Special Approval
Instructor permission

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Fulfill ALL of the following requirements:

Required

Complete ALL of the following Courses:

- SPAN3300 - Introduction to Hispanic Literature and Literary Analysis

AND

Required

Complete ALL of the following Course Sets:

- Communications Literacy (CL2) Course

SPAN3800 - Spanish III Study Abroad - 1 - 4 Credits

Course Overview

Course Prefix
SPAN

Course Number
3800

Department
World Languages and Cultures

Course Title
Spanish III Study Abroad

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course is an intensive review of selected problematic areas of Spanish grammar for students with advanced language skills in a full-immersion, study abroad context.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
4

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
4

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
4

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
4

Lecture Hours Operator:
TO

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Prerequisite may be fulfilled through coursework or testing.

Fulfill ANY of the following requirements:

Required

Complete ALL of the following Courses:

- SPAN2020 - Spanish Second Year II

OR

Exam

Language Proficiency Exam
USU World Languages and Cultures Language Proficiency Placement test score of 440-499

SPAN4010 - Spanish for Social Services - 3 - Credits

Course Overview

Course Prefix
SPAN

Course Number
4010

Department
World Languages and Cultures

Cross-Listed Courses
SW5010 - Spanish for Social Services

Course Title
Spanish for Social Services

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course is designed to provide students with specialized Spanish language development, cultural competency instruction, and enhanced communication skills for working with Spanish-speaking populations in social service related fields.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- SPAN2020 - Spanish Second Year II
- SW1010 - Introduction to Social Welfare (BSS)

SPAN4071 - Simultaneous and Consecutive Healthcare Interpretation - 3 - Credits

Course Overview

Course Prefix
SPAN

Course Number
4071

Department
World Languages and Cultures

Course Title
Simultaneous and Consecutive Healthcare Interpretation

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
In this course, students practice all modes of healthcare interpretation. They have consistent practices in different contexts related to common illnesses and medications. Students have the opportunity to perform at least one practice of shadowing in a healthcare facility.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ANY of the following Courses:

- SPAN3040 - Advanced Spanish Grammar
  OR SPAN3060 - Advanced Spanish Conversation and Composition (CI)

Course Learning Objectives

Course Learning Outcomes

1. The student will gain an understanding and appreciation of simultaneous Interpretation.

2. The student will begin the in-depth study of simultaneous interpretation (continued in Advanced Simultaneous Interpretation).

SPAN4072 - Simultaneous and Consecutive Legal Interpretation - 3 - Credits

Course Overview

Course Prefix
SPAN

Course Number
4072

Department
World Languages and Cultures

Course Title

Simultaneous and Consecutive Legal Interpretation

Grade Mode
Standard Letter

Repeat Status
NR

Course Description

This course introduces students to legal and business consecutive/simultaneous interpretation. It reviews legal terminology in English and Spanish, offers skill-building techniques for interpreting in legal and business settings, and covers the ethics, policies, and laws behind the profession.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Other Enrollment Recommendations

SPAN3061 FUNDMTLS TRANSLN AND INTERPRTN

Course Learning Objectives

Course Learning Outcomes

1. The student will gain an understanding of beginning consecutive interpretation.

2. The student will learn an in-depth study of the theory and practice of consecutive interpretation and sight translation (continued in Advanced Consecutive Interpretation).

SPAN4081 - Medical Interpretation Training (BTG) - 3 - Credits

Course Overview

Course Prefix
SPAN

Course Number
4081

Department
World Languages and Cultures

Course Title
Medical Interpretation Training (BTG)

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course equips students to work as healthcare interpreters. It enhances their medical terminology and interpretation skills and prepares them for national certification. Graduates, upon passing the exam, receive a certificate qualifying them for healthcare system employment.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ANY of the following Courses:

- SPAN3040 - Advanced Spanish Grammar
  OR SPAN3060 - Advanced Spanish Conversation and Composition (CI)

Course Learning Objectives

Course Learning Outcomes

1. The student will gain an understanding and appreciation of Advanced Simultaneous Interpretation.
2. The student will learn conceptual knowledge in legal/medical/business contexts and advanced language & interpreting proficiency.

SPAN4082 - Advanced Legal Translation and Interpretation - 3 - Credits

Course Overview

Course Prefix
SPAN

Course Number
4082

Department
World Languages and Cultures

Course Title
Advanced Legal Translation and Interpretation

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides advanced training in legal and business translation, and court interpretation. Students develop professional skills in handling complex assignments with confidence and precision, as well as strategies and resources for effective translation and interpretation in diverse legal contexts.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Other Enrollment Recommendations
SPAN3082 LGL & BUSNS TRANSLATION

Course Learning Objectives

Course Learning Outcomes
1. The student will gain an understanding and appreciation of Advanced Consecutive Interpretation.

2. Students will gain an understanding of complex legal and medical concepts, policy, and law relevant to interpreter practice, theory, skill development, and special issues in interpretation in legal, medical, and business settings.

SPAN4091 - Computer Assisted Translation - 3 - Credits

Course Overview

Course Prefix
SPAN

Course Number
4091

Department
World Languages and Cultures

Course Title
Computer Assisted Translation

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course is a comprehensive program designed for students seeking to harness the power of computer-assisted translation tools to enhance their translation workflow and productivity. It focuses on optimizing translation workflows using management features, collaborative translation environments, and format filing.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- SPAN3061 - Fundamentals of Translation and Interpretation
- SPAN3081 - Healthcare Translation
- SPAN3082 - Legal and Business Translation

Course Learning Objectives

Course Learning Outcomes

1. In this course, students will learn how to use translation programs to enhance their translation workflow and productivity.

2. Students will learn how to work in groups to help each other translate large documents.

3. Students will learn how to navigate the interfaces, customize settings, and gain hands-on experience with industry-leading tools.

SPAN4092 - Technical Communication Applied to Translation - 3 - Credits

Course Overview

Course Prefix
SPAN

Course Number
4092

Department
World Languages and Cultures

Course Title
Technical Communication Applied to Translation

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course offers students a comprehensive understanding of the principles and practices of communication within technical and professional settings. Students learn the fundamentals of technical writing by creating audience-focused documents such as reports, manuals, and visual presentations.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Fulfill ALL of the following requirements:

Required

Complete ALL of the following Courses:

- SPAN3061 - Fundamentals of Translation and Interpretation

AND

Required

Complete ANY of the following Courses:

- SPAN3081 - Healthcare Translation
  OR SPAN3082 - Legal and Business Translation

Course Learning Objectives

Course Learning Outcomes

1. In this course, students will learn the principles and practices of communication within technical and professional settings.

2. Students will understand the importance of teamwork and collaboration in technical projects and learn effective strategies for communicating within interdisciplinary teams.

3. Students will gain proficiency in a range of digital tools and technology based on the principles of user experience, project management role, and communication across cultural and linguistic boundaries in a globalized world.

SPAN4093 - Translation/Interpretation Internship - 3 - Credits

Course Overview

Course Prefix
SPAN

Course Number
4093

Department
World Languages and Cultures

Course Title
Translation/Interpretation Internship

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students are responsible for finding an internship in translation and/or interpretation. Students submit a proposal, and once approved, the student receives guidance and supervision.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes

Course Learning Outcomes:

1. In this course, students will find an internship opportunity to practice the skills learned in the classroom.

2. Students will submit a proposal to the professor and meet once a week to evaluate the students' progress.

SPAN4200 - Introduction to Hispanic Linguistics - 3 - Credits

Course Overview

Course Prefix
SPAN

Course Number
4200

Department
World Languages and Cultures

Course Title
Introduction to Hispanic Linguistics

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course is designed for future Spanish teachers. Students enrolled in this course will learn about the most important aspects of Hispanic linguistics, such as the morphology, syntax, semantics and the history of the Spanish language.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- SPAN3040 - Advanced Spanish Grammar

SPAN4800 - Hispanic Culture and Civilization-Study Abroad - 1 - 4 Credits

Course Overview

Course Prefix
SPAN

Course Number
4800

Department
World Languages and Cultures

Course Title
Hispanic Culture and Civilization-Study Abroad

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Students learn historical, social, political, economic, and cultural conditions and institutions of Hispanic countries.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
4

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
4

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
4

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
4

Lecture Hours Operator:
TO

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Prerequisite may be fulfilled by coursework or testing.

Fulfill ANY of the following requirements:

Coursework

Complete ALL of the following Courses:

- SPAN2020 - Spanish Second Year II

OR

Exam

Language Proficiency Exam
USU World Languages and Cultures Language Proficiency Placement test score of 440-499

SPAN4880 - Individual Readings - 1 - 4 Credits

Course Overview

Course Prefix
SPAN

Course Number
4880

Department
World Languages and Cultures

Course Title
Individual Readings

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Individual readings or projects in Spanish.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
4

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
4

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
4

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
4

Lecture Hours Operator:
TO

Special Approval

Instructor permission

No Requirements

SPAN4900 - Topics of Spanish Cultural Production - 3 - Credits

Course Overview

Course Prefix
SPAN

Course Number
4900

Department
World Languages and Cultures

Course Title
Topics of Spanish Cultural Production

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Select topics of Spanish cultural production, such as literature, art, cinema, or music.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete at least 1 of the following courses:

- SPAN3600 - Survey of Spanish Literature I (DHA)
- SPAN3610 - Survey of Spanish Literature II (DHA/CI)
- SPAN3620 - Survey of Hispanic American Literature I (DHA)
- SPAN3630 - Survey of Hispanic American Literature II (DHA)
- SPAN3640 - Introduction to U.S. Latino/a Literature
- SPAN3650 - Spanish Literature-Study Abroad
- SPAN3660 - Hispanic American Literature - Study Abroad

SPAN4910 - Topics of Hispanic American Cultural Production - 3 - Credits

Course Overview

Course Prefix
SPAN

Course Number
4910

Department
World Languages and Cultures

Course Title
Topics of Hispanic American Cultural Production

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Select topics of Hispanic American cultural production, such as literature, art, cinema, or music.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete at least 1 of the following courses:

- SPAN3600 - Survey of Spanish Literature I (DHA)
- SPAN3610 - Survey of Spanish Literature II (DHA/CI)
- SPAN3620 - Survey of Hispanic American Literature I (DHA)
- SPAN3630 - Survey of Hispanic American Literature II (DHA)
- SPAN3640 - Introduction to U.S. Latino/a Literature
- SPAN3650 - Spanish Literature-Study Abroad
- SPAN3660 - Hispanic American Literature - Study Abroad

SPAN4920 - Spanish Language Tutoring - 1 - 3 Credits

Course Overview

Course Prefix
SPAN

Course Number
4920

Department
World Languages and Cultures

Course Title
Spanish Language Tutoring

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
This course allows students to develop tutoring skills by assisting professors in lower-division courses or fulfilling instructional duties for a comparable amount of time in the language laboratory, public schools, or similar activities with departmental approval.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
OR

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
OR

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
OR

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
OR

Special Approval
Instructor permission

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Prerequisite may be fulfilled by coursework or through testing.

Fulfill ANY of the following requirements:

Coursework

Complete ALL of the following Courses:

- SPAN3040 - Advanced Spanish Grammar

OR

Testing

Proficiency Testing

- Equivalent proficiency testing

SPAN4930 - Topics of U.S. Latina/o Literature and Culture - 3 - Credits

Course Overview

Course Prefix
SPAN

Course Number
4930

Department
World Languages and Cultures

Course Title
Topics of U.S. Latina/o Literature and Culture

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Students will gain a deep understanding of the historical and cultural complexity of Latina/o communities in the U.S. Through an interdisciplinary approach, drawing from various comparative critical frameworks, students will examine a wide range of issues tied to the Latina/o community.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete at least 1 of the following courses:

- SPAN3600 - Survey of Spanish Literature I (DHA)
- SPAN3610 - Survey of Spanish Literature II (DHA/CI)
- SPAN3620 - Survey of Hispanic American Literature I (DHA)
- SPAN3630 - Survey of Hispanic American Literature II (DHA)
- SPAN3640 - Introduction to U.S. Latino/a Literature

SPAN4940 - Topics of Hispanic American Cultural Production – Study Abroad - 3 - Credits

Course Overview

Course Prefix
SPAN

Course Number
4940

Department
World Languages and Cultures

Course Title
Topics of Hispanic American Cultural Production – Study Abroad

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course explores select topics of Hispanic American cultural production, such as literature, art, cinema, music, or linguistics-related topics.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete at least 1 of the following courses:

- SPAN3600 - Survey of Spanish Literature I (DHA)
- SPAN3610 - Survey of Spanish Literature II (DHA/CI)
- SPAN3620 - Survey of Hispanic American Literature I (DHA)
- SPAN3630 - Survey of Hispanic American Literature II (DHA)
- SPAN3640 - Introduction to U.S. Latino/a Literature
- SPAN3650 - Spanish Literature-Study Abroad
- SPAN3660 - Hispanic American Literature - Study Abroad

Course Learning Objectives

Course Learning Outcomes

1. Gaining a broader understanding and appreciation of intellectual-cultural activity (music, art, literature, etc.).

2. Learning to analyze and critically evaluate ideas, arguments, and points of view.

3. Learning fundamental principles, generalizations, or theories.

SPAN4990 - Spanish Degree Assessment - 1 - Credits

Course Overview

Course Prefix
SPAN

Course Number
4990

Department
World Languages and Cultures

Course Title
Spanish Degree Assessment

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Includes review of coursework and comprehensive exit examination, individualized according to the courses taken for the degree.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Special Approval

Instructor permission

No Requirements

SPAN5060 - Spanish for Professional and Academic Purposes - 3 - Credits

Course Overview

Course Prefix
SPAN

Course Number
5060

Department
World Languages and Cultures

Course Title
Spanish for Professional and Academic Purposes

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course focuses on the development and refinement of the linguistic skills that allow students to move from the personal to academic and professional discourse so they can be competitive and successfully perform the tasks required at the workplace.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ANY of the following Courses:

- SPAN3040 - Advanced Spanish Grammar
  OR SPAN3060 - Advanced Spanish Conversation and Composition (CI)

SPAN6200 - Spanish Linguistics and Phonetics - 3 - Credits

Course Overview

Course Prefix
SPAN

Course Number
6200

Department
World Languages and Cultures

Course Title
Spanish Linguistics and Phonetics

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Analysis of phonology, morphology, and syntax of the Spanish language.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Fulfill ALL of the following requirements:

Coursework

Complete ALL of the following Courses:

- SPAN2020 - Spanish Second Year II

AND

Additional Required Credit

Complete one of the following:

Upper division Spanish course

- 3000-level or higher SPAN course ***OR***

- Demonstrated proficiency through testing

SPED1000 - Principles of Effective Peer Teaching - 2 - Credits

Course Overview

Course Prefix
SPED

Course Number
1000

Department
Special Education & Rehab Counseling

Course Title
Principles of Effective Peer Teaching

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
High school peer tutors are given university credit for tutoring low readers for one hour each day. Tutors are taught a systematic tutoring and mentoring process. In addition, specific criteria are included to evaluate tutors' instructional performance.

Credit Hours

Credit Hours Min:
2

Contact Hours

Contact Hours Min:
2

Billing Hours

Billing Hours Min:
2

Lecture Hours

Lecture Hours Min:
2

No Requirements

Course Learning Objectives

Course Learning Outcomes

By the end of the course, students will be able to:

1. Adhere to confidentiality policy, as outlined in the Family Educational Rights Privacy Act (FERPA), Individuals with Disabilities Education Improvement Act (2004), and school/district policy.

2. Understand legislation and social issues underscoring special education.

3. Understand and recognize that diversity is part of families, cultures, schools, and communities.

4. Use professional ethical principles and standards to guide approaches and interactions.

5. Identify similarities and differences among cognitive, physical, cultural, social, and emotional needs of individuals with exceptional learning needs.

6. Collect and analyze data.

7. Provide age-appropriate positive and corrective feedback.

8. Leverage technology to promote accessible education.

9. Utilize instructional programs using explicit instruction, as prescribed by supervisors and class instructors.

SPED1010 - Disability and Society (BSS) - 3 - Credits

Course Overview

Course Prefix
SPED

Course Number
1010

Department
Special Education & Rehab Counseling

Course Title
Disability and Society (BSS)

General Education Attribute
BSS

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Discussion of definitions and types of disabilities, ethical issues, society's prejudice and discrimination against people with disabilities, and the individual's adjustment to the disability experience. Disability as a natural part of life.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Define disability and describe various models that describe disability, its causes, treatment, and impact on society and the individual;
2. Become familiar with strategies to accommodate the needs of individuals with disabilities by removing environmental barriers, using assistive technology, and implementing concepts of universal design;
3. Become familiar with societal responses and historical treatment of persons with disabilities;
4. Become familiar with the Disability Rights Movement and the power of language within the disability community (i.e., person first vs. identity first language);
5. Examine individual, family, and community responses to disability and social prejudices;
6. Better understand the disability experience, particularly from the perspective of those with disabilities and their family members to foster positive and realistic attitudes;
7. Become familiar with the disability community and its varied roles in society; and,
8. Become conversant with current political, social, and economic issues affecting the disability community and become familiar with the self-advocacy movement.

SPED2790 - Special Topics - 1 - 9 Credits

Course Overview

Course Prefix
SPED

Course Number
2790

Department
Special Education & Rehab Counseling

Course Title
Special Topics

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course consists of additional readings or research done beyond the material covered in other courses.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
9

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
9

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
9

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
9

Lecture Hours Operator:
TO

Special Approval
Instructor permission

No Requirements

SPED2910 - Early Field Experience in Special Education - 3 - Credits

Course Overview

Course Prefix
SPED

Course Number
2910

Department
Special Education & Rehab Counseling

Course Title
Early Field Experience in Special Education

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course provides early field experience to implement effective instruction and behavior management strategies in special education school or clinic settings. Coursework also explores the field of special education.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Special Approval
Instructor permission

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Gain professional experience working with students with disabilities in school and clinic settings.
2. Provide exposure to the field of special education.
3. Experience the day to day reality of teaching in special education.
4. Acquire basic principles of effective instruction and behavior managment.
5. Provide exposure to students with disabilities in the early years of the college experience.

6. Explore the field of special education (e.g. disability characteristics, special education law, etc.).

SPED4000 - Education of Students with Disabilities - 3 - Credits

Course Overview

Course Prefix
SPED

Course Number
4000

Department
Special Education & Rehab Counseling

Course Title
Education of Students with Disabilities

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course teaches the characteristics of all types of exceptional children with emphasis on the educational and psychological implications of these conditions to the development of the child.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Prerequisite may be fulfilled with one of the following options:

Fulfill ANY of the following requirements:

Option 1

Earn a minimum grade of B- in the following:

- SHS3200 - Child Language Development

OR

Option 2

Admission to Teacher Education Program

Course Learning Objectives

Course Learning Outcomes

1. Demonstrate a working understanding of the history of special education, current laws (IDEA, Section 504, ADA), and the impact of curriculum standards on students with disabilities.
2. Define and explain the special education service categories outlined in IDEA, including possible causes and prevalence rates of various disability categories.
3. Describe characteristics, needs, and evidence-based interventions, accommodations, and instructional methods for students served in each disability category.
4. Identify and utilize family, school, and community roles and resources for serving exceptional students.
5. Recognize and apply key components of behavior management plans and strategies to support positive student behavior.
6. Apply knowledge of IDEA processes—including evaluation, IEP development, and transition planning—to ensure that students with disabilities receive services that uphold their individual rights.
7. Reflect on and evaluate how personal experiences, beliefs, and assumptions influence professional relationships with students with disabilities and their families.
8. Compare and contrast legal protections under Section 504 and IDEA, and apply this understanding to support students effectively in classroom and therapy settings.
9. Identify problem behaviors, determine potential causes, and develop realistic solutions to address and reduce these behaviors.
10. Select and implement appropriate strategies, accommodations, resources, and materials to differentiate instruction for individuals and groups of learners.
11. Integrate knowledge of legal, instructional, and behavioral frameworks to create

SPED4300 - What is Normal?: Introduction to Disability Studies - 3 - Credits

Course Overview

Course Prefix
SPED

Course Number
4300

Department
Special Education & Rehab Counseling

Course Title

What is Normal?: Introduction to Disability Studies

Grade Mode
Standard Letter

Repeat Status
NR

Course Description

This course provides an introduction to the field of disability studies. Students investigate the way history, popular culture, and media inform our attitudes toward and understanding of disability.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Analyze how the concepts of ""normalcy"" and ""disability"" are socially constructed rather than just biologically determined, utilizing foundational theories (such as the Social Model vs. the Medical Model) to deconstruct societal standards of beauty, competence, and citizenship.
2. Evaluate the historical, political, and economic forces—ranging from the eugenics movement to the disability rights movement—that have shaped Western society's current policies, laws, and attitudes toward people with disabilities.
3. Critique the representation of disability in literature, film, advertising, and art to identify how popular culture perpetuates stereotypes or provides opportunities for resistance and empowerment.

4. Examine the intersectionality of disability with race, class, gender, and sexuality, articulating how these overlapping identities influence an individual's lived experience of privilege, power, and oppression.
5. Assess how the social and built environment (architecture, technology, social attitudes) contributes to the phenomenon of "disablement,"" distinguishing between individual impairment and systemic barriers.
6. Formulate personal and professional strategies to challenge ableism and replace stereotypes with respectful, informed actions that promote the rights and dignity of people with disabilities.

SPED4910 - Undergraduate Research and Creative Opportunities - 1 - 3 Credits

Course Overview

Course Prefix
SPED

Course Number
4910

Department
Special Education & Rehab Counseling

Course Title
Undergraduate Research and Creative Opportunities

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Individually directed study at the undergraduate level.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

Special Approval

Instructor permission

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Develop research and creative skills and methods appropriate to the discipline, including analytical skills and communication skills;
2. Apply skills and methods appropriate to the discipline such as generating data or gathering data, producing creative work, utilizing existing data sources, and engaging in inquiry;
3. Analyze/evaluate project results according to standards of the discipline, drawing conclusions, and identifying areas for future study;
4. Communicate results/outcome of the project;
5. Identify, evaluate, synthesize, and cite scholarly literature, relevant data and reports, or creative work;
6. Engage in self- reflection to produce insight into learning and growth, professional identity, and implications of the work.

SPED5010 - Applied Behavioral Analysis 1: Principles, Assessment, and Analysis (QI) - 3 - Credits

Course Overview

Course Prefix
SPED

Course Number
5010

Department
Special Education & Rehab Counseling

Course Title
Applied Behavioral Analysis 1: Principles, Assessment, and Analysis (QI)

General Education Attribute
QI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description

This course covers how basic principles of human learning can be applied to help students with disabilities succeed in the classroom. It also covers collecting, analyzing, and graphing data on student behavior in order to make effective, data-based educational decisions.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Admission to Teacher Education and Special Education program

Course Learning Objectives

Course Learning Outcomes

1. Describe the basic environmental principles that explain human behavior, including: Positive and Negative Reinforcement, Positive and Negative Punishment, Behavioral Antecedents, and Behavioral Extinction.
2. Describe and use stimulus preference assessments to determine potential positive reinforcers.
3. Describe and use systems for accurately describing and measuring student behavior in the classroom.

4. Use Microsoft Excel to graph student behavior in the classroom.
5. Describe and use behavior analytic teaching procedures, including: Shaping, Chaining, Behavioral Skills Training, Prompting, Conditioned Reinforcement, Self-Management Techniques, and Strategies for Promoting Generalization and Maintenance of behavior.

SPED5011 - Foundations in Special Education: Instructional Strategies, Behavior Management, and IEPs - 2 - Credits

Course Overview

Course Prefix
SPED

Course Number
5011

Department
Special Education & Rehab Counseling

Course Title
Foundations in Special Education: Instructional Strategies, Behavior Management, and IEPs

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides beginning teachers and paraprofessionals with foundational content and practice in applying effective instructional and behavior management strategies in their classrooms. It includes an overview of the IEP process and emphasizes the knowledge/skills needed to set up classrooms.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Registration Restrictions
Admission to Teacher Education and Special Education program

Course Learning Objectives

Course Learning Outcomes
1. By the end of this course, students will be able to implement effective teaching and classroom management practices in special education classrooms.

SPED5012 - Basic Behavior Management and Instructional Strategies (QI) - 3 - Credits

Course Overview

Course Prefix
SPED

Course Number
5012

Department
Special Education & Rehab Counseling

Course Title
Basic Behavior Management and Instructional Strategies (QI)

General Education Attribute
QI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers topics related to collecting data, using data to make decisions, analyzing data, graphing data, and applying principles of behavior management and instruction to children and youth.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Registration Restrictions
Admission to Teacher Education and Special Education program

Course Learning Objectives

Course Learning Outcomes

1. Describe the basic environmental principles that explain human behavior, including: Positive and Negative Reinforcement, Positive and Negative Punishment, Behavioral Antecedents, and Behavioral Extinction.
2. Describe and use stimulus preference assessments to determine potential positive reinforcers.
3. Describe and use systems for accurately describing and measuring student behavior in the classroom.
4. Use Microsoft Excel to graph student behavior in the classroom.
5. Describe and use behavior analytic teaching procedures, including: Shaping, Chaining, Behavioral Skills Training, Prompting, Conditioned Reinforcement, Self-Management Techniques, and Strategies for Promoting Generalization and Maintenance of behavior.

SPED5013 - Advanced Behavior Management and Instructional Strategies - 3 - Credits

Course Overview

Course Prefix
SPED

Course Number
5013

Department
Special Education & Rehab Counseling

Course Title
Advanced Behavior Management and Instructional Strategies

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course expands students' knowledge of the application of principles of behavior management and instruction. Students develop skills for remediating behavior problems using functional behavioral assessment.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Admission to Teacher Education and Special Education program

Other Enrollment Recommendations

1. By the end of this course, student will be able to:
   Demonstrate an understanding of Applied Behavior Analysis (ABA) and Positive Behavioral Interventions and Supports (PBIS) procedures to prevent and address challenging behavior and to improve individual, group, and classroom behavior
2. Correctly define the functions of behavior and describe the functional behavior assessment process
3. Demonstrate an understanding of common intervention strategies for teaching and maintaining appropriate behavior
4. Correctly identify procedures for preventing and reducing challenging behavior
5. Correctly identify treatment selection procedures for identifying recommended strategies and interventions

SPED5014 - Foundations in Assessment - 2 - Credits

Course Overview

Course Prefix
SPED

Course Number
5014

Department
Special Education & Rehab Counseling

Course Title
Foundations in Assessment

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers types of assessment, including norm-referenced, criterion-referenced, and curriculum-based assessment styles, as well as the purposes of assessment, such as eligibility, program planning, and progress monitoring for students with disabilities.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Registration Restrictions
Admission to Teacher Education and Special Education program

Course Learning Objectives

Course Learning Outcomes
1. Define and understand the purpose of assessment.
2. Identify the steps involved in the assessment process in special education.
3. Recognize the importance of norm-referenced tests, standardization, and concerns surrounding standardized testing.
4. Describe the various informal measures of assessment.
5. Identify issues surrounding testing considerations and describe the limitations of various kinds of testing.
6. Define and understand terminology to describe various assessment practices.
7. Identify the purposes of different types of assessments.
8. Understand the state core academic standards.
9. Understand how different types of assessment are best used to inform instruction toward these standards.

SPED5015 - Law/Policies/Procedures - 3 - Credits

Course Overview

Course Prefix
SPED

Course Number
5015

Department
Special Education & Rehab Counseling

Course Title
Law/Policies/Procedures

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides an understanding of federal and state laws for persons with disabilities and procedures for developing IEPs.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Admission to Teacher Education and Special Education program

Course Learning Objectives

Course Learning Outcomes
1. Students will analyze and apply federal education laws, historical legal cases, and key principles shaping special education by evaluating their impact on equitable access, inclusion, and appropriate services for students with disabilities.
2. Students will accurately explain the processes for Child Find, referral, and eligibility determination under IDEA, eligibility criteria for the 13 disability categories, and correctly complete the USBE referral and consent for assessment forms.
3. Students will describe practices for supporting caregiver involvement and rights in the IEP process.
4. Students will apply best practices for writing Present Levels of Academic Achievement and Functional Performance (PLAAFP) statements and assess the quality of statements by identifying key components, necessary records, and stakeholder contributions
5. Students will demonstrate the procedures for writing goals aligned with the PLAAFP statements and develop a data collection procedure that aligns with the goals.
6. Students will describe the process and considerations when determining IEP services, accommodations, and LRE within a multidisciplinary team and describe strategies for conducting team meetings.
7. Students will explain the discipline procedures for students with disabilities, including key differences from those for students without disabilities, the manifestation determination process, and due process complaint procedures.
8. Students will locate and analyze their district's discipline policies and identify current due process hearings in their state to understand legal protections and procedural safeguards for students with disabilities.

SPED5016 - Technology and Collaboration for Teaching Exceptional Learners - 3 - Credits

Course Overview

Course Prefix
SPED

Course Number
5016

Department
Special Education & Rehab Counseling

Course Title
Technology and Collaboration for Teaching Exceptional Learners

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course explores existing technology (IT and AT), technology legislation, resources to fund technology in classrooms, methods for evaluating AT needs of individuals with disabilities, and strategies for collaborating with families and service providers to assess, select, and implement technology.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Registration Restrictions

Admission to Teacher Education and Special Education program

Course Learning Objectives

Course Learning Outcomes

1. Students will use effective communication, collaboration, and problem-solving processes to engage families, general educators, related service providers, paraprofessionals, and other professionals in planning, implementing, and evaluating supports for students with disabilities.
2. Students will accurately model and apply the AT consideration, referral, and assessment process.
3. Students will develop AT plans aligned with IEP goals, including selecting tools, defining implementation procedures, determining progress-monitoring methods, and specifying the responsibilities of team members.
4. Students will implement AT tools in simulated or real classroom settings and evaluate their impact on student access, engagement, participation, communication, or academic outcomes. Students will adjust tools, supports, or environments based on data and student responsiveness.

SPED5017 - Transition Planning and Collaboration for Exceptional Learners - 3 - Credits

Course Overview

Course Prefix
SPED

Course Number
5017

Department
Special Education & Rehab Counseling

Course Title
Transition Planning and Collaboration for Exceptional Learners

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides information to develop and implement transition plans, including transition legislation and procedures, and strategies for working with students, families, related service providers, and other professionals.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Registration Restrictions
Admission to Teacher Education and Special Education program

Course Learning Objectives

Course Learning Outcomes

1. Upon completion of the course, you will be able to:
   Explain past and current transition trends in special education and disability culture.
2. Identify societal factors that influence outcomes for youth and adults with disabilities across diverse identity characteristics (e.g., culture, linguistic, family structure).
3. Apply effective and respectful communication strategies in the context of interagency collaboration, parent collaboration, and person-centered planning.
4. Describe how to gather data from a variety of sources (e.g., IEP) and people (e.g., general education teachers, service providers, students) to design a unit of instruction and family resource guide to provide in-school experiences.
5. Describe the role of the family in the transition planning process.
6. Identify family expectations and the potential influence of those expectations in the transition planning process.
7. Define self-determination.
8. Describe and practice strategies that will enhance self-determination for children and youth with disabilities.
9. Considering student and family needs, identify disability-specific and non-disability-specific agencies to support student and family-identified needs.
10. Compare secondary transition evidence and research-based strategies to design instruction for students of different ages, types of disabilities, levels of support needs, and culturally or linguistically diverse backgrounds.
11. Use materials or lessons that counteract stereotypes and acknowledges the contributions of individuals with diverse identity markers (e.g., culture, language).
12. Describe the policies governing services for children with disabilities ages 14 and older.
13. Describe postsecondary educational, employment, and independent living opportunities for youth and young adults with disabilities.
14. List and describe steps for effective planning for postsecondary transition.

SPED5018 - Eligibility Assessment - 1 - Credits

Course Overview

Course Prefix
SPED

Course Number
5018

Department
Special Education & Rehab Counseling

Course Title
Eligibility Assessment

Grade Mode
Pass/Fail

Repeat Status
NR

Course Description
This course provides a working knowledge for current and prospective special education teachers to utilize and interpret basic assessment tools for eligibility under IDEA.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Registration Restrictions
Admission to Teacher Education and Special Education program

Course Learning Objectives

Course Learning Outcomes

1. By the end of this course, students will be able to administer, score, interpret, and communicate results of a standardized assessment used for special education eligibility.

SPED5030 - Assessment in Special Education - 2 - Credits

Course Overview

Course Prefix
SPED

Course Number
5030

Department
Special Education & Rehab Counseling

Course Title
Assessment in Special Education

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides tools necessary to understand, administer, and interpret formal/informal assessments. It covers evaluation and assessment processes in special education, multidisciplinary teaming, assessments of achievement, intelligence, and behavior, and modifications and accommodations of informal and formal assessments.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Registration Restrictions
Admission to Teacher Education and Special Education program

Course Learning Objectives

Course Learning Outcomes

1. Define and understand the purpose of assessment.
2. Identify the steps involved in the assessment process in special education.
3. Recognize the importance of norm-referenced tests, standardization, and concerns surrounding standardized testing.
4. Describe the various informal measures of assessment.
5. Identify issues surrounding testing considerations and describe the limitations of various kinds of testing.
6. Recognize and use basic statistical terminology including scales of measurement, measures of central tendency, frequency, and range.
7. Identify the importance of the normal curve and how it can be used in the assessment process for decision making.

8. Distinguish among the different types of correlations and understand the meanings of correlation coefficients.
9. Apply the steps involved in the calculation of age for students during the assessment process.
10. Identify the importance of scaled scores and standard scores and how they are used in reporting information during the assessment process.
11. Recognize the importance of terminology used in reporting scores in assessment, including percentiles, stanines, T-scores, z-scores, age equivalents, and grade equivalents.
12. Recognize the rights of parents in the educational decision making of their children and identify how to provide written notice to parents for special needs assessment and to obtain parental consent.
13. Identify the procedures for initiating an evaluation for a child with a suspected disability and describe six IDEIA standards to comply with federal guidelines for special education evaluations.
14. Defend ethical practices that enhance the integrity of test results.
15. Define culture and recognize cultural and linguistic diversity among learners.
16. Describe the significance of cultural competence when working with children with special needs and their parents.
17. Identify techniques and actions educators use to prepare for a multicultural assessment.
18. Describe factors that influence assessment of students from culturally and linguistically diverse backgrounds.
19. Identify the purpose of screening assessments and describe the process for using them.
20. Discuss the purpose of an initial evaluation, determine the procedures for getting one underway, and identify who might participate in an initial evaluation.
21. Explain the purpose of a triennial evaluation and who participates in this evaluation.
22. Explain how a formal referral may be made for an evaluation and possible special education services for a child with a suspected disability and describe what happens next.
23. Describe the purpose of the Multidisciplinary Team and the membership of it.
24. Distinguish among the various assessment options of the Multidisciplinary Team.
25. Identify important principles of parental participation in the assessment process, including the important points of parent intakes and confidentiality.
26. Recognize the importance of eligibility requirements under the federal law and why special educators need to know them.
27. Identify the definitions and understand the meanings of each of the IDEIA classifications for high-prevalence disabilities and discuss the steps involved in eligibility criteria.
28. Identify the definitions and understand the meanings of each of the IDEIA classifications for low-prevalence disabilities and discuss the steps involved in eligibility criteria.
29. Identify practical guidelines important to use when writing a comprehensive educational report in special education.
30. Describe and elaborate on the sections that should be included in a comprehensive educational report for special education.
31. Explain how each element in a model comprehensive educational report informs the recommendations for the school, teachers, and parents/guardians of a child who has been identified as qualifying for special education.
32. Describe the process for preparing and presenting test results to the Child Study Team, parents, and the Eligibility Committee.
33. Identify the purpose for and the process for an Annual Review.
34. Explain the triennial review process including parent notifications and the required materials.
35. Identify important information that the Eligibility Committee must have prior to meetings and the rationale for why everything is needed.
36. Compare contrast and describe the purposes of various tests and the skills they measure.

SPED5040 - Foundations of Effective Instructional Practices - 4 - Credits

Course Overview

Course Prefix
SPED

Course Number
5040

Department
Special Education & Rehab Counseling

Course Title
Foundations of Effective Instructional Practices

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides prospective special education teachers with fundamental principles of evidence-based instructional practices. The course will cover instructional standards as well as assessment, goals and objectives, explicit & systematic instruction, and progress monitoring of the standards.

Credit Hours

Credit Hours
Min:
4

Contact Hours

Contact Hours
Min:
4

Billing Hours

Billing Hours
Min:
4

Lecture Hours

Lecture Hours
Min:
4

Other Enrollment Recommendations
Admission to Teacher Education and Special Education program

Course Learning Objectives

Course Learning Outcomes

1. Describe the principles and components of effective instruction
2. Define evidence-based practices (EBPs) and High-Leverage Practices (HLPs) and explain how they support planning and teaching students with disabilities
3. Plan and evaluate Explicit Instruction lessons using the “I Do – We Do – You Do” model
   Analyze the Common Core State Standards, Utah Core Standards, Utah Early Learning Standards, and Dynamic Learning Maps Essential Elements to guide lesson planning and goal development
4. Develop measurable IEP goals and objectives aligned with student needs and state standards

5. Define curriculum-based assessments (CBAs) and explain how they are used to monitor student progress and guide instruction and goal/objective development
6. Develop and integrate scaffolding, prompting, and feedback strategies into lesson plans to promote skill mastery and independence
7. Describe strategies to collaborate with students with disabilities, their peers, educators, service providers, and families to create accessible learning environments
8. Define time management and opportunities to respond and describe how they are used to maximize instructional effectiveness
9. Explain how data is used to inform instructional decisions and goal/objective development and make modifications

SPED5050 - Applied Behavioral Analysis 2: Applications - 3 - Credits

Course Overview

Course Prefix
SPED

Course Number
5050

Department
Special Education & Rehab Counseling

Course Title
Applied Behavioral Analysis 2: Applications

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course expands student knowledge of basic applied behavior analysis principles. Students develop skills for remediating behavior problems using functional behavioral assessment.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Admission to Teacher Education and Special Education program

SPED5070 - Policies, Procedures, and Collaboration in Special Education - 3 - Credits

Course Overview

Course Prefix
SPED

Course Number
5070

Department
Special Education & Rehab Counseling

Course Title
Policies, Procedures, and Collaboration in Special Education

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides an understanding of federal and state laws for persons with disabilities, procedures for organizing a special education classroom, and strategies for communicating and collaborating with parents and teachers as members of a multidisciplinary team.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Admission to Teacher Education and Special Education program

Course Learning Objectives

Course Learning Outcomes
Students will describe, discuss and/or apply:
1. Court cases, which have had a major impact on special education—e.g., Rowley, Tatro, Honig, Timothy W., Smith v. Armstrong.
2. Rules governing the identification and evaluation of children and youth who may be eligible for special education services under the Individuals with Disabilities Education Improvement Act.
3. Rules governing the development of Individual Education Plans and placement determination for children and youth who are eligible for special education services under the Individuals with Disabilities Education Improvement Act.
4. Rules governing the development of Transition Plans for children and youth who are eligible for special education services under the Individuals with Disabilities Education Improvement Act.

5. Rules governing the conduct of Manifestation Determinations for children and youth who are eligible for special education services under the Individuals with Disabilities Education Improvement Act.
6. Duties and responsibilities of parents, school personnel, and community agencies in relation to provision of special education services.
7. Cultural perspectives that influence parent participation in the planning and implementation of their child's special education program.
8. The relationship between Section 504, ADA, and ESEA/Common Core requirements and the requirements of IDEIA 2004

SPED5080 - Transition-Focused Education and Collaboration - 2 - Credits

Course Overview

Course Prefix
SPED

Course Number
5080

Department
Special Education & Rehab Counseling

Course Title
Transition-Focused Education and Collaboration

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers roles of parents, paraeducators, administrators, professionals, and students on multi-disciplinary teams; building inclusive programs; the array of services available to children with disabilities, as they transition to adult life; and skills in effective communication.

Credit Hours

Credit Hours Min:
2

Contact Hours

Contact Hours Min:
2

Billing Hours

Billing Hours Min:
2

Lecture Hours

Lecture Hours Min:
2

Registration Restrictions
Admission to Teacher Education and Special Education program

Course Learning Objectives

Course Learning Outcomes
1. Explain (verbally and written) past and current transition trends in special education and disability culture.
2. Identify societal factors that influence outcomes for youth and adults with disabilities across diverse identity characteristics (e.g., culture, linguistic, family structure).
3. Apply effective and respectful communication strategies in the context of interagency collaboration, parent collaboration, and person-centered planning.
4. Gather data from a variety of sources (e.g., IEP) and people (e.g., general education teachers, service providers, students) to design a family resource guide to provide suggested in-school experiences to prepare students with disabilities for adult life. Interview a family member and make recommendations to families.
5. Describe the role of the family in the transition planning process.

6. Identify family expectations and the potential influence of those expectations in the transition planning process.
7. Define self-determination.
8. Describe and practice strategies that will enhance self-determination for children and youth with disabilities.
9. Considering student and family needs, identify disability-specific and non-disability specific agencies to support student and family-identified needs.
10. Select secondary transition evidence and research-based strategies to design instruction for students of different ages, types of disabilities, levels of support needs, and culturally or linguistically diverse backgrounds.
11. Use materials or lessons that counteract stereotypes and acknowledges the contributions of individuals with diverse identity markers (e.g., culture, language).
12. Describe (verbal and written) the policies governing services for children with disabilities ages 14 and older.
13. Describe (verbal and written) postsecondary educational, employment, and independent living opportunities for youth and young adults with disabilities.
14. List and describe (written) steps for effective planning for postsecondary transition.

SPED5105 - Introduction to Visual Impairments - 1 - Credits

Course Overview

Course Prefix
SPED

Course Number
5105

Department
Special Education & Rehab Counseling

Course Title
Introduction to Visual Impairments

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students are introduced to the field of visual impairments including impact on development, basic eye anatomy, educational implications of eye disorders, and educational programming for blind or visually impaired students.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Special Approval

Instructor permission

SPED5106 - Visual Impairments Overview - 1 - Credits

Course Overview

Course Prefix
SPED

Course Number
5106

Department
Special Education & Rehab Counseling

Course Title
Visual Impairments Overview

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Introduction to the field of visual impairments including impact on development, eye anatomy and educational impacts for students who are blind or visually impaired.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Special Approval
Instructor permission

SPED5110 - Social and Psychological Implications of Visual Impairments - 2 - Credits

Course Overview

Course Prefix
SPED

Course Number
5110

Department
Special Education & Rehab Counseling

Course Title
Social and Psychological Implications of Visual Impairments

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course explores attitudes and beliefs related to visual impairment and blindness, emphasizing the impact of vision loss on the psychosocial functioning of individuals and their families. Students study self-concept, self-esteem, and strategies to enhance these areas in visually impaired children.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Registration Restrictions
Admission to Teacher Education and Special Education

Course Learning Objectives

Course Learning Outcomes
1. Explore attitudes and beliefs related to visual impairment and blindness and better understand how they impact the psychosocial functioning of VI students.
2. Identify and better understand theories of psychosocial development.
3. Explore the psychosocial implications of visual impairment.
4. Identify and better understand factors which influence adjustment to vision loss.
5. Explore issues of self-concept and self-esteem and better understand how they impact psychosocial functioning in VI children.
6. Explore strategies for enhancing self-esteem in VI children.
7. Explore the role of the family in the psychosocial functioning of VI children.
8. Explore issues related to adolescence and visual impairment.

9. Better understand factors associated with the psychosocially struggling VI child.
10. Explore, from the teacher or counselor perspective, psychological issues related to VI children.

SPED5111 - Psychosocial Implications of Visual Impairments - 2 - Credits

Course Overview

Course Prefix
SPED

Course Number
5111

Department
Special Education & Rehab Counseling

Course Title
Psychosocial Implications of Visual Impairments

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students study self-concept, self-esteem, and strategies to enhance the psychosocial functioning of children and families impacted by vision loss.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Registration Restrictions

Admission to Teacher Education and Special Education

Course Learning Objectives

Course Learning Outcomes

1. Explore attitudes and beliefs related to visual impairment and blindness and better understand how they impact the psychosocial functioning of VI students.

2. Identify and better understand theories of psychosocial development.

3. Explore the psychosocial implications of visual impairment.

4. Identify and better understand factors which influence adjustment to vision loss.

5. Explore issues of self-concept and self-esteem and better understand how they impact psychosocial functioning in VI children.

6. Explore strategies for enhancing self-esteem in VI children.

7. Explore the role of the family in the psychosocial functioning of VI children.

8. Explore issues related to adolescence and visual impairment.

9. Better understand factors associated with the psychosocially struggling VI child.

10. Explore, from the teacher or counselor perspective, psychological issues related to VI children.

SPED5120 - Ocular Disorders and Examination Techniques - 2 - Credits

Course Overview

Course Prefix
SPED

Course Number
5120

Department
Special Education & Rehab Counseling

Course Title
Ocular Disorders and Examination Techniques

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students demonstrate the ability to identify the important parts of the visual system, understand and interpret eye reports, as well as translate the information into an educational plan. Participants also conduct and supervise vision screening clinics.

Credit Hours

Credit Hours Min:
2

Contact Hours

Contact Hours Min:
2

Billing Hours

Billing Hours Min:
2

Lecture Hours

Lecture Hours Min:
2

Registration Restrictions
Admission to Teacher Education and Special Education

Course Learning Objectives

Course Learning Outcomes
1. Understand the anatomy of the human eye and the correct terms for the anatomical parts of the eye.
2. Understand the physiology of the human eye and the means by which light rays are transformed into visual images.
3. Participate in a dissection of a cow's eye with application of the acquired knowledge of anatomy and physiology.
4. Understand how an eye examination is conducted by an ophthalmologist to assess the health of the human eye.
5. Observe examination techniques.
6. Understand disease and pathologic processes of the human eye and how vision is affected. This will include such topics as cataracts, glaucoma, and macular and peripheral retinal problems.

7. Understand how treatment is provided for the processes mentioned above.
8. Understand hereditary diseases of the eye.
9. Be able to understand an ophthalmologist's written visual reports and how they should be applied by a teacher of the visually challenged in teaching individual students.

SPED5121 - Examination Techniques for Ocular Disorders - 2 - Credits

Course Overview

Course Prefix
SPED

Course Number
5121

Department
Special Education & Rehab Counseling

Course Title
Examination Techniques for Ocular Disorders

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students learn to identify the important parts of the visual system, understand and interpret eye reports, and translate information into an educational plan. Students conduct and supervise vision screening clinics.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Registration Restrictions

Admission to Teacher Education and Special Education

Course Learning Objectives

Course Learning Outcomes

1. Understand the anatomy of the human eye and the correct terms for the anatomical parts of the eye.

2. Understand the physiology of the human eye and the means by which light rays are transformed into visual images.

3. Participate in a dissection of a cow's eye with application of the acquired knowledge of anatomy and physiology.

4. Understand how an eye examination is conducted by an ophthalmologist to assess the health of the human eye.

5. Observe examination techniques.

6. Understand disease and pathologic processes of the human eye and how vision is affected. This will include such topics as cataracts, glaucoma, and macular and peripheral retinal problems.

7. Understand how treatment is provided for the processes mentioned above.

8. Understand hereditary diseases of the eye.

9. Be able to understand an ophthalmologist's written visual reports and how they should be applied by a teacher of the visually challenged in teaching individual students.

SPED5122 - Educational Implications for Students with Low Vision - 2 - Credits

Course Overview

Course Prefix
SPED

Course Number
5122

Department
Special Education & Rehab Counseling

Course Title
Educational Implications for Students with Low Vision

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers functional/educational implications of major eye diseases and disorders; the eyecare professional's role in vision care; the purposes/integral facets of functional vision & learning media assessments; the basic laws of optics; and resources for students with low vision.

Credit Hours

Credit Hours Min:
2

Contact Hours

Contact Hours Min:
2

Billing Hours

Billing Hours Min:
2

Lecture Hours

Lecture Hours Min:
2

Registration Restrictions
Admission to Teacher Education and Special Education

Course Learning Objectives

Course Learning Outcomes
1. Students will become aware of some of the functional implications and educational considerations of many of the major eye diseases and disorders.
2. Students will learn of some of the psychosocial implications of having "low vision" and of using low vision devices.
3. Students will be introduced to some functional vision assessments and vision training tools and techniques that they can use with their students.
4. Students will be familiarized with various low vision devices that may help visually impaired persons in a variety of tasks. Students will also be instructed in the proper use of these devices, and their proper care and maintenance.
5. Students will be encouraged to assist their students with low vision to obtain a clinical low vision evaluation and to obtain and use appropriate low vision devices.
6. Students will be instructed regarding materials, resources, and techniques in

assisting students with visual skills, with doing near vision tasks, distance vision tasks, and for using optical devices.
7. Students will explore some of the environmental modifications that can be made with materials, the workspace, and with the larger environment to benefit the low vision person.
8. Finally, students will become familiar with various resources available to persons with a vision loss, and the value of support groups.

SPED5123 - Functional and Educational Considerations for Students with Low Vision - 2 - Credits

Course Overview

Course Prefix
SPED

Course Number
5123

Department
Special Education & Rehab Counseling

Course Title
Functional and Educational Considerations for Students with Low Vision

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Functional/educational considerations for major eye diseases and disorders and resources for students with low vision.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Registration Restrictions
Admission to Teacher Education and Special Education

Course Learning Objectives

Course Learning Outcomes
1. Students will become aware of some of the functional implications and educational considerations of many of the major eye diseases and disorders.

2. Students will learn of some of the psychosocial implications of having “low vision” and of using low vision devices.

3. Students will be introduced to some functional vision assessments and vision training tools and techniques that they can use with their students.

4. Students will be familiarized with various low vision devices that may help visually impaired persons in a variety of tasks. Students will also be instructed in the proper use of these devices, and their proper care and maintenance.

5. Students will be encouraged to assist their students with low vision to obtain a clinical low vision evaluation and to obtain and use appropriate low vision devices.

6. Students will be instructed regarding materials, resources, and techniques in assisting students with visual skills, with doing near vision tasks, distance vision tasks, and for using optical devices.

7. Students will explore some of the environmental modifications that can be made with materials, the workspace, and with the larger environment to benefit the low vision person.

8. Finally, students will become familiar with various resources available to persons with a vision loss, and the value of support groups.

SPED5130 - Literary Braille Codes - 3 - Credits

Course Overview

Course Prefix
SPED

Course Number
5130

Department
Special Education & Rehab Counseling

Course Title
Literary Braille Codes

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course focuses on reading and writing literary braille using a slate and stylus and computerized braille writers. It includes literary braille contractions, short-form words, punctuation, and rules of usage for basic Grade 2 braille emphasizing accuracy and beginning formatting.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Registration Restrictions

Admission to Teacher Education and Special Education

Course Learning Objectives

Course Learning Outcomes

1. Ability to apply the rules of usage of the UEB and EBAE (uncontracted and contracted) literary braille codes.
2. Ability to read literary braille (uncontracted and contracted) by sight.
3. Ability to write literary braille (uncontracted and contracted) using a slate and stylus and a Perkins braillewriter.
4. Ability to transcribe extensive print passages into literary braille, using correct formatting techniques for a variety of print features (e.g., tables, textbooks, worksheets, etc.)
5. Ability to produce literary braille using technology.
6. An awareness of other braille codes: computer, music, foreign language.
7. Ability to assess students for literary braille usage.
8. Ability to develop and implement appropriate IEP goals and objectives for students using braille, including lesson plan development in the following areas: (a) development of tactile perception, (b) beginning reading and writing, (c)

intermediate reading and writing, (d) use of basic braille technologies, and (e) modification of instructional methods and materials for students who read in center based and inclusive settings.
9. Ability to identify international, national, state, and local organizations and agencies serving individuals who use braille.

SPED5131 - Braille Literacy - 3 - Credits

Course Overview

Course Prefix
SPED

Course Number
5131

Department
Special Education & Rehab Counseling

Course Title
Braille Literacy

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course focuses on basic Grade 2 braille with an emphasis on accuracy and beginning formatting. Students use a slate and stylus and computerized braille writer to read and write braille.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Registration Restrictions
Admission to Teacher Education and Special Education

Course Learning Objectives

Course Learning Outcomes
1. Ability to apply the rules of usage of the UEB and EBAE (uncontracted and contracted) literary braille codes.

2. Ability to read literary braille (uncontracted and contracted) by sight.

3. Ability to write literary braille (uncontracted and contracted) using a slate and stylus and a Perkins braillewriter.

4. Ability to transcribe extensive print passages into literary braille, using correct formatting techniques for a variety of print features (e.g., tables, textbooks, worksheets, etc.)

5. Ability to produce literary braille using technology.

6. An awareness of other braille codes: computer, music, foreign language.

7. Ability to assess students for literary braille usage.

8. Ability to develop and implement appropriate IEP goals and objectives for students using braille, including lesson plan development in the following areas: (a) development of tactile perception, (b) beginning reading and writing, (c) intermediate reading and writing, (d) use of basic braille technologies, and (e) modification of instructional methods and materials for students who read in center based and inclusive settings.

9. Ability to identify international, national, state, and local organizations and agencies serving individuals who use braille.

SPED5135 - Assistive Technology for Students with Visual Impairments - 3 - Credits

Course Overview

Course Prefix
SPED

Course Number
5135

Department
Special Education & Rehab Counseling

Course Title
Assistive Technology for Students with Visual Impairments

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course is an introduction to assistive technology used by individuals with visual impairments. The course includes strategies for assessment and instruction in the use of assistive technology.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Admission to Teacher Education and Special Education

Course Learning Objectives

Course Learning Outcomes
1. By the completion of this course, the learner will demonstrate knowledge of the basic functions of a variety of assistive technologies for students who are blind or visually impaired, including those with additional disabilities, in the following ways (prepares students in the knowledge and skills of assistive technology instruction that meet CEC Standards 1 & 4):
2. Name the categories of different types of assistive technologies and decide which technologies are appropriate for specific learning modalities.
3. Know the commands to complete basic reading and writing tasks using a variety of assistive technology devices.
4. Adapt educational materials for students who are visually impaired using a variety of assistive technology devices.
5. Evaluate the advantages and disadvantages of common assistive technology devices for individuals with visual impairments across a variety of tasks and

environments.
6. The learner will identify strategies and sources for obtaining cost effective and appropriate assistive technologies for individuals with visual impairments, including those with additional disabilities, in the following ways:
7. List major organizations that produce, lend, sell, and provide training in the use of assistive technologies for individuals with visual impairments.
8. Obtain and analyze assessment data in order to determine appropriate adaptations involving assistive technologies.
9. Develop understanding of the Student Need, Environmental Considerations, Tasks Curriculum, Tools Assessment (S.E.T.T.) used to evaluate technology needs of students who are blind or visually impaired.
10. Develop goals and objectives for students with visual impairments that involve the use of assistive technology.

SPED5136 - Visual Impairment Assistive Technology - 3 - Credits

Course Overview

Course Prefix
SPED

Course Number
5136

Department
Special Education & Rehab Counseling

Course Title
Visual Impairment Assistive Technology

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course explores the assistive technology used by people with visual impairments. Strategies for assessment of assistive technology needs and assistive technology use in instruction are introduced.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Admission to Teacher Education and Special Education

Course Learning Objectives

Course Learning Outcomes
1. By the completion of this course, the learner will demonstrate knowledge of the basic functions of a variety of assistive technologies for students who are blind or visually impaired, including those with additional disabilities, in the following ways (prepares students in the knowledge and skills of assistive technology instruction that meet CEC Standards 1 & 4):

2. Name the categories of different types of assistive technologies and decide which technologies are appropriate for specific learning modalities.

3. Know the commands to complete basic reading and writing tasks using a variety of assistive technology devices.

4. Adapt educational materials for students who are visually impaired using a

variety of assistive technology devices.

5. Evaluate the advantages and disadvantages of common assistive technology devices for individuals with visual impairments across a variety of tasks and environments.

6. The learner will identify strategies and sources for obtaining cost effective and appropriate assistive technologies for individuals with visual impairments, including those with additional disabilities, in the following ways:

7. List major organizations that produce, lend, sell, and provide training in the use of assistive technologies for individuals with visual impairments.

8. Obtain and analyze assessment data in order to determine appropriate adaptations involving assistive technologies.

9. Develop understanding of the Student Need, Environmental Considerations, Tasks Curriculum, Tools Assessment (S.E.T.T.) used to evaluate technology needs of students who are blind or visually impaired.

10. Develop goals and objectives for students with visual impairments that involve the use of assistive technology.

SPED5140 - Advanced Braille Codes & Abacus Instruction - 3 - Credits

Course Overview

Course Prefix
SPED

Course Number
5140

Department
Special Education & Rehab Counseling

Course Title
Advanced Braille Codes & Abacus Instruction

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course teaches the transcription of print mathematical symbols into appropriate formats using Nemeth Braille Code of Mathematics and using an adapted abacus for basic mathematical operations. The course explores braille for music, foreign language, and computer.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Registration Restrictions

Admission to Teacher Education and Special Education

Course Learning Objectives

Course Learning Outcomes

1. Transcribe (using appropriate formatting), read and interline mathematical materials for school-aged students using UEB Math/Science and UEB with Nemeth.
2. Calculate mathematical problems using the abacus, including addition, subtraction, multiplication, and division.
3. Demonstrate basic knowledge of materials and instructional strategies for teaching mathematics and science to students with visual impairments.
4. Demonstrate basic knowledge of foreign language, computer, and music codes, and identify resources for obtaining information on these codes.
5. Demonstrate knowledge of basic guidelines for production of tactile graphics.

6. Identify strategies for teaching the reading of tactile graphics.
7. Demonstrate knowledge of technology tools for creating braille materials and tactile graphics.

SPED5141 - Advanced Abacus Instruction and Braille Codes - 3 - Credits

Course Overview

Course Prefix
SPED

Course Number
5141

Department
Special Education & Rehab Counseling

Course Title
Advanced Abacus Instruction and Braille Codes

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course explores braille for computer, music, and foreign language. Using Nemeth Code of Mathematics and an adapted abacus, print mathematical symbols will be transcribed for basic mathematical operations.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Admission to Teacher Education and Special Education

Course Learning Objectives

Course Learning Outcomes

1. Transcribe (using appropriate formatting), read and interline mathematical materials for school-aged students using UEB Math/Science and UEB with Nemeth.
2. Calculate mathematical problems using the abacus, including addition, subtraction, multiplication, and division.
3. Demonstrate basic knowledge of materials and instructional strategies for teaching mathematics and science to students with visual impairments.
4. Demonstrate basic knowledge of foreign language, computer, and music codes, and identify resources for obtaining information on these codes.
5. Demonstrate knowledge of basic guidelines for production of tactile graphics.
6. Identify strategies for teaching the reading of tactile graphics.
7. Demonstrate knowledge of technology tools for creating braille materials and tactile graphics.

SPED5150 - Teaching Children with Dual Sensory Impairments (Deaf/Blind) - 3 - Credits

Course Overview

Course Prefix
SPED

Course Number
5150

Department
Special Education & Rehab Counseling

Course Title
Teaching Children with Dual Sensory Impairments (Deaf/Blind)

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides a basic understanding of learners (ages 0-22) having sensory impairments with multiple disabilities. It includes the transdisciplinary team, learning environments, resources, assessment procedures, and instructional strategies with a special emphasis on inclusion, transition, and parental involvement.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Registration Restrictions
Admission to Teacher Education and Special Education

Course Learning Objectives

Course Learning Outcomes
1. Have knowledge of the various definitions of deafblindness, the history of the field of deafblindness, and the prevalence of deafblindness.
2. Be able to identify the most prevalent causative factors of deafblindness.
3. Understand essential information about distance sensory impairments and how these impairments can impact all areas of development in students who are deafblind.
4. Be able to identify resources that are available to assist with the education of students who are deafblind.
5. Understand educational service needs and educational service provision for students who are deafblind, including the importance of a team approach.
6. Have an understanding of how to develop effective partnerships with families of individuals who are deafblind and assist them to develop and maintain personal future's planning for their child who is deafblind.
7 Understand the vital interrelationship of communication, concept development, and movement for students who are deafblind.
8. Understand the importance of an ecological approach in the education of students who are deafblind.
9. Students will be exposed to alternative mobility devices (AMD) and basic handling procedures for the standard long white cane, to include proper grip, tip position, movement options, safety techniques, stair travel, and travel with a sighted guide.
10. Understand how communication development can be affected by deafblindness and how to encourage communication development.
11. Have knowledge of communication modes, systems, and devices for use with students who are deafblind, including how to select and design these modes, systems, and devices appropriately.
12. Understand important concepts in assessing communication and learning skills of students who are deafblind.
13. Understand basic instructional strategies to help children and youth who are deafblind develop concepts and communication skills.
14. Demonstrate knowledge about how to conduct a functional behavioral assessment of a child or youth who is deafblind.

SPED5151 - Teaching Children who are Deaf/ Blind (Dual Sensory Impairments) - 3 - Credits

Course Overview

Course Prefix
SPED

Course Number
5151

Department
Special Education & Rehab Counseling

Course Title
Teaching Children who are Deaf/Blind (Dual Sensory Impairments)

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides a basic understanding of children (0-22) who have multiple sensory impairments. It explores learning environments, resources, assessment, instruction with the multidisciplinary team with an emphasis on parental involvement, inclusion and transition.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Registration Restrictions
Admission to Teacher Education and Special Education

Course Learning Objectives

Course Learning Outcomes
1. Have knowledge of the various definitions of deafblindness, the history of the field of deafblindness, and the prevalence of deafblindness.

2. Be able to identify the most prevalent causative factors of deafblindness.

3. Understand essential information about distance sensory impairments and how these impairments can impact all areas of development in students who are deafblind.

4. Be able to identify resources that are available to assist with the education of students who are deafblind.

5. Understand educational service needs and educational service provision for students who are deafblind, including the importance of a team approach.

6. Have an understanding of how to develop effective partnerships with families of individuals who are deafblind and assist them to develop and maintain personal future's planning for their child who is deafblind.

7 Understand the vital interrelationship of communication, concept development, and movement for students who are deafblind.

8. Understand the importance of an ecological approach in the education of students who are deafblind.

9. Students will be exposed to alternative mobility devices (AMD) and basic handling procedures for the standard long white cane, to include proper grip, tip position, movement options, safety techniques, stair travel, and travel with a sighted guide.

10. Understand how communication development can be affected by deafblindness and how to encourage communication development.

11. Have knowledge of communication modes, systems, and devices for use with students who are deafblind, including how to select and design these modes, systems, and devices appropriately.

12. Understand important concepts in assessing communication and learning skills of students who are deafblind.

13. Understand basic instructional strategies to help children and youth who are deafblind develop concepts and communication skills.

14. Demonstrate knowledge about how to conduct a functional behavioral assessment of a child or youth who is deafblind.

SPED5160 - Introduction to Orientation and Mobility - 2 - Credits

Course Overview

Course Prefix
SPED

Course Number
5160

Department
Special Education & Rehab Counseling

Course Title
Introduction to Orientation and Mobility

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces students to orientation and mobility, as well as basic assessment techniques. Using the assessment results and specific teaching techniques for visual impairments, students plan lessons in pre-cane orientation, mobility skills, non-cane mobility, and orientation cues.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Registration Restrictions
Admission to Teacher Education and Special Education

Course Learning Objectives

Course Learning Outcomes
1. Explain the impact that a visual impairment has on a child's/youth's cognitive, language, communication, motor, social-emotional, and autonomous development.
2. Explain the impact that additional disabilities have on a learner with a visual impairment and identify appropriate educational adaptations.
3. Describe vision screening and assessment procedures and terminology.
4. Describe the prevalence and incidence of visual impairment, educational and legal classifications, and service delivery options.
5. Analyze how the historical foundations shape the current issues and trends in the education of students who are visually impaired.
6. Locate sources of specialized materials, service networks, consumer organizations, and professional associations and publications.

SPED5161 - Orientation and Mobility Introduction - 2 - Credits

Course Overview

Course Prefix
SPED

Course Number
5161

Department
Special Education & Rehab Counseling

Course Title
Orientation and Mobility Introduction

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Introduction orientation and mobility for students with visual impairments. Includes basic assessment techniques and analysis of assessment results to determine teaching techniques.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Registration Restrictions
Admission to Teacher Education and Special Education

Course Learning Objectives

Course Learning Outcomes
1. Students will review and understand the historical perspectives and terminology of the field of orientation and mobility, including early intervention programs.

2. Students will describe legal classifications of visual impairment, educational incidence, and prevalence as related to orientation and mobility services. Students will be made aware of specific eye conditions and the related need for orientation and mobility instruction.

3. Students will review and identify appropriate orientation and mobility assessment tools and practices / strategies for teaching non-cane skills for infants, preschoolers, and school-aged children

4. Students will understand the role of the Orientation and Mobility Specialist in

the collaborative team and with the Teacher of Students with Visual Impairments or Vision Consultant.

5. Students will demonstrate and teach non-cane skills, including orientation, purposeful movement in the environment, protective techniques, trailing techniques, sighted guide, and listening skills.

6. Students will be exposed to alternative mobility devices (AMD) and basic handling procedures for the standard long white cane, to include proper grip, tip position, movement options, safety techniques, stair travel, and travel with a sighted guide.

7. Students will discuss issues relating to concept development, orientation and mobility technologies, representational models, tactual maps, and tactual graphics, and produce a tactual model.

8. Students will synthesize assessment information and IFSP/IEP goals and develop intervention/lesson plans including evaluation procedures, activities/materials and where appropriate, environmental adaptations and non-visual sensory development. The intervention/lesson plans will 9. also reflect strategies for infusing objectives into the student's daily routine, across environments. Lesson plans should include opportunities for life enriching activities, appropriate peer inclusion and social skills development.

10. Students will describe federal entitlements for specialized equipment and materials.

11. Students will identify consumer and professional organizations, journals, resources serving professionals at the local / state / national, individuals with visual impairment and their families.

12. Students will describe the continuum of service delivery options (early intervention through adult rehabilitation services) and the professional roles related to each.

13. Students will discuss and understand safety issues, liability issues, parent involvement and cultural sensitivity as they relate to orientation and mobility.

14. Students will generate a list of activities that they can do to support the Orientation and Mobility Specialist.

SPED5170 - Instructional Management for Students with Visual Impairments (0-21) - 3 - Credits

Course Overview

Course Prefix
SPED

Course Number
5170

Department
Special Education & Rehab Counseling

Course Title
Instructional Management for Students with Visual Impairments (0-21)

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course emphasizes best practices for instructional management of children with visual impairments (0-21 years) including concept development, socialization, literacy, braille, adaptive skills, career understanding, agency & community resources, family collaboration, and the adaptation of materials, environments & technology.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Admission to Teacher Education and Special Education

Course Learning Objectives

Course Learning Outcomes
1. Students will review and understand (a) historical foundations of education for children with visual impairments, (b) educational definitions and identification criteria, (c) issues and trends in the field of visual impairment, (d) the Utah State Special Education Regulations as they relate to early intervention/preschool children with visual impairments and to students who have visual impairments in the public schools.
2. Students will identify the effects of visual impairment on development, learning, and sensory input, including the impact of additional exceptionalities.
3. Students will discuss a variety of assessments used with students who have visual impairments, select appropriate assessments, including a Functional Vision

Assessment, Learning Media Assessment, developmental assessments, expanded core curriculum assessments, alternative assessment techniques, and other educational assessments, as part of a transdisciplinary team.
4. Students will analyze and interpret assessment results, prioritize needs, design and implement early intervention strategies (home setting), including use of intervention techniques, instructional strategies, and selection and use of resource materials.
5. Students will analyze and interpret assessment results, prioritize needs, design educational strategies including the use of adaptive techniques, instructional strategies, selection and use of resource materials for students in educational settings, and options for data collection.
6. Students will understand the IFSP/IEP process and will select appropriate outcomes, goals and objectives for individual students including: students will complete the early intervention outcome plan and K-12 instructional plans, addressing IFSP and IEP goals, behavioral objectives, evaluation procedures, and activities/materials/environ-mental modifications. The intervention/instructional plans will also reflect strategies for infusing objectives into the infant's daily routine and student's daily class schedule. Students will also address team issues including the roles of paraeducators, development of appropriate educational setting, use of role models, and development of early literacy activities for users of both large print and braille
7. Students will identify appropriate techniques linking instructional plans to the Utah State Core Curriculum, Utah Braille Core Standards for English Language Arts and Math, and the National Core Curriculum for Students with Visual Impairments. Instructional plans should reflect concrete (hands-on) learning, development of all senses, problem-solving, adaptive skills (handwriting, listening, keyboarding, technology, visual efficiency, organization skills, etc.), self- help skills, appropriate socialization skills, and self-advocacy skills. Additionally, instructional plans will include specific modifications and adaptations needed (including environmental needs) to promote success and independence for the student who has a visual impairment.
8. Student instructional plans will include data driven practices and will (a) be empirically validated and include specific student outcomes or behaviors, (b) identify any needed supports, prompts, modifications, adaptations, accommodations, aids, technology, etc., (c) identify the criterion for changing supports, prompts, modifications, etc. as appropriate, (d) promote efficient acquisition of the skill(s), (e) include strategies for teaming with classroom teachers, paraeducators, and/or families, (f) promote generalization of the skill across environments and/or contexts. Additionally, plans will include (a) performance data collection strategies that indicates specific student outcomes or behaviors, and (b) allow the teacher to carry out error analysis and identify potential modifications in instructional procedures and/or needed changes in accommodations, adaptations, and/or aids as appropriate.
9. Students will develop plans for students who need structured behavioral and communication interventions
10. Students will understand the transitioning process and design a transition plan for a child transitioning from preschool to kindergarten and from high school to post high school settings.
11. Students will identify the contact agency and processes for accessing federal entitlements for specialized equipment and materials. Students will identify international, national, state, and local organizations and agencies serving children with visual impairments and their families.

SPED5171 - Visual Impairment Instructional Management for Students Ages 0-21 - 3 - Credits

Course Overview

Course Prefix
SPED

Course Number
5171

Department
Special Education & Rehab Counseling

Course Title
Visual Impairment Instructional Management for Students Ages 0-21

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Research based instructional practices for children (0-21 years) with visual impairments. Topics include socialization, literacy, adaptive skills, braille, career understanding, community resources, collaboration with families and the adaptation of materials, environments and technology.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Admission to Teacher Education and Special Education

Course Learning Objectives

Course Learning Outcomes
1. Students will review and understand (a) historical foundations of education for children with visual impairments, (b) educational definitions and identification criteria, (c) issues and trends in the field of visual impairment, (d) the Utah State Special Education Regulations as they relate to early intervention/preschool children with visual impairments and to students who have visual impairments in the public schools.

2. Students will identify the effects of visual impairment on development, learning, and sensory input, including the impact of additional exceptionalities.

3. Students will discuss a variety of assessments used with students who have

visual impairments, select appropriate assessments, including a Functional Vision Assessment, Learning Media Assessment, developmental assessments, expanded core curriculum assessments, alternative assessment techniques, and other educational assessments, as part of a transdisciplinary team.

4. Students will analyze and interpret assessment results, prioritize needs, design and implement early intervention strategies (home setting), including use of intervention techniques, instructional strategies, and selection and use of resource materials.

5. Students will analyze and interpret assessment results, prioritize needs, design educational strategies including the use of adaptive techniques, instructional strategies, selection and use of resource materials for students in educational settings, and options for data collection.

6. Students will understand the IFSP/IEP process and will select appropriate outcomes, goals and objectives for individual students including: students will complete the early intervention outcome plan and K-12 instructional plans, addressing IFSP and IEP goals, behavioral objectives, evaluation procedures, and activities/materials/environ-mental modifications. The intervention/instructional plans will also reflect strategies for infusing objectives into the infant's daily routine and student's daily class schedule. Students will also address team issues including the roles of paraeducators, development of appropriate educational setting, use of role models, and development of early literacy activities for users of both large print and braille

7. Students will identify appropriate techniques linking instructional plans to the Utah State Core Curriculum, Utah Braille Core Standards for English Language Arts and Math, and the National Core Curriculum for Students with Visual Impairments. Instructional plans should reflect concrete (hands-on) learning, development of all senses, problem-solving, adaptive skills (handwriting, listening, keyboarding, technology, visual efficiency, organization skills, etc.), self- help skills, appropriate socialization skills, and self-advocacy skills. Additionally, instructional plans will include specific modifications and adaptations needed (including environmental needs) to promote success and independence for the student who has a visual impairment.

8. Student instructional plans will include data driven practices and will (a) be empirically validated and include specific student outcomes or behaviors, (b) identify any needed supports, prompts, modifications, adaptations, accommodations, aids, technology, etc., (c) identify the criterion for changing supports, prompts, modifications, etc. as appropriate, (d) promote efficient acquisition of the skill(s), (e) include strategies for teaming with classroom teachers, paraeducators, and/or families, (f) promote generalization of the skill across environments and/or contexts. Additionally, plans will include (a) performance data collection strategies that indicates specific student outcomes or behaviors, and (b) allow the teacher to carry out error analysis and identify potential modifications in instructional procedures and/or needed changes in accommodations, adaptations, and/or aids as appropriate.

9. Students will develop plans for students who need structured behavioral and communication interventions

10. Students will understand the transitioning process and design a transition plan for a child transitioning from preschool to kindergarten and from high school to post high school settings.

11. Students will identify the contact agency and processes for accessing federal entitlements for specialized equipment and materials. Students will identify international, national, state, and local organizations and agencies serving children with visual impairments and their families.

SPED5175 - Early Literacy for Young Children with Visual Impairment, Birth to Five - 2 - Credits

Course Overview

Course Prefix
SPED

Course Number
5175

Department
Special Education & Rehab Counseling

Course Title
Early Literacy for Young Children with Visual Impairment, Birth to Five

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers knowledge, skills, and strategies for meeting the early literacy needs of birth to five students, who are blind or visually impaired in both the home and center-based preschool setting.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Registration Restrictions
Admission to Teacher Education and Special Education

Course Learning Objectives

Course Learning Outcomes
1. Describe how language and concept development are critical for early literacy development.
2. Utilize methods and tools in assessing early literacy development in young children who are blind or visually impaired (BVI).
3. Access literacy materials in braille and make simple adaptations in braille.
4. Provide early instruction in braille readiness for the children who need it.
5. Design activities to assist children in developing the fine motor, tactile, visual and auditory skills needed for reading down the road.
6. Provide meaningful reading, storytelling and early writing experiences for young children who are BVI.
7. Incorporate literacy activities in daily routines both at home and in the preschool.

8. Access a variety of early literacy experiences in the community.
9. Address and adapt for literacy needs of young children with Cerebral/Cortical Visual Impairment (CVI).

SPED5176 - Visual Impairment Early Literacy for Young Children (Birth to Age 5) - 2 - Credits

Course Overview

Course Prefix
SPED

Course Number
5176

Department
Special Education & Rehab Counseling

Course Title
Visual Impairment Early Literacy for Young Children (Birth to Age 5)

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Visual impairment early literacy knowledge, skills, and strategies for birth to five students.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Registration Restrictions
Admission to Teacher Education and Special Education

Course Learning Objectives

Course Learning Outcomes
1. Describe how language and concept development are critical for early literacy development.

2. Utilize methods and tools in assessing early literacy development in young children who are blind or visually impaired (BVI).

3. Access literacy materials in braille and make simple adaptations in braille.

4. Provide early instruction in braille readiness for the children who need it.

5. Design activities to assist children in developing the fine motor, tactile, visual and auditory skills needed for reading down the road.

6. Provide meaningful reading, storytelling and early writing experiences for young

children who are BVI.

7. Incorporate literacy activities in daily routines both at home and in the preschool.

8. Access a variety of early literacy experiences in the community.Address and adapt for literacy needs of young children with Cerebral/Cortical Visual Impairment (CVI).

SPED5190 - Understanding the Brain, Damage to the Brain and Cerebral/Cortical Visual Impairment - 2 - Credits

Course Overview

Course Prefix
SPED

Course Number
5190

Department
Special Education & Rehab Counseling

Course Title
Understanding the Brain, Damage to the Brain and Cerebral/Cortical Visual Impairment

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers knowledge specific to brain damage and how it affects functioning and learning. Cortical or brain damage vision loss is covered along with assessment techniques and interventions. Other vision loss medical conditions will be discussed.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Registration Restrictions
Admission to Teacher Education and Special Education

Course Learning Objectives

Course Learning Outcomes
1. Describe basics of early brain development and structure and function of the brain and central nervous system.
2. Describe how the brain is impacted by prenatal, perinatal and postnatal insults and medical conditions with associated vision problems. This includes prematurity, traumatic brain injury, maternal drug use, autism, syndromes, and seizures.
3. Describe and apply basic interventions and resources for working with young children with these other brain related medical conditions.
4. Describe and apply brain damage related vision loss (CVI), characteristics, assessment, interventions.

SPED5191 - Damage to the Brain and Cerebral/ Cortical Visual Impairment - 2 - Credits

Course Overview

Course Prefix
SPED

Course Number
5191

Department
Special Education & Rehab Counseling

Course Title
Damage to the Brain and Cerebral/Cortical Visual Impairment

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Explores brain damage and its effect on learning and functioning. Cortical or brain damage vision loss is explored with assessment techniques and interventions.

Credit Hours

Credit Hours Min:
2

Contact Hours

Contact Hours Min:
2

Billing Hours

Billing Hours Min:
2

Lecture Hours

Lecture Hours Min:
2

Registration Restrictions

Admission to Teacher Education and Special Education

Course Learning Objectives

Course Learning Outcomes

1. Describe basics of early brain development and structure and function of the brain and central nervous system.

2. Describe how the brain is impacted by prenatal, perinatal and postnatal insults and medical conditions with associated vision problems. This includes prematurity, traumatic brain injury, maternal drug use, autism, syndromes, and seizures.

3. Describe and apply basic interventions and resources for working with young children with these other brain related medical conditions.

4. Describe and apply brain damage related vision loss (CVI), characteristics, assessment, interventions.

SPED5200 - Student Teaching in Special Education (CI) - 3 - 15 Credits

Course Overview

Course Prefix
SPED

Course Number
5200

Department
Special Education & Rehab Counseling

Course Title
Student Teaching in Special Education (CI)

General Education Attribute
CI

Grade Mode
Pass/Fail

Repeat Status
NR

Course Description
This course constitutes of a student teaching experience in the student's field of study.

Credit Hours

Credit Hours Min:
3

Credit Hours Max:
15

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
3

Contact Hours Max:
15

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
3

Billing Hours Max:
15

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
3

Lecture Hours Max:
15

Lecture Hours Operator:
TO

Registration Restrictions

- Admission to Teacher Education and Special Education
- Special Education student teaching application required

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Exhibit knowledge, skills and dispositions that demonstrate an awareness of and sensitivity toward diversity in learner development and student individualities.
2. Exhibit knowledge, skills, and dispositions that demonstrate clarity regarding the content they teach and how to organize and sequence it to effectively facilitate learning and drive student engagement.
3. Exhibit knowledge, skills, and dispositions that support instructional practices that drive high-quality instruction, demonstrate a data-driven and cooperative approach to teaching and learning, and meet the diverse needs of all learners.
4. Exhibit the knowledge, skills, and dispositions that enable them to create appropriate physical, social, and emotional environments to support learning.
5. Exhibit the knowledge, skills, and dispositions that demonstrate awareness of and adherence to professional and ethical standards personally, within their school community, with parents, and within

SPED5230 - Special Education Student Teaching (CI) - 3 - 15 Credits

Course Overview

Course Prefix
SPED

Course Number
5230

Department
Special Education & Rehab Counseling

Course Title
Special Education Student Teaching (CI)

General Education Attribute
CI

Grade Mode
Pass/Fail

Repeat Status
NR

Course Description

This course consists of student teaching for students in the Online Practical Teacher Training programs (OPTT).

Credit Hours

Credit Hours Min:
3

Credit Hours Max:
15

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
3

Contact Hours Max:
15

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
3

Billing Hours Max:
15

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
3

Lecture Hours Max:
15

Lecture Hours Operator:
TO

Registration Restrictions

- Admission to Teacher Education and Special Education
- Special Education student teaching application required

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Exhibit knowledge, skills and dispositions that demonstrate an awareness of and sensitivity toward diversity in learner development and student individualities.
2. Exhibit knowledge, skills, and dispositions that demonstrate clarity regarding the content they teach and how to organize and sequence it to effectively facilitate learning and drive student engagement.
3. Exhibit knowledge, skills, and dispositions that support instructional practices that drive high-quality instruction, demonstrate a data-driven and cooperative approach to teaching and learning, and meet the diverse needs of all learners.
4. Exhibit the knowledge, skills, and dispositions that enable them to create appropriate physical, social, and emotional environments to support learning.
5. Exhibit the knowledge, skills, and dispositions that demonstrate awareness of and adherence to professional and ethical standards personally, within their school community, with parents, and within their local community.

SPED5310 - Teaching Reading and Language Arts to Students with Disabilities - 1 - 4 Credits

Course Overview

Course Prefix
SPED

Course Number
5310

Department
Special Education & Rehab Counseling

Course Title

Teaching Reading and Language Arts to Students with Disabilities

Grade Mode
Standard Letter

Repeat Status
NR

Course Description

This course covers curriculum, instructional methods, assessment, and data-based decision-making related to teaching reading and language arts to students with disabilities.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
4

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
4

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
4

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
4

Lecture Hours Operator:
TO

Registration Restrictions

Admission to Teacher Education and Special Education

Course Learning Objectives

Course Learning Outcomes

1. Demonstrate adequate (meta)linguistic skills necessary to provide effective reading instruction
and intervention for students with disabilities.
2. Explain leading theories in reading and how they relate to effective reading instruction and
intervention for students with disabilities.
3. Identify logical scope and sequence of reading instruction and intervention for students with
disabilities based on knowledge of typical and atypical reading development.SPED 5310: Teaching Reading and Language Arts to Students with Disabilities – Spring 2024
4. Plan and adapt reading instruction and interventions for students with disabilities based on
initial and ongoing assessment data.

SPED5311 - Reading and Language Arts Interventions for Students with Disabilities - 1 - 3 Credits

Course Overview

Course Prefix
SPED

Course Number
5311

Department
Special Education & Rehab Counseling

Course Title

Reading and Language Arts Interventions for Students with Disabilities

Grade Mode
Standard Letter

Repeat Status
NR

Course Description

This course covers curriculum, instructional methods, assessment, and data-based decision-making related to teaching reading and language arts to students with disabilities.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

Registration Restrictions

Admission to Teacher Education and Special Education

Course Learning Objectives

Course Learning Outcomes

1. Demonstrate adequate (meta)linguistic skills necessary to provide effective reading instruction and intervention for students with disabilities.
2. Explain leading theories in reading and how they relate to effective reading instruction and intervention for students with disabilities.
3. Identify logical scope and sequence of reading instruction and intervention for students with disabilities based on knowledge of typical and atypical reading development.
4. Evaluate reading curriculum for essential reading elements.

SPED5312 - MM K-12 Math Content, Applications, and Co-Teaching - 3 - Credits

Course Overview

Course Prefix
SPED

Course Number
5312

Department
Special Education & Rehab Counseling

Course Title

MM K-12 Math Content, Applications, and Co-Teaching

Grade Mode
Standard Letter

Repeat Status
NR

Course Description

This course covers instructional methods, assessment, data-based decision-making, co-teaching, and applications to teach math skills and problem-solving to students with mild/moderate disabilities, K-12.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Admission to Teacher Education and Special Education

Course Learning Objectives

Course Learning Outcomes

1. Students will be able to describe the importance of math education, in particular for students with mild/moderate disabilities.
2. Students will be able to describe and demonstrate principles of effective mathematics instruction and intervention for students with mild/moderate disabilities.
3. Students will be able to describe specific research-based effective strategies for teaching mathematics to students with mild/moderate disabilities.
4. Students will be able to write effective and engaging lesson plans using the effective teaching cycle and principles of explicit instruction.
5. Students will be able to plan a course of instruction, taking into consideration within-grade and across-grade variables.
6. Students will be able to use information gained from assessments to define instructional programs appropriate for students with mild/moderate disabilities.

SPED5340 - Teaching Math to Students with Mild/Moderate Disabilities - 3 - Credits

Course Overview

Course Prefix
SPED

Course Number
5340

Department
Special Education & Rehab Counseling

Course Title
Teaching Math to Students with Mild/Moderate Disabilities

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers instructional methods, assessment, data-based decision-making, co-teaching, and applications to teach math skills and problem-solving to students with mild/moderate disabilities.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Admission to Teacher Education and Special Education

Course Learning Objectives

Course Learning Outcomes

1. Students will be able to describe the importance of math education, in particular for students with mild/moderate disabilities.
2. Students will be able to describe and demonstrate principles of effective mathematics instruction and intervention for students with mild/moderate disabilities.
3. Students will be able to describe specific research-based effective strategies for teaching mathematics to students with mild/moderate disabilities.
4. Students will be able to write effective and engaging lesson plans using the effective teaching cycle and principles of explicit instruction.
5. Students will be able to plan a course of instruction, taking into consideration within-grade and across-grade variables.
6. Students will be able to use information gained from assessments to define instructional programs appropriate for students with mild/moderate disabilities.

SPED5410 - Practicum I (Elementary) for Mild/Moderate Disabilities - 3 - Credits

Course Overview

Course Prefix
SPED

Course Number
5410

Department
Special Education & Rehab Counseling

Course Title
Practicum I (Elementary) for Mild/Moderate Disabilities

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students learn to use explicit instruction, appropriate academic interventions, positive management, curriculum-based assessment, and data-based decision-making to teach children with mild/moderate disabilities in elementary settings. Students complete course requirements in elementary school placements.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Admission to Teacher Education and Special Education

Course Learning Objectives

Course Learning Outcomes

1. Demonstrate competencies in subject matter of literacy and reading
2. Provide learning experiences that are coherent and meaningful for struggling readers.
3. Demonstrate competency in delivering general and content-specific instructional strategies.
4. Reflectively analyze instruction
5. Present evidence of a commitment to life-long learning

SPED5415 - Practicum I for Mild/Moderate Disabilities - 3 - Credits

Course Overview

Course Prefix
SPED

Course Number
5415

Department
Special Education & Rehab Counseling

Course Title
Practicum I for Mild/Moderate Disabilities

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students learn to use explicit instruction, positive management, scaffolded supports, active student engagement strategies, and feedback strategies to teach children with mild/moderate disabilities in elementary or secondary settings. Students complete course requirements in school placements.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Registration Restrictions
Admission to Teacher Education and Special Education

Course Learning Objectives

Course Learning Outcomes
1. Provide explicit and systematic instruction or intervention.
2. Develop a classroom management plan that reflects a consistent, organized, and respectful learning environment.
3. Incorporate scaffolded supports within instruction.
4. Use effective strategies to engage students and provide feedback on learning and behavior.
5. Critically evaluate teaching skills to plan improvements.

SPED5420 - Practicum II (Secondary) for Mild/Moderate Disabilities - 3 - 4 Credits

Course Overview

Course Prefix
SPED

Course Number
5420

Department
Special Education & Rehab Counseling

Course Title
Practicum II (Secondary) for Mild/Moderate Disabilities

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers the use of effective instructional techniques, positive management, curriculum-based assessment, and data-based decision making to teach mathematics content to children with mild/moderate disabilities in a secondary setting.

Credit Hours

Credit Hours Min:
3

Credit Hours Max:
4

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
3

Contact Hours Max:
4

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
3

Billing Hours Max:
4

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
3

Lecture Hours Max:
4

Lecture Hours Operator:
TO

Registration Restrictions
Admission to Teacher Education and Special Education

Course Learning Objectives

Course Learning Outcomes

1. Write lesson plans that are aligned with the Utah mathematics Core Standards and based on student needs.
2. Implement effective mathematics instruction.
3. Collect and analyze mathematics data to make informed decisions about students' instruction.
4. Implement effective strategies to promote and facilitate students' problem solving, critical thinking, and discourse.
5. Engage in reflective practices to improve teaching performance.

SPED5425 - Practicum II for Mild/Moderate Disabilities - 4 - Credits

Course Overview

Course Prefix
SPED

Course Number
5425

Department
Special Education & Rehab Counseling

Course Title
Practicum II for Mild/Moderate Disabilities

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students learn to use explicit instruction, scaffolded supports, systematic instruction, intensive interventions, and data-based decision making to teach children with mild/moderate disabilities academic content in elementary or secondary settings. Students complete course requirements in school placements.

Credit Hours

Credit Hours
Min:
4

Contact Hours

Contact Hours
Min:
4

Billing Hours

Billing Hours
Min:
4

Lecture Hours

Lecture Hours
Min:
4

Registration Restrictions

Admission to Teacher Education and Special Education

Course Learning Objectives

Course Learning Outcomes

1. Provide explicit and systematic instruction or intervention within the content areas of reading and/or mathematics.
2. Use effective strategies to engage students and provide feedback on learning and behavior within the context of reading and/or mathematics lessons.
3. Critically evaluate teaching skills to plan improvements.
4. Use multiple sources of information to develop a comprehensive understanding of a student's strengths and needs.
5. Use student assessment data, analyze instructional practices, and make necessary adjustments that improve student outcomes.
6. Adapt curriculum tasks and materials for specific learning goals.

SPED5500 - Interdisciplinary Disability Awareness and Community Engaged Learning - 3 - Credits

Course Overview

Course Prefix
SPED

Course Number
5500

Department
Special Education & Rehab Counseling

Course Title
Interdisciplinary Disability Awareness and Community Engaged Learning

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This proposed change will not impact the content or structure of the class. Only the number, name, and credit hours will be changing. Therefore, impacted programs should only have to update the course number in their program descriptions.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

SPED5510 - Curriculum and Assessment for Students with Severe Disabilities I - 2 - Credits

Course Overview

Course Prefix
SPED

Course Number
5510

Department
Special Education & Rehab Counseling

Course Title
Curriculum and Assessment for Students with Severe Disabilities I

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers teaching curricula content and assessment for making data-based decisions for persons with significant cognitive disabilities.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Registration Restrictions
Admission to Teacher Education and Special Education

Course Learning Objectives

Course Learning Outcomes

1. Develop explicit instruction lessons for functional, life, and daily living skills that address the unique needs of students with complex support needs.
2. Apply evidence-based teaching strategies to effectively support individuals with complex support needs in school and community settings.
3. Design and adapt curricular materials to teach functional academic skills using research-based instructional methods.
   Implement applied assignments and practicum activities that integrate theory with practice in authentic classroom settings.
4. Assess student learning and utilize ongoing data collection to make informed, data-based instructional decisions.

5. Collaborate to ensure cohesive and comprehensive educational experiences for students with complex support needs across settings and service providers.
6. Design and organize classroom environments and schedules that promote accessibility, engagement, and independence for all learners.

SPED5511 - Effective Instruction and Curriculum for Students with Severe Disabilities I - 2 - Credits

Course Overview

Course Prefix
SPED

Course Number
5511

Department
Special Education & Rehab Counseling

Course Title
Effective Instruction and Curriculum for Students with Severe Disabilities I

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers commercially available curricular materials, as well as how to plan, design, and implement explicit instruction for persons with severe disabilities.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Registration Restrictions
Admission to Teacher Education and Special Education

Course Learning Objectives

Course Learning Outcomes

1. Students will design and justify a structured special education classroom environment—including physical layout, routines, and systems—that supports engagement, safety, and independence for students with complex support needs.
2. Students will design and deliver explicit instruction lessons that include goals, review, modeling, guided practice, independent practice, maintenance and generalization.
3. Students will plan and implement instructional lessons that incorporate evidence-based practices (including story-based instruction, adapted materials, and emergent literacy strategies) to meet the diverse backgrounds, strengths, and needs of learners.

4. Students will develop, adapt, and deliver Language Arts lessons (e.g., sight word instruction, emergent reading/writing, language comprehension) that build on pupils' prior knowledge and experiences and provide multiple pathways for demonstrating learning.

SPED5512 - Effective Instruction and Curriculum for Students with Severe Disabilities II - 3 - Credits

Course Overview

Course Prefix
SPED

Course Number
5512

Department
Special Education & Rehab Counseling

Course Title
Effective Instruction and Curriculum for Students with Severe Disabilities II

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers adapting and implementing additional commercially available curricular materials and functional academics using explicit instruction for persons with severe disabilities.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Admission to Teacher Education and Special Education

Course Learning Objectives

Course Learning Outcomes

1. Upon completion of this course, each student will be able to:
   Plan instruction that addresses individual differences for students with CSN
2. Apply Universal Design for Learning (UDL) within lesson planning
3. Develop strategies to overcome barriers to learning for individual students
4. Collaborate with general educators, related service providers, and families to create accessible learning environments that are meaningful for students

5. Demonstrate effective communication strategies to support student learning
6. Integrate technology to enhance content accessibility
7. Plan lessons with general educators using UDL principles
8. Coordinate with related service providers and families to fully engage students in learning
9. Demonstrate content knowledge and instructional methods to provide access to literacy, mathematics, science, and social studies for elementary and secondary students with CSN
10. Align and adapt state academic content standards to plan instruction for students with CSN
11. Apply evidence-based and research-based instructional strategies in lesson planning
12. Design and create adapted materials that augment general curriculum content
13. Implement assessment and instructional strategies to promote academic and functional progress for students with CSN
14. Plan and deliver academic and functional lessons for a student with CSN
    Use data to evaluate instructional effectiveness and inform instructional decision-making

SPED5520 - Curriculum and Assessment for Students with Severe Disabilities II - 3 - Credits

Course Overview

Course Prefix
SPED

Course Number
5520

Department
Special Education & Rehab Counseling

Course Title
Curriculum and Assessment for Students with Severe Disabilities II

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers additional teaching curricula content and assessment for making data-based decisions for persons with significant cognitive disabilities.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Admission to Teacher Education and Special Education

Course Learning Objectives

Course Learning Outcomes
Upon completion of this course, each student will be able to:

1. Plan instruction that addresses individual differences for students with CSN
2. Apply Universal Design for Learning (UDL) within lesson planning
3. Develop strategies to overcome barriers to learning for individual students
4. Collaborate with general educators, related service providers, and families to create accessible learning environments that are meaningful for students
5. Demonstrate effective communication strategies to support student learning

6. Integrate technology to enhance content accessibility
7. Plan lessons with general educators using UDL principles
8. Coordinate with related service providers and families to fully engage students in learning
9. Demonstrate content knowledge and instructional methods to provide access to literacy, mathematics, science, and social studies for elementary and secondary students with CSN
10. Align and adapt state academic content standards to plan instruction for students with CSN
11. Apply evidence-based and research-based instructional strategies in lesson planning
12. Design and create adapted materials that augment general curriculum content
13. Implement assessment and instructional strategies to promote academic and functional progress for students with CSN
14. Plan and deliver academic and functional lessons for a student with CSN
15. Use data to evaluate instructional effectiveness and inform instructional decision-making

SPED5530 - Family/Professional Collaboration and Technology for Teaching Exceptional Learners - 3 - Credits

Course Overview

Course Prefix
SPED

Course Number
5530

Department
Special Education & Rehab Counseling

Course Title
Family/Professional Collaboration and Technology for Teaching Exceptional Learners

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides strategies for communication, developing partnerships, and problem solving with parents and school professionals. This course familiarizes students with technology (IT and AT), federal/state technology legislation, resources to fund technology, and assessment of the technology needs of students.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Admission to Teacher Education and Special Education

Course Learning Objectives

Course Learning Outcomes
1. Students will use effective communication, collaboration, and problem-solving processes to engage families, general educators, related service providers, paraprofessionals, and other professionals in planning, implementing, and evaluating supports for students with disabilities.
2. Students will accurately model and apply the AT consideration, referral, and assessment process.
3. Students will develop AT plans aligned with IEP goals, including selecting tools, defining implementation procedures, determining progress-monitoring methods, and specifying the responsibilities of team members.
4. Students will implement AT tools in simulated or real classroom settings and

evaluate their impact on student access, engagement, participation, communication, or academic outcomes. Students will adjust tools, supports, or environments based on data and student responsiveness.

SPED5600 - Practicum I Severe - 3 - Credits

Course Overview

Course Prefix
SPED

Course Number
5600

Department
Special Education & Rehab Counseling

Course Title
Practicum I Severe

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides field-based opportunities to implement explicit instruction, use research-based curricula, provide academic interventions, and data-based individualization for students with significant cognitive disabilities in elementary or secondary school settings.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Registration Restrictions
Admission to Teacher Education and Special Education

Course Learning Objectives

Course Learning Outcomes
1. Design explicit instruction lessons that support students with complex support needs in functional skills.
2. Implement scripted explicit instruction lessons including error correction in academic areas.
3. Develop and implement a classroom management plan that promotes a consistent, organized, and respectful learning environment.
4. Apply effective strategies to actively engage students and provide meaningful feedback that supports academic and behavioral growth.
5. Critically evaluate their own teaching practices and formulate actionable plans for continuous improvement.
6. Provided feedback on instruction to peer for experience in managing staff in a classroom.

SPED5610 - Practicum II Severe - 2 - 3 Credits

Course Overview

Course Prefix
SPED

Course Number
5610

Department
Special Education & Rehab Counseling

Course Title
Practicum II Severe

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides field-based opportunities to implement explicit instruction, use research-based curricula, provide academic & daily living interventions, and data-based individualization for students with significant cognitive disabilities in elementary or secondary school settings.

Credit Hours

Credit Hours Min:
2

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
2

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
2

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
2

Lecture Hours Max:
3

Lecture Hours Operator:
TO

Registration Restrictions
Admission to Teacher Education and Special Education

Course Learning Objectives

Course Learning Outcomes
1. Provide explicit and systematic instruction within content areas to students with complex support needs.
2. Use effective strategies to engage students and provide feedback on learning and behavior within content areas.
3. Critically evaluate teaching practices to plan and implement improvements.
4. Use assessment data to analyze instructional practices and make informed adjustments that improve student outcomes.
5. Adapt curriculum tasks and materials to address specific learning goals.
6. Develop and implement a classroom management plan that promotes a consistent, organized, and respectful learning environment.
7. Design and apply classroom routines and setup options that support positive behavior and efficient instruction.

SPED5615 - Practicum I for Severe Disabilities - 3 - Credits

Course Overview

Course Prefix
SPED

Course Number
5615

Department
Special Education & Rehab Counseling

Course Title
Practicum I for Severe Disabilities

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students learn to implement explicit instruction, use research-based curricula, individualized academic interventions, implement positive classroom management, and data-based decision-making to teach children with severe disabilities. Students complete course requirements in elementary or secondary school placements.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Registration Restrictions
Admission to Teacher Education and Special Education

Course Learning Objectives

Course Learning Outcomes

1. Students will plan, deliver, and evaluate explicit and systematic instruction that includes clear learning intentions, modeling, guided practice, independent practice, and progress monitoring, while differentiating instruction to meet the diverse needs of learners with complex support needs.
2. Students will implement a management plan that promotes predictable routines, reinforces positive behavior, and fosters respectful relationships, while applying evidence-based practices and maintaining safety and consistency.
3. Students will deliver a variety of instructional strategies and engagement techniques—including active learning, real-world connections, and responsive feedback—to promote participation, understanding, and skill development for students with complex support needs.
4. Students will critically analyze their teaching performance using observation data, mentor/supervisor feedback, and self-evaluations, and will identify specific goals and strategies for improvement in future instruction

SPED5625 - Practicum II for Severe Disabilities - 3 - Credits

Course Overview

Course Prefix
SPED

Course Number
5625

Department
Special Education & Rehab Counseling

Course Title
Practicum II for Severe Disabilities

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students learn to prepare and implement explicit instruction, individualized academic interventions, continue to implement positive classroom management, and extend skills of data-based decision-making to teach children with severe disabilities. Students complete course requirements in elementary or secondary school placements.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Registration Restrictions

Admission to Teacher Education and Special Education

Course Learning Objectives

Course Learning Outcomes

1. Students will plan and deliver explicit and systematic instruction in core content areas using clear learning objectives aligned to Core Standards and Essential Elements and will implement evidence-based practices with fidelity.
2. Students will implement a variety of instructional and engagement strategies and provide meaningful academic and behavioral feedback to promote active participation and improved student performance in lessons.
3. Students will analyze their instructional performance using observation notes, self-evaluations, mentor/supervisor feedback, and student outcomes, and set targeted goals for ongoing improvement and professional learning.
4. Students will collect, interpret, and graph student assessment data (including progress-monitoring and data-based interventions) and use these data to adjust instructional strategies to improve learner performance in content-area skills

SPED5710 - Young Children with Disabilities: Characteristics and Services - 3 - Credits

Course Overview

Course Prefix
SPED

Course Number
5710

Department
Special Education & Rehab Counseling

Course Title
Young Children with Disabilities: Characteristics and Services

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers theories of child development: how family systems, risk and resilience, and disability impact the development of young children. The course covers skills in researching evidence-based practices that support families and young children with disabilities.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Registration Restrictions
Admission to Teacher Education and Special Education

Course Learning Objectives

Course Learning Outcomes
As a result of active participation and successful completion of course requirements, students will:

1. Understand theories of typical and atypical early childhood development, and recognize that infants and young children develop and learn at varying rates.
2. Describe the historical, philosophical foundations and legal basis of services for infants and young children both with and without exceptional needs
3. Discuss trends and issues in early childhood education, early childhood special education, and early intervention
4. Describe models and strategies of consultation and collaboration
5. Discuss biological and environmental factors that affect pre-, peri-, and postnatal development and learning
6. Describe the impact of child's abilities, needs, and characteristics on development and learning
7. Describe specific disabilities, including the etiology, characteristics, and classification of common disabilities in infants and young children, and specific implications for development and learning in the first years of life
8. Implement family-oriented services based on the family's identified resources, priorities, and concerns
9. Discuss the impact of medical conditions and related care on development and learning and on family concerns, resources, and priorities
10. Identify the factors that affect the mental health and social-emotional development of infants and young children
11. Recognize signs of emotional distress, neglect, and abuse, and follow reporting procedures
12. Learn evidence-based and DEC recommended practices to apply with infants and young children, including those from diverse backgrounds
13. Identify culturally-responsive factors that promote effective communication and collaboration with individuals with exceptionalities, families, school personnel, and community members

SPED5711 - Introduction to Instruction for Preschoolers with Disabilities - 3 - Credits

Course Overview

Course Prefix
SPED

Course Number
5711

Department
Special Education & Rehab Counseling

Course Title
Introduction to Instruction for Preschoolers with Disabilities

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides information on instructional strategies, curricula, progress monitoring of children's IEP goals, service environments, and staffing roles for preschool special education teachers.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Admission Teacher Education and Special Education

SPED5713 - Early Intervention: Services for Infants and Families - 3 - Credits

Course Overview

Course Prefix
SPED

Course Number
5713

Department
Special Education & Rehab Counseling

Course Title
Early Intervention: Services for Infants and Families

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers awareness of how the presence of a child with a disability affects family functioning. It reviews practices in services to infants and toddlers and their families, infant development, and medical, health, and safety issues. Students participate with families and early interventionists in homes.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Admission to Teacher Education and Special Education

Course Learning Objectives

Course Learning Outcomes

As a result of active participation and successful completion of course requirements, students will:

1. Describe the due process procedures of a family of a child with a disability or at risk of a disability under Part C of IDEA, including evaluation, eligibility, assessment, IFSP, and transition.
2. Complete a family-directed assessment (Routines-Based Interview) with high fidelity (80%), focusing on the young child's participation, independence, and interactions within naturally occurring routines.
3. In collaboration with caregivers, produce functional outcomes based on assessment information that are non-biased and culturally responsive and can be implemented within natural routines.

4. Implement effective coaching practices using adult learning principles when working with families.
5. Describe effective coaching and adult learning procedures for working with teachers, peers, and other professionals.
6. Describe the benefits and limitations of various early intervention models (multi-disciplinary, trans-disciplinary, primary service provider.)
7. Communicate with professionals and families regarding assessment, IFSP outcomes, scheduling, and service coordination, using technology to enhance communication effectiveness while responding non-biasedly to individual family needs and priorities.
8. Identify local formal and informal resources available to support families with an identified challenge.

SPED5714 - Early Childhood Development and Social Competency: Implications for Intervention - 3 - Credits

Course Overview

Course Prefix
SPED

Course Number
5714

Department
Special Education & Rehab Counseling

Course Title
Early Childhood Development and Social Competency: Implications for Intervention

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course addresses how to use knowledge of typical early childhood development to inform instruction and program development for preschool children, with emphasis in communication and social/ emotional development.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Admission to Teacher Education and Special Education

Course Learning Objectives

Course Learning Outcomes
As a result of active participation and successful completion of course requirements, students will:

1. Understand theories of typical and atypical early childhood development and recognize that infants and young children develop and learn at varying rates.
2. Describe the historical, philosophical foundations and legal basis of services for infants and young children, both with and without exceptional needs.

3. Discuss trends and issues in early childhood education, early childhood special education, and early intervention
4. Describe models and strategies of consultation and collaboration
5. Discuss biological and environmental factors that affect pre-, peri-, and postnatal development and learning
6. Describe the impact of a child's abilities, needs, and characteristics on development and learning
7. Describe specific disabilities, including the etiology, characteristics, and classification of common disabilities in infants and young children and specific implications for development and learning in the first years of life
8. Implement family-oriented services based on the family's identified resources, priorities, and concerns
9. Discuss the impact of medical conditions and related care on development and learning and family concerns, resources, and priorities
10. Identify the factors that affect the mental health and social-emotional development of infants and young children
11. Recognize signs of emotional distress, neglect, and abuse, and follow reporting procedures
12. Learn evidence-based and DEC-recommended practices to apply with infants and young children, including those from diverse backgrounds
13. Identify culturally responsive factors that promote effective communication and collaboration with individuals with exceptionalities, families, school personnel, and community members

SPED5715 - Practicum I: Birth to Five Special Education - 2 - Credits

Course Overview

Course Prefix
SPED

Course Number
5715

Department
Special Education & Rehab Counseling

Course Title
Practicum I: Birth to Five Special Education

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students participate in environments serving preschoolers with disabilities, working with individuals and groups of children, designing instruction, and monitoring student progress.

Credit Hours

Credit Hours Min:
2

Contact Hours

Contact Hours Min:
2

Billing Hours

Billing Hours Min:
2

Lecture Hours

Lecture Hours Min:
2

Registration Restrictions
Admission to Teacher Education and Special Education

Course Learning Objectives

Course Learning Outcomes
1. Select, develop, and evaluate developmentally appropriate materials, equipment, and environments and plan, implement, and evaluate developmentally appropriate curricula, instruction, and adaptations based on knowledge of individual children, the family, and the community.
2. Embed learning opportunities in everyday routines, relationships, activities, and places, and use teacher-scaffolded and initiated instruction to complement child-initiated learning.
3. Produce reports that focus on developmental domains and functional concerns.
4. Structure social environments, using peer models and proximity, and responsive adults, to promote interactions among peers, parents, and caregivers.
5. Use a continuum of intervention strategies to support access of young children in the general curriculum and daily routines, implement developmentally and functionally appropriate activities, using a variety of formats, based on systematic

instruction, Align individualized goals with developmental and academic content, and Make adaptations for the unique developmental and learning needs of children, including those from diverse backgrounds.
6. Gather information from multiple sources and environments, Use a variety of materials and contexts to maintain the interest of infants and young children in the assessment process, and Participate as a team member to integrate assessment results in the development and implementation of individualized plans.

SPED5725 - Practicum II: Birth to Five Special Education - 2 - Credits

Course Overview

Course Prefix
SPED

Course Number
5725

Department
Special Education & Rehab Counseling

Course Title
Practicum II: Birth to Five Special Education

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students participate in environments serving preschoolers with disabilities, working with individuals and groups of children, designing instruction, and monitoring student progress. In addition, students will practice skills necessary for success in an itinerant model of early childhood special education.

Credit Hours

Credit Hours Min:
2

Contact Hours

Contact Hours Min:
2

Billing Hours

Billing Hours Min:
2

Lecture Hours

Lecture Hours Min:
2

Registration Restrictions
Admission to Teacher Education and Special Education

Course Learning Objectives

Course Learning Outcomes
1. Select, develop, and evaluate developmentally appropriate materials, equipment, and environments and plan, implement, and evaluate developmentally appropriate curricula, instruction, and adaptations based on knowledge of individual children, the family, and the community.
2. Embed learning opportunities in everyday routines, relationships, activities, and places, and use teacher-scaffolded and initiated instruction to complement child-initiated learning.
3. Produce reports that focus on developmental domains and functional concerns.
4. Structure social environments, using peer models and proximity, and responsive adults, to promote interactions among peers, parents, and caregivers.
5. Use a continuum of intervention strategies to support access of young children in the general curriculum and daily routines, implement developmentally and

functionally appropriate activities, using a variety of formats, based on systematic instruction, Align individualized goals with developmental and academic content, and Make adaptations for the unique developmental and learning needs of children, including those from diverse backgrounds.
6. Gather information from multiple sources and environments, Use a variety of materials and contexts to maintain the interest of infants and young children in the assessment process, and Participate as a team member to integrate assessment results in the development and implementation of individualized plans.
7. Provide consultation and coaching in settings serving young children, and conduct ongoing formative child assessment to monitor instructional effectiveness.
8. Participate as a team member to identify and enhance team roles, communication, and problem-solving, and employ adult learning principles in consulting with and coaching family members and service providers.

SPED5730 - Intervention Strategies for Young Children with Disabilities - 3 - Credits

Course Overview

Course Prefix
SPED

Course Number
5730

Department
Special Education & Rehab Counseling

Course Title
Intervention Strategies for Young Children with Disabilities

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides information on curricula, instructional strategies, service environments, and staffing roles for teachers of young children (0-5) with disabilities.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Registration Restrictions
Admission to Teacher Education and Special Education

Course Learning Objectives

Course Learning Outcomes

1. Assess student progress and plan for implementation of developmental supports in natural settings for young children with disabilities across developmental domains (e.g., language, social, and play skills)
2. Appraise early childhood curricula and observe early childhood settings to identify components of the classroom environment that support inclusion of all children
3. Recognize the role of early childhood special educators in collaborating with other adults (e.g., parents, childcare providers, related service providers, and community members) who support young children with disabilities across environments and over time

4. Describe best practices in working with children and families from culturally and linguistically diverse backgrounds

SPED5790 - Special Topics - 1 - 4 Credits

Course Overview

Course Prefix
SPED

Course Number
5790

Department
Special Education & Rehab Counseling

Course Title
Special Topics

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course consists of additional readings or research done beyond the material covered in other courses.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
4

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
4

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
4

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
4

Lecture Hours Operator:
TO

Special Approval
Instructor permission

SPED5810 - Seminar and Field Experiences with Infants and Families - 4 - Credits

Course Overview

Course Prefix
SPED

Course Number
5810

Department
Special Education & Rehab Counseling

Course Title
Seminar and Field Experiences with Infants and Families

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course prepares individuals for early intervention service coordination, family coaching, and implementation of developmental supports in natural settings for young children with disabilities. Students participate, both in the home and early intervention settings, with families having infants with disabilities.

Credit Hours

Credit Hours Min:
4

Contact Hours

Contact Hours Min:
4

Billing Hours

Billing Hours Min:
4

Lecture Hours

Lecture Hours Min:
4

Registration Restrictions
Admission to Teacher Education and Special Education

Course Learning Objectives

Course Learning Outcomes
As a result of active participation and successful completion of course requirements, students will:

1. Describe the due process procedures of a family of a child with a disability or at risk of a disability under Part C of IDEA, including evaluation, eligibility, assessment, IFSP, and transition.
2. Complete a family-directed assessment (Routines-Based Interview) with high fidelity (80%), focusing on the young child's participation, independence, and interactions within naturally occurring routines.
3. In collaboration with caregivers, produce functional outcomes based on assessment information that are non-biased and culturally responsive and can be implemented within natural routines.

4. Implement effective coaching practices using adult learning principles when working with families.
5. Describe effective coaching and adult learning procedures for working with teachers, peers, and other professionals.
6. Describe the benefits and limitations of various early intervention models (multi-disciplinary, trans-disciplinary, primary service provider.)
7. Communicate with professionals and families regarding assessment, IFSP outcomes, scheduling, and service coordination, using technology to enhance communication effectiveness while responding non-biasedly to individual family needs and priorities.
8. Identify local formal and informal resources available to support families with an identified challenge.

SPED5820 - Preschool Practicum with Young Children with Disabilities in Community Environments - 2 - 3 Credits

Course Overview

Course Prefix
SPED

Course Number
5820

Department
Special Education & Rehab Counseling

Course Title
Preschool Practicum with Young Children with Disabilities in Community Environments

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students participate in a variety of environments serving preschoolers with disabilities. Students will work with caregivers and teachers to design and implement interventions based on assessment data.

Credit Hours

Credit Hours Min:
2

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
2

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
2

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
2

Lecture Hours Max:
3

Lecture Hours Operator:
TO

Registration Restrictions
Admission to Teacher Education and Special Education

Course Learning Objectives

Course Learning Outcomes

1. Select, develop, and evaluate developmentally appropriate materials, equipment, and environments and plan, implement, and evaluate developmentally appropriate curricula, instruction, and adaptations based on knowledge of individual children, the family, and the community (EI/ECSE 5.2)
2. Embed learning opportunities in everyday routines, relationships, activities, and places, and use teacher-scaffolded and initiated instruction to complement child-initiated learning (EI/ECSE 6.1, 6.3)
3. Produce reports that focus on developmental domains and functional concerns (EI/ECSE 4.3)
   Structure social environments, using peer models and proximity, and responsive adults, to promote
4. interactions among peers, parents, and caregivers (EI/ECSE 6.4, 6.5)
5. Use a continuum of intervention strategies to support access of young children in the general curriculum and daily routines, implement developmentally and functionally appropriate activities, using a variety of formats, based on systematic instruction; Align individualized goals with developmental and academic content; and Make adaptations for the unique developmental and learning needs of children, including those from diverse backgrounds (EI/ECSE 6.6)
6. Gather information from multiple sources and environments; Use a variety of materials and contexts to maintain the interest of infants and young children in the assessment process; and Participate as a team member to integrate assessment results in the development and implementation of individualized plans; (EI/ECSE 4.1, 4.2)
7. Provide consultation and coaching in settings serving young children, and conduct ongoing formative child assessment to monitor instructional effectiveness (EI/ECSE 3.1 3.2)
8. Participate as a team member to identify and enhance team roles, communication, and problem-solving, and employ adult learning principles in consulting with and coaching family members and service providers (EI/ECSE 3.1 3.2)

SPED5840 - Practicum: Working with Young Children with Autism - 1 - Credits

Course Overview

Course Prefix
SPED

Course Number
5840

Department
Special Education & Rehab Counseling

Course Title
Practicum: Working with Young Children with Autism

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
This course provides majors with an opportunity to practice ABA strategies with young children with autism.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Registration Restrictions
Admission to Teacher Education and Special Education

Course Learning Objectives

Course Learning Outcomes

1. Implement instructional strategies (i.e., Discrete Trial Teaching, activity schedules) with proficiency across two young children on the autism spectrum.
2. Demonstrate skills and competency in behavior management techniques for young children on the autism spectrum.
3. Identify the importance of using assessments and data to make programming/intervention decisions.
   Utilize student-specific information to write a monthly progress report with minimal revisions.
4. Recognize the importance of communication with parents/family and reflect on strategies used in home.

5. Use resources to create functional digital materials for young children on the autism spectrum.
6. Describe characteristics of autism spectrum disorder and related intervention techniques.
7. Reflect on how to incorporate instructional strategies into other settings.

SPED5900 - Independent Study - 1 - 3 Credits

Course Overview

Course Prefix
SPED

Course Number
5900

Department
Special Education & Rehab Counseling

Course Title
Independent Study

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
This course allows undergraduate students to pursue personal research interests by formalizing an independent project under the guidance of a professor or faculty mentor.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

Special Approval

Instructor permission

No Requirements

SPED5920 - Internship in Early Intervention - 1 - 3 Credits

Course Overview

Course Prefix
SPED

Course Number
5920

Department
Special Education & Rehab Counseling

Course Title
Internship in Early Intervention

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
This course is an internship with an early intervention agency. Students schedule observations, work on their individualized coaching plan, and complete other shadowing and demonstration activities necessary for obtaining a BWEIP credential.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Earn a minimum grade of B- in the following:

- SPED5710 - Young Children with Disabilities: Characteristics and Services
- SPED5810 - Seminar and Field Experiences with Infants and Families

SPED5930 - Special Education International Teaching and Service - 3 - Credits

Course Overview

Course Prefix
SPED

Course Number
5930

Department
Special Education & Rehab Counseling

Course Title
Special Education International Teaching and Service

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
This course introduces students to the history and practices regarding education, societal perceptions, and family members' goals for individuals with disabilities in an international context.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Special Approval

Instructor permission

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Develop an understanding of international culture, customs, and values, with a specific focus on how these factors influence attitudes and practices related to special education.
2. Demonstrate cultural competence by interacting respectfully with individuals with disabilities, their families, educators, and community members in countries outside of the United States of America.
3. Gain practical experience in international educational systems, including teaching, training, observing, and participating in adapting/modifying instructional materials and methods to meet the diverse needs of people with disabilities in international schools and communities.
4. Collaborate with international educators, families, and community members to develop and implement inclusive education initiatives or projects that promote the inclusion of people with disabilities.

SPED6060 - Legal Issues in Special Education - 3 - Credits

Course Overview

Course Prefix
SPED

Course Number
6060

Department
Special Education & Rehab Counseling

Course Title
Legal Issues in Special Education

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Provides knowledge of a wide range of legal issues concerning the provision of special education services to students with disabilities.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

SPED6100 - Introduction to Blindness and Visual Impairment - 3 - Credits

Course Overview

Course Prefix
SPED

Course Number
6100

Department
Special Education & Rehab Counseling

Course Title
Introduction to Blindness and Visual Impairment

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course explores the learning characteristics and needs of children and youth (preschool through high school) who are blind or visually impaired, as well as educational settings they are in and professionals who serve them.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

SPED6101 - The Human Eye and Visual System - 3 - Credits

Course Overview

Course Prefix
SPED

Course Number
6101

Department
Special Education & Rehab Counseling

Course Title
The Human Eye and Visual System

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers the structure and function of the human eye and visual system. It addresses the most common eye conditions causing visual impairment in children and youth, along with their implications and treatment. Students explore the role of eye care specialists.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

SPED6102 - Introduction to Low Vision - 3 - Credits

Course Overview

Course Prefix
SPED

Course Number
6102

Department
Special Education & Rehab Counseling

Course Title
Introduction to Low Vision

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This introduction to the needs of students having low vision includes methods of adapting materials, activities, and environment to better meet learning needs of these students. Students train in the use of low-vision aids and explore the role of professionals and their services.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

SPED6103 - The Role of Paraeducators with Individuals Who are Blind or Visually Impaired - 3 - Credits

Course Overview

Course Prefix
SPED

Course Number
6103

Department
Special Education & Rehab Counseling

Course Title
The Role of Paraeducators with Individuals Who are Blind or Visually Impaired

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course addresses the roles and responsibilities of paraeducators who work in educational settings with children and youth who are blind or visually impaired. It covers the role of the educational team, as well as how the paraeducator functions as part of that team.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

SPED6104 - Introduction to Multiple Disabilities - 3 - Credits

Course Overview

Course Prefix
SPED

Course Number
6104

Department
Special Education & Rehab Counseling

Course Title
Introduction to Multiple Disabilities

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course presents introductory information about various disabilities, including those associated with sensory losses. It covers neurological issues related to brain development and learning, and addresses communication issues and strategies for working with individuals having multiple disabilities and sensory loss.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

SPED6105 - Introduction to Braille - 3 - Credits

Course Overview

Course Prefix
SPED

Course Number
6105

Department
Special Education & Rehab Counseling

Course Title
Introduction to Braille

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This is an introduction to braille literacy, as well as braille codes, software, and technology used to produce braille. It teaches students how to read and write uncontracted braille using a slate and stylus and a braille writer (actual or simulated).

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

SPED6201 - Blind/Visually Impaired Seminar: VIISA Trainers Training - 0.5 - 3 Credits

Course Overview

Course Prefix
SPED

Course Number
6201

Department
Special Education & Rehab Counseling

Course Title
Blind/Visually Impaired Seminar: VIISA Trainers Training

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course consists of special colloquial offerings in communicative disorders and deaf education.

Credit Hours

Credit Hours Min:
0.5

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
0.5

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
0.5

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
0.5

Lecture Hours Max:
3

Lecture Hours Operator:
TO

No Requirements

SPED6203 - Multiple Disabilities Seminar: INSITE Trainers Training - 0.5 - 3 Credits

Course Overview

Course Prefix
SPED

Course Number
6203

Department
Special Education & Rehab Counseling

Course Title
Multiple Disabilities Seminar: INSITE Trainers Training

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course consists of special colloquial offerings in communicative disorders and deaf education.

Credit Hours

Credit Hours Min:
0.5

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
0.5

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
0.5

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
0.5

Lecture Hours Max:
3

Lecture Hours Operator:
TO

No Requirements

SPED6204 - Deaf/Hard-of-Hearing Seminar: SKI*HI Trainers Training - 0.5 - 3 Credits

Course Overview

Course Prefix
SPED

Course Number
6204

Department
Special Education & Rehab Counseling

Course Title
Deaf/Hard-of-Hearing Seminar: SKI*HI Trainers Training

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course consists of special colloquial offerings in deaf education.

Credit Hours

Credit Hours Min:
0.5

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
0.5

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
0.5

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
0.5

Lecture Hours Max:
3

Lecture Hours Operator:
TO

No Requirements

SPED6300 - Effective Practices with Culturally and Linguistically Diverse Populations - 3 - Credits

Course Overview

Course Prefix
SPED

Course Number
6300

Department
Special Education & Rehab Counseling

Course Title
Effective Practices with Culturally and Linguistically Diverse Populations

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students will learn evidence-based evaluation and intervention practices with culturally and linguistically diverse (CLD) populations. Bilingual development, working with CLD families and the impact of culture on development will also be covered.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

SPED6320 - Seminars in Learning Characteristics of Students with Dual Sensory Impairments - 2 - Credits

Course Overview

Course Prefix
SPED

Course Number
6320

Department
Special Education & Rehab Counseling

Course Title
Seminars in Learning Characteristics of Students with Dual Sensory Impairments

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Investigates characteristics of dual sensory impairment, learning styles, and environmental demands. Awareness of eye and ear anatomy. Interpretation of formal assessments. Development of instructional strategies.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

No Requirements

SPED6410 - Field Studies I: Analysis of Service for Students with Dual Sensory Impairments - 2 - Credits

Course Overview

Course Prefix
SPED

Course Number
6410

Department
Special Education & Rehab Counseling

Course Title
Field Studies I: Analysis of Service for Students with Dual Sensory Impairments

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
First of three field experiences for students in the DSI program. Emphasizes team-based review and analysis of services.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

No Requirements

SPED6420 - Field Studies II: Analysis of Service for Students with Dual Sensory Impairments - 2 - Credits

Course Overview

Course Prefix
SPED

Course Number
6420

Department
Special Education & Rehab Counseling

Course Title
Field Studies II: Analysis of Service for Students with Dual Sensory Impairments

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Practicum in integrated programs for students with dual sensory impairments within the context of the model classroom. Emphasizes transdisciplinary methods for assessment, instructional design, and planning skills.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

No Requirements

SPED6430 - Field Studies III: Analysis of Service for Students with Dual Sensory Impairments - 2 - Credits

Course Overview

Course Prefix
SPED

Course Number
6430

Department
Special Education & Rehab Counseling

Course Title
Field Studies III: Analysis of Service for Students with Dual Sensory Impairments

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Advanced practicum in integrated programs for students with dual sensory impairments. Emphasizes an overall management of instructional environment and services.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

No Requirements

SPED6550 - Practicum in the Evaluation of Instruction - 1 - 4 Credits

Course Overview

Course Prefix
SPED

Course Number
6550

Department
Special Education & Rehab Counseling

Course Title
Practicum in the Evaluation of Instruction

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Field-based research course contributing toward graduate degrees and supervisory licensure related to the assessment of an ongoing or newly proposed program of instruction.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
4

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
4

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
4

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
4

Lecture Hours Operator:
TO

No Requirements

SPED6560 - Improvement of Instruction - 1 - 4 Credits

Course Overview

Course Prefix
SPED

Course Number
6560

Department
Special Education & Rehab Counseling

Course Title
Improvement of Instruction

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Focuses on effective teaching methodologies, teaching performance, and curriculum decision making.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
4

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
4

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
4

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
4

Lecture Hours Operator:
TO

No Requirements

SPED6700 - Introduction to Behavioral Research in Education - 3 - Credits

Course Overview

Course Prefix
SPED

Course Number
6700

Department
Special Education & Rehab Counseling

Course Title
Introduction to Behavioral Research in Education

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Provides an introduction to behavioral research in education, with a special focus on measurement, observation, and ethics. Discussion of basic single-subject experimental designs. Exploration of how to select appropriate measures and experimental designs.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

SPED6710 - Concepts and Principles of Behavior Analysis in Education - 3 - Credits

Course Overview

Course Prefix
SPED

Course Number
6710

Department
Special Education & Rehab Counseling

Course Title
Concepts and Principles of Behavior Analysis in Education

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Expands students' understanding of the theoretical and conceptual framework and experimental research of behavior analysis. Reviews philosophical underpinnings and experimental research in behavior analysis.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

SPED6720 - Educational Applications of Behavior Analysis I - 3 - Credits

Course Overview

Course Prefix
SPED

Course Number
6720

Department
Special Education & Rehab Counseling

Course Title
Educational Applications of Behavior Analysis I

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Expands students' understanding of behavior analysis, as well as their ability to apply behavior analysis to practical situations.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- SPED6700 - Introduction to Behavioral Research in Education

SPED6730 - Educational Applications of Behavior Analysis II - 3 - Credits

Course Overview

Course Prefix
SPED

Course Number
6730

Department
Special Education & Rehab Counseling

Course Title
Educational Applications of Behavior Analysis II

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Provides advanced instruction in educational applications of behavior analysis, including assessment and treatment of problem behavior and learning strategies.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- SPED6720 - Educational Applications of Behavior Analysis I

SPED6740 - Development & Proposal of Individual Student Master's Project - 3 - Credits

Course Overview

Course Prefix
SPED

Course Number
6740

Department
Special Education & Rehab Counseling

Course Title
Development & Proposal of Individual Student Master's Project

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course helps students develop competency in analyzing single-subject research and produce a written proposal describing research to be carried out in a master's thesis or project.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- SPED6720 - Educational Applications of Behavior Analysis I

SPED6750 - Supervised Practicum in Applied Behavior Analysis - 1 - 3 Credits

Course Overview

Course Prefix
SPED

Course Number
6750

Department
Special Education & Rehab Counseling

Course Title
Supervised Practicum in Applied Behavior Analysis

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
Through this supervised practicum, students accrue supervised hours in applied behavior analysis.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- SPED6700 - Introduction to Behavioral Research in Education

SPED6760 - Supervised Practicum in Applied Behavior Analysis: Seminar - 2 - Credits

Course Overview

Course Prefix
SPED

Course Number
6760

Department
Special Education & Rehab Counseling

Course Title
Supervised Practicum in Applied Behavior Analysis: Seminar

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This seminar is associated with the practicum in which students receive clinical supervision in applied behavior analysis and should be take in association with SPED 6750.

Credit Hours

Credit Hours Min:
2

Contact Hours

Contact Hours Min:
2

Billing Hours

Billing Hours Min:
2

Lecture Hours

Lecture Hours Min:
2

No Requirements

SPED6770 - Coaching and Systems Change - 3 - Credits

Course Overview

Course Prefix
SPED

Course Number
6770

Department
Special Education & Rehab Counseling

Course Title
Coaching and Systems Change

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course will give students the skills to facilitate effective academic and behavior support across each tier of need in the school. Students will ascertain strategies in the assessment and intervention of schools, learn to create effective teaming and meeting structures to better support all students, and methods to provide support for individual teachers in their classrooms through evidence-based coaching and walkthrough practices.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

SPED6780 - Ethics & Professional Behavior in Behavior Analysis - 3 - Credits

Course Overview

Course Prefix
SPED

Course Number
6780

Department
Special Education & Rehab Counseling

Course Title
Ethics & Professional Behavior in Behavior Analysis

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
The purpose of this course is to provide students with instruction and practice in the areas of ethics and professional behavior in the field of behavior analysis.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

SPED6790 - Special Topics - 1 - 4 Credits

Course Overview

Course Prefix
SPED

Course Number
6790

Department
Special Education & Rehab Counseling

Cross-Listed Courses
REH6790 - Special Topics

Course Title
Special Topics

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This is an in-depth study of targeted topics related to special education and/or rehabilitation counseling.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
4

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
4

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
4

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
4

Lecture Hours Operator:
TO

No Requirements

SPED6810 - Seminar in Special Education - 1 - 3 Credits

Course Overview

Course Prefix
SPED

Course Number
6810

Department
Special Education & Rehab Counseling

Course Title
Seminar in Special Education

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course provides a focused study of selected topics.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

No Requirements

SPED6900 - Independent Study - 1 - 3 Credits

Course Overview

Course Prefix
SPED

Course Number
6900

Department
Special Education & Rehab Counseling

Course Title
Independent Study

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
This course allows undergraduate students to pursue personal research interests by formalizing an independent project under the guidance of a professor or faculty mentor.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

Special Approval
Instructor permission

No Requirements

SPED6910 - Independent Research - 1 - 3 Credits

Course Overview

Course Prefix
SPED

Course Number
6910

Department
Special Education & Rehab Counseling

Course Title
Independent Research

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
This course allows undergraduate students to pursue personal research interests by formalizing an independent project under the guidance of a professor or faculty mentor.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

Special Approval

Instructor permission

No Requirements

SPED6930 - Internship in Special Education - 2 - 10 Credits

Course Overview

Course Prefix
SPED

Course Number
6930

Department
Special Education & Rehab Counseling

Course Title
Internship in Special Education

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Professional and supervised intern experience for master's program.

Credit Hours

Credit Hours Min:
2

Credit Hours Max:
10

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
2

Contact Hours Max:
10

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
2

Billing Hours Max:
10

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
2

Lecture Hours Max:
10

Lecture Hours Operator:
TO

Special Approval

Instructor permission

No Requirements

SPED6960 - Creative Project - 1 - 6 Credits

Course Overview

Course Prefix
SPED

Course Number
6960

Department
Special Education & Rehab Counseling

Course Title
Creative Project

Grade Mode
Temporary Pass/Fail

Repeat Status
RP

Course Description
Culminating experience of MEd program.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
6

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
6

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
6

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
6

Lecture Hours Operator:
TO

Special Approval

Proposal approval by supervisory committee

No Requirements

SPED6970 - Thesis - 1 - 9 Credits

Course Overview

Course Prefix
SPED

Course Number
6970

Department
Special Education & Rehab Counseling

Course Title
Thesis

Grade Mode
Temporary Pass/Fail

Repeat Status
RP

Course Description
Culminating experience of MS program.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
9

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
9

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
9

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
9

Lecture Hours Operator:
TO

Registration Restrictions

Proposal approval by supervisory committee

Special Approval

Proposal approval by supervisory committee

No Requirements

SPED6990 - Continuing Graduate Advisement - 1 - 8 Credits

Course Overview

Course Prefix
SPED

Course Number
6990

Department
Special Education & Rehab Counseling

Course Title
Continuing Graduate Advisement

Grade Mode
Temporary Pass/Fail

Repeat Status
RP

Course Description
This course provides graduate students with continued support and advisement. It is usually taken following completion of all coursework required for the degree.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
8

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
8

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
8

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
8

Lecture Hours Operator:
TO

No Requirements

SPED7020 - Teaching in Disability Disciplines - 3 - Credits

Course Overview

Course Prefix
SPED

Course Number
7020

Department
Special Education & Rehab Counseling

Course Title
Teaching in Disability Disciplines

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides scholars with up-to-date, empirically-validated instructional practices, along with peer-focused collaboration and learning to develop and refine their specialized areas of expertise. Course instruction and assignments are applied to prepare students for future teaching and professional development responsibilities.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Course Learning Objectives

Course Learning Outcomes

Students will address the following:

1. Develop their teaching self-efficacy,
2. Design a course,
3. Deliver course instruction, and
4. Reflect and make data-based changes on instruction.

SPED7030 - Advanced Functional Assessment - 3 - Credits

Course Overview

Course Prefix
SPED

Course Number
7030

Department
Special Education & Rehab Counseling

Course Title
Advanced Functional Assessment

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides advanced knowledge in functional assessment, examining functional analysis, direct, and indirect assessments. Students study procedures, history, strengths, and limitations, then address interpretation, intervention strategies, and ethics through readings and discussions.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Course Learning Objectives

Course Learning Outcomes

1. Describe the historical development of the field of functional assessment.
2. Discuss the process of experimental functional analysis, including methodology, logic, and the potential operant functions of behavior. Describe key procedural variations of experimental functional analysis methods, including their strengths and limitations.
3. Describe the methods, variations, strengths, and limitations of direct assessment.
4. Describe the methods, variations, strengths, and limitations of indirect assessment.
5. Provide solutions to common limitations of each functional assessment method that may be context specific.
6. Discuss various intervention strategies for each potential behavior function.
7. Describe the ethical issues associated with functional assessment and ways to mitigate ethical concerns when conducting functional assessment.

SPED7040 - Literature Review - 1 - Credits

Course Overview

Course Prefix
SPED

Course Number
7040

Department
Special Education & Rehab Counseling

Course Title
Literature Review

Grade Mode
Pass/Fail

Repeat Status
NR

Course Description
Guided experience in conducting a comprehensive and systematic review of literature on a topic related to special education.

Credit Hours

Credit Hours Min:
1

Contact Hours

Contact Hours Min:
1

Billing Hours

Billing Hours Min:
1

Lecture Hours

Lecture Hours Min:
1

No Requirements

SPED7050 - Internship in Program Evaluation - 1 - 5 Credits

Course Overview

Course Prefix
SPED

Course Number
7050

Department
Special Education & Rehab Counseling

Course Title
Internship in Program Evaluation

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
Guided experience in evaluation of educational programs in schools, treatment centers, homes, and communities.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
5

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
5

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
5

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
5

Lecture Hours Operator:
TO

Special Approval
Instructor permission

No Requirements

SPED7060 - Research Internship - 1 - Credits

Course Overview

Course Prefix
SPED

Course Number
7060

Department
Special Education & Rehab Counseling

Course Title
Research Internship

Grade Mode
Temporary Pass/Fail

Repeat Status
RP

Course Description
Guided experience in conducting educational research.

Credit Hours

Credit Hours Min:
1

Contact Hours

Contact Hours Min:
1

Billing Hours

Billing Hours Min:
1

Lecture Hours

Lecture Hours Min:
1

Special Approval
Instructor permisison

No Requirements

SPED7070 - SPED Grant Writing Internship - 1 - 3 Credits

Course Overview

Course Prefix
SPED

Course Number
7070

Department
Special Education & Rehab Counseling

Course Title
SPED Grant Writing Internship

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
Guided experience in preparation of grant proposals.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

Special Approval
Instructor permission

No Requirements

SPED7080 - Writing for Publication - 1 - 3 Credits

Course Overview

Course Prefix
SPED

Course Number
7080

Department
Special Education & Rehab Counseling

Course Title
Writing for Publication

Grade Mode
Temporary Pass/Fail

Repeat Status
NR

Course Description
In-depth individualized experience in which the student chooses a topic area, then writes a scholarly manuscript which is submitted for publication in a peer-reviewed academic journal.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

No Requirements

SPED7090 - Conference Presentation - 1 - 3 Credits

Course Overview

Course Prefix
SPED

Course Number
7090

Department
Special Education & Rehab Counseling

Course Title
Conference Presentation

Grade Mode
Temporary Pass/Fail

Repeat Status
NR

Course Description
Individualized, supervised experience in which the student identifies an important topic and appropriate conference, and then makes a professional conference presentation.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

No Requirements

SPED7330 - Supervision Internship - 1 - 5 Credits

Course Overview

Course Prefix
SPED

Course Number
7330

Department
Special Education & Rehab Counseling

Course Title
Supervision Internship

Grade Mode
Temporary Pass/Fail

Repeat Status
RP

Course Description
Guided experience in supervising undergraduate and master's students during practica, student teaching, and other field experiences.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
5

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
5

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
5

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
5

Lecture Hours Operator:
TO

No Requirements

SPED7340 - College Teaching Internship - 1 - 3 Credits

Course Overview

Course Prefix
SPED

Course Number
7340

Department
Special Education & Rehab Counseling

Course Title
College Teaching Internship

Grade Mode
Temporary Pass/Fail

Repeat Status
RP

Course Description
Guided experience in teaching university courses.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

No Requirements

SPED7400 - Cultural and Linguistic Diversity and Disability - 3 - Credits

Course Overview

Course Prefix
SPED

Course Number
7400

Department
Special Education & Rehab Counseling

Course Title
Cultural and Linguistic Diversity and Disability

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Surveys major issues, topics, and perspectives related to the intersection of cultural/linguistic diversity and disability.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

SPED7420 - Systematic Literature Reviews - 3 - Credits

Course Overview

Course Prefix
SPED

Course Number
7420

Department
Special Education & Rehab Counseling

Course Title
Systematic Literature Reviews

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
In this course, students learn about different methods to conduct literature reviews and their current standards. The main focus of the class is on creating a protocol for a systematic literature review.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Doctoral standing

No Requirements

SPED7430 - Educational Neuroscience - 3 - Credits

Course Overview

Course Prefix
SPED

Course Number
7430

Department
Special Education & Rehab Counseling

Course Title
Educational Neuroscience

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This doctoral seminar focuses on the theoretical, conceptual, and methodological issues involved in translational and educational neuroscience. Through readings and projects, students explore ways to apply principles of behavioral and cognitive neuroscience to problems in disability-related disciplines.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Doctoral standing

No Requirements

SPED7500 - Leadership Education in Disabilities - 1 - 3 Credits

Course Overview

Course Prefix
SPED

Course Number
7500

Department
Special Education & Rehab Counseling

Course Title
Leadership Education in Disabilities

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Workshop on current interdisciplinary issues and topics in special education and related fields.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

No Requirements

SPED7700 - Single-Subject Research Methods and Designs - 3 - Credits

Course Overview

Course Prefix
SPED

Course Number
7700

Department
Special Education & Rehab Counseling

Course Title
Single-Subject Research Methods and Designs

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Examines single-subject research methods for applied research, including measurement, design, and analysis issues.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Special Approval

Instructor permission

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- SPED6700 - Introduction to Behavioral Research in Education

SPED7710 - Advanced Single-Subject Research Methods and Design - 3 - Credits

Course Overview

Course Prefix
SPED

Course Number
7710

Department
Special Education & Rehab Counseling

Course Title
Advanced Single-Subject Research Methods and Design

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Explores advanced concepts and procedures in within-subject research methods. Builds on knowledge and skills acquired in SPED 7700 regarding scientific questions, measures, research designs, data analysis, and inference. Students analyze research and design, conduct, and report a scientific study.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- SPED7700 - Single-Subject Research Methods and Designs

SPED7720 - Advanced Applied Behavior Analysis - 3 - Credits

Course Overview

Course Prefix
SPED

Course Number
7720

Department
Special Education & Rehab Counseling

Course Title
Advanced Applied Behavior Analysis

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Discussion of advanced topics in applied behavior analysis including: functional analysis, function-based interventions, behavioral acquisition procedures, and strategies for promoting generalization and maintenance of behavior. Specific discussion of how applied behavior analytic principles can be used in educational contexts.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

SPED7730 - Advanced Topics in Behavior Analysis - 3 - Credits

Course Overview

Course Prefix
SPED

Course Number
7730

Department
Special Education & Rehab Counseling

Course Title
Advanced Topics in Behavior Analysis

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Discusses advanced topics and issues in behavior analysis, including generalization, higher-order learning, variability, novelty, rule-governed behavior, and private events.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

SPED7740 - Verbal Behavior and Relational Responding - 3 - Credits

Course Overview

Course Prefix
SPED

Course Number
7740

Department
Special Education & Rehab Counseling

Course Title
Verbal Behavior and Relational Responding

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course explores and develops a functional analysis of language. It is based on B.F. Skinner's book, Verbal Behavior, and integrates more recent work such as Relational Frame Theory.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Doctoral standing

No Requirements

SPED7750 - Social and Legal Context of Disability - 3 - Credits

Course Overview

Course Prefix
SPED

Course Number
7750

Department
Special Education & Rehab Counseling

Cross-Listed Courses
REH7750 - Social and Legal Context of Disability

Course Title
Social and Legal Context of Disability

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course places the disability experience in its social and legal context by exploring models of disabilities. Key statutes and case law reflecting historical landmarks in disability law and policy will be discussed as the codification of societal values.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

SPED7800 - Seminar: Issues in Special Education and Rehabilitation - 1 - 3 Credits

Course Overview

Course Prefix
SPED

Course Number
7800

Department
Special Education & Rehab Counseling

Course Title
Seminar: Issues in Special Education and Rehabilitation

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Critical analysis of variety of special education and rehabilitation issues and trends. Empirical and theoretical information presented in a seminar format.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

No Requirements

SPED7810 - Research Seminar in Special Education and Rehabilitation - 1 - 3 Credits

Course Overview

Course Prefix
SPED

Course Number
7810

Department
Special Education & Rehab Counseling

Course Title
Research Seminar in Special Education and Rehabilitation

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Identification of research problems and discussion of research strategies and methods. Applications of research, data analysis, and statistical concepts.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

No Requirements

SPED7820 - Seminar: Special Topics - 1 - 3 Credits

Course Overview

Course Prefix
SPED

Course Number
7820

Department
Special Education & Rehab Counseling

Course Title
Seminar: Special Topics

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
In-depth study of special topics in special education and rehabilitation. Seminars examine historical aspects, relevant research, and theoretical positions on selected topics.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

No Requirements

SPED7830 - Personal Preparation in Disability Disciplines - 3 - Credits

Course Overview

Course Prefix
SPED

Course Number
7830

Department
Special Education & Rehab Counseling

Course Title
Personal Preparation in Disability Disciplines

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Focuses on critical issues in preparing disability professionals in special education, rehabilitation counseling, speech and language, applied behavior analysis and disability studies. Includes an examination of current initiatives in clinical practice, supervision models, overall program development issues and emphasizes research and evidence-based practices.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

SPED7840 - Preliminary Exams - 1 - Credits

Course Overview

Course Prefix
SPED

Course Number
7840

Department
Special Education & Rehab Counseling

Course Title
Preliminary Exams

Grade Mode
Temporary Pass/Fail

Repeat Status
NR

Course Description
Preparation for, and successful completion of, written preliminary examinations. Students demonstrate methodological and analytical skills, as well as scientific foundations, for doctoral studies in special education or applied behavior analysis.

Credit Hours

Credit Hours Min:
1

Contact Hours

Contact Hours Min:
1

Billing Hours

Billing Hours Min:
1

Lecture Hours

Lecture Hours Min:
1

No Requirements

SPED7900 - Independent Study - 1 - 3 Credits

Course Overview

Course Prefix
SPED

Course Number
7900

Department
Special Education & Rehab Counseling

Course Title
Independent Study

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
Independent Study

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

Special Approval

Instructor permission

No Requirements

SPED7910 - Independent Research - 1 - 3 Credits

Course Overview

Course Prefix
SPED

Course Number
7910

Department
Special Education & Rehab Counseling

Course Title
Independent Research

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
Independent Research

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

Special Approval

Instructor permission

No Requirements

SPED7920 - Doctoral Program Professional Seminar - 1 - Credits

Course Overview

Course Prefix
SPED

Course Number
7920

Department
Special Education & Rehab Counseling

Course Title
Doctoral Program Professional Seminar

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This is a program orientation course that familiarizes students with program and Graduate School requirements, acquaints students with faculty and resources, initiates a career planning process, teaches students fundamentals concepts of scientific research, and teaches students to conduct literature reviews.

Credit Hours

Credit Hours Min:
1

Contact Hours

Contact Hours Min:
1

Billing Hours

Billing Hours Min:
1

Lecture Hours

Lecture Hours Min:
1

Registration Restrictions

Doctoral standing

No Requirements

SPED7930 - Internship in Special Education - 1 - 12 Credits

Course Overview

Course Prefix
SPED

Course Number
7930

Department
Special Education & Rehab Counseling

Course Title
Internship in Special Education

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
Professional, supervised internship experience for doctoral students.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
12

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
12

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
12

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
12

Lecture Hours Operator:
TO

Special Approval

Instructor permission

No Requirements

SPED7940 - Journal Reading Group - 1 - 2 Credits

Course Overview

Course Prefix
SPED

Course Number
7940

Department
Special Education & Rehab Counseling

Course Title
Journal Reading Group

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
Seminar discussion of recent empirical and theoretical journal articles in special education and related fields.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
2

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
2

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
2

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
2

Lecture Hours Operator:
TO

No Requirements

SPED7970 - Dissertation - 1 - 15 Credits

Course Overview

Course Prefix
SPED

Course Number
7970

Department
Special Education & Rehab Counseling

Course Title
Dissertation

Grade Mode
Temporary Pass/Fail

Repeat Status
RP

Course Description
Variable credit for dissertation project in connection with doctoral program in special education.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
15

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
15

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
15

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
15

Lecture Hours Operator:
TO

No Requirements

SPED7990 - Continuing Graduate Advisement - 1 - 9 Credits

Course Overview

Course Prefix
SPED

Course Number
7990

Department
Special Education & Rehab Counseling

Course Title
Continuing Graduate Advisement

Grade Mode
Temporary Pass/Fail

Repeat Status
RP

Course Description
This course provides graduate students with continued support and advisement. It is usually taken following completion of all coursework required for the degree.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
9

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
9

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
9

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
9

Lecture Hours Operator:
TO

No Requirements

STAT1040 - Introduction to Statistics (QL) - 3 - Credits

Course Overview

Course Prefix
STAT

Course Number
1040

Department
Mathematics & Statistics

Course Title
Introduction to Statistics (QL)

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This is a course on descriptive and inferential statistical methods. Conceptual understanding and statistical thinking is emphasized over the use of formulas. Students work with real-world examples from many different areas and disciplines.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Prerequisite

Complete one of the following options below. One of which must have been taken within the last two years or six consecutive semesters, including summers.

Fulfill ANY of the following requirements:

Option 1

Complete any of the following with a C- or better or a passing grade of P is also acceptable.

Complete ANY of the following Courses:

- MATH0995 - College Mathematics Preparation
- MATH1050 - College Algebra (QL)

- MATH1100 - Calculus Techniques (QL)

OR

Option 2

Exam must be completed within the last two years or six consecutive semesters (including summers):

Exam Option

- ACT Math score of at least 19 or equivalent SAT Math score
- Sufficient score on AP Exam equivalent to MATH1050 COLLEGE ALGEBRA (QL) or higher
- Satisfactory score on the ALEKS Math Placement Exam

STAT1045 - Introduction to Statistics with Elements with Algebra (QL) - 5 - Credits

Course Overview

Course Prefix
STAT

Course Number
1045

Department
Mathematics & Statistics

Course Title
Introduction to Statistics with Elements with Algebra (QL)

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course is an introduction to statistics with an emphasis on conceptual understanding and statistical reasoning. Foundational algebra, types of studies, summarizing data, probability, hypothesis testing. NOTE: This course does NOT meet the prerequisites for MATH 1050.

Credit Hours

Credit Hours
Min:
5

Contact Hours

Contact Hours
Min:
5

Billing Hours

Billing Hours
Min:
5

Lecture Hours

Lecture Hours
Min:
5

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Prerequisite may be fulfilled with either coursework or one of the followings exams or test scores within the last two years or six consecutive semesters (including summers):

Fulfill ANY of the following requirements:

Coursework

Earn a minimum grade of C- in the following:

- MATH0950 - Pre-algebra

(a passing grade of P is acceptable)

OR

Exams or Test Scores

Exam or Test Score options

- ACT Math score of 16 or equivalent SAT Math score
- Satisfactory score on the ALEKS Math Placement Exam

STAT1080 - Foundations of Data Science (QL) - 3 - Credits

Course Overview

Course Prefix
STAT

Course Number
1080

Department
Mathematics & Statistics

Course Title
Foundations of Data Science (QL)

General Education Attribute
QL

Grade Mode
Standard Letter

Repeat Status
NR

Course Description

Students learn how to tell the stories of data through visuals and other statistical summaries using basic computer programming. Computer programming is used to introduce concepts of probability, random variables, hypothesis testing and prediction. No previous programming experience is required.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Other Enrollment Recommendations

Basic computer literacy, such as installing programs and saving files on a computer.

STAT2000 - Statistical Methods (QI) - 4 - Credits

Course Overview

Course Prefix
STAT

Course Number
2000

Department
Mathematics & Statistics

Course Title
Statistical Methods (QI)

General Education Attribute
QI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description

This course is an introduction to statistical concepts, graphical techniques, probability, distributions, estimation, one and two sample testing, chi-square tests, and simple linear regression, one-way ANOVA.

Credit Hours

Credit Hours
Min:
4

Contact Hours

Contact Hours
Min:
4

Billing Hours

Billing Hours
Min:
4

Lecture Hours

Lecture Hours
Min:
4

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Prerequisite may be fulfilled with either coursework or one of the followings exams or test scores within the last two years or six consecutive semesters (including summers).

Fulfill ANY of the following requirements:

Coursework

Earn a minimum grade of C- in the following:

- MATH1050 - College Algebra (QL)
  OR MATH1100 - Calculus Techniques (QL)
  OR MATH1210 - Calculus I (QL)
  OR STAT1080 - Foundations of Data Science (QL)

OR

Exams or Test Scores

Exams or Test Score Options

- ACT Math score of 25 or equivalent SAT Math score
- Sufficient score on AP Exam equivalent to MATH1050 COLLEGE ALGEBRA (QL) or higher
- Satisfactory score on the ALEKS Math Placement Exam

STAT2250 - Internship and Cooperative Studies - 1 - 6 Credits

Course Overview

Course Prefix
STAT

Course Number
2250

Department
Mathematics & Statistics

Course Title
Internship and Cooperative Studies

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Lower-division internship/cooperative work experience in statistics.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
6

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
6

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
6

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
6

Lecture Hours Operator:
TO

No Requirements

STAT2300 - Business Statistics (QL) - 4 - Credits

Course Overview

Course Prefix
STAT

Course Number
2300

Department
Mathematics & Statistics

Course Title
Business Statistics (QL)

General Education Attribute
QL

Grade Mode
Standard Letter

Repeat Status
NR

Course Description

This is a course on descriptive and inferential statistics. Topics include: probability, sampling, estimation, tests of hypotheses, linear regression and correlation, chi-square tests, analysis of variance, and multiple regression.

Credit Hours

Credit Hours
Min:
4

Contact Hours

Contact Hours
Min:
4

Billing Hours

Billing Hours
Min:
4

Lecture Hours

Lecture Hours
Min:
4

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Prerequisite may be fulfilled with either coursework or one of the followings exams or test scores within the last two years or six consecutive semesters (including summers).

Fulfill ANY of the following requirements:

Coursework

May choose one of the following courses:

Earn a minimum grade of C- in the following:

- MATH1050 - College Algebra (QL)
  OR MATH1100 - Calculus Techniques (QL)
  OR STAT1080 - Foundations of Data Science (QL)

OR

Exams or Test Scores

Exams or Test Score Options

- ACT Math score of 25 or equivalent SAT Math score
- Sufficient score on AP Exam equivalent to MATH1050 COLLEGE ALGEBRA (QL) or higher
- Satisfactory score on the ALEKS Math Placement Exam

STAT2950 - Directed Reading and Conference - 1 - 3 Credits

Course Overview

Course Prefix
STAT

Course Number
2950

Department
Mathematics & Statistics

Course Title
Directed Reading and Conference

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Prerequisite/Restriction: Prior arrangement with specific instructor.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

Special Approval
Prior arrangement with specific instructor

No Requirements

STAT3000 - Statistics for Scientists (QI) - 3 - Credits

Course Overview

Course Prefix
STAT

Course Number
3000

Department
Mathematics & Statistics

Course Title
Statistics for Scientists (QI)

General Education Attribute
QI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Introduction to statistical concepts, graphical techniques, discrete and continuous distributions, parameter estimation, hypothesis testing, and chi-square tests.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Earn a minimum grade of C- in the following:

- MATH1100 - Calculus Techniques (QL)
  OR MATH1210 - Calculus I (QL)

STAT3080 - Data Science for Scientists - 3 - Credits

Course Overview

Course Prefix
STAT

Course Number
3080

Department
Mathematics & Statistics

Course Title
Data Science for Scientists

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces data science concepts with a focus on statistics and working with real data. Topics include discrete and continuous distributions, parameter estimation, hypothesis testing, and chi-square tests. Students work with data that aligns with the field of their respective section.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Earn a minimum grade of C- in the following:

- MATH1100 - Calculus Techniques (QL)
  OR MATH1210 - Calculus I (QL)

Course Learning Objectives

Course Learning Outcomes

1. Have a basic understanding of important concepts in statistical methodology.

2. Be able to apply basic statistical and data science methods to data in their chosen field.

STAT4010 - Probability and Statistics for Teachers - 3 - Credits

Course Overview

Course Prefix
STAT

Course Number
4010

Department
Mathematics & Statistics

Course Title
Probability and Statistics for Teachers

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course is an investigation of probability and statistics secondary school content from an advanced perspective and with attention to its historical development. Topics include probability, data summary techniques, parameter estimation, and inference.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Other Enrollment Recommendations
Some sections may be available for students in the Utah Math Endorsement Project (UMEP)

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Earn a minimum grade of C- in the following:

- STAT3000 - Statistics for Scientists (QI)

STAT4250 - Advanced Internship/Co-op - 1 - 6 Credits

Course Overview

Course Prefix
STAT

Course Number
4250

Department
Mathematics & Statistics

Course Title
Advanced Internship/Co-op

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Advanced educational work experience in statistics.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
6

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
6

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
6

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
6

Lecture Hours Operator:
TO

Special Approval
Instructor permission

No Requirements

STAT4500 - Methods of Teaching Statistics in Secondary and Middle School - 3 - Credits

Course Overview

Course Prefix
STAT

Course Number
4500

Department
Mathematics & Statistics

Course Title
Methods of Teaching Statistics in Secondary and Middle School

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Teaching methods course required for all prospective mathematics and statistics composite teaching majors.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Corequisite

Type
Corequisite

Required

Enroll in the following Courses:

- MATH5500 - Methods of Secondary School Mathematics Teaching

Prerequisite

Type
Prerequisite

Required

Fulfill ALL of the following requirements:

Required

Complete ALL of the following Courses:

- MATH3110 - Modern Geometry

AND

Required

Complete ALL of the following Courses:

- MATH4200 - Foundations of Analysis (CI)
  OR MATH4310 - Introduction to Algebraic Structures (CI)

AND

Required

Complete ALL of the following Courses:

- STAT2000 - Statistical Methods (QI)
  OR STAT3000 - Statistics for Scientists (QI)

STAT4950 - Directed Reading and Conference - 1 - 3 Credits

Course Overview

Course Prefix
STAT

Course Number
4950

Department
Mathematics & Statistics

Course Title
Directed Reading and Conference

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course consists of directed readings on specific topics.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

Special Approval
Prior arrangement with specific instructor

No Requirements

STAT5050 - Introduction to R - 1 - Credits

Course Overview

Course Prefix
STAT

Course Number
5050

Department
Mathematics & Statistics

Course Title
Introduction to R

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students install and run R, RStudio and R Markdown; write reports using R Markdown; finding R functions, objects, and documentation; issue commands and save results; understand, manipulate, and subset data types (vectors, matrices, data frames, lists); and write simple functions.

Credit Hours

Credit Hours Min:
1

Contact Hours

Contact Hours Min:
1

Billing Hours

Billing Hours Min:
1

Lecture Hours

Lecture Hours Min:
1

Other Enrollment Recommendations
An introductory statistics course, such as STAT2000 STATISTICAL METHODS (QI), STAT3000 STATISTICS FOR SCIENTISTS (QI), DATA3100 MAKING DECISIONS WITH DATA, or similar

STAT5055 - Data Wrangling - 1 - Credits

Course Overview

Course Prefix
STAT

Course Number
5055

Department
Mathematics & Statistics

Course Title
Data Wrangling

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
An introduction to the principles of Data Wrangling (including data joins, manipulation, and visualization) as demonstrated through the Tidyverse and other software packages available in the R programming language.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Other Enrollment Recommendations
Previous programming experience in R, preferably through STAT1080 FOUNDATIONS OF DATA SCI (QL) OR STAT5050 INTRODUCTION TO R.

Course Learning Objectives

Course Learning Outcomes
1. Use computer programming to manipulate and visualize large quantities of data.
2. Understand how to join information from multiple data tables.
3. Understand the computational limitations of data wrangling as well as the best practices for writing computationally efficient data manipulations.

STAT5060 - Python for Data Science - 3 - Credits

Course Overview

Course Prefix
STAT

Course Number
5060

Department
Mathematics & Statistics

Cross-Listed Courses
DSAI5060 - Python for Data Science

Dual-Listed Courses
STAT6060 - Python for Data Science

Course Title
Python for Data Science

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students are introduced to Python with a focus on data science. Topics include Python basics and data structures, object oriented programming, NumPy, pandas, data cleaning and wrangling, plotting and visualization, data aggregation, time series analysis, and modeling libraries. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Other Enrollment Recommendations
Basic programming experience with any language is recommended. Exposure to linear algebra is also helpful as much of data analysis involves matrices.

Course Learning Objectives

Course Learning Outcomes
1. Gain knowledge of and familiarity with the Python programming language and related tools.

2. Learn to use Python to solve data science problems at a basic level.

3. Learn selected general principles in the data science process.

STAT5080 - Data Technologies - 2 - Credits

Course Overview

Course Prefix
STAT

Course Number
5080

Department
Mathematics & Statistics

Dual-Listed Courses
STAT6080 - Data Technologies

Course Title
Data Technologies

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Modern data technologies, including the basics of simulation, resampling, bootstrap, regular expressions, web scraping, XML, data bases and SQL, and the Tidyverse (a collection of R packages for data science) are discussed. Students use unprocessed real-life data sets whenever possible. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Other Enrollment Recommendations
Experience in LaTex is recommended.

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Prerequisite may be fulfilled with any of the following options:

Fulfill ANY of the following requirements:

Option 1

Earn a minimum grade of C- in the following:

- STAT5100 - Modern Regression Methods (CI/QI)

OR

Option 2

Earn a minimum grade of C- in the following:

- STAT2000 - Statistical Methods (QI)
  OR STAT3000 - Statistics for Scientists (QI)
- STAT5050 - Introduction to R

OR

Option 3

Earn a minimum grade of C- in the following:

- STAT5410 - Applied Spatial Statistics
  OR STAT5550 - Statistical Visualization I
  OR STAT5555 - Advanced R Programming for Data Science
  OR STAT5560 - Statistical Visualization II
  OR STAT6410 - Applied Spatial Statistics
  OR STAT6560 - Statistical Visualization II

STAT5100 - Modern Regression Methods (CI/QI) - 3 - Credits

Course Overview

Course Prefix
STAT

Course Number
5100

Department
Mathematics & Statistics

Dual-Listed Courses
STAT6100 - Modern Regression Methods

Course Title
Modern Regression Methods (CI/QI)

General Education Attribute
CI, QI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students learn multiple linear regression, diagnostics for outliers and influential points, robust regression, quantile regression, collinearity, variable selection, ridge regression, the LASSO and elastic net, generalized linear models, and non-linear regression methods including generalized additive models and tree-based methods. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

May be fulfilled with one of the following:

Earn a minimum grade of C- in the following:

- STAT2000 - Statistical Methods (QI)
  OR STAT3000 - Statistics for Scientists (QI)
  OR DATA3100 - Making Decisions with Data
  OR PSY3010 - Psychological Statistics (QI)
  OR SOC3120 - Social Statistics I (QI)

STAT5120 - Statistical Methods for Rates and Proportions - 2 - Credits

Course Overview

Course Prefix
STAT

Course Number
5120

Department
Mathematics & Statistics

Course Title
Statistical Methods for Rates and Proportions

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces the analysis of cross-tabulated and other categorical data, log-linear models for higher order cross-tabulations, independence graphs, logit models and logistic regression, generalized estimating equations, trend tests and other methods for ordinal classifications, and McNemar's and Cochran-Mantel-Haenszal tests.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Earn a minimum grade of C- in the following:

- STAT5100 - Modern Regression Methods (CI/QI)

STAT5150 - SAS Predictive Analytics - 2 - Credits

Course Overview

Course Prefix
STAT

Course Number
5150

Department
Mathematics & Statistics

Dual-Listed Courses
STAT6150 - SAS Predictive Analytics

Course Title
SAS Predictive Analytics

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces SAS® predictive analytics tools in SAS® Enterprise Miner™ and SAS® STAT™. Topics include principal components analysis; clustering observation and variables; regression with regularization and model selection; and classification including decision trees, random forests, and support vector machines.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Earn a minimum grade of C- in the following:

- STAT5650 - Applied Machine Learning and Multivariate Statistics

STAT5170 - Time Series and Forecasting - 2 - Credits

Course Overview

Course Prefix
STAT

Course Number
5170

Department
Mathematics & Statistics

Dual-Listed Courses
STAT6170 - Time Series and Forecasting

Course Title
Time Series and Forecasting

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students are introduced to linear time series analysis and ARIMA models. Topics include stationarity, differencing, AR, MA, and ARIMA models, modeling and forecasting with ARIMA models.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Other Enrollment Recommendations
Previous experience programming in R

Simple Requisites

Prerequisite

Type
Prerequisite

Required

May fulfill any of the following courses:

Earn a minimum grade of C- in the following:

- STAT5100 - Modern Regression Methods (CI/QI)
  OR STAT5050 - Introduction to R

STAT5200 - Analysis of Designed Experiments - 3 - Credits

Course Overview

Course Prefix
STAT

Course Number
5200

Department
Mathematics & Statistics

Dual-Listed Courses
STAT6200 - Analysis of Designed Experiments

Course Title
Analysis of Designed Experiments

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course teaches analysis of balanced experimental designs with fixed, random, crossed, and nested factors; factorial, nested, nested factorial, split plot, split block, and repeated measures designs; and fixed and mixed effects models, residual analysis, and post hoc mean comparisons. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Fulfill one of the following courses:

Earn a minimum grade of C- in the following:

- STAT2000 - Statistical Methods (QI)
  OR STAT3000 - Statistics for Scientists (QI)
  OR DATA3100 - Making Decisions with Data
  OR PSY3010 - Psychological Statistics (QI)

STAT5410 - Applied Spatial Statistics - 2 - Credits

Course Overview

Course Prefix
STAT

Course Number
5410

Department
Mathematics & Statistics

Dual-Listed Courses
STAT6410 - Applied Spatial Statistics

Course Title
Applied Spatial Statistics

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers spatial data structures; spatial data exploration and visualization in R; spatial point patterns, spatially continuous data, and grid data; and nearest neighbor distances, K function, complete spatial randomness, variogram, kriging, and Moran's I. For 6000-level credit a major project is required.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Other Enrollment Recommendations
STAT5550 STATISTICAL VISUALIZATION I, and STAT5560 STATISTICAL VISUALIZATION II or STAT6560 STATISTICAL VISUALIZATION II

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Earn a minimum grade of C- in the following:

- STAT3000 - Statistics for Scientists (QI)
  OR STAT5100 - Modern Regression Methods (CI/QI)
- STAT5050 - Introduction to R

STAT5500 - Biostatistics Methods (DSC) - 3 - Credits

Course Overview

Course Prefix
STAT

Course Number
5500

Department
Mathematics & Statistics

Dual-Listed Courses
STAT6500 - Biostatistics Methods

Course Title
Biostatistics Methods (DSC)

General Education Attribute
DSC

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This is a survey of statistical methods frequently seen in biomedical applications, such as power calculations, multiple hypothesis testing, survival analysis, group sequential design, meta-analysis, and nonparametric tests. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Other Enrollment Recommendations
An introductory or intermediate applied statistics course (such as STAT2000 STATISTICAL METHODS (QI), STAT3000 STATISTICS FOR SCIENTISTS (QI), DATA3100 MAKING DECISIONS WITH DATA, SOC3120 SOCIAL STATISTICS I (QI), PSY3010 PSYCHOLOGICAL STAT (QI), APEC5330 APPLIED ECONOMETRICS (QI), ECN4330 ECONOMETRICS (QI), EDUC6050 APPLIED STATSTICAL ANALYSIS, or PSC5080 APPL STATS AGRICULTURAL RSRCH).

STAT5550 - Statistical Visualization I - 2 - Credits

Course Overview

Course Prefix
STAT

Course Number
5550

Department
Mathematics & Statistics

Course Title
Statistical Visualization I

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students learn basic construction and refinement of statistical graphics for categorical and low-dimensional data via various R packages. They discuss good and bad graphics design principles with examples drawn from everyday sources and the scientific literature.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Earn a minimum grade of C- in the following:

- STAT5050 - Introduction to R

STAT5555 - Advanced R Programming for Data Science - 3 - Credits

Course Overview

Course Prefix
STAT

Course Number
5555

Department
Mathematics & Statistics

Dual-Listed Courses
STAT6555 - Advanced R Programming for Data Science

Course Title
Advanced R Programming for Data Science

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This programming intensive course covers key tools and programming principles for conducting reproducible data analyses in the R programming language. Emphasis is placed on computational reproducibility and scalability as presented in the context of custom R package development. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Other Enrollment Recommendations
STAT5050 INTRODUCTION TO R (may be taken concurrently) or some other previous, formal exposure to the R programming language.

STAT5560 - Statistical Visualization II - 2 - Credits

Course Overview

Course Prefix
STAT

Course Number
5560

Department
Mathematics & Statistics

Dual-Listed Courses
STAT6560 - Statistical Visualization II

Course Title
Statistical Visualization II

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students learn about statistical and scientific visualization of statistical maps and high-dimensional data; historic developments of graphics; current frontiers in visualization, including interactive, dynamic, and web-based graphics; and discuss effective use of color and motion in graphics. For graduate (6000-level) credit, a major project is required.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Earn a minimum grade of C- in the following:

- STAT5050 - Introduction to R
  AND STAT5550 - Statistical Visualization I

STAT5570 - Statistical Bioinformatics - 2 - Credits

Course Overview

Course Prefix
STAT

Course Number
5570

Department
Mathematics & Statistics

Dual-Listed Courses
STAT6570 - Statistical Bioinformatics

Course Title
Statistical Bioinformatics

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course Introduces statistical methods for high dimensional biomedical data, primarily gene expression and sequence analysis, using Bioconductor tools. Topics include data visualization, differential expression (in high-dimensional count/ continuous data), annotation testing, scoring alignments, HMMs, and phylogenetic trees. For graduate (6000-level) credit, additional work is required.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Earn a minimum grade of C- in the following:

- STAT5100 - Modern Regression Methods (CI/QI)
  OR STAT5200 - Analysis of Designed Experiments

STAT5645 - Mathematical Methods for Data Science - 3 - Credits

Course Overview

Course Prefix
STAT

Course Number
5645

Department
Mathematics & Statistics

Cross-Listed Courses
MATH5645 - Mathematical Methods for Data Science

Dual-Listed Courses
STAT6645 - Mathematical Methods for Data Science

Course Title
Mathematical Methods for Data Science

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides an in-depth overview of important mathematical principles and methods that underlie state-of-the art data science, statistical, and machine learning methods with a focus on linear algebra and multivariate calculus and their data science applications. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Other Enrollment Recommendations

An introduction to statistics (such as STAT3000 STATISTICS FOR SCIENTISTS (QI)) and/or probability (such as MATH5710 INTRO TO PROBABILITY) are strongly recommended. MATH1220 CALCULUS II (QL) and MATH2270 LINEAR ALGEBRA (QI) are also recommended. Experience programming in Python, R, or Matlab is essential for success in the course.

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ANY of the following Courses:

- MATH1100 - Calculus Techniques (QL)
  OR MATH1210 - Calculus I (QL)

STAT5650 - Applied Machine Learning and Multivariate Statistics - 3 - Credits

Course Overview

Course Prefix
STAT

Course Number
5650

Department
Mathematics & Statistics

Dual-Listed Courses

STAT6650 - Applied Machine Learning and Multivariate Statistics

Course Title

Applied Machine Learning and Multivariate Statistics

Grade Mode
Standard Letter

Repeat Status
NR

Course Description

This broadly accessible course introduces students to several machine learning and multivariate statistics topics with a focus on real data applications. Topics include a range of approaches for classification, regression, dimensionality reduction, and cluster analysis. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Other Enrollment Recommendations

Programming experience in Python, R, or another related language is recommended

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Prerequisite may be fulfilled with any of the following:

Earn a minimum grade of C- in the following:

- STAT5100 - Modern Regression Methods (CI/QI)

OR STAT6100 - Modern Regression Methods
OR DATA5600 - Introduction to Regression and Machine Learning for Analytics

STAT5655 - Machine Learning - 3 - Credits

Course Overview

Course Prefix
STAT

Course Number
5655

Department
Mathematics & Statistics

Cross-Listed Courses
DSAI5655 - Machine Learning

Dual-Listed Courses
STAT6655 - Machine Learning

Course Title
Machine Learning

Grade Mode
Standard Letter

Repeat Status
NR

Course Description

This course provides a practical and mathematical introduction to machine learning techniques and principles in supervised and unsupervised settings. Students learn to understand machine learning research papers and gain the practical experience to implement machine learning approaches on real data. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Other Enrollment Recommendations

Experience programming in Python, R, or Matlab is essential for success in the course.

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- MATH1220 - Calculus II (QL)
- MATH5710 - Introduction to Probability
  OR STAT3000 - Statistics for Scientists (QI)

(MATH 5710 preferred)

Required

Complete one of the following options. Option 3 is preferred.

Fulfill ANY of the following requirements:

Option 1

Complete ALL of the following Courses:

- MATH2210 - Multivariable Calculus (QI)
  AND MATH2270 - Linear Algebra (QI)

OR

Option 2

Complete ALL of the following Courses:

- MATH2210 - Multivariable Calculus (QI)
  AND DSAI2275 - Linear Algebra for Data Science

OR

Option 3

Complete ALL of the following Courses:

- MATH5645 - Mathematical Methods for Data Science
  OR STAT5645 - Mathematical Methods for Data Science

(Preferred option)

Course Learning Objectives

Course Learning Outcomes

1. Gain knowledge of and familiarity with selected classical and advanced machine learning techniques and principles that will be useful in both the university and industry settings.
2. Learn to apply the selected techniques to solve problems with real data.
3. Learn selected general principles (e.g. optimization, the kernel trick) for understanding machine learning methods not covered in the course.

STAT5685 - Deep Learning Theory and Applications - 3 - Credits

Course Overview

Course Prefix
STAT

Course Number
5685

Department
Mathematics & Statistics

Dual-Listed Courses

STAT6685 - Deep Learning Theory and Applications

Course Title

Deep Learning Theory and Applications

Grade Mode
Standard Letter

Repeat Status
NR

Course Description

This course takes a principled and hands-on approach to deep learning with neural networks, covering machine learning basics, backpropagation, stochastic gradient descent, regularization, and universality. Topics include CNNs, GANs, RNNs, GCNs, autoencoders, transformers, and other modern architectures and training techniques. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Other Enrollment Recommendations

The following courses or their equivalents are necessary to succeed in this course: MATH1220 CALCULUS II (QL); MATH2270 LINEAR ALGEBRA (QI) or MATH5645 MATH METHODS FOR DATA SCIENCE/STAT5645 MATH METHODS FOR DATA SCIENCE or MATH6645 MATH METHODS FOR DATA SCIENCE/STAT6645 MATH METHODS FOR DATA SCIENCE; STAT3000 STATISTICS FOR SCIENTISTS (QI) or MATH5710 INTRO TO PROBABILITY; Programming experience, preferably in Python, is also necessary to succeed in this course

STAT5810 - Topics in Statistics - 1 - 3 Credits

Course Overview

Course Prefix
STAT

Course Number
5810

Department
Mathematics & Statistics

Course Title
Topics in Statistics

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Topics in Statistics

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

Special Approval
Instructor permission

STAT5815 - Research in Data Science and Statistics - 1 - 3 Credits

Course Overview

Course Prefix
STAT

Course Number
5815

Department
Mathematics & Statistics

Course Title
Research in Data Science and Statistics

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Students work on a semester-long research project in statistics or data science with topics determined by the instructor. Research may be theoretical or applied.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

Special Approval
Instructor Permission

Course Learning Objectives

Course Learning Outcomes

Students will learn to

1. Organize and prioritize tasks through the duration of a research project.

2. Work independently while solving complex problems.
3. Present technical results in accessible ways through various mediums, including oral, poster, and written presentations.

STAT5820 - Topics in Statistics - 1 - 3 Credits

Course Overview

Course Prefix
STAT

Course Number
5820

Department
Mathematics & Statistics

Course Title
Topics in Statistics

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course explores a particular topic in greater depth and with narrower focus than a conventional course.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

Special Approval
Instructor permission

STAT5940 - Directed Reading and Conference - 1 - 3 Credits

Course Overview

Course Prefix
STAT

Course Number
5940

Department
Mathematics & Statistics

Course Title
Directed Reading and Conference

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course consists of directed readings on specific topics.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

Special Approval
Prior arrangement with specific instructor

STAT5970 - Seminar - 1 - 3 Credits

Course Overview

Course Prefix
STAT

Course Number
5970

Department
Mathematics & Statistics

Course Title
Seminar

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Review of current literature and developments in the field of statistics.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

STAT6060 - Python for Data Science - 3 - Credits

Course Overview

Course Prefix
STAT

Course Number
6060

Department
Mathematics & Statistics

Cross-Listed Courses
DSAI6060 - Python for Data Science

Dual-Listed Courses
STAT5060 - Python for Data Science

Course Title
Python for Data Science

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students are introduced to Python with a focus on data science. Topics include Python basics and data structures, object oriented programming, NumPy, pandas, data cleaning and wrangling, plotting and visualization, data aggregation, time series analysis, and modeling libraries. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Other Enrollment Recommendations
Basic programming experience with any language is recommended. Exposure to linear algebra is also helpful as much of data analysis involves matrices.

Course Learning Objectives

Course Learning Outcomes
1. Gain knowledge of and familiarity with the Python programming language and related tools.

2. Learn to use Python to solve data science problems at a basic level.

3. Learn selected general principles in the data science process.

STAT6070 - Foundations of Data Science for Educators - 3 - Credits

Course Overview

Course Prefix
STAT

Course Number
6070

Department
Mathematics & Statistics

Course Title
Foundations of Data Science for Educators

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces educators to the analysis and visualization of tabular data using high-level computer programming. It emphasizes the role of computer programming and numerical simulation in teaching concepts such as randomness, sampling bias, statistical significance, and prediction in classrooms.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Other Enrollment Recommendations
An undergraduate course in introductory statistics or data science.

Course Learning Objectives

Course Learning Outcomes
1. Use computer programming to manipulate, visualize, and analyze data.

2. Use computer programming to develop data models that can predict quantities of interest.

3. Understand how to teach concepts of randomness and statistical significance via computer programming and numerical simulation.

STAT6075 - Curriculum Development - 1 - 3 Credits

Course Overview

Course Prefix
STAT

Course Number
6075

Department
Mathematics & Statistics

Course Title
Curriculum Development

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Supervised development and implementation of statistics and data science curriculum.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- STAT6070 - Foundations of Data Science for Educators

Course Learning Objectives

Course Learning Outcomes

1. To develop new teaching materials for data science education suitable for implementation in classroom settings.

STAT6080 - Data Technologies - 2 - Credits

Course Overview

Course Prefix
STAT

Course Number
6080

Department
Mathematics & Statistics

Dual-Listed Courses

STAT5080 - Data Technologies

Course Title

Data Technologies

Grade Mode
Standard Letter

Repeat Status
NR

Course Description

Modern data technologies, including the basics of simulation, resampling, bootstrap, regular expressions, web scraping, XML, data bases and SQL, and the Tidyverse (a collection of R packages for data science) are discussed. Students use unprocessed real-life data sets whenever possible. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Other Enrollment Recommendations

Familiarity with LaTex is essential for this course

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Prerequisite may be fulfilled with any of the following options:

Fulfill ANY of the following requirements:

Option 1

Earn a minimum grade of C- in the following:

- STAT5100 - Modern Regression Methods (CI/QI)

OR

Option 2

Earn a minimum grade of C- in the following:

- STAT2000 - Statistical Methods (QI)
  OR STAT3000 - Statistics for Scientists (QI)
- STAT5050 - Introduction to R

OR

Option 3

May complete any of the following:

Earn a minimum grade of C- in the following:

- STAT5410 - Applied Spatial Statistics
  OR STAT5550 - Statistical Visualization I
  OR STAT5555 - Advanced R Programming for Data Science
  OR STAT5560 - Statistical Visualization II
  OR STAT6410 - Applied Spatial Statistics
  OR STAT6560 - Statistical Visualization II

STAT6100 - Modern Regression Methods - 3 - Credits

Course Overview

Course Prefix
STAT

Course Number
6100

Department
Mathematics & Statistics

Dual-Listed Courses

STAT5100 - Modern Regression Methods (CI/QI)

Course Title

Modern Regression Methods

Grade Mode
Standard Letter

Repeat Status
NR

Course Description

Students learn multiple linear regression, diagnostics for outliers and influential points, robust regression, quantile regression, collinearity, variable selection, ridge regression, the LASSO and elastic net, generalized linear models, and non-linear regression methods including generalized additive models and tree-based methods. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

STAT6110 - Theory of Linear Models - 1 - Credits

Course Overview

Course Prefix
STAT

Course Number
6110

Department
Mathematics & Statistics

Course Title
Theory of Linear Models

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students learn mathematical development of linear models theory for estimation, hypothesis testing, and confidence regions in multiple linear regression; least squares estimation; the Gauss-Markov Theorem; distribution theory for quadratic forms in normal variables; derivation of the F-test; and confidence procedures.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Earn a minimum grade of C- in the following:

- STAT5100 - Modern Regression Methods (CI/QI)
  AND MATH5720 - Introduction to Mathematical Statistics

STAT6150 - SAS Predictive Analytics - 2 - Credits

Course Overview

Course Prefix
STAT

Course Number
6150

Department
Mathematics & Statistics

Dual-Listed Courses
STAT5150 - SAS Predictive Analytics

Course Title
SAS Predictive Analytics

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces SAS® predictive analytics tools in SAS® Enterprise Miner™ and SAS® STAT™. Topics include principal components analysis; clustering observation and variables; regression with regularization and model selection; and classification including decision trees, random forests, and support vector machines. For graduate (6000-level) credit, additional work is required.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Earn a minimum grade of C- in the following:

- STAT5650 - Applied Machine Learning and Multivariate Statistics

STAT6170 - Time Series and Forecasting - 2 - Credits

Course Overview

Course Prefix
STAT

Course Number
6170

Department
Mathematics & Statistics

Dual-Listed Courses
STAT5170 - Time Series and Forecasting

Course Title
Time Series and Forecasting

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students are introduced to linear time series analysis and ARIMA models. Topics include stationarity, differencing, AR, MA, and ARIMA models, modeling and forecasting with ARIMA models.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Other Enrollment Recommendations
Previous experience programming in R.

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Fulfill ANY of the following requirements:

Required

Earn a minimum grade of C- in the following:

- STAT5100 - Modern Regression Methods (CI/QI)
  OR STAT5050 - Introduction to R

STAT6180 - Financial Time Series - 2 - Credits

Course Overview

Course Prefix
STAT

Course Number
6180

Department
Mathematics & Statistics

Course Title
Financial Time Series

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces students to financial time series modeling covering the topics of asset volatility, GARCH models, high-frequency data, and risk management.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Earn a minimum grade of C- in the following:

- STAT5170 - Time Series and Forecasting
  OR STAT6170 - Time Series and Forecasting

STAT6200 - Analysis of Designed Experiments - 3 - Credits

Course Overview

Course Prefix
STAT

Course Number
6200

Department
Mathematics & Statistics

Dual-Listed Courses
STAT5200 - Analysis of Designed Experiments

Course Title
Analysis of Designed Experiments

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course teaches analysis of balanced experimental designs with fixed, random, crossed, and nested factors; factorial, nested, nested factorial, split plot, split block, and repeated measures designs; and fixed and mixed effects models, residual analysis, and post hoc mean comparisons. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

STAT6250 - Graduate Internship/Co-op - 1 - 8 Credits

Course Overview

Course Prefix
STAT

Course Number
6250

Department
Mathematics & Statistics

Course Title
Graduate Internship/Co-op

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Educational work experience at the graduate level.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
8

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
8

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
8

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
8

Lecture Hours Operator:
TO

Special Approval
Instructor permission

No Requirements

STAT6280 - Optimal Design of Experiments - 2 - Credits

Course Overview

Course Prefix
STAT

Course Number
6280

Department
Mathematics & Statistics

Course Title
Optimal Design of Experiments

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces modern experimental design from an optimization perspective. Topics covered include: deriving probability model information matrices, formulating the optimal design problem, learning different optimality criterion, and exploring computational algorithms to generate optimal designs.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- MATH5410 - Methods of Applied Mathematics
- MATH5420 - Partial Differential Equations
- STAT5100 - Modern Regression Methods (CI/QI)
- STAT5200 - Analysis of Designed Experiments

Course Learning Objectives

Course Learning Outcomes

1. Write the full linear or non-linear probability and statistical model which defines an experiment.

2. Derive the estimating equations for the written models

3. Understand and define design optimality objectives

4. Generate candidate optimal designs for the model/objective via several algorithms.

5. Analyze post-hoc competing candidate designs from several perspectives and learn how to select from the candidates the design which best suits the practitioners needs.

STAT6300 - Bayesian Statistical Methods and Data Analysis - 3 - Credits

Course Overview

Course Prefix
STAT

Course Number
6300

Department
Mathematics & Statistics

Course Title
Bayesian Statistical Methods and Data Analysis

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces the ideas of Bayesian theory and inference. Students are prepared to engage in research in Bayesian modeling and applications in this course that presents mathematical and programming concepts.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Other Enrollment Recommendations

STAT5100 MODERN REGRESSION METH(CI)(QI)

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- MATH2270 - Linear Algebra (QI)
  OR DSAI2275 - Linear Algebra for Data Science
- MATH5710 - Introduction to Probability

Course Learning Objectives

Course Learning Outcomes

1. Understand and explain how statistical inference differs between the classical (Frequentist) and Bayesian perspectives.
2. For a specified analysis task and data structure: select appropriate Bayesian modeling frameworks, specify appropriate prior distributions, construct likelihood functions, and derive the corresponding posterior distributions.
3. Conduct Bayesian inference and report it via graphical and numerical summaries of posterior distributions.
4. Understand Markov Chain Monte Carlo algorithms (integration and sampling) and implement direct sampling, Gibbs sampling, and the Metropolis-Hastings algorithm.
5. Be able to approach and use common computational tools supporting implementation of Bayesian data analysis: e.g. R, STAN, Bugs.
6. Be able to read and understand Bayesian data analysis as presented in the scientific literature.

STAT6410 - Applied Spatial Statistics - 2 - Credits

Course Overview

Course Prefix
STAT

Course Number
6410

Department
Mathematics & Statistics

Dual-Listed Courses
STAT5410 - Applied Spatial Statistics

Course Title
Applied Spatial Statistics

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers spatial data structures; spatial data exploration and visualization in R; spatial point patterns, spatially continuous data, and grid data; and nearest neighbor distances, K function, complete spatial randomness, variogram, kriging, and Moran's I. For 6000-level credit a major project is required.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Other Enrollment Recommendations
- STAT5550 STATISTICAL VISUALIZATION I
- STAT5560 STATISTICAL VISUALIZATION II/STAT6560 STATISTICAL VISUALIZATION II

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Earn a minimum grade of C- in the following:
- STAT3000 - Statistics for Scientists (QI)
  OR STAT5100 - Modern Regression Methods (CI/QI)
- STAT5050 - Introduction to R

STAT6500 - Biostatistics Methods - 3 - Credits

Course Overview

Course Prefix
STAT

Course Number
6500

Department
Mathematics & Statistics

Dual-Listed Courses
STAT5500 - Biostatistics Methods (DSC)

Course Title
Biostatistics Methods

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This is a survey of statistical methods frequently seen in biomedical applications, such as power calculations, multiple hypothesis testing, survival analysis, group sequential design, meta-analysis, and nonparametric tests. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Other Enrollment Recommendations
An introductory or intermediate applied statistics course (such as STAT2000 STATISTICAL METHODS (QI), STAT3000 STATISTICS FOR SCIENTISTS (QI), DATA3100 MAKING DECISIONS WITH DATA, SOC3120 SOCIAL STATISTICS I (QI), PSY3010 PSYCHOLOGICAL STAT (QI), APEC5330 APPLIED ECONOMETRICS (QI), ECN4330 ECONOMETRICS (QI), EDUC6050 APPLIED STATSTICAL ANALYSIS, or PSC5080 APPL STATS AGRICULTURAL RSRCH)

STAT6550 - Statistical Computing - 3 - Credits

Course Overview

Course Prefix
STAT

Course Number
6550

Department
Mathematics & Statistics

Course Title
Statistical Computing

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Survey of algorithms and tools for modern statistical computing. Topics include simulation design and implementation, algorithms for linear regression and subset selection, smoothing algorithms, fast fourier transform, EM algorithm, numerical methods for maximum likelihood estimation, and neural networks.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Other Enrollment Recommendations
Knowledge of a programming language

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Earn a minimum grade of C- in the following:

- MATH5720 - Introduction to Mathematical Statistics

STAT6555 - Advanced R Programming for Data Science - 3 - Credits

Course Overview

Course Prefix
STAT

Course Number
6555

Department
Mathematics & Statistics

Dual-Listed Courses
STAT5555 - Advanced R Programming for Data Science

Course Title
Advanced R Programming for Data Science

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This programming intensive course covers key tools and programming principles for conducting reproducible data analyses in the R programming language. Emphasis is placed on computational reproducibility and scalability as presented in the context of custom R package development. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Other Enrollment Recommendations
STAT5050 INTRODUCTION TO R (may be taken concurrently) or some other previous, formal exposure to the R programming language.

STAT6560 - Statistical Visualization II - 2 - Credits

Course Overview

Course Prefix
STAT

Course Number
6560

Department
Mathematics & Statistics

Dual-Listed Courses
STAT5560 - Statistical Visualization II

Course Title
Statistical Visualization II

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students learn about statistical and scientific visualization of statistical maps and high-dimensional data; historic developments of graphics; current frontiers in visualization, including interactive, dynamic, and web-based graphics; and discuss effective use of color and motion in graphics. For graduate (6000-level) credit, a major project is required.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Earn a minimum grade of C- in the following:
- STAT5050 - Introduction to R
- STAT5550 - Statistical Visualization I

STAT6570 - Statistical Bioinformatics - 2 - Credits

Course Overview

Course Prefix
STAT

Course Number
6570

Department
Mathematics & Statistics

Dual-Listed Courses
STAT5570 - Statistical Bioinformatics

Course Title
Statistical Bioinformatics

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces statistical methods for high dimensional biomedical data, primarily gene expression and sequence analysis, using Bioconductor tools. Topics include data visualization, differential expression (in high-dimensional count/ continuous data), annotation testing, scoring alignments, HMMs, and phylogenetic trees. For graduate (6000-level) credit additional work is required.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Earn a minimum grade of C- in the following:
- STAT5100 - Modern Regression Methods (CI/QI)
  OR STAT5200 - Analysis of Designed Experiments

STAT6645 - Mathematical Methods for Data Science - 3 - Credits

Course Overview

Course Prefix
STAT

Course Number
6645

Department
Mathematics & Statistics

Cross-Listed Courses
MATH6645 - Mathematical Methods for Data Science

Dual-Listed Courses
STAT5645 - Mathematical Methods for Data Science

Course Title
Mathematical Methods for Data Science

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides an in-depth overview of important mathematical principles and methods that underlie state-of-the art data science, statistical, and machine learning methods with a focus on linear algebra, multivariate calculus, and optimization and their data science applications. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Other Enrollment Recommendations

Experience in calculus (such as MATH1220 CALCULUS II (QL)), linear algebra (MATH2270 LINEAR ALGEBRA (QI)), and statistics/probability (such as STAT3000 STATISTICS FOR SCIENTISTS (QI) or MATH5710 INTRO TO PROBABILITY) are recommended. Experience programming in Python, R, or Matlab is essential for success in the course.

STAT6650 - Applied Machine Learning and Multivariate Statistics - 3 - Credits

Course Overview

Course Prefix
STAT

Course Number
6650

Department
Mathematics & Statistics

Dual-Listed Courses
STAT5650 - Applied Machine Learning and Multivariate Statistics

Course Title
Applied Machine Learning and Multivariate Statistics

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This broadly accessible course introduces students to several machine learning and multivariate statistics topics with a focus on real data applications. Topics include a range of approaches for classification, regression, dimensionality reduction, and cluster analysis. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Other Enrollment Recommendations

Experience in an applied regression course such as STAT5100 MODERN REGRESSION METH(CI)(QI)/STAT6100 MODERN REGRESSION METH or DATA5600 INTRO REGRESSION MACHINE LEARN. Programming experience in Python, R, or another related language is also recommended.

STAT6655 - Machine Learning - 3 - Credits

Course Overview

Course Prefix
STAT

Course Number
6655

Department
Mathematics & Statistics

Cross-Listed Courses
DSAI6655 - Machine Learning

Dual-Listed Courses
STAT5655 - Machine Learning

Course Title
Machine Learning

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides a practical and mathematical introduction to machine learning techniques and principles in supervised and unsupervised settings. Students learn to understand machine learning research papers and gain the practical experience to implement machine learning approaches on real data. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Other Enrollment Recommendations
Experience programming in Python, R, or Matlab is essential for success in the course. Some previous, formal exposure to the concepts of linear algebra, probability, and calculus.

STAT6680 - Statistical Thinking for Big Data - 2 - Credits

Course Overview

Course Prefix
STAT

Course Number
6680

Department
Mathematics & Statistics

Course Title

Statistical Thinking for Big Data

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students learn what Big Data is and how to visualize it. Topics include MapReduce, estimation and the bag of little bootstraps, and hypothesis testing, linear regression, classification, clustering, and nonlinear regression for Big Data.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Earn a minimum grade of C- in the following:

- STAT5050 - Introduction to R
- STAT5100 - Modern Regression Methods (CI/QI)
- STAT5650 - Applied Machine Learning and Multivariate Statistics

STAT6685 - Deep Learning Theory and Applications - 3 - Credits

Course Overview

Course Prefix
STAT

Course Number
6685

Department
Mathematics & Statistics

Dual-Listed Courses
STAT5685 - Deep Learning Theory and Applications

Course Title
Deep Learning Theory and Applications

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course takes a principled and hands-on approach to deep learning with neural networks, covering machine learning basics, backpropagation, stochastic gradient descent, regularization, and universality. Topics include CNNs, GANs, RNNs, GCNs, autoencoders, transformers, and other modern architectures and training techniques. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Other Enrollment Recommendations
The following courses or their equivalents: MATH1220 CALCULUS II (QL); MATH2270 LINEAR ALGEBRA (QI) or MATH5645 MATH METHODS FOR DATA SCIENCE or STAT5645 MATH METHODS FOR DATA SCIENCE or MATH6645 MATH METHODS FOR DATA SCIENCE or STAT6645 MATH METHODS FOR DATA SCIENCE; STAT3000 STATISTICS FOR SCIENTISTS (QI) or MATH5710 INTRO TO PROBABILITY. Programming experience, preferably in Python

STAT6710 - Mathematical Statistics I - 3 - Credits

Course Overview

Course Prefix
STAT

Course Number
6710

Department
Mathematics & Statistics

Course Title
Mathematical Statistics I

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course is an advanced mathematical statistics course covering the basics of measure-theoretic probability, random variables and random vectors, generating functions, and modes of stochastic convergence.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Earn a minimum grade of C- in the following:

- MATH5710 - Introduction to Probability

STAT6720 - Mathematical Statistics II - 3 - Credits

Course Overview

Course Prefix
STAT

Course Number
6720

Department
Mathematics & Statistics

Course Title
Mathematical Statistics II

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course is an advanced mathematical statistics course covering the basics of measure-theoretic probability, random variables and random vectors, generating functions, and modes of stochastic convergence.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Earn a minimum grade of C- in the following:

- STAT6710 - Mathematical Statistics I

STAT6810 - Topics in Statistics (Topic) - 1 - 3 Credits

Course Overview

Course Prefix
STAT

Course Number
6810

Department
Mathematics & Statistics

Course Title
Topics in Statistics (Topic)

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Topics vary by instructor each time course is offered.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

Special Approval

Instructor permission

No Requirements

STAT6820 - Topics in Statistics (Topic) - 1 - 3 Credits

Course Overview

Course Prefix
STAT

Course Number
6820

Department
Mathematics & Statistics

Course Title
Topics in Statistics (Topic)

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Topics vary by instructor each time the course is offered.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

Special Approval
Instructor permission

No Requirements

STAT6910 - Seminar in Statistics - 1 - 3 Credits

Course Overview

Course Prefix
STAT

Course Number
6910

Department
Mathematics & Statistics

Course Title
Seminar in Statistics

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Review of current literature and developments in statistics.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

Special Approval
Instructor permission

No Requirements

STAT6950 - Directed Reading and Conference - 1 - 4 Credits

Course Overview

Course Prefix
STAT

Course Number
6950

Department
Mathematics & Statistics

Course Title
Directed Reading and Conference

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course consists of directed readings on specific topics.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
4

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
4

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
4

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
4

Lecture Hours Operator:
TO

Special Approval
Prior arrangement with specific instructor

No Requirements

STAT6970 - Thesis and Research - 1 - 6 Credits

Course Overview

Course Prefix
STAT

Course Number
6970

Department
Mathematics & Statistics

Course Title
Thesis and Research

Grade Mode
Temporary Pass/Fail

Repeat Status
RP

Course Description
Outlining and conducting research in statistics. Thesis preparation.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
6

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
6

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
6

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
6

Lecture Hours Operator:
TO

No Requirements

STAT6990 - Continuing Graduate Advisement - 1 - 9 Credits

Course Overview

Course Prefix
STAT

Course Number
6990

Department
Mathematics & Statistics

Course Title
Continuing Graduate Advisement

Grade Mode
Temporary Pass/Fail

Repeat Status
RP

Course Description
This course provides graduate students with continued advisement. It is usually taken following completion of all coursework required for the degree.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
9

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
9

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
9

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
9

Lecture Hours Operator:
TO

No Requirements

STAT7110 - Linear Models (Topic) - 3 - Credits

Course Overview

Course Prefix
STAT

Course Number
7110

Department
Mathematics & Statistics

Course Title
Linear Models (Topic)

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course explores a particular topic in greater depth and with narrower focus than a conventional course.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

STAT7120 - Linear Models (Topic) - 3 - Credits

Course Overview

Course Prefix
STAT

Course Number
7120

Department
Mathematics & Statistics

Course Title
Linear Models (Topic)

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course explores a particular topic in greater depth and with narrower focus than a conventional course.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

STAT7180 - Time Series Analysis (Topic) - 3 - Credits

Course Overview

Course Prefix
STAT

Course Number
7180

Department
Mathematics & Statistics

Course Title
Time Series Analysis (Topic)

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course explores a particular topic in greater depth and with narrower focus than a conventional course.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

STAT7190 - Time Series Analysis (Topic) - 3 - Credits

Course Overview

Course Prefix
STAT

Course Number
7190

Department
Mathematics & Statistics

Course Title
Time Series Analysis (Topic)

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course explores a particular topic in greater depth and with narrower focus than a conventional course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

STAT7210 - Experimental Design (Topic) - 3 - Credits

Course Overview

Course Prefix
STAT

Course Number
7210

Department
Mathematics & Statistics

Course Title
Experimental Design (Topic)

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course explores a particular topic in greater depth and with narrower focus than a conventional course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

STAT7220 - Experimental Design (Topic) - 3 - Credits

Course Overview

Course Prefix
STAT

Course Number
7220

Department
Mathematics & Statistics

Course Title
Experimental Design (Topic)

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course explores a particular topic in greater depth and with narrower focus than a conventional course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

STAT7310 - Business and Industrial Statistics (Topic) - 3 - Credits

Course Overview

Course Prefix
STAT

Course Number
7310

Department
Mathematics & Statistics

Course Title
Business and Industrial Statistics (Topic)

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course explores a particular topic in greater depth and with narrower focus than a conventional course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

STAT7320 - Business and Industrial Statistics (Topic) - 3 - Credits

Course Overview

Course Prefix
STAT

Course Number
7320

Department
Mathematics & Statistics

Course Title
Business and Industrial Statistics (Topic)

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course explores a particular topic in greater depth and with narrower focus than a conventional course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

STAT7510 - Nonparametric Statistics (Topic) - 3 - Credits

Course Overview

Course Prefix
STAT

Course Number
7510

Department
Mathematics & Statistics

Course Title
Nonparametric Statistics (Topic)

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course explores a particular topic in greater depth and with narrower focus than a conventional course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

STAT7520 - Nonparametric Statistics (Topic) - 3 - Credits

Course Overview

Course Prefix
STAT

Course Number
7520

Department
Mathematics & Statistics

Course Title
Nonparametric Statistics (Topic)

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course explores a particular topic in greater depth and with narrower focus than a conventional course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

STAT7550 - Computational and Graphical Statistics (Topic) - 3 - Credits

Course Overview

Course Prefix
STAT

Course Number
7550

Department
Mathematics & Statistics

Course Title
Computational and Graphical Statistics (Topic)

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course explores a particular topic in greater depth and with narrower focus than a conventional course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

STAT7560 - Computational and Graphical Statistics (Topic) - 3 - Credits

Course Overview

Course Prefix
STAT

Course Number
7560

Department
Mathematics & Statistics

Course Title
Computational and Graphical Statistics (Topic)

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course explores a particular topic in greater depth and with narrower focus than a conventional course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

STAT7610 - Multivariate Statistics (Topic) - 3 - Credits

Course Overview

Course Prefix
STAT

Course Number
7610

Department
Mathematics & Statistics

Course Title
Multivariate Statistics (Topic)

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course explores a particular topic in greater depth and with narrower focus than a conventional course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

STAT7620 - Multivariate Statistics (Topic) - 3 - Credits

Course Overview

Course Prefix
STAT

Course Number
7620

Department
Mathematics & Statistics

Course Title
Multivariate Statistics (Topic)

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course explores a particular topic in greater depth and with narrower focus than a conventional course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

STAT7710 - Mathematical Statistics (Topic) - 3 - Credits

Course Overview

Course Prefix
STAT

Course Number
7710

Department
Mathematics & Statistics

Course Title
Mathematical Statistics (Topic)

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course explores a particular topic in greater depth and with narrower focus than a conventional course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

STAT7720 - Mathematical Statistics (Topic) - 3 - Credits

Course Overview

Course Prefix
STAT

Course Number
7720

Department
Mathematics & Statistics

Course Title
Mathematical Statistics (Topic)

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course explores a particular topic in greater depth and with narrower focus than a conventional course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

STAT7730 - Bayesian Statistics and Decision Theory (Topic) - 3 - Credits

Course Overview

Course Prefix
STAT

Course Number
7730

Department
Mathematics & Statistics

Course Title
Bayesian Statistics and Decision Theory (Topic)

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course explores a particular topic in greater depth and with narrower focus than a conventional course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

STAT7740 - Bayesian Statistics and Decision Theory (Topic) - 3 - Credits

Course Overview

Course Prefix
STAT

Course Number
7740

Department
Mathematics & Statistics

Course Title
Bayesian Statistics and Decision Theory (Topic)

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course explores a particular topic in greater depth and with narrower focus than a conventional course.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

STAT7810 - Topics in Statistics (Topic) - 1 - 3 Credits

Course Overview

Course Prefix
STAT

Course Number
7810

Department
Mathematics & Statistics

Course Title
Topics in Statistics (Topic)

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course explores a particular topic in greater depth and with narrower focus than a conventional course.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

No Requirements

STAT7815 - Research Mentoring in Data Science and Statistics - 1 - 3 Credits

Course Overview

Course Prefix
STAT

Course Number
7815

Department
Mathematics & Statistics

Course Title
Research Mentoring in Data Science and Statistics

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Students mentor undergraduate students on a semester-long research project in statistics or data science with topics determined by the instructor. Research may be theoretical or applied.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

Special Approval
Instructor Permission

Course Learning Objectives

Course Learning Outcomes
Students will learn to

1. Appropriately delegate and assign tasks necessary to complete a research project.
2. Provide constructive feedback to mentees.
3. Foster a supportive environment for mentees, while still providing sufficient latitude for independent work.
4. Effectively revise and edit draft research materials, in preparation for oral, poster, and written presentations.

STAT7820 - Topics in Statistics (Topic) - 1 - 3 Credits

Course Overview

Course Prefix
STAT

Course Number
7820

Department
Mathematics & Statistics

Course Title
Topics in Statistics (Topic)

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course explores a particular topic in greater depth and with narrower focus than a conventional course.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

No Requirements

STAT7970 - Dissertation Research - 1 - 15 Credits

Course Overview

Course Prefix
STAT

Course Number
7970

Department
Mathematics & Statistics

Course Title
Dissertation Research

Grade Mode
Temporary Pass/Fail

Repeat Status
RP

Course Description
This course allows students to pursue research toward the Ph.D. degree.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
15

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
15

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
15

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
15

Lecture Hours Operator:
TO

No Requirements

STAT7990 - Continuing Graduate Advisement - 1 - 9 Credits

Course Overview

Course Prefix
STAT

Course Number
7990

Department
Mathematics & Statistics

Course Title
Continuing Graduate Advisement

Grade Mode
Temporary Pass/Fail

Repeat Status
RP

Course Description
This course provides graduate students with continued advisement. It is usually taken following completion of all coursework required for the degree.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
9

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
9

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
9

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
9

Lecture Hours Operator:
TO

No Requirements

SURG1030 - Surgical Technology I - 6 - Credits

Course Overview

Course Prefix
SURG

Course Number
1030

Department
Technology, Design & Technical Ed

Course Title
Surgical Technology I

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This is a review of skills and competencies necessary for surgical technicians. Topics covered include state law and ethics, general surgical procedure responsibilities. and the role of maintaining a safe and sterile environment in the operating room.

Credit Hours

Credit Hours Min:
6

Contact Hours

Contact Hours Min:
6

Billing Hours

Billing Hours Min:
6

Lecture Hours

Lecture Hours Min:
6

Registration Restrictions
Admission to the Surgical Technician Certificate program

No Requirements

SURG1035 - Surgical Technology Lab I - 4 - Credits

Course Overview

Course Prefix
SURG

Course Number
1035

Department
Technology, Design & Technical Ed

Course Title
Surgical Technology Lab I

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This is an externship experience related to surgical technician duties and responsibilities. It includes the exploration of various surgical specialties including general surgery, genitourinary, oral and maxillofacial, ENT and opthalmic surgery. Review of patient preparation and instrumentation is emphasized.

Credit Hours

Credit Hours Min:
4

Contact Hours

Contact Hours Min:
4

Billing Hours

Billing Hours Min:
4

Lecture Hours

Lecture Hours Min:
4

Registration Restrictions

Admission to the Surgical Technician Certificate Program

SURG1040 - Surgical Technology II - 6 - Credits

Course Overview

Course Prefix
SURG

Course Number
1040

Department
Technology, Design & Technical Ed

Course Title
Surgical Technology II

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course is a review of factors associated with specialty surgeries including plastic and reconstructive surgery, orthopedic surgery, neurosurgery, cardiothoracic surgery, and peripheral vascular surgery.

Credit Hours

Credit Hours Min:
6

Contact Hours

Contact Hours Min:
6

Billing Hours

Billing Hours Min:
6

Lecture Hours

Lecture Hours Min:
6

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- SURG1030 - Surgical Technology I

SURG1045 - Surgical Technology Lab II - 2 - Credits

Course Overview

Course Prefix
SURG

Course Number
1045

Department
Technology, Design & Technical Ed

Course Title
Surgical Technology Lab II

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides a continuation of skill development from SURG 1035. Covered topics include general, gastrointestinal, obstetric, gynecological, genitourinary, oral and maxillofacial, ENT, and ophthalmic surgery. Surgical procedures, patient preparation, and instrumentation are included.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- SURG1035 - Surgical Technology Lab I

SURG1050 - Surgical Technology III - 6 - Credits

Course Overview

Course Prefix
SURG

Course Number
1050

Department
Technology, Design & Technical Ed

Course Title
Surgical Technology III

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces students to otorhinolaryngology (ENT), orthopedic, oral/maxillofacial, plastics, and reconstructive surgical procedures. Students gain knowledge and understanding of each surgical procedure illustrated and techniques necessary to function as a surgical technologist in the operating room.

Credit Hours

Credit Hours
Min:
6

Contact Hours

Contact Hours
Min:
6

Billing Hours

Billing Hours
Min:
6

Lecture Hours

Lecture Hours
Min:
6

No Requirements

SURG1055 - Surgical Technology III Laboratory - 2 - Credits

Course Overview

Course Prefix
SURG

Course Number
1055

Department
Technology, Design & Technical Ed

Course Title
Surgical Technology III Laboratory

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This laboratory course complements didactic course material in SURG 1050 and builds on the surgical technology student's psychomotor and cognitive skills to enhance performance in the primary and second scrub roles during select surgical procedures.

Credit Hours

Credit Hours Min:
2

Contact Hours

Contact Hours Min:
2

Billing Hours

Billing Hours Min:
2

Lecture Hours

Lecture Hours Min:
2

No Requirements

SURG1060 - Surgical Technology IV - 6 - Credits

Course Overview

Course Prefix
SURG

Course Number
1060

Department
Technology, Design & Technical Ed

Course Title
Surgical Technology IV

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students learn techniques necessary to function as a surgical technician in the operating room in the following specialties: ophthalmic, cardiothoracic, peripheral vascular, and neurosurgical procedures.

Credit Hours

Credit Hours Min:
6

Contact Hours

Contact Hours Min:
6

Billing Hours

Billing Hours Min:
6

Lecture Hours

Lecture Hours Min:
6

No Requirements

SURG1065 - Surgical Technology IV Lab - 2 - Credits

Course Overview

Course Prefix
SURG

Course Number
1065

Department
Technology, Design & Technical Ed

Course Title
Surgical Technology IV Lab

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students prepare for entry into professional practice and successful completion of the certification exam by facilitating a complete CST review including practice exams, test-taking strategies, weekly practice quizzes, resume preparation and mock job interviews.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

No Requirements

SURG1600 - Surgical Technology Clinical Competencies I - 2 - Credits

Course Overview

Course Prefix
SURG

Course Number
1600

Department
Technology, Design & Technical Ed

Course Title
Surgical Technology Clinical Competencies I

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This is a skills laboratory setting for students to develop proficiencies in duties and responsibilities related to surgery. Exposure to clinical surgical settings, instrumentation and equipment are emphasized for students to develop skill and confidence with these procedures.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Registration Restrictions

Admission to the Surgical Technician Certificate program

No Requirements

SURG1700 - Surgical Technology Clinical Competencies II - 4 - Credits

Course Overview

Course Prefix
SURG

Course Number
1700

Department
Technology, Design & Technical Ed

Course Title
Surgical Technology Clinical Competencies II

Grade Mode
Standard Letter

Repeat Status
NR

Course Description

This is an extension of SURG 1600 where proficiencies in the duties and responsibilities related to surgery are enhanced. Exposure to clinical surgical settings, instrumentation, and equipment are emphasized for students to develop skill and confidence with these procedures. Externship experiences are included.

Credit Hours

Credit Hours
Min:
4

Contact Hours

Contact Hours
Min:
4

Billing Hours

Billing Hours
Min:
4

Lecture Hours

Lecture Hours
Min:
4

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- SURG1600 - Surgical Technology Clinical Competencies I

SURG1800 - Surgical Technology III Clinical Competency - 6 - Credits

Course Overview

Course Prefix
SURG

Course Number
1800

Department
Technology, Design & Technical Ed

Course Title
Surgical Technology III Clinical Competency

Grade Mode
Standard Letter

Repeat Status
NR

Course Description

This course provides opportunities to practice and experience the first scrub role. The second scrub role may be practiced once skills are acquired. Clinical rotations in hospitals provide surgical cases for certification.

Credit Hours

Credit Hours
Min:
6

Contact Hours

Contact Hours
Min:
6

Billing Hours

Billing Hours
Min:
6

Lecture Hours

Lecture Hours
Min:
6

No Requirements

SURG1900 - Surgical Technology IV Clinical Competency Externship - 6 - Credits

Course Overview

Course Prefix
SURG

Course Number
1900

Department
Technology, Design & Technical Ed

Course Title
Surgical Technology IV Clinical Competency Externship

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students are assigned clinical externships in hospitals to provide experience in progressively more complex first scrub role procedures. Students complete a minimum of 120 cases under the supervision of an experienced surgical technologist or registered nurse.

Credit Hours

Credit Hours
Min:
6

Contact Hours

Contact Hours
Min:
6

Billing Hours

Billing Hours
Min:
6

Lecture Hours

Lecture Hours
Min:
6

No Requirements

SW1010 - Introduction to Social Welfare (BSS) - 3 - Credits

Course Overview

Course Prefix
SW

Course Number
1010

Department
Social Work

Course Title
Introduction to Social Welfare (BSS)

General Education Attribute
BSS

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Foundation course to facilitate development of an approach to thinking about social welfare. Explores broad common base of social work professional values, knowledge, skills, social policies, and programs.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

SW2100 - Human Behavior in the Social Environment - 3 - Credits

Course Overview

Course Prefix
SW

Course Number
2100

Department
Social Work

Course Title
Human Behavior in the Social Environment

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers the interrelatedness of social, cultural, and environmental factors that combine with biological and psychological components to mold human behavior. It also covers the relevance of these factors to generalist social work practice.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

SW2400 - Social Work with Diverse Populations - 3 - Credits

Course Overview

Course Prefix
SW

Course Number
2400

Department
Social Work

Course Title
Social Work with Diverse Populations

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course examines characteristics of various populations, including patterns, dynamics, and consequences of discrimination, economic deprivation, and oppression. Emphasis is placed on empowerment of groups and individuals, as well as the accumulation of multicultural competence.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

May be taken concurrently.

Complete ALL of the following Courses:

- SW1010 - Introduction to Social Welfare (BSS)

SW3000 - BSW Orientation - 1 - Credits

Course Overview

Course Prefix
SW

Course Number
3000

Department
Social Work

Course Title
BSW Orientation

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course orients students to the BSW Program and professional standards. Program expectations, policies, accountability, presence, communication, self-awareness, and core social work values are introduced to support professional socialization and readiness for upper-division coursework and the social work profession.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Registration Restrictions
Admission to SW program.

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- SW1010 - Introduction to Social Welfare (BSS)
- SW2100 - Human Behavior in the Social Environment
- SW2400 - Social Work with Diverse Populations

Course Learning Objectives

Course Learning Outcomes

1. **Explain and apply BSW program policies, expectations, and professional standards**, including expectations for presence, accountability, and responsible use of self within the program.
2. **Demonstrate professional use of self** through appropriate presence, proactive and responsive communication, receptivity to feedback, and professional behavior in interactions with faculty, staff, and peers.
3. **Reflect on personal readiness for professional social work education**, including cognitive and psycho-emotional readiness, self-awareness, and alignment with core social work values and ethical responsibilities.

SW3050 - Practice I - 3 - Credits

Course Overview

Course Prefix
SW

Course Number
3050

Department
Social Work

Course Title
Practice I

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course is an introduction of generalist social work framework as an integrative tool, with special attention shown to strengths and empowerment perspective. Individuals as targets for change.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Admission to the Social Work program

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- SW1010 - Introduction to Social Welfare (BSS)
- SW2100 - Human Behavior in the Social Environment
- SW2400 - Social Work with Diverse Populations

SW3350 - Child Welfare - 3 - Credits

Course Overview

Course Prefix
SW

Course Number
3350

Department
Social Work

Course Title
Child Welfare

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students explore the impact of poverty and violence on children. Students also examine the changing American family and various systems that impact children, including the Child Welfare System and the Juvenile Justice System.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

SW3360 - Adolescents: Theories, Problems, and Issues - 3 - Credits

Course Overview

Course Prefix
SW

Course Number
3360

Department
Social Work

Course Title
Adolescents: Theories, Problems, and Issues

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course focuses on major social problems confronting youth today: teenage pregnancy, substance abuse, unemployment, education, and mental health. It includes investigation of theories explaining these problems and society's efforts to resolve these problems.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

SW3450 - School Social Work - 3 - Credits

Course Overview

Course Prefix
SW

Course Number
3450

Department
Social Work

Course Title
School Social Work

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course is designed for students to learn about school social work. It builds on the knowledge, values, and skills common to generalist social work, utilizing an ecological framework with emphasis on working with children, family, school, and community systems.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

SW3540 - Forensic Child Welfare - 3 - Credits

Course Overview

Course Prefix
SW

Course Number
3540

Department
Social Work

Course Title
Forensic Child Welfare

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course deepens understanding of child welfare and forensic social work, focusing on legal aspects, the American legal system, juvenile justice, child maltreatment, and forensic interviewing. It builds on prior knowledge and enhances skills for working with justice-involved children and families.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Course Learning Objectives

Course Learning Outcomes

1. Articulate and apply relevant theoretical frameworks and approaches to client populations impacted by legal issues.
2. Demonstrate an understanding of the structure and processes of the legal system in the United States and how it impacts social work practice with diverse populations with an emphasis on child welfare practice.
3. Critically analyze ethical and legal issues related to social work and the law.
4. Develop familiarity with the adversarial nature of the legal process and with the civil and criminal issues and laws that impact client populations.
5. Identify social and legal issues and their relationship to human rights, social justice, and social welfare.
6. Demonstrate how to work and advocate on behalf of their clients and learn how social workers interface with the law, lawyers, & the courts.

SW3580 - Crisis Intervention Response - 3 - Credits

Course Overview

Course Prefix
SW

Course Number
3580

Department
Social Work

Course Title
Crisis Intervention Response

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course trains students in crisis response through assessment, practical skills, cultural competence, and evidence-based interventions, preparing them for State of Utah crisis worker certification and equipping them with advanced, trauma-informed crisis intervention techniques.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Provide a theoretical basis of assessment and intervention with individuals experiencing critical life events.

2. Critically evaluate and apply evidenced based crisis interventions.

3. Identify the major legal/ethical issues that are relevant to crises.

4. Explain the need for cultural sensitivity in crisis intervention.

5. Apply course content to multidimensional assessments for social work practice.

6. Apply theory and practice models on the micro, mezzo, and macro levels related to crisis intervention.

SW3650 - Mental Health - 3 - Credits

Course Overview

Course Prefix
SW

Course Number
3650

Department
Social Work

Course Title
Mental Health

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers services offered for the prevention and treatment of mental illness and the feasibility of social action programs on a community level.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

SW3850 - Spirituality and Social Work - 3 - Credits

Course Overview

Course Prefix
SW

Course Number
3850

Department
Social Work

Course Title
Spirituality and Social Work

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides a framework of knowledge, values, skills, and experiences for spiritually sensitive social work practice.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

SW4100 - Social Work Research (CI) - 3 - Credits

Course Overview

Course Prefix
SW

Course Number
4100

Department
Social Work

Course Title
Social Work Research (CI)

General Education Attribute
CI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course encompasses a survey of qualitative and quantitative scientific methods of research in social work. Articulation of research with practice and policy is also covered.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Admission to the Social Work program

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- SW1010 - Introduction to Social Welfare (BSS)
- SW2100 - Human Behavior in the Social Environment
- SW2400 - Social Work with Diverse Populations

SW4150 - Practice II - 3 - Credits

Course Overview

Course Prefix
SW

Course Number
4150

Department
Social Work

Course Title
Practice II

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Building upon foundational skills from SW 3050 and SW 4100, this course explores mezzo-level generalist social work practice, emphasizing strengths- and empowerment-based small group engagement, assessment, intervention, evaluation, and ethical practice with diverse populations.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- SW3050 - Practice I
- SW4100 - Social Work Research (CI)

SW4160 - Practice III - 3 - Credits

Course Overview

Course Prefix
SW

Course Number
4160

Department
Social Work

Course Title
Practice III

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Building upon foundational practice skills developed in SW 3050 and SW 4100, this course introduces macro-level generalist social work practice, emphasizing ethical and professional practice, responsiveness to diversity and difference, and strengths- and empowerment-based work with groups, organizations, and communities.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- SW3050 - Practice I
- SW4100 - Social Work Research (CI)

SW4870 - Beginning Field Practicum - 6 - Credits

Course Overview

Course Prefix
SW

Course Number
4870

Department
Social Work

Course Title
Beginning Field Practicum

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Practical experience in a social service agency. Seminar integrates field work experiences and academic knowledge. Emphasizes use of self and integration of knowledge, values, skills, and methods of practice, with special emphasis given to the code of ethics.

Credit Hours

Credit Hours
Min:
6

Contact Hours

Contact Hours
Min:
6

Billing Hours

Billing Hours
Min:
6

Lecture Hours

Lecture Hours
Min:
6

Registration Restrictions

Admission to the Social Work program

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- SW3050 - Practice I
- SW4100 - Social Work Research (CI)
- SW4150 - Practice II
- SW4160 - Practice III

SW4900 - Topical Issue Seminar - 3 - Credits

Course Overview

Course Prefix
SW

Course Number
4900

Department
Social Work

Course Title
Topical Issue Seminar

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This advanced seminar is designed as a forum for students from varied social science disciplines. Seminars may include issues involved in social work values and ethics, diversity, promotion of social and economic justice, and/or populations-at-risk.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Special Approval
Instructor permission

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- SW1010 - Introduction to Social Welfare (BSS)
- SW2100 - Human Behavior in the Social Environment
- SW2400 - Social Work with Diverse Populations

SW4925 - Resilience and Human Flourishing - 3 - Credits

Course Overview

Course Prefix
SW

Course Number
4925

Department
Social Work

Course Title
Resilience and Human Flourishing

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
In this course, students learn the science of resilience and develop skills to increase resilience during and after stressful life events, to enhance performance in academic, workplace, and other demanding contexts, and to improve productivity and well-being.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

SW4950 - Directed Readings - 1 - 5 Credits

Course Overview

Course Prefix
SW

Course Number
4950

Department
Social Work

Course Title
Directed Readings

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Independent readings in various areas of social work: practice, policy, HBSE, research, populations-at-risk, values and ethics, social and economic justice, and diversity.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
5

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
5

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
5

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
5

Lecture Hours Operator:
TO

Special Approval
Advisor permission

SW5010 - Spanish for Social Services - 3 - Credits

Course Overview

Course Prefix
SW

Course Number
5010

Department
Social Work

Dual-Listed Courses
SW6010 - Spanish for Social Services

Course Title
Spanish for Social Services

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course is designed to provide students with specialized Spanish language development, cultural competency instruction, and enhanced communication skills for working with Spanish-speaking populations in social service related fields. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Special Approval
Instructor permission

Other Enrollment Recommendations
SPAN2020 SPANISH SECOND YR II

SW5040 - Community Justice Advocacy: Debt Navigation - 3 - Credits

Course Overview

Course Prefix
SW

Course Number
5040

Department
Social Work

Dual-Listed Courses
SW6040 - Community Justice Advocacy: Debt Navigation

Course Title
Community Justice Advocacy: Debt Navigation

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course prepares future human service professionals as Community Justice Advocates (CJAs). Students learn consumer debt law, court procedures, and professional ethics through coursework and experiential learning. Completion awards CJA Debt Navigator credential to provide limited-scope legal service in Utah. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Registration Restrictions
Students must be at least a Junior to take this course.

Special Approval
Department permission

Other Enrollment Recommendations
It's recommended that students have taken classes related to social work, psychology, sociology, criminal justice, political science, marriage and family therapy, counseling, nursing, and other related fields. This course requires volunteer hours and community engagement. Experience working or volunteering in human service-related fields is preferred.

Course Learning Objectives

Course Learning Outcomes
1. Demonstrate ethical and professional behavior within scope of practice.
2. Assess an individual's legal and financial risk associated with debt.
3. Explain the legal and procedural stages of debt collection.
4. Determine an individual's stage in the debt collection process.
5. Design and facilitate tailored resolutions to disputes involving debt.
6. Explain civil court procedures and support clients in navigating required steps.

SW5350 - Social Policy and Social Justice (CI) - 3 - Credits

Course Overview

Course Prefix
SW

Course Number
5350

Department
Social Work

Course Title
Social Policy and Social Justice (CI)

General Education Attribute
CI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces policy making in social welfare. It covers principles of social and economic justice used to analyze selected social policies and programs within a historical and contemporary context. Attention is given to differential impact on at-risk populations.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Admission to the Social Work - BA, BS program.

Simple Requisites

Corequisite

Type
Corequisite

Required

Enroll in the following Courses:

- SW4870 - Beginning Field Practicum

SW5400 - Social Work Ethics - 3 - Credits

Course Overview

Course Prefix
SW

Course Number
5400

Department
Social Work

Dual-Listed Courses
SW5870 - Advanced Field Practicum

Course Title
Social Work Ethics

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course familiarizes students with the NASW Code of Ethics and legal processes associated with social work practice thereby enhancing professional competence. A method for resolving ethical dilemmas in a manner consistent with professional values and standards will be explored.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Admission to Social Work - BA, BS

Simple Requisites

Corequisite

Type
Corequisite

Required

Enroll in the following Courses:

- SW5870 - Advanced Field Practicum

Course Learning Objectives

Course Learning Outcomes

1. Demonstrate professional and ethical behavior by recognizing and managing personal values in a way that allows professional values to guide practice, making ethical decisions by applying standards of the NASW Code of Ethics, and by tolerating ambiguity in resolving ethical conflicts.
2. Engage Anti-Racism, Diversity, Equity, and Inclusion in practice by gaining sufficient self-awareness to identify and manage the influence of personal biases and values when working with diverse groups.

SW5525 - Aging in the 21st Century - 3 - Credits

Course Overview

Course Prefix
SW

Course Number
5525

Department
Social Work

Dual-Listed Courses

SW6525 - Aging in the 21st Century

Course Title

Aging in the 21st Century

Grade Mode
Standard Letter

Repeat Status
NR

Course Description

This course examines the social context of aging, the aging process, and implications for planning and management of direct services for older adults. The course discusses practice approaches for older adults, used for purposes of appropriate assessment and intervention. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

SW5530 - Social Work and Community Health - 3 - Credits

Course Overview

Course Prefix
SW

Course Number
5530

Department
Social Work

Dual-Listed Courses

SW6530 - Social Work and Community Health

Course Title

Social Work and Community Health

Grade Mode
Standard Letter

Repeat Status
NR

Course Description

This course provides an introduction to the social determinants of health, cultural humility and ethics, neighborhoods and health, food environment and nutrition, chronic conditions, and epidemiology and infectious diseases and how these intersect with social work practice. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

SW5540 - Nonprofit Management for Social Workers - 3 - Credits

Course Overview

Course Prefix
SW

Course Number
5540

Department
Social Work

Dual-Listed Courses
SW6540 - Nonprofit Management for Social Workers

Course Title
Nonprofit Management for Social Workers

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course examines the history of nonprofits and the aptness of these organizations to providing social work employment. It also covers applied knowledge and skills related to managing nonprofits, such as strategic planning, human resources, fundraising, and marketing. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

SW5575 - Substance Use Disorders: Approaches to Treatment and Policy - 3 - Credits

Course Overview

Course Prefix
SW

Course Number
5575

Department
Social Work

Dual-Listed Courses
SW6575 - Substance Use Disorders: Approaches to Treatment and Policy

Course Title
Substance Use Disorders: Approaches to Treatment and Policy

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course trains students in evidence-based substance use disorder treatment using a biopsychosocial model, covering addiction history, policies, physiological effects of substances, and assessment, diagnosis, and intersectional considerations for working with affected individuals. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- SW1010 - Introduction to Social Welfare (BSS)
- SW2100 - Human Behavior in the Social Environment
- SW2400 - Social Work with Diverse Populations

SW5580 - Grief and Loss in Social Work Practice - 3 - Credits

Course Overview

Course Prefix
SW

Course Number
5580

Department
Social Work

Dual-Listed Courses
SW6580 - Grief and Loss in Social Work Practice

Course Title
Grief and Loss in Social Work Practice

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course examines the universal human experiences of grief and loss. Students explore different types of loss across the lifespan as well as meaningful ways to support those experiencing them. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

SW5870 - Advanced Field Practicum - 6 - Credits

Course Overview

Course Prefix
SW

Course Number
5870

Department
Social Work

Course Title
Advanced Field Practicum

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Supervised social work practice and projects. Provides opportunities for advanced social work students to apply classroom learning in a field setting. Minimum of 240 hours in a social service agency required.

Credit Hours

Credit Hours
Min:
6

Contact Hours

Contact Hours
Min:
6

Billing Hours

Billing Hours
Min:
6

Lecture Hours

Lecture Hours
Min:
6

Special Approval
Department permission

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- SW4870 - Beginning Field Practicum

SW5901 - Human Behavior in the Social Environment - 3 - Credits

Course Overview

Course Prefix
SW

Course Number
5901

Department
Social Work

Course Title
Human Behavior in the Social Environment

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This foundation course is designed to address the SSW licensing needs of non-social work majors seeking employment in the social work profession. The purpose of this course is to study and understand why people behave as they do and make application of this knowledge to professional social work practice.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

SW5902 - Social Work Practice Methods - 3 - Credits

Course Overview

Course Prefix
SW

Course Number
5902

Department
Social Work

Course Title
Social Work Practice Methods

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This foundation course is designed to address the SSW licensing needs of non-social work majors seeking employment in the social work profession. This course combines readings, lectures, discussions, classroom exercises, and experiential activities to develop students' competencies for generalist practice.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

SW5903 - Social Welfare Policy - 3 - Credits

Course Overview

Course Prefix
SW

Course Number
5903

Department
Social Work

Course Title
Social Welfare Policy

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This foundational course helps non-social work majors meet licensing requirements by introducing major social problems addressed through welfare policies. Students use a policy-analysis framework to examine the basic components, strengths, and limits of selected social welfare policies.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

SW5920 - Trauma and Resilience - 3 - Credits

Course Overview

Course Prefix
SW

Course Number
5920

Department
Social Work

Dual-Listed Courses
SW6920 - Trauma and Resilience

Course Title
Trauma and Resilience

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course explores the impact of trauma as well as human resilience despite adverse experiences. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

SW6000 - Principles and Philosophy of Social Work - 3 - Credits

Course Overview

Course Prefix
SW

Course Number
6000

Department
Social Work

Course Title
Principles and Philosophy of Social Work

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course explores history, traditions, ethics, purpose, philosophy, and knowledge base of the social work profession. It introduces generalist social work problem-solving approach.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

SW6010 - Spanish for Social Services - 3 - Credits

Course Overview

Course Prefix
SW

Course Number
6010

Department
Social Work

Dual-Listed Courses
SW5010 - Spanish for Social Services

Course Title
Spanish for Social Services

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course is designed to provide students with specialized Spanish language development, cultural competency instruction, and enhanced communication skills for working with Spanish-speaking populations in social service related fields. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Special Approval
Instructor permission

Other Enrollment Recommendations
SPAN2020 SPANISH SECOND YR II

SW6040 - Community Justice Advocacy: Debt Navigation - 3 - Credits

Course Overview

Course Prefix
SW

Course Number
6040

Department
Social Work

Dual-Listed Courses
SW5040 - Community Justice Advocacy: Debt Navigation

Course Title
Community Justice Advocacy: Debt Navigation

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course prepares future human service professionals as Community Justice Advocates (CJAs). Students learn consumer debt law, court procedures, and professional ethics through coursework and experiential learning. Completion awards CJA Debt Navigator credential to provide limited-scope legal service in Utah. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Special Approval
Department permission

Other Enrollment Recommendations
It's recommended that students have taken classes related to social work, psychology, sociology, criminal justice, political science, marriage and family therapy, counseling, nursing, and other related fields. This course requires volunteer hours and community engagement. Experience working or volunteering in human service-related fields is preferred.

Course Learning Objectives

Course Learning Outcomes
1. Demonstrate ethical and professional behavior within scope of practice.
2. Assess an individual's legal and financial risk associated with debt.
3. Explain the legal and procedural stages of debt collection.
4. Determine an individual's stage in the debt collection process.
5. Design and facilitate tailored resolutions to disputes involving debt.
6. Explain civil court procedures and support clients in navigating required steps.

SW6050 - HBSE: Individuals and Families in Their Environment - 3 - Credits

Course Overview

Course Prefix
SW

Course Number
6050

Department
Social Work

Course Title
HBSE: Individuals and Families in Their Environment

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Presents and critiques knowledge of human development from infancy to late adolescence in the context of individuals and families. Identifies relationships between theoretical frameworks and various biopsychosocial environments.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

SW6100 - Generalist Practice I: SW Practice with Individuals, Families, and Groups - 3 - Credits

Course Overview

Course Prefix
SW

Course Number
6100

Department
Social Work

Course Title
Generalist Practice I: SW Practice with Individuals, Families, and Groups

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Provides a beginning and general base of practice knowledge, values, and skills for work with individuals, families, and treatment groups in a variety of community and agency contexts.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

SW6150 - Generalist Practice II: SW Practice with Groups, Organizations, and Communities - 3 - Credits

Course Overview

Course Prefix
SW

Course Number
6150

Department
Social Work

Course Title
Generalist Practice II: SW Practice with Groups, Organizations, and Communities

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Provides a beginning and general base of practice knowledge, values, and skills for work with groups, organizations, and communities.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

SW6200 - Social Work Research Methods - 3 - Credits

Course Overview

Course Prefix
SW

Course Number
6200

Department
Social Work

Course Title
Social Work Research Methods

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Introduction to qualitative and quantitative social work research in context of generalist problem-solving approach.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

SW6300 - Social Policy Analysis - 3 - Credits

Course Overview

Course Prefix
SW

Course Number
6300

Department
Social Work

Course Title
Social Policy Analysis

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Foundation policy course providing comprehensive exploration of theory, history, structure, and impact of social welfare policy on individuals, families, groups, organizations, and institutions.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

SW6350 - Emotionally Focused Therapy: Advanced Practice - 3 - Credits

Course Overview

Course Prefix
SW

Course Number
6350

Department
Social Work

Course Title
Emotionally Focused Therapy: Advanced Practice

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course trains students in Emotionally Focused Therapy (EFT), a leading couples counseling method. Through immersive learning, students master advanced EFT techniques to enhance emotional connections, improve relationships, and achieve breakthroughs in couples, family, and individual therapy.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Course Learning Objectives

Course Learning Outcomes

1. Students will be able to identify key techniques and interventions used in Emotionally Focused Therapy and apply these methods to help clients understand and manage their emotional responses and relational patterns.

2. Students will develop the skills to analyze and assess the emotional dynamics and attachment patterns within couples, individuals, and families, allowing them to recognize and address underlying issues that impact relationship satisfaction and stability.

3. Students will gain experience in navigating advanced therapeutic challenges, including infidelity and attachment injuries, highly escalated couples, therapist encounters in individual therapy, addressing family dynamics, sexual cycle, anger, shame, trauma, ambivalence, and shaping effective couple enactments. They will also enhance their ability to engage with live emotions in a non-pathologizing, humanistic manner, fostering a supportive therapeutic environment for nuanced and sensitive cases.

SW6370 - Acceptance and Commitment Therapy: Theory and Practice - 3 - Credits

Course Overview

Course Prefix
SW

Course Number
6370

Department
Social Work

Course Title
Acceptance and Commitment Therapy: Theory and Practice

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides an in-depth exploration of Acceptance and Commitment Therapy (ACT), focusing on its theoretical foundations and clinical applications. Students examine the critical processes involved in ACT, emphasizing experiential learning, research-based practices, and practical application in diverse settings.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Students will be able to explain the theoretical foundation and core processes of Acceptance and Commitment Therapy (ACT) and how they contribute to increased psychological flexibility and well-being.

2. Students will demonstrate competency in applying ACT interventions through case studies and clinical simulations within diverse therapeutic contexts.

SW6400 - Field Practicum I - 4 - Credits

Course Overview

Course Prefix
SW

Course Number
6400

Department
Social Work

Course Title
Field Practicum I

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Provides supervised educational and practical social work experience with specified educational objectives in a human-service organization.

Credit Hours

Credit Hours Min:
4

Contact Hours

Contact Hours Min:
4

Billing Hours

Billing Hours Min:
4

Lecture Hours

Lecture Hours Min:
4

No Requirements

SW6425 - Foundation Optional Practicum - 1 - 5 Credits

Course Overview

Course Prefix
SW

Course Number
6425

Department
Social Work

Course Title
Foundation Optional Practicum

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Allows students to complete an optional or extended foundation practicum experience.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
5

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
5

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
5

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
5

Lecture Hours Operator:
TO

No Requirements

SW6450 - Field Practicum II - 5 - Credits

Course Overview

Course Prefix
SW

Course Number
6450

Department
Social Work

Course Title
Field Practicum II

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Continuation of SW 6400, providing supervised educational and practical social work experience with specified educational objectives in a human-service organization.

Credit Hours

Credit Hours
Min:
5

Contact Hours

Contact Hours
Min:
5

Billing Hours

Billing Hours
Min:
5

Lecture Hours

Lecture Hours
Min:
5

No Requirements

SW6475 - Foundation Block Field Practicum - 9 - Credits

Course Overview

Course Prefix
SW

Course Number
6475

Department
Social Work

Course Title
Foundation Block Field Practicum

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Provides a concentrated supervised educational and practical social work experience with specified educational objectives in a human-service organization.

Credit Hours

Credit Hours
Min:
9

Contact Hours

Contact Hours
Min:
9

Billing Hours

Billing Hours
Min:
9

Lecture Hours

Lecture Hours
Min:
9

No Requirements

SW6480 - Advanced School Social Work Practice - 3 - Credits

Course Overview

Course Prefix
SW

Course Number
6480

Department
Social Work

Course Title
Advanced School Social Work Practice

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course in school social work uses an ecological framework and practical methods to prepare students for effective collaboration with educators, families, and community partners, promoting environments where all students are respected and can thrive socially, academically, and emotionally.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Course Learning Objectives

Course Learning Outcomes

1. Apply an ecological framework to meeting the needs of the whole child considering the school, family, and community contexts.

2. Learn to engage, assess, intervene and evaluate student needs through a multi-tiered system of support.

3. Examine current topics relevant to school social work practice.

SW6525 - Aging in the 21st Century - 3 - Credits

Course Overview

Course Prefix
SW

Course Number
6525

Department
Social Work

Dual-Listed Courses
SW5525 - Aging in the 21st Century

Course Title
Aging in the 21st Century

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course examines the social context of aging, as well as the aging process and implications for planning and management of direct services for older adults. The course discusses practice approaches for older adults, used for purposes of appropriate assessment and intervention. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

SW6530 - Social Work and Community Health - 3 - Credits

Course Overview

Course Prefix
SW

Course Number
6530

Department
Social Work

Dual-Listed Courses
SW5530 - Social Work and Community Health

Course Title
Social Work and Community Health

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides an introduction to the social determinants of health, cultural humility and ethics, neighborhoods and health, food environment and nutrition, chronic conditions, and epidemiology and infectious diseases and how these intersect with social work practice. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

SW6540 - Nonprofit Management for Social Workers - 3 - Credits

Course Overview

Course Prefix
SW

Course Number
6540

Department
Social Work

Dual-Listed Courses
SW5540 - Nonprofit Management for Social Workers

Course Title
Nonprofit Management for Social Workers

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course examines the history of nonprofits and the aptness of these organizations to providing social work employment. It also covers applied knowledge and skills related to managing nonprofits, such as strategic planning, human resources, fundraising, and marketing. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

SW6550 - Advanced Practice with Victims and Perpetrators of Family Violence - 3 - Credits

Course Overview

Course Prefix
SW

Course Number
6550

Department
Social Work

Course Title
Advanced Practice with Victims and Perpetrators of Family Violence

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Familiarizes students with problem of family violence, as well as with micro and macro intervention approaches to working with individuals and families impacted by family violence.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

SW6575 - Substance Use Disorders: Approaches to Treatment and Policy - 3 - Credits

Course Overview

Course Prefix
SW

Course Number
6575

Department
Social Work

Dual-Listed Courses
SW5575 - Substance Use Disorders: Approaches to Treatment and Policy

Course Title
Substance Use Disorders: Approaches to Treatment and Policy

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course trains students in evidence-based substance use disorder treatment using a biopsychosocial model, covering addiction history, policies, physiological effects of substances, and assessment, diagnosis, and intersectional considerations for working with affected individuals. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

SW6580 - Grief and Loss in Social Work Practice - 3 - Credits

Course Overview

Course Prefix
SW

Course Number
6580

Department
Social Work

Dual-Listed Courses
SW5580 - Grief and Loss in Social Work Practice

Course Title
Grief and Loss in Social Work Practice

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course examines the universal human experiences of grief and loss. Students explore different types of loss across the lifespan as well as meaningful ways to support those experiencing them. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

SW6590 - Advanced Standing Seminar I: Social Work Generalist Practice-Theories and Methods - 3 - Credits

Course Overview

Course Prefix
SW

Course Number
6590

Department
Social Work

Course Title
Advanced Standing Seminar I: Social Work Generalist Practice-Theories and Methods

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course prepares advanced standing students for the advanced MSW curriculum. The course reviews generalist social work practice theories and methods.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

SW6595 - Advanced Standing Seminar II: Social Work Generalist Practice-Research Policy - 3 - Credits

Course Overview

Course Prefix
SW

Course Number
6595

Department
Social Work

Course Title
Advanced Standing Seminar II: Social Work Generalist Practice-Research Policy

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course prepares advanced standing students for the advanced MSW curriculum. The course reviews generalist social work research and policy concepts and methods.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

SW6600 - Policy and Administration - 3 - Credits

Course Overview

Course Prefix
SW

Course Number
6600

Department
Social Work

Course Title
Policy and Administration

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Addresses planning and program development of human service organizations. Studies theories, types, levels, applications, and issues of planning and policy implementation.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

SW6630 - Social Work in the Healthcare Setting - 3 - Credits

Course Overview

Course Prefix
SW

Course Number
6630

Department
Social Work

Course Title
Social Work in the Healthcare Setting

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course teaches advanced practice skills and knowledge for social work students working with clients in various health settings. The importance of social workers with the tools to support clients at every stage of life is emphasized.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Course Learning Objectives

Course Learning Outcomes

1. Apply social work ethical principles to guide professional practice.

2. Compare and Contrast various therapeutic techniques to guide clients.

3. Understand that individuals and societies make sense of health and health settings in different ways.

4. Developing specific skills, competencies, and points of view needed by professionals in the field most closely related to this course.

5. Gaining a broader understanding and appreciation of intellectual/cultural activity.

6. Developing ethical reasoning and/or ethical decision making.

7. Demonstrate the ability to engage in personal reflection to generate self-awareness for involvement with individuals navigating the healthcare system in various contexts.

SW6650 - Advanced Research Methods - 3 - Credits

Course Overview

Course Prefix
SW

Course Number
6650

Department
Social Work

Course Title
Advanced Research Methods

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students apply their understanding of research methods, theories, and social work values (learned in SW 6200) while completing a research project.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

SW6700 - Advanced Generalist Practice I: Individuals and Families - 3 - Credits

Course Overview

Course Prefix
SW

Course Number
6700

Department
Social Work

Course Title
Advanced Generalist Practice I: Individuals and Families

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Focuses on advanced application of generalist problem-solving theories and skills in working with individuals and families.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

SW6725 - Diagnosis and Intervention in Social Work Practice - 3 - Credits

Course Overview

Course Prefix
SW

Course Number
6725

Department
Social Work

Course Title
Diagnosis and Intervention in Social Work Practice

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course focuses on the advanced generalist skills in clinical assessment and diagnosis using the Diagnostic and Statistical Manual of Mental Disorders (DSM-5TR). It also takes a critical look at DSM diagnosis in light of social work's commitment to person-in-environment, diversity and inclusion, and strengths perspectives.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Admission to the Social Work - MSW program

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. To competently utilize the DSM-5TR in clinical assessment and diagnosis of clients.

2. Implement the use of an advanced generalist perspective in interventions.

3. Consider the implications of diagnosis through social work's lenses of person in environment, diversity and inclusion, and the strengths perspective.

SW6750 - Advanced Generalist Practice II: Groups - 3 - Credits

Course Overview

Course Prefix
SW

Course Number
6750

Department
Social Work

Course Title
Advanced Generalist Practice II: Groups

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Focuses on advanced application of generalist problem-solving theories and skills in working with task and treatment groups.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

SW6850 - Psychopharmacology in Advanced Social Work Practice - 3 - Credits

Course Overview

Course Prefix
SW

Course Number
6850

Department
Social Work

Course Title
Psychopharmacology in Advanced Social Work Practice

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course examines psychopharmacology in clinical social work practice, including neurobiological actions and impacts of psychotropic medications. It discusses assessment, intervention, and advocacy as they relate to medication use in social work practice.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

SW6900 - Field Practicum III - 6 - Credits

Course Overview

Course Prefix
SW

Course Number
6900

Department
Social Work

Course Title
Field Practicum III

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Provides advanced supervised educational and practical social work experience with specified educational objectives in a human-service organization reflecting the student's selected focus area.

Credit Hours

Credit Hours Min:
6

Contact Hours

Contact Hours Min:
6

Billing Hours

Billing Hours Min:
6

Lecture Hours

Lecture Hours Min:
6

No Requirements

SW6905 - I-System Model and Mind-Body Bridging - Foundation - 3 - Credits

Course Overview

Course Prefix
SW

Course Number
6905

Department
Social Work

Course Title
I-System Model and Mind-Body Bridging - Foundation

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students learn basic I-System Model and Mind-Body Bridging (MBB) principles and techniques with their Micro, Meso, and Macro applications to Social Work practice. The MBB evidence-based transdiagnostic intervention alleviates psychological distress for a range of mental health issues.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Special Approval
Advisor permission

Other Enrollment Recommendations
Must have completed or be currently enrolled in a Master of Social Work, Master of Science, or Master of Arts, in a related field of study

SW6907 - I-System Model and Mind-Body Bridging - Advanced - 3 - Credits

Course Overview

Course Prefix
SW

Course Number
6907

Department
Social Work

Course Title
I-System Model and Mind-Body Bridging - Advanced

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students apply the I-System Model, Net of Existence, I-System Analysis, and Mind-Body Bridging (MBB) principles and techniques in their specific clinical practice setting. Students receive supervision in the application of the I-System Model and MBB principles and techniques.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Special Approval
Advisor permission

Other Enrollment Recommendations
Must have completed or be currently enrolled in a Master of Social Work, Master of Science, or Master of Arts, in a related field of study

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Earn a minimum grade of B in the following:

- SW6905 - I-System Model and Mind-Body Bridging - Foundation

SW6920 - Trauma and Resilience - 3 - Credits

Course Overview

Course Prefix
SW

Course Number
6920

Department
Social Work

Dual-Listed Courses
SW5920 - Trauma and Resilience

Course Title
Trauma and Resilience

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course explores the impact of trauma as well as human resilience despite adverse experiences. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

SW6925 - Advanced Optional Practicum - 1 - 3 Credits

Course Overview

Course Prefix
SW

Course Number
6925

Department
Social Work

Course Title
Advanced Optional Practicum

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Allows students to complete an optional or extended advanced practicum experience.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

Special Approval
Department approval

No Requirements

SW6950 - Field Practicum IV - 6 - Credits

Course Overview

Course Prefix
SW

Course Number
6950

Department
Social Work

Course Title
Field Practicum IV

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Continuation of SW 6900, providing advanced supervised educational and practical social work experience with specified educational objectives in a human-service organization reflecting the student's selected focus area.

Credit Hours

Credit Hours Min:
6

Contact Hours

Contact Hours Min:
6

Billing Hours

Billing Hours Min:
6

Lecture Hours

Lecture Hours Min:
6

No Requirements

SW6975 - Advanced Block Field Practicum - 12 - Credits

Course Overview

Course Prefix
SW

Course Number
6975

Department
Social Work

Course Title
Advanced Block Field Practicum

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Provides concentrated advanced supervised educational and practical social work experience with specified educational objectives in a human-service organization reflecting the student's selected focus area.

Credit Hours

Credit Hours Min:
12

Contact Hours

Contact Hours Min:
12

Billing Hours

Billing Hours Min:
12

Lecture Hours

Lecture Hours Min:
12

No Requirements

SW6990 - Independent Study - 1 - 3 Credits

Course Overview

Course Prefix
SW

Course Number
6990

Department
Social Work

Course Title
Independent Study

Grade Mode
Temporary Standard Letter

Repeat Status
RP

Course Description
Independent Study courses contracted between faculty member in the Social Work Program and MSW student.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

Special Approval

Approval of Social Work program director and department head

No Requirements

SW6995 - Special Topics on Social Work Practice - 1 - 3 Credits

Course Overview

Course Prefix
SW

Course Number
6995

Department
Social Work

Course Title
Special Topics on Social Work Practice

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Course content varies. Follows strict guidelines determined by the Social Work Program.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

TCR2100 - Introduction to Technical Communication - 3 - Credits

Course Overview

Course Prefix
TCR

Course Number
2100

Department
Communication & Media

Course Title
Introduction to Technical Communication

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students are introduced to professional workplace writing, transitioning from writing for academic audiences to writing workplace documents. Students design and write professional documents, synthesize and evaluate arguments on technology and society, and collaborate in teams to present technical information.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

TCR2110 - Digital Writing Technologies - 3 - Credits

Course Overview

Course Prefix
TCR

Course Number
2110

Department
Communication & Media

Course Title
Digital Writing Technologies

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course teaches students how to learn writing technologies used by professional communicators, including photo manipulation software, advanced document design software, basic HTML and CSS, and podcasting tools.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

TCR3085 - Technical Communication for the Computer Science Workplace (CI) - 3 - Credits

Course Overview

Course Prefix
TCR

Course Number
3085

Department
Communication & Media

Course Title
Technical Communication for the Computer Science Workplace (CI)

General Education Attribute
CI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students are introduced to professional workplace writing, transitioning from writing for academic audiences to writing workplace documents. Students design and write professional documents, synthesize and evaluate arguments on technology and society, and collaborate in teams to present technical information.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Admission to the Computer Science - BS program

No Requirements

TCR3100 - Workplace Research - 3 - Credits

Course Overview

Course Prefix
TCR

Course Number
3100

Department
Communication & Media

Course Title
Workplace Research

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course teaches students to conduct research using methods employed by professionals in the workplace. Students learn to work in teams, collect and analyze data, and make research-based recommendations to solve organizational problems.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

TCR3110 - Accessibility and Disability Rhetorics - 3 - Credits

Course Overview

Course Prefix
TCR

Course Number
3110

Department
Communication & Media

Course Title
Accessibility and Disability Rhetorics

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students learn disability studies theory, including being able to make a strong case for accessible design, improving their closed captioning and web design skills, and understanding how to approach multiple technologies and rhetorical situations with accessibility in mind.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

TCR3120 - Rhetorical Theory (DHA) - 3 - Credits

Course Overview

Course Prefix
TCR

Course Number
3120

Department
Communication & Media

Course Title
Rhetorical Theory (DHA)

General Education Attribute
DHA

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course prepares students to analyze persuasive communication as it is enacted in a variety of texts and contexts. Students learn to define and understand rhetorical situations and theories and to evaluate rhetorical strategies.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

TCR3210 - Usability and Games User Research - 3 - Credits

Course Overview

Course Prefix
TCR

Course Number
3210

Department
Communication & Media

Course Title
Usability and Games User Research

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students learn how to plan, conduct, and report on data collected from usability tests and games user research. Students also learn the value of designing interactions for diverse users.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes
1. Students learn basic concepts and procedures for usability testing and reporting, games user research, and interaction design.

2. Students learn the importance of teamwork in the design workspace.

3. Students learn to conduct and report on primary and secondary research.

TCR3220 - Technical Editing (CI) - 3 - Credits

Course Overview

Course Prefix
TCR

Course Number
3220

Department
Communication & Media

Course Title
Technical Editing (CI)

General Education Attribute
CI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students learn editing of technical and scientific documents; working with deadlines, levels of editing, and editing marks; working with groups of editors and clients; and revising document design.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

TCR3230 - Community Grant Writing - 3 - Credits

Course Overview

Course Prefix
TCR

Course Number
3230

Department
Communication & Media

Course Title
Community Grant Writing

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Through a community-engaged learning approach, students collaborate with nonprofit partner organizations as they develop analysis, writing, editing, and communication skills. Coursework leads to a final grant draft that is presented to the partner organization for future funding opportunities.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes
1. Students develop skills in analyzing grant requirements, creating drafts, editing, and giving constructive feedback.

2. Students develop skills in collaborating with partner organizations.

3. Students examine limitations and equity issues in the nonprofit grant writing realm.

TCR4210 - Visual Communication Design - 3 - Credits

Course Overview

Course Prefix
TCR

Course Number
4210

Department
Communication & Media

Course Title
Visual Communication Design

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers design principles, color theory, typography, and graphics. Students learn to analyze and improve the design of existing documents, as well as to design new documents to meet stakeholders' needs.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- TCR2110 - Digital Writing Technologies

TCR4220 - Technology and Activism - 3 - Credits

Course Overview

Course Prefix
TCR

Course Number
4220

Department
Communication & Media

Course Title
Technology and Activism

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students examine the role of ethics and social justice in technology use and development, connecting theory with user advocacy and decision making. Topics vary by instructor. Recent topics included digital democracy and hacktivism, gender and technology, and accessibility.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

TCR4230 - Project Management - 3 - Credits

Course Overview

Course Prefix
TCR

Course Number
4230

Department
Communication & Media

Course Title
Project Management

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students study project management strategies involving and affecting diverse groups of stakeholders. Students learn how gender, race, culture, age, ideology, and socioeconomic class influence the design, execution, and outcomes of projects. Topics vary by instructor.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

TCR4240 - User Experience Design - 3 - Credits

Course Overview

Course Prefix
TCR

Course Number
4240

Department
Communication & Media

Course Title
User Experience Design

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students learn how to plan, conduct, and report on data collected from user experience design research, including the value of designing experiences for a diverse user base.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Students learn how to plan, conduct, and report on data collected from user experience design research.

2. Students learn the value of designing experiences for diverse users.

3. Students learn the value of teamwork in the design workspace.

TCR4250 - Careers in Professional Communication (CI) - 3 - Credits

Course Overview

Course Prefix
TCR

Course Number
4250

Department
Communication & Media

Course Title
Careers in Professional Communication (CI)

General Education Attribute
CI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students study how to successfully negotiate English-related job markets, such as technical communication, user experience (UX), and publishing. Students develop job application materials such as a portfolio website, resume, cover letter, and social media profiles and prepare for job interviews.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

TCR5490 - Advanced Topics in Technical Communication and Rhetoric - 3 - Credits

Course Overview

Course Prefix
TCR

Course Number
5490

Department
Communication & Media

Course Title
Advanced Topics in Technical Communication and Rhetoric

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Students study topics designed to enrich their understanding of technical communication and rhetoric. Topics, which vary by instructor, have included crisis communication, ethics and technology, marketing and public relations, and user experience design and testing.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

TCR6100 - Foundations of Technical Communication - 3 - Credits

Course Overview

Course Prefix
TCR

Course Number
6100

Department
Communication & Media

Dual-Listed Courses
TCR7100 - Foundations of Technical Communication

Course Title
Foundations of Technical Communication

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces students to the Technical Communication field via its scholarship. Students learn about major theories underlying the practice of technical communication, major research topics driving the field, and the tensions and concerns at the heart of the field.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

TCR6120 - Rhetorical Theory - 3 - Credits

Course Overview

Course Prefix
TCR

Course Number
6120

Department
Communication & Media

Dual-Listed Courses
TCR7120 - Rhetorical Theory

Course Title
Rhetorical Theory

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces students to classical and contemporary rhetoric, rhetorical theory, and rhetorical analysis to address what makes someone persuasive and how symbols make meaning. Students learn how culture, technology, and ideology affect and are affected by rhetoric.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

TCR6130 - Professional Editing - 3 - Credits

Course Overview

Course Prefix
TCR

Course Number
6130

Department
Communication & Media

Dual-Listed Courses
TCR7130 - Professional Editing

Course Title
Professional Editing

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students examine the complex roles editors assume in creating technical and nontechnical documents. Principal components of the course include working with substance of documents, mediating the writer-reader relationship, and exemplifying the application of rhetorical theory in editing.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

TCR6210 - Cultural Research Methods - 3 - Credits

Course Overview

Course Prefix
TCR

Course Number
6210

Department
Communication & Media

Dual-Listed Courses
TCR7210 - Cultural Research Methods

Course Title
Cultural Research Methods

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course is a survey of cultural research methods that apply to contemporary practices in technical communication and rhetoric. These methods may include feminism, queer theory, postcolonial theory, critical race theory, and disability studies.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

TCR6220 - User Experience Design - 3 - Credits

Course Overview

Course Prefix
TCR

Course Number
6220

Department
Communication & Media

Dual-Listed Courses
TCR7220 - User Experience Design

Course Title
User Experience Design

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Students are introduced to academic and industry research on user experience design. Students also learn how to plan, conduct, and report on data collected from user experience research, applying theories of inclusive design to solve complex communication/design problems.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

TCR6230 - Instructional Design for Technical Communicators - 3 - Credits

Course Overview

Course Prefix
TCR

Course Number
6230

Department
Communication & Media

Dual-Listed Courses
TCR7230 - Instructional Design for Technical Communicators

Course Title
Instructional Design for Technical Communicators

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students read and reflect upon pedagogical theories and research, analyze others' teaching/training materials in a variety of contexts, and craft pedagogical products that can be used in either academic or industry contexts to be determined by the student.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

TCR6240 - Communication Design - 3 - Credits

Course Overview

Course Prefix
TCR

Course Number
6240

Department
Communication & Media

Dual-Listed Courses
TCR7240 - Communication Design

Course Title
Communication Design

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers design principles, color theory, typography, and graphics. Students learn to analyze and improve the design of existing documents as well as design new documents to meet stakeholders' needs.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

TCR6250 - Digital Rhetorics - 3 - Credits

Course Overview

Course Prefix
TCR

Course Number
6250

Department
Communication & Media

Dual-Listed Courses
TCR7250 - Digital Rhetorics

Course Title
Digital Rhetorics

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Students learn to critically analyze digital texts, design persuasive digital content, and consider the rhetorical and ethical implications of online communications.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

TCR6260 - Accessibility Rhetorics and Disability Studies - 3 - Credits

Course Overview

Course Prefix
TCR

Course Number
6260

Department
Communication & Media

Dual-Listed Courses
TCR7260 - Accessibility Rhetorics and Disability Studies

Course Title
Accessibility Rhetorics and Disability Studies

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students learn disabilities theory, including being able to make a strong case for accessible design, improving their closed captioning and web design skills, and understanding how to approach multiple technologies and rhetorical situations with accessibility in mind.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

TCR6270 - Writing Technologies - 3 - Credits

Course Overview

Course Prefix
TCR

Course Number
6270

Department
Communication & Media

Course Title
Writing Technologies

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course is about learning how to learn technologies. Students gain experience with three core software programs and develop a sense of adventure, tenacity, and confidence in learning technologies relevant to technical communication.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Course Learning Objectives

Course Learning Outcomes
1. Develop technology skills needed by professional writers.

2. Learn how to find and use resources for answering technology questions and solving problems.

TCR6490 - Special Topics in Technical Communication and Rhetoric - 3 - Credits

Course Overview

Course Prefix
TCR

Course Number
6490

Department
Communication & Media

Dual-Listed Courses
TCR7490 - Special Topics in Technical Communication and Rhetoric

Course Title
Special Topics in Technical Communication and Rhetoric

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Students study topics designed to enrich their understanding of Technical Communication and Rhetoric. Topics have included crisis communication, ethics and technology, marketing and public relations, and user experience design and testing.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

TCR6900 - Graduate Internship & Cooperative Work Experience - 1 - 3 Credits

Course Overview

Course Prefix
TCR

Course Number
6900

Department
Communication & Media

Course Title
Graduate Internship & Cooperative Work Experience

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
See program advisor for details.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

Special Approval
Advisor permission

Course Learning Objectives

Course Learning Outcomes
1. Gaining a basic understanding of workplace culture.

2. Developing skill in expressing oneself orally and in writing.

TCR7100 - Foundations of Technical Communication - 3 - Credits

Course Overview

Course Prefix
TCR

Course Number
7100

Department
Communication & Media

Dual-Listed Courses
TCR6100 - Foundations of Technical Communication

Course Title
Foundations of Technical Communication

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces students to the Technical Communication field via its scholarship. Students learn about major theories underlying the practice of technical communication, major research topics driving the field, and the tensions and concerns at the heart of the field.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

TCR7110 - Empirical Research Methods - 3 - Credits

Course Overview

Course Prefix
TCR

Course Number
7110

Department
Communication & Media

Course Title
Empirical Research Methods

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course is a survey of empirical research methods for conducting professional communication research in academic and nonacademic settings.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

TCR7120 - Rhetorical Theory - 3 - Credits

Course Overview

Course Prefix
TCR

Course Number
7120

Department
Communication & Media

Dual-Listed Courses
TCR6120 - Rhetorical Theory

Course Title
Rhetorical Theory

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces students to classical and contemporary rhetoric, rhetorical theory, and rhetorical analysis to address what makes someone persuasive and how symbols make meaning. Students learn how culture, technology, and ideology affect and are affected by rhetoric.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

TCR7130 - Professional Editing - 3 - Credits

Course Overview

Course Prefix
TCR

Course Number
7130

Department
Communication & Media

Dual-Listed Courses
TCR6130 - Professional Editing

Course Title
Professional Editing

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students examine the complex roles editors assume in creating technical and nontechnical documents. Principal components of the course include working with substance of documents, mediating the writer-reader relationship, and exemplifying the application of rhetorical theory in editing.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

TCR7210 - Cultural Research Methods - 3 - Credits

Course Overview

Course Prefix
TCR

Course Number
7210

Department
Communication & Media

Dual-Listed Courses
TCR6210 - Cultural Research Methods

Course Title
Cultural Research Methods

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course is a survey of cultural research methods that apply to contemporary practices in technical communication and rhetoric. These methods may include feminism, queer theory, postcolonial theory, critical race theory, and disability studies.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

TCR7220 - User Experience Design - 3 - Credits

Course Overview

Course Prefix
TCR

Course Number
7220

Department
Communication & Media

Dual-Listed Courses
TCR6220 - User Experience Design

Course Title
User Experience Design

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Students are introduced to academic and industry research on user experience design. Students also learn how to plan, conduct, and report on data collected from user experience research, applying theories of inclusive design to solve complex communication/design problems.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

TCR7230 - Instructional Design for Technical Communicators - 3 - Credits

Course Overview

Course Prefix
TCR

Course Number
7230

Department
Communication & Media

Dual-Listed Courses
TCR6230 - Instructional Design for Technical Communicators

Course Title
Instructional Design for Technical Communicators

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students read and reflect upon pedagogical theories and research, analyze others' teaching/training materials in a variety of contexts, and craft pedagogical products that can be used in either academic or industry contexts to be determined by the student.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

TCR7240 - Communication Design - 3 - Credits

Course Overview

Course Prefix
TCR

Course Number
7240

Department
Communication & Media

Dual-Listed Courses
TCR6240 - Communication Design

Course Title
Communication Design

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers design principles, color theory, typography, and graphics. Students learn to analyze and improve the design of existing documents as well as design new documents to meet stakeholders' needs.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

TCR7250 - Digital Rhetorics - 3 - Credits

Course Overview

Course Prefix
TCR

Course Number
7250

Department
Communication & Media

Dual-Listed Courses
TCR6250 - Digital Rhetorics

Course Title
Digital Rhetorics

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Students learn to critically analyze digital texts, design persuasive digital content, and consider the rhetorical and ethical implications of online communications.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

TCR7260 - Accessibility Rhetorics and Disability Studies - 3 - Credits

Course Overview

Course Prefix
TCR

Course Number
7260

Department
Communication & Media

Dual-Listed Courses
TCR6260 - Accessibility Rhetorics and Disability Studies

Course Title
Accessibility Rhetorics and Disability Studies

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students learn disabilities theory, including being able to make a strong case for accessible design, improving their closed captioning and web design skills, and understanding how to approach multiple technologies and rhetorical situations with accessibility in mind.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

TCR7490 - Special Topics in Technical Communication and Rhetoric - 3 - Credits

Course Overview

Course Prefix
TCR

Course Number
7490

Department
Communication & Media

Dual-Listed Courses
TCR6490 - Special Topics in Technical Communication and Rhetoric

Course Title
Special Topics in Technical Communication and Rhetoric

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Students study topics designed to enrich their understanding of Technical Communication and Rhetoric. Topics have included crisis communication, ethics and technology, marketing and public relations, and user experience design and testing.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

TCR7900 - Research Internship - 6 - Credits

Course Overview

Course Prefix
TCR

Course Number
7900

Department
Communication & Media

Course Title
Research Internship

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Application of workplace field research and methods in an actual workplace setting.

Credit Hours

Credit Hours
Min:
6

Contact Hours

Contact Hours
Min:
6

Billing Hours

Billing Hours
Min:
6

Lecture Hours

Lecture Hours
Min:
6

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- TCR7110 - Empirical Research Methods

TCR7920 - Directed Study - 3 - Credits

Course Overview

Course Prefix
TCR

Course Number
7920

Department
Communication & Media

Course Title
Directed Study

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course offers credit for special assignments, reading, and seminars beyond regularly scheduled courses.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

TCR7970 - Dissertation Research - 1 - 12 Credits

Course Overview

Course Prefix
TCR

Course Number
7970

Department
Communication & Media

Course Title
Dissertation Research

Grade Mode
Temporary Pass/Fail

Repeat Status
RP

Course Description
This course consists of individual work on research problems for students enrolled in doctoral programs.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
12

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
12

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
12

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
12

Lecture Hours Operator:
TO

TEAC1010 - Introduction to Air Conditioning, Heating, and Refrigeration - 3 - Credits

Course Overview

Course Prefix
TEAC

Course Number
1010

Department
Technology, Design & Technical Ed

Course Title
Introduction to Air Conditioning, Heating, and Refrigeration

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course explains Heating, Air Conditioning, and Refrigeration (HVACR). Elementary electrical concepts, electrical heating systems, and hydronic heating systems are introduced. Guiding principles for service and installing technicians, hand tools, energy conservation, certifications, codes, and permits are introduced.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes
1. Explain the basic principles of air conditioning, heating, refrigeration, and ventilation.
2. Explain the basic refrigeration cycle and its four major components.
3. Describe the fundamental principles of electricity and basic circuits.
4. Identify common hand tools, their use, and care.
5. Identify career paths in the air conditioning, heating, and refrigeration trade.

TEAC1100 - Heating, Ventilation, Air Conditioning, Refrigeration (HVACR) Electrical Essentials - 3 - Credits

Course Overview

Course Prefix
TEAC

Course Number
1100

Department
Technology, Design & Technical Ed

Course Title
Heating, Ventilation, Air Conditioning, Refrigeration (HVACR) Electrical Essentials

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
The skills reviewed in Introduction to Air Conditioning, Heating, and Refrigeration are applied to electrical circuits as basic electrical theory is broadened using various electrical meters to reinforce learning from classroom instruction.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes
1. Describe the fundamentals of electricity and electrical theory.
2. Identify electrical measuring instruments and demonstrate their proper use.
3. Identify electrical components utilized in ACHR systems and describe their functions.
4. Identify, interpret, and create various types of electrical diagrams associated with ACHR systems.

TEAC1120 - Heating Systems - 3 - Credits

Course Overview

Course Prefix
TEAC

Course Number
1120

Department
Technology, Design & Technical Ed

Course Title
Heating Systems

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course is an introduction to heating fundamentals including heat transfer and combustion theory. Furnace types, their specific control components, and sequences of operation are covered. Students also prepare for the Rocky Mountain Gas Association (RMGA) Gas Technician Certification exam.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Explain the fundamentals of heating, heat transfer, and combustion.
2. Explain the sequence of operation for residential forced-air furnaces.
3. Troubleshoot a variety of electrical and mechanical furnace problems.
4. Demonstrate mastery of RMGA Certification knowledge by passing the RMGA exam or its equivalent.

TEAC1140 - Basic Refrigeration Systems - 3 - Credits

Course Overview

Course Prefix
TEAC

Course Number
1140

Department
Technology, Design & Technical Ed

Course Title
Basic Refrigeration Systems

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course is an introductory course covering the physical and chemical laws governing the principles of refrigeration. It provides a more in-depth study of the refrigeration cycle; system components, refrigerants, and refrigerant controls are covered.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Describe the fundamental refrigeration cycle including heat, states of substances, heat transfer, and pressure/temperature relationships.
2. Identify common refrigerants and understand their differences and develop an understanding of proper refrigerant handling techniques and the application of EPA Section 608 rules.
3. Identify and describe the function of the major refrigerant system components including compressor types and operational characteristics.
4. Identify and describe the function of common refrigeration accessories and controls.
5. Demonstrate the proper use of refrigerant manifold gauges to evaluate, service, and diagnose refrigerant systems including refrigerant recovery, system evacuation, and refrigerant charging procedures.

TEAC1160 - Basic Installation Skills - 3 - Credits

Course Overview

Course Prefix
TEAC

Course Number
1160

Department
Technology, Design & Technical Ed

Course Title
Basic Installation Skills

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course instructs students in copper tubing and pipe joinery. The proper use of tools and equipment is demonstrated while emphasizing safety. Installation-related devices, wiring, tubing installation, and sheet metal methods are also covered.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Identify and demonstrate several types of piping, fittings, and joining methods.
2. Demonstrate how to safely start-up, operate and shut-down an oxy-acetylene torch set.
3. Demonstrate electrical installation skills for both line voltage wiring and low voltage control systems.
4. Describe lineset sizing and installation means and methods.
5. Design and fabricate a basic sheet metal fitting/transition.

TEAC1280 - Rocky Mountain Gas Association Gas Technician Certification - 2 - Credits

Course Overview

Course Prefix
TEAC

Course Number
1280

Department
Technology, Design & Technical Ed

Course Title
Rocky Mountain Gas Association Gas Technician Certification

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course prepares students for the necessary certification for working with gas-fired appliances, such as stoves, furnaces, boilers, and water heaters. This course prepares students for the certification examination with minimal hands-on lab work.

Credit Hours

Credit Hours Min:
2

Contact Hours

Contact Hours Min:
2

Billing Hours

Billing Hours Min:
2

Lecture Hours

Lecture Hours Min:
2

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Describe the combustion process and its potential hazards.
2. Properly size a gas piping system.
3. Calculate the correct size for a combustion air supply.
4. Determine a gas-fired appliance's deration requirements.
5. Size vent systems for Category 1 and Category 4 appliances.

TEAC1500 - Carbon Steel Piping Practices and Refrigerant Certification - 3 - Credits

Course Overview

Course Prefix
TEAC

Course Number
1500

Department
Technology, Design & Technical Ed

Course Title
Carbon Steel Piping Practices and Refrigerant Certification

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces the tools and equipment used to fabricate carbon steel piping systems and their proper use. Additionally, a deeper study of handling refrigerants occurs as students prepare to take the Environmental Protection Agency Section 608 Refrigerant Handling Certification.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Identify the different types of steel pipe, steel fittings, and their uses.
2. Demonstrate the various methods used to join steel piping.
3. Demonstrate the proper and safe use of steel pipe fabricating tools and equipment.
4. Prepare for and obtain the Environmental Protection Agency Section 608 Refrigerant Handling Certification.

TEAC1510 - Air Distribution Systems - 3 - Credits

Course Overview

Course Prefix
TEAC

Course Number
1510

Department
Technology, Design & Technical Ed

Course Title
Air Distribution Systems

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students are introduced to air movement theory and laws, air measurement, air distribution systems, air distribution equipment, and air system design. The different types of fans and blowers are studied along with their various applications and energy characteristics.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Explain how pressure, velocity, and volume are related to airflow.
2. Describe the equipment and materials used in air distribution systems.
3. Identify various air distribution systems and their energy characteristics.
4. Demonstrate the planning and installation of modern duct systems.

TEAL1010 - Introduction to Education - 3 - Credits

Course Overview

Course Prefix
TEAL

Course Number
1010

Department
School of Teacher Education & Leadership

Course Title
Introduction to Education

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students assess themselves as prospective teachers. Opportunities provided for students to observe in public schools (K-12), as well as to complete volunteer service in other community educational settings.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

TEAL2660 - Educational Psychology for Teachers - 2 - Credits

Course Overview

Course Prefix
TEAL

Course Number
2660

Department
School of Teacher Education & Leadership

Course Title
Educational Psychology for Teachers

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers principles and practices for development of conditions for effective learning.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Fulfill ALL of the following requirements:

Required

Earn a minimum grade of C in the following:

- HDFS1500 - Human Development Across the Lifespan (BSS) **OR** PSY1100 - Lifespan Development

AND

Required

Earn a minimum grade of B- in the following:

- ELED1010 - Orientation to Elementary Education
  OR TEAL1010 - Introduction to Education

TEAL3080 - Integrating Arts into Academic Learning (DHA) - 3 - Credits

Course Overview

Course Prefix
TEAL

Course Number
3080

Department
School of Teacher Education & Leadership

Course Title
Integrating Arts into Academic Learning (DHA)

General Education Attribute
DHA

Grade Mode
Standard Letter

Repeat Status
NR

Course Description

This course explores interdisciplinary planning and teaching strategies integrating the four art forms (Dance, Music, Theater, and Visual Arts) with academic subjects in the K-6 curriculum. This course builds confidence and direction in the planning of fine arts learning experiences.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ANY of the following Courses:

- ART3700 - Elementary Art Methods
  OR MUSC3260 - Elementary School Music
  OR THEA3320 - Movement Exploration for Elementary Education Majors
  OR THEA3330 - Drama for Classroom Teachers
  OR THEA3340 - Methods of Teaching Drama, Grades K-6

TEAL3780 - History of American Education (DSS) - 3 - Credits

Course Overview

Course Prefix
TEAL

Course Number
3780

Department
School of Teacher Education & Leadership

Cross-Listed Courses
HIST3780 - History of American Education (DSS)

Course Title
History of American Education (DSS)

General Education Attribute
DSS

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course examines the historical foundations, structures, and expansion of educational systems in the United States from the colonial era to the present. Students trace the evolution of important themes and engage with scholarly material on the history of education.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Identify foundational themes in the history of American education and how they connect to contemporary issues through written and oral presentation.

2. Assess major questions and issues in educational policy and practice through critical reading and discussion.

3. Explore the historical impact of educational policy on one's self and on others

TEAL4530 - Anthropology of Education - 3 - Credits

Course Overview

Course Prefix
TEAL

Course Number
4530

Department
School of Teacher Education & Leadership

Dual-Listed Courses
TEAL6530 - Anthropology of Education

Course Title
Anthropology of Education

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course explores the historical, theoretical, and methodological developments for the field of anthropology and education. This course examines the sociocultural contexts of learning in diverse settings including an analysis of the foundational assumptions of the anthropology of education. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

TEAL4730 - Educational Linguistics - 3 - Credits

Course Overview

Course Prefix
TEAL

Course Number
4730

Department
School of Teacher Education & Leadership

Course Title
Educational Linguistics

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Examines theoretical foundations, functions, and characteristics of first language acquisition and language variation in the Pre-K-12 classroom context. Also emphasizes social context of language in K-12 classroom interaction, instruction, and curriculum. Additional requirements for graduate students.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

TEAL4745 - Second Language/Literacy Acquisition and Development - 3 - Credits

Course Overview

Course Prefix
TEAL

Course Number
4745

Department
School of Teacher Education & Leadership

Course Title
Second Language/Literacy Acquisition and Development

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Explores the dynamic process of second/third language/literacy acquisition, including the influences from linguistic, cognitive, and socio-cultural and dialogical perspectives. Emphasizes the role in which languages, culture, power and the educator play in the second/third language/literacy acquisition in the classroom. Additional requirements for graduate students.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

TEAL4760 - Foundations of Dual Language Immersion/ESL/Bilingual Education - 3 - Credits

Course Overview

Course Prefix
TEAL

Course Number
4760

Department
School of Teacher Education & Leadership

Course Title
Foundations of Dual Language Immersion/ESL/Bilingual Education

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Explores the historical socio-cultural contexts in which Dual Language Immersion/ESL and Bilingual Education programs have developed in the U.S. Addresses issues of purposes and effectiveness of multilingual programs. Also addresses the special needs and effective strategies to successfully teach the culturally and linguistically diverse student populations that these programs intend to serve.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Admission to Teacher Education

TEAL4780 - Assessment for Language Learners - 3 - Credits

Course Overview

Course Prefix
TEAL

Course Number
4780

Department
School of Teacher Education & Leadership

Course Title
Assessment for Language Learners

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course explores principles and techniques for developing, analyzing, and interpreting assessment measures for English language learners, including oral, writing, reading, and content-area assessment, as well as assessments used in public schools.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Admission to a program in Teacher Education

TEAL4900 - Undergraduate Research in Teaching and Learning - 1 - 3 Credits

Course Overview

Course Prefix
TEAL

Course Number
4900

Department
School of Teacher Education & Leadership

Course Title
Undergraduate Research in Teaching and Learning

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
Students, under the guidance of a faculty mentor, engage in a research project that addresses a question in teaching and learning.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

Special Approval

Department permission

No Requirements

TEAL5064 - Methods for Teaching Middle Level Mathematics - 3 - Credits

Course Overview

Course Prefix
TEAL

Course Number
5064

Department
School of Teacher Education & Leadership

Dual-Listed Courses
TEAL6064 - Methods for Teaching Middle Level Mathematics

Course Title
Methods for Teaching Middle Level Mathematics

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course enables students to know the content topics of school mathematics and plan, teach, and reflect on lessons for middle school grades. Students learn to identify and use instructional strategies to teach equitably, allowing mathematics access for all learners. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

TEAL5235 - Instructional Implications for Literacy Development - 3 - Credits

Course Overview

Course Prefix
TEAL

Course Number
5235

Department
School of Teacher Education & Leadership

Course Title
Instructional Implications for Literacy Development

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course is designed to provide teachers with an instructional framework for understanding literacy acquisition for K-12 students. Teachers increase their knowledge and skill in applying instructional practices that support students' literacy learning.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Licensure Lane Designation

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ELED5030 - Teaching Language Arts (CI)
- ELED4040 - Reading Assessment and Intervention (CI)
- ELED4042 - Reading Assessment and Intervention Practicum

TEAL5420 - Learning, Development, and Individual Differences in Gifted Education - 3 - Credits

Course Overview

Course Prefix
TEAL

Course Number
5420

Department
School of Teacher Education & Leadership

Dual-Listed Courses
TEAL6420 - Learning, Development, and Individual Differences in Gifted Education

Course Title
Learning, Development, and Individual Differences in Gifted Education

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students learn the characteristics and needs of gifted children and youth, types of programs available, the historical and philosophical foundations required of professionals in the field, the history of the gifted child movement, and advocacy for gifted children and youth. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

TEAL5440 - Creativity in Education - 2 - Credits

Course Overview

Course Prefix
TEAL

Course Number
5440

Department
School of Teacher Education & Leadership

Dual-Listed Courses
TEAL6440 - Creativity in Education

Course Title
Creativity in Education

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students explore theories, research, and strategies concerning creativity, and their application to personal creativity and to the improvement of classroom practice. Additional work is required for those enrolled in the graduate level course.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

No Requirements

TEAL5450 - Learning Environments for Gifted Students - 3 - Credits

Course Overview

Course Prefix
TEAL

Course Number
5450

Department
School of Teacher Education & Leadership

Dual-Listed Courses
TEAL6450 - Learning Environments for Gifted Students

Course Title
Learning Environments for Gifted Students

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students learn to create learning environments that foster emotional well-being, positive social interaction, leadership, and cultural understanding, and learn of the impact of giftedness and diversity on social-emotional development, becoming enabled to design responsive environments within a continuum of services. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

TEAL5521 - Mathematics for Teaching K-8: Numbers and Operations - 3 - Credits

Course Overview

Course Prefix
TEAL

Course Number
5521

Department
School of Teacher Education & Leadership

Course Title
Mathematics for Teaching K-8: Numbers and Operations

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course for prospective teachers covers the content of numbers and operations to develop a comprehensive understanding of our number system and relate its structure to computation, arithmetic, algebra, and problem-solving.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Licensure Lane Designation

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ELED5040 - Teaching Elementary School Mathematics II: Number, Operations, and Algebraic Reasoning
- ELED5060 - Elementary Content Practicum

TEAL5523 - Mathematics for Teaching K-8: Algebraic Reasoning - 3 - Credits

Course Overview

Course Prefix
TEAL

Course Number
5523

Department
School of Teacher Education & Leadership

Course Title
Mathematics for Teaching K-8: Algebraic Reasoning

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides prospective teachers a deeper understanding of algebraic expressions, equations, functions, real numbers, and instructional strategies to facilitate the instruction of this content for elementary students.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Licensure Lane Designation

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ELED5040 - Teaching Elementary School Mathematics II: Number, Operations, and Algebraic Reasoning
- ELED5060 - Elementary Content Practicum

TEAL5560 - Special Topics - 0.5 - 4 Credits

Course Overview

Course Prefix
TEAL

Course Number
5560

Department
School of Teacher Education & Leadership

Cross-Listed Courses
EDUC5560 - Special Topics

Dual-Listed Courses
TEAL6560 - Special Topics

Course Title
Special Topics

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Field-based program focusing upon characteristics of effective teaching methodologies, teaching performance, curriculum decision making, value guidelines, and the characteristics of the learner. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours Min:
0.5

Credit Hours Max:
4

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
0.5

Contact Hours Max:
4

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
0.5

Billing Hours Max:
4

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
0.5

Lecture Hours Max:
4

Lecture Hours Operator:
TO

TEAL5630 - Study Abroad Student Teaching - 3 - 6 Credits

Course Overview

Course Prefix
TEAL

Course Number
5630

Department
School of Teacher Education & Leadership

Course Title
Study Abroad Student Teaching

Grade Mode
Pass/Fail

Repeat Status
NR

Course Description
Students teach in K-12 schools in an international setting. Under the guidance of mentor teachers and university supervisors, student teachers demonstrate competency and professionalism in teaching through this experience.

Credit Hours

Credit Hours Min:
3

Credit Hours Max:
6

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
3

Contact Hours Max:
6

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
3

Billing Hours Max:
6

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
3

Lecture Hours Max:
6

Lecture Hours Operator:
TO

Special Approval
Instructor permission

No Requirements

TEAL5700 - Modified Student Teaching - 2 - 5 Credits

Course Overview

Course Prefix
TEAL

Course Number
5700

Department
School of Teacher Education & Leadership

Course Title
Modified Student Teaching

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
This is a variable length field experience for secondary education teacher candidates.

Credit Hours

Credit Hours Min:
2

Credit Hours Max:
5

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
2

Contact Hours Max:
5

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
2

Billing Hours Max:
5

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
2

Lecture Hours Max:
5

Lecture Hours Operator:
TO

Special Approval
Instructor approval

TEAL5710 - Instruction for Linguistically and Culturally Diverse Learners - 3 - Credits

Course Overview

Course Prefix
TEAL

Course Number
5710

Department
School of Teacher Education & Leadership

Course Title
Instruction for Linguistically and Culturally Diverse Learners

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course explores social, cultural, and political factors impacting the education of English language learners. Students examine instructional and social issues related to ESL students/families and schools.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Registration Restrictions
Admission to Teacher Education

TEAL5735 - Language Systems, Acquisition, and Instruction for English Learners - 3 - Credits

Course Overview

Course Prefix
TEAL

Course Number
5735

Department
School of Teacher Education & Leadership

Course Title
Language Systems, Acquisition, and Instruction for English Learners

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course examines major concepts, theories, and research in second language acquisition and literacy in the classroom. These explorations address how to create classrooms that foster linguistically rich environments that promote culturally responsive and effective teaching for English language learners.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

TEAL5745 - Second Language Acquisition for Teachers - 3 - Credits

Course Overview

Course Prefix
TEAL

Course Number
5745

Department
School of Teacher Education & Leadership

Course Title
Second Language Acquisition for Teachers

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Examines the multifaceted process of second language acquisition. Emphasized are the linguistic, cognitive, sociocultural and dialogical perspectives. It includes critical perspectives in community, national, and global contexts.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

TEAL5755 - Family and Community Involvement for ELs - 3 - Credits

Course Overview

Course Prefix
TEAL

Course Number
5755

Department
School of Teacher Education & Leadership

Dual-Listed Courses
TEAL6755 - Family and Community Involvement for ELs

Course Title
Family and Community Involvement for ELs

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students learn the role and contribution of family and community in the cognitive, linguistic and social development of students. Candidates provide support and advocacy for ELs and their families and understand the history, laws, and policies of ESL teaching. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

TEAL5760 - Foundations of Bilingual/ESL/ Educational and Dual Language Immersion for Teachers - 3 - Credits

Course Overview

Course Prefix
TEAL

Course Number
5760

Department
School of Teacher Education & Leadership

Course Title
Foundations of Bilingual/ESL/Educational and Dual Language Immersion for Teachers

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Explores social, cultural, and historical contexts of ESL/Bilingual Education in the U.S. Structures of ESL, bilingual and dual language immersion are examined.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

TEAL5770 - Content Based Instruction for Dual Language Immersion/English as a Second Language - 3 - Credits

Course Overview

Course Prefix
TEAL

Course Number
5770

Department
School of Teacher Education & Leadership

Dual-Listed Courses
TEAL6770 - Content Based Instruction for Dual Language Immersion/English as a Second Language

Course Title
Content Based Instruction for Dual Language Immersion/English as a Second Language

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course focuses on methods for integrating language learning and content-based instruction. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

TEAL5780 - Assessment for Language Learners - 3 - Credits

Course Overview

Course Prefix
TEAL

Course Number
5780

Department
School of Teacher Education & Leadership

Dual-Listed Courses
TEAL6780 - Assessment for Language Learners

Course Title
Assessment for Language Learners

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course explores principles and techniques for developing, analyzing, and interpreting assessment measures for English language learners, including oral, writing, reading, and content-area assessment, as well as assessments used in public schools. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Admission to a program in Teacher Education

TEAL5790 - ESOL Field Experience - 0.5 - 3 Credits

Course Overview

Course Prefix
TEAL

Course Number
5790

Department
School of Teacher Education & Leadership

Dual-Listed Courses
TEAL6790 - ESOL Field Experience

Course Title
ESOL Field Experience

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
Students apply what they are learning in coursework from the ESL courses in a field setting. Students receive instructor feedback on their instructional design and assessments, analyses of effective and ineffective practices, and engagement with families and community members. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours Min:
0.5

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
0.5

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
0.5

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
0.5

Lecture Hours Max:
3

Lecture Hours Operator:
TO

TEAL6010 - Critical Issues in Education - 3 - Credits

Course Overview

Course Prefix
TEAL

Course Number
6010

Department
School of Teacher Education & Leadership

Dual-Listed Courses
TEAL7010 - Critical Issues in Education

Course Title
Critical Issues in Education

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Introduces graduate students to critical issues affecting K-12 curriculum, schools, students, and teachers. Course members will engage in inquiry to problematize contemporary issues in K-12 schools and investigate possible alternatives.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

TEAL6040 - Designing and Interpreting Measurements for Assessing Student Learning - 3 - Credits

Course Overview

Course Prefix
TEAL

Course Number
6040

Department
School of Teacher Education & Leadership

Course Title
Designing and Interpreting Measurements for Assessing Student Learning

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Teachers and instructional supervisors develop their talents for (a) designing and interpreting measurements for monitoring students' learning and (b) interpreting scores from standardized and government-mandated tests.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

TEAL6050 - Theories of Instructional Supervision - 3 - Credits

Course Overview

Course Prefix
TEAL

Course Number
6050

Department
School of Teacher Education & Leadership

Dual-Listed Courses
TEAL7050 - Theories of Instructional Supervision

Course Title
Theories of Instructional Supervision

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers principles and the theoretical base of supervision as they relate to improving instructional practices. The course emphasizes research findings and recommended practices. Differentiated syllabi are provided between the master's and doctoral versions.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Admission to the School Leadership - Higher Education/Student Affairs - MEd, School Leadership - MEd, or School Leadership - Post-Master's Certificate

No Requirements

TEAL6060 - Instructional Leadership: Assessment for Curricular - 3 - Credits

Course Overview

Course Prefix
TEAL

Course Number
6060

Department
School of Teacher Education & Leadership

Course Title
Instructional Leadership: Assessment for Curricular

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces prospective school leaders to instructional leadership practices in a climate of accountability for curriculum results using various assessment tools and approaches.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Admission to the School Leadership - Higher Education/Student Affairs - MEd, School Leadership - MEd, or School Leadership - Post-Master's Certificate

No Requirements

TEAL6064 - Methods for Teaching Middle Level Mathematics - 3 - Credits

Course Overview

Course Prefix
TEAL

Course Number
6064

Department
School of Teacher Education & Leadership

Dual-Listed Courses
TEAL5064 - Methods for Teaching Middle Level Mathematics

Course Title
Methods for Teaching Middle Level Mathematics

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course enables students to know the content topics of school mathematics and plan, teach, and reflect on lessons for middle school grades. Students learn to identify and use instructional strategies to teach equitably, allowing mathematics access for all learners. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

TEAL6080 - Leadership and the School Principal - 3 - Credits

Course Overview

Course Prefix
TEAL

Course Number
6080

Department
School of Teacher Education & Leadership

Course Title
Leadership and the School Principal

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course focuses on the school principalship. It provides an overview of the roles and responsibilities of the principal, with emphasis placed on understanding leadership and instructional leadership. It introduces students to knowledge, dispositions, and skills required of successful school principals.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Admission to the School Leadership - Higher Education/Student Affairs - MEd, School Leadership - MEd, or School Leadership - Post-Master's Certificate

No Requirements

TEAL6090 - Theories of Organizational Leadership in Education - 3 - Credits

Course Overview

Course Prefix
TEAL

Course Number
6090

Department
School of Teacher Education & Leadership

Course Title
Theories of Organizational Leadership in Education

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces students to theories of organizational behavior and practices of managing and leading people within the context of the school organization.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Admission to the School Leadership - Post-Master's Certificate for licensure or School Leadership - MEd program

TEAL6150 - Foundations of Curriculum - 3 - Credits

Course Overview

Course Prefix
TEAL

Course Number
6150

Department
School of Teacher Education & Leadership

Course Title
Foundations of Curriculum

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Examination of theories, principles, and foundations of curriculum, emphasizing program planning and current curriculum trends.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

TEAL6190 - Theories of Learning and Models of Teaching - 3 - Credits

Course Overview

Course Prefix
TEAL

Course Number
6190

Department
School of Teacher Education & Leadership

Course Title
Theories of Learning and Models of Teaching

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Reviews the philosophical, psychological, and sociological genealogies behind historical and current theories of learning. Analyzes the approaches, metaphors, and models of teaching that these theories inform.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

TEAL6205 - Nature of Science and Engineering for Teachers - 3 - Credits

Course Overview

Course Prefix
TEAL

Course Number
6205

Department
School of Teacher Education & Leadership

Course Title
Nature of Science and Engineering for Teachers

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces practicing teachers to the nature of science using science and engineering principles, practices, and processes. Students explore major stances on the nature of science and engineering through experiences with practical classroom applications.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

TEAL6210 - Graduate Student Teaching - 3 - 10 Credits

Course Overview

Course Prefix
TEAL

Course Number
6210

Department
School of Teacher Education & Leadership

Course Title
Graduate Student Teaching

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
This is a variable length field experience in which students carry out teaching responsibilities under direction of mentor teachers in the relevant content or grade level for their program.

Credit Hours

Credit Hours Min:
3

Credit Hours Max:
10

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
3

Contact Hours Max:
10

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
3

Billing Hours Max:
10

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
3

Lecture Hours Max:
10

Lecture Hours Operator:
TO

Registration Restrictions
Teacher Ed registration block

No Requirements

TEAL6211 - Graduate Student Teaching Seminar - 3 - Credits

Course Overview

Course Prefix
TEAL

Course Number
6211

Department
School of Teacher Education & Leadership

Course Title
Graduate Student Teaching Seminar

Grade Mode
Pass/Fail

Repeat Status
NR

Course Description
Graduate capstone seminar focused upon student teaching issues, professional development, and principles of effective instruction, emphasizing reflective teaching.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Admission to Teacher Education

Simple Requisites

Corequisite

Type
Corequisite

Required

Enroll in the following Courses:

- TEAL6210 - Graduate Student Teaching

Course Learning Objectives

Course Learning Outcomes

1. Apply your content area knowledge from your prior coursework to develop lesson and unit plans which support students in meeting rigorous learning goals drawing upon content areas, Utah Core Standards, and instructional best practices.

2. Develop specific skills, competencies and points of view needed by professionals in the field of teaching by designing positive learning environments, instruction based on approved content standards and research using a variety of instructional strategies for diverse learners, collaborating with learners, families and the community while demonstrating the highest standard of legal, moral, and ethical conduct as specified in Utah State Board Rule R277-515.

TEAL6220 - Workshop in Early Childhood Education - 1 - 6 Credits

Course Overview

Course Prefix
TEAL

Course Number
6220

Department
School of Teacher Education & Leadership

Course Title
Workshop in Early Childhood Education

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Exploration of current topics important in teaching young children.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
6

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
6

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
6

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
6

Lecture Hours Operator:
TO

No Requirements

TEAL6230 - Standards and Evidence-Based Literacy Instruction in the Elementary School (K-6) - 3 - Credits

Course Overview

Course Prefix
TEAL

Course Number
6230

Department
School of Teacher Education & Leadership

Course Title
Standards and Evidence-Based Literacy Instruction in the Elementary School (K-6)

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
A survey of current standards, theories, research and evidence-based practices for teaching literacy effectively in the elementary school (K-6).

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

TEAL6235 - Literacy Curriculum and Instruction - 3 - Credits

Course Overview

Course Prefix
TEAL

Course Number
6235

Department
School of Teacher Education & Leadership

Course Title
Literacy Curriculum and Instruction

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students apply knowledge in ways to lead LEA/school-wide literacy instructional efforts to develop, implement, and evaluate evidence-based literacy practices and curriculum across classrooms and in academic disciplines, pre-K through grade 12, to meet the needs of all learners.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

TEAL6250 - Graduate Cooperative Work Experience - 1 - 10 Credits

Course Overview

Course Prefix
TEAL

Course Number
6250

Department
School of Teacher Education & Leadership

Course Title
Graduate Cooperative Work Experience

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
Cooperative education work experience at a professional level.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
10

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
10

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
10

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
10

Lecture Hours Operator:
TO

Special Approval

Prior approval required

No Requirements

TEAL6255 - Mathematics Curriculum and Instruction - 2 - Credits

Course Overview

Course Prefix
TEAL

Course Number
6255

Department
School of Teacher Education & Leadership

Course Title
Mathematics Curriculum and Instruction

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Examination of current curriculum standards, trends, and effective methods of instruction for mathematics in middle and secondary schools.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

No Requirements

TEAL6270 - Introduction to Methods, Planning, and Assessment - 3 - Credits

Course Overview

Course Prefix
TEAL

Course Number
6270

Department
School of Teacher Education & Leadership

Course Title
Introduction to Methods, Planning, and Assessment

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces new teachers to effective, evidence-based teaching methods, planning for instruction, and assessment of student learning.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

TEAL6280 - Instructional Leadership: Instructional Practices for Diverse Learners - 3 - Credits

Course Overview

Course Prefix
TEAL

Course Number
6280

Department
School of Teacher Education & Leadership

Course Title
Instructional Leadership: Instructional Practices for Diverse Learners

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course engages prospective school leaders to learn and evaluate evidence-based academics and behavioral instructional methods to improve diverse user outcomes.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Registration Restrictions
Admission to the School Leadership - Higher Education/Student Affairs - MEd, School Leadership - MEd, or School Leadership - Post-Master's Certificate

No Requirements

TEAL6300 - Workshop in Mathematics Education - 1 - 6 Credits

Course Overview

Course Prefix
TEAL

Course Number
6300

Department
School of Teacher Education & Leadership

Course Title
Workshop in Mathematics Education

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Exploration of current topics and methods in mathematics education. In the past, topics have included: Common Core mathematics content, relevant mathematics in rural settings, integration of mathematics and children's literature.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
6

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
6

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
6

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
6

Lecture Hours Operator:
TO

No Requirements

TEAL6320 - Theories and Models of Reading - 3 - Credits

Course Overview

Course Prefix
TEAL

Course Number
6320

Department
School of Teacher Education & Leadership

Dual-Listed Courses
TEAL7320 - Theories and Models of Reading

Course Title
Theories and Models of Reading

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces macro-level theoretical paradigms and mid-range theoretical models that shape theories of literacy, literacy research, and literacy instruction. By identifying these theories and models, graduate students develop a more informed definition of literacy instruction and research.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

TEAL6321 - Foundations of Literacy and Language - 3 - Credits

Course Overview

Course Prefix
TEAL

Course Number
6321

Department
School of Teacher Education & Leadership

Course Title
Foundations of Literacy and Language

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students examine major theoretical, conceptual, historical, and evidence-based foundations of early literacy and language development (components and processes). Students develop, implement, and evaluate research-supported practices within the pre-K-12 context.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Course Learning Objectives

Course Learning Outcomes
1. Students will identify macro-level theoretical paradigms and mid-range theoretical models that shape theories of literacy, literacy research, and literacy instruction.

2. Students will synthesize learnings on a theoretical model that shapes theories of literacy, literacy research, and literacy instruction to present to fellow students.

3. Students will identify specific ways to support instruction in K-12 schools through theories of literacy, literacy research, and literacy instruction.

TEAL6323 - Literacy Education Teaching Training and Development - 3 - Credits

Course Overview

Course Prefix
TEAL

Course Number
6323

Department
School of Teacher Education & Leadership

Dual-Listed Courses
TEAL7323 - Literacy Education Teacher Training and Development

Course Title
Literacy Education Teaching Training and Development

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This is an advanced course examining theories, principles, and foundations of literacy teacher training and teacher development. Students will develop expertise in designing and teaching literacy methods courses, apply principals of effective professional development, and create literacy experiences for teachers.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Course Learning Objectives

Course Learning Outcomes
1. Reflect on one's own teaching practices and beliefs to design a teaching philosophy.
2. Read, interpret, critique, and synthesize the research on preservice and inservice teacher development, teacher learning, teacher knowledge, and teacher leadership specific to literacy.
3. Become familiar with reports from major commissions, committees, panels, and professional organizations related to effective literacy instruction.
4. Design instructional strategies and organization to provide effective instruction in literacy teacher professional learning.
5. Design and provide learning experiences including an evaluation of student work in a K-12 professional development.

TEAL6330 - Leadership in the School Community - 3 - Credits

Course Overview

Course Prefix
TEAL

Course Number
6330

Department
School of Teacher Education & Leadership

Course Title
Leadership in the School Community

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course explores theory and practice of family-school-community relationships with a focus on engaging all families, community partners, and school personnel in cultivating an inclusive, caring, safe, and supportive school community.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Admission to the School Leadership - Higher Education/Student Affairs - MEd, School Leadership - MEd, or School Leadership - Post-Master's Certificate

No Requirements

TEAL6350 - Literacy Assessment and Intervention - 3 - Credits

Course Overview

Course Prefix
TEAL

Course Number
6350

Department
School of Teacher Education & Leadership

Course Title
Literacy Assessment and Intervention

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students learn to develop and evaluate a comprehensive language and literacy assessment system; to lead educator professional learning initiatives concerning the selection, administration, analysis, and interpretation of assessments; and to use assessment results for goal setting and instructional decision making.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

TEAL6381 - Writing Research and Instruction - 3 - Credits

Course Overview

Course Prefix
TEAL

Course Number
6381

Department
School of Teacher Education & Leadership

Dual-Listed Courses
TEAL7380 - Writing Research and Instruction

Course Title
Writing Research and Instruction

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Course focuses on the reading and critique of research on writing development and instruction that use a variety of research methods and contexts, reviews potential research methods, and supports students' synthesis of knowledge on a specific writing topic.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

TEAL6390 - Researching K-12 Literacy Using Fiction and Non-Fiction Texts - 3 - Credits

Course Overview

Course Prefix
TEAL

Course Number
6390

Department
School of Teacher Education & Leadership

Dual-Listed Courses
TEAL7390 - Researching K-12 Literacy Using Fiction and Non-Fiction Texts

Course Title
Researching K-12 Literacy Using Fiction and Non-Fiction Texts

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course focuses on working with literature/informational texts to support standards-based language arts and content area instruction, including strategies for strengthening students' comprehension, building academic language, and selecting from a wide range of texts representing all students in U.S. schools.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

TEAL6400 - Foundations of Instructional Coaching - 3 - Credits

Course Overview

Course Prefix
TEAL

Course Number
6400

Department
School of Teacher Education & Leadership

Cross-Listed Courses
ITLS6400 - Foundations of Instructional Coaching

Course Title
Foundations of Instructional Coaching

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course develops instructional coaching practices for educators. Topics covered include coaching models, interpersonal skills, evidence-based pedagogical approaches, data-informed decisions, and addressing the needs of diverse learners in a variety of settings.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes
1. Using current research-based instructional coaching practices. [e.g., primary literature will be used from the University of Kansas Center for Research on Learning, Uncommon Schools, Utah State Board of Education's documentation on instructional coaching and mentoring.]

2. To support educators in creating and accomplishing goals aligned with the vision and expectations of their organization.

3. To improve learner outcomes through building the capacity of the educators to use best practices to meet student needs.

4. To build trusting relationships through clear support and communication.

5. To demonstrate an ability to listen and communicate through asking probing and reflective questions.

6. To help educators gather, analyze, and use data to shift instructional decision making and practices.

7. To understand how to differentiate coaching for educators who work in a variety of educational settings.

TEAL6410 - Social Foundations of Education - 3 - Credits

Course Overview

Course Prefix
TEAL

Course Number
6410

Department
School of Teacher Education & Leadership

Course Title
Social Foundations of Education

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Examines current educational issues and trends within contexts of history, philosophy, and cultural foundations.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

TEAL6415 - History of Policy Change in US Schools - 3 - Credits

Course Overview

Course Prefix
TEAL

Course Number
6415

Department
School of Teacher Education & Leadership

Dual-Listed Courses
TEAL7415 - History of Policy Change in US Schools

Course Title
History of Policy Change in US Schools

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces graduate students to the ways in which educational policy reform has been pursued and how those reforms have impacted students, teachers, and communities in the United States.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Course Learning Objectives

Course Learning Outcomes

1. Explore the historical record of education reform movements - their proponents, adversaries, and impacts.
2. Analyze the theoretical constructs used by educational historians.
3. Apply the tools of educational history to contemporary reform movements.

TEAL6420 - Learning, Development, and Individual Differences in Gifted Education - 3 - Credits

Course Overview

Course Prefix
TEAL

Course Number
6420

Department
School of Teacher Education & Leadership

Dual-Listed Courses
TEAL5420 - Learning, Development, and Individual Differences in Gifted Education

Course Title
Learning, Development, and Individual Differences in Gifted Education

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students learn the characteristics and needs of gifted children and youth, types of programs available, the historical and philosophical foundations required of professionals in the field, the history of the gifted child movement, and advocacy for gifted children and youth. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

TEAL6440 - Creativity in Education - 2 - Credits

Course Overview

Course Prefix
TEAL

Course Number
6440

Department
School of Teacher Education & Leadership

Dual-Listed Courses
TEAL5440 - Creativity in Education

Course Title
Creativity in Education

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students explore theories, research, and strategies concerning creativity, and their application to personal creativity and to the improvement of classroom practice. Additional work is required for those enrolled in the graduate level course.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

No Requirements

TEAL6450 - Learning Environments for Gifted Students - 3 - Credits

Course Overview

Course Prefix
TEAL

Course Number
6450

Department
School of Teacher Education & Leadership

Dual-Listed Courses
TEAL5450 - Learning Environments for Gifted Students

Course Title
Learning Environments for Gifted Students

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students learn to create learning environments that foster emotional well-being, positive social interaction, leadership, and cultural understanding, and learn of the impact of giftedness and diversity on social-emotional development, becoming enabled to design responsive environments within a continuum of services. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

TEAL6500 - School Finance and Resource Management - 3 - Credits

Course Overview

Course Prefix
TEAL

Course Number
6500

Department
School of Teacher Education & Leadership

Course Title
School Finance and Resource Management

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course focuses on generating, allocating, and managing revenues and resources for public schools. It emphasizes law and policy regarding Utah school finance.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Admission to the School Leadership - Higher Education/Student Affairs - MEd, School Leadership - MEd, or School Leadership - Post-Master's Certificate

No Requirements

TEAL6505 - Science Curriculum and Instruction - 2 - Credits

Course Overview

Course Prefix
TEAL

Course Number
6505

Department
School of Teacher Education & Leadership

Course Title
Science Curriculum and Instruction

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Examination of current curriculum standards, trends, and effective methods of instruction for science in middle and secondary schools. Emphasizes science program improvement through investigative lab activities.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

No Requirements

TEAL6521 - Mathematics for Teaching K-8 - Numbers and Operations - 3 - Credits

Course Overview

Course Prefix
TEAL

Course Number
6521

Department
School of Teacher Education & Leadership

Course Title
Mathematics for Teaching K-8 - Numbers and Operations

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course for K-8 teachers covers the content of Number and Operations to develop a comprehensive understanding of number systems and relate their structure to computation, arithmetic, algebra, and problem-solving.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Bachelor's degree in Elementary Education or equivalent

No Requirements

TEAL6522 - Mathematics for Teaching K-8 - Rational Numbers and Proportional Reasoning - 3 - Credits

Course Overview

Course Prefix
TEAL

Course Number
6522

Department
School of Teacher Education & Leadership

Course Title
Mathematics for Teaching K-8 - Rational Numbers and Proportional Reasoning

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
To provide practicing teachers a deeper understanding of rational numbers, operations with rational numbers, and proportionality, and instructional strategies to facilitate the instruction of this content for elementary students.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Bachelor's degree in Elementary Education or equivalent

No Requirements

TEAL6523 - Mathematics for Teaching K-8 - Algebraic Reasoning - 3 - Credits

Course Overview

Course Prefix
TEAL

Course Number
6523

Department
School of Teacher Education & Leadership

Course Title
Mathematics for Teaching K-8 - Algebraic Reasoning

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
To provide practicing teachers a deeper understanding of algebraic expressions, equations, functions, real numbers, and instructional strategies to facilitate the instruction of this content for elementary students.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Bachelor's degree in Elementary Education or equivalent

No Requirements

TEAL6524 - Mathematics for Teaching K-8 - Geometry and Measurement - 3 - Credits

Course Overview

Course Prefix
TEAL

Course Number
6524

Department
School of Teacher Education & Leadership

Course Title
Mathematics for Teaching K-8 - Geometry and Measurement

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
To provide practicing teachers a deeper understanding of the geometry and measurement context that exists in the state core and instructional strategies to facilitate the instruction of this content.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Bachelor's degree in Elementary Education or equivalent

No Requirements

TEAL6525 - Mathematics for Teaching K-8 - Data Analysis and Problem Solving - 3 - Credits

Course Overview

Course Prefix
TEAL

Course Number
6525

Department
School of Teacher Education & Leadership

Course Title
Mathematics for Teaching K-8 - Data Analysis and Problem Solving

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course will provide practicing teachers a deeper understanding of probability and data representation and analysis.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Bachelor's degree in Elementary Education or equivalent

No Requirements

TEAL6530 - Anthropology of Education - 3 - Credits

Course Overview

Course Prefix
TEAL

Course Number
6530

Department
School of Teacher Education & Leadership

Dual-Listed Courses
TEAL4530 - Anthropology of Education

Course Title
Anthropology of Education

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course explores the historical, theoretical, and methodological developments for the field of anthropology and education. This course examines the sociocultural contexts of learning in diverse settings including an analysis of the foundational assumptions of the anthropology of education. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

TEAL6540 - Data-Based Decision Making for School Leaders - 3 - Credits

Course Overview

Course Prefix
TEAL

Course Number
6540

Department
School of Teacher Education & Leadership

Course Title
Data-Based Decision Making for School Leaders

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course prepares prospective school leaders to conduct research and to collect and analyze data for decision making and program evaluation in schools.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Admission to the Administrative/Supervisory Concentration or M.Ed. in Instructional Leadership program

No Requirements

TEAL6545 - Research For Teachers - 3 - Credits

Course Overview

Course Prefix
TEAL

Course Number
6545

Department
School of Teacher Education & Leadership

Dual-Listed Courses
TEAL7545 - Research for Teachers

Course Title
Research For Teachers

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course explores research methods such as action research, teacher research, journey maps, and photovoice that can be conducted by teachers, administrators, and others in educational settings with the purpose of gaining information and seeking improvement.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

TEAL6550 - Practicum in the Evaluation of Instruction - 1 - 4 Credits

Course Overview

Course Prefix
TEAL

Course Number
6550

Department
School of Teacher Education & Leadership

Course Title
Practicum in the Evaluation of Instruction

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Field-based research study contributing toward graduate degrees. Supervisory licensure related to assessment of ongoing or newly proposed program of instruction.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
4

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
4

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
4

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
4

Lecture Hours Operator:
TO

No Requirements

TEAL6551 - Mathematics for Teaching K - 8: Assessment and Intervention - 3 - Credits

Course Overview

Course Prefix
TEAL

Course Number
6551

Department
School of Teacher Education & Leadership

Course Title
Mathematics for Teaching K - 8: Assessment and Intervention

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides practicing teachers a deeper understanding of the various types of assessment and their appropriate use for guiding instruction, intervention and evaluation of student learning.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Bachelor's degree in Elementary Education or equivalent

No Requirements

TEAL6552 - Mathematics Education Leadership Knowledge and Skills - 3 - Credits

Course Overview

Course Prefix
TEAL

Course Number
6552

Department
School of Teacher Education & Leadership

Course Title
Mathematics Education Leadership Knowledge and Skills

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course develops the following mathematics education leadership knowledge and skills: policy and curriculum issues; research informing instructional practice; implementation and evaluation of professional development; evaluation of educational structures that affect equity; and responsibilities of math coaches and mentors.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Teacher Licensure; Bachelor's Degree

No Requirements

TEAL6560 - Special Topics - 0.5 - 4 Credits

Course Overview

Course Prefix
TEAL

Course Number
6560

Department
School of Teacher Education & Leadership

Cross-Listed Courses
EDUC6560 - Special Topics

Dual-Listed Courses
TEAL5560 - Special Topics

Course Title
Special Topics

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Field-based program focusing upon characteristics of effective teaching methodologies, teaching performance, curriculum decision making, value guidelines, and the characteristics of the learner. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours Min:
0.5

Credit Hours Max:
4

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
0.5

Contact Hours Max:
4

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
0.5

Billing Hours Max:
4

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
0.5

Lecture Hours Max:
4

Lecture Hours Operator:
TO

No Requirements

TEAL6570 - K-12 Comprehension Research - 3 - Credits

Course Overview

Course Prefix
TEAL

Course Number
6570

Department
School of Teacher Education & Leadership

Dual-Listed Courses
TEAL7570 - K-12 Comprehension Research

Course Title
K-12 Comprehension Research

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course examines research and pedagogical implications for promoting reading comprehension, metacognition, and motivation in classrooms; reviews theory, research, and practice related to teaching reading comprehension, including vocabulary development, strategy instruction, and fostering motivation; includes creating a research proposal.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

TEAL6580 - Character and Values Education - 2 - Credits

Course Overview

Course Prefix
TEAL

Course Number
6580

Department
School of Teacher Education & Leadership

Course Title
Character and Values Education

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Overview of research, theory, and practical approaches to values education, emphasizing processes of moral development and socialization.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

No Requirements

TEAL6590 - Supervising School Reading Program - 3 - Credits

Course Overview

Course Prefix
TEAL

Course Number
6590

Department
School of Teacher Education & Leadership

Course Title
Supervising School Reading Program

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course is designed as a field-based practicum designed to increase understanding of administration and supervision of school literacy programs for educators who are completing the Utah Reading Endorsement, Level II and plan to become Reading Specialists.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Level 1 Reading Endorsement

No Requirements

TEAL6675 - Discourse Analysis in Education - 3 - Credits

Course Overview

Course Prefix
TEAL

Course Number
6675

Department
School of Teacher Education & Leadership

Dual-Listed Courses
TEAL7675 - Discourse Analysis in Education

Course Title
Discourse Analysis in Education

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course will examine the area of discourse analysis, a methodological approach that examines how language in use—through spoken, written, or multimodal forms—constructs and reflects social identities, power relations, institutional norms, and learning processes within educational settings. Additional coursework is required for 7000 level course.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Course Learning Objectives

Course Learning Outcomes
1. Analyze, critique and expand the research literature concerning discourse analysis.

2. Define, discuss and apply theoretical concepts and approaches to the study of interactional discourse in the context of specific communities, cases, and everyday educational experiences.

3. Explore a range of disciplinary perspectives in order to develop an expanded understanding of the range and dimensions of discourse interactions.

4. Examine the implications of the above for shaping your own data collection and analysis and for impacting educational practice and policy.

TEAL6710 - Diversity in Education - 3 - Credits

Course Overview

Course Prefix
TEAL

Course Number
6710

Department
School of Teacher Education & Leadership

Course Title
Diversity in Education

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Analyzes the role of education in a culturally and linguistically diverse society. Examines the place multicultural education and inclusive pedagogies have in advancing educational equity and social justice. Explores multiple ways educators work with and for transnational communities.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

TEAL6720 - Practicum in Science Instruction - 1 - Credits

Course Overview

Course Prefix
TEAL

Course Number
6720

Department
School of Teacher Education & Leadership

Course Title
Practicum in Science Instruction

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Optional practicum to be taken semester following enrollment in TEAL 6700.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

No Requirements

TEAL6740 - School Law - 3 - Credits

Course Overview

Course Prefix
TEAL

Course Number
6740

Department
School of Teacher Education & Leadership

Course Title
School Law

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course acquaints students with legal issues relating to public education. It considers rights and responsibilities of students, teachers, and educational practitioners. It relates these rights to school programs and operations as determined by state and federal laws and court decisions.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Admission to School Leadership - Higher Education/Student Affairs - MEd, School Leadership - MEd, or School Leadership - Post-Master's Certificate

No Requirements

TEAL6755 - Family and Community Involvement for ELs - 3 - Credits

Course Overview

Course Prefix
TEAL

Course Number
6755

Department
School of Teacher Education & Leadership

Dual-Listed Courses
TEAL5755 - Family and Community Involvement for ELs

Course Title
Family and Community Involvement for ELs

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students will understand the role and contribution of family and community in the cognitive, linguistic and social development of students. Candidates provide support and advocacy for ELs and their families and understand the history, laws, and policies of ESL teaching. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

TEAL6770 - Content Based Instruction for Dual Language Immersion/English as a Second Language - 3 - Credits

Course Overview

Course Prefix
TEAL

Course Number
6770

Department
School of Teacher Education & Leadership

Dual-Listed Courses
TEAL5770 - Content Based Instruction for Dual Language Immersion/English as a Second Language

Course Title
Content Based Instruction for Dual Language Immersion/English as a Second Language

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course focuses on methods for integrating language learning and content-based instruction. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

TEAL6780 - Assessment for Language Learners - 3 - Credits

Course Overview

Course Prefix
TEAL

Course Number
6780

Department
School of Teacher Education & Leadership

Dual-Listed Courses
TEAL5780 - Assessment for Language Learners

Course Title
Assessment for Language Learners

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course explores principles and techniques for developing, analyzing, and interpreting assessment measures for English language learners, including oral, writing, reading, and content-area assessment, as well as assessments used in public schools. Additional coursework may be required for graduate students.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Registration Restrictions
Admission to a program in Teacher Education

TEAL6790 - ESOL Field Experience - 0.5 - 3 Credits

Course Overview

Course Prefix
TEAL

Course Number
6790

Department
School of Teacher Education & Leadership

Dual-Listed Courses
TEAL5790 - ESOL Field Experience

Course Title
ESOL Field Experience

Grade Mode
Pass/Fail

Repeat Status
NR

Course Description
Students apply what they are learning in coursework from the ESL courses in a field setting. Students receive instructor feedback on their instructional design and assessments, analyses of effective and ineffective practices, and engagement with families and community members. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours Min:
0.5

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
0.5

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
0.5

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
0.5

Lecture Hours Max:
3

Lecture Hours Operator:
TO

TEAL6800 - Advanced Review of Research in Social Studies - 3 - Credits

Course Overview

Course Prefix
TEAL

Course Number
6800

Department
School of Teacher Education & Leadership

Dual-Listed Courses
TEAL7800 - Advanced Review of Research in Social Studies

Course Title
Advanced Review of Research in Social Studies

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Emphasizes contemporary research and practice related to K-12 social studies programs. Examines curriculum and methods of instruction surrounding topics such as the interrelationships between global education, multicultural education, and civic education.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Registration Restrictions
Admission to a TEAL graduate program

TEAL6900 - Independent Study - 0.5 - 3 Credits

Course Overview

Course Prefix
TEAL

Course Number
6900

Department
School of Teacher Education & Leadership

Course Title
Independent Study

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Students engage in independent study with faculty mentor.

Credit Hours

Credit Hours Min:
0.5

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
0.5

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
0.5

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
0.5

Lecture Hours Max:
3

Lecture Hours Operator:
TO

Special Approval
Department permission

No Requirements

TEAL6910 - Independent Research - 0.5 - 3 Credits

Course Overview

Course Prefix
TEAL

Course Number
6910

Department
School of Teacher Education & Leadership

Course Title
Independent Research

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Students engage in independent research with faculty mentor.

Credit Hours

Credit Hours Min:
0.5

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
0.5

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
0.5

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
0.5

Lecture Hours Max:
3

Lecture Hours Operator:
TO

Special Approval
Department permission

No Requirements

TEAL6930 - Supervision and Administrative Internship Seminar - 3 - Credits

Course Overview

Course Prefix
TEAL

Course Number
6930

Department
School of Teacher Education & Leadership

Course Title
Supervision and Administrative Internship Seminar

Grade Mode
Pass/Fail

Repeat Status
NR

Course Description
This course provides experience in supervision and administration in elementary and secondary school settings as they relate to the performances of the seven Utah Educational Leadership Standards.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Registration Restrictions
Admission to the School Leadership - Higher Education/Student Affairs - MEd, School Leadership - MEd, or School Leadership - Post-Master's Certificate

TEAL6945 - Supervision and Administration Internship - 3 - Credits

Course Overview

Course Prefix
TEAL

Course Number
6945

Department
School of Teacher Education & Leadership

Course Title
Supervision and Administration Internship

Grade Mode
Pass/Fail

Repeat Status
NR

Course Description
This course provides experience in supervision and administration in school systems.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Registration Restrictions

Admission to the Administrative/Supervisory Concentration or M.Ed. in Instructional Leadership program

No Requirements

TEAL6970 - Thesis - 3 - 6 Credits

Course Overview

Course Prefix
TEAL

Course Number
6970

Department
School of Teacher Education & Leadership

Course Title
Thesis

Grade Mode
Temporary Pass/Fail

Repeat Status
RP

Course Description
Students complete individually-directed work in thesis writing with guidance from their committee chair. The course is designed for use on MA and MS degrees only

Credit Hours

Credit Hours Min:
3

Credit Hours Max:
6

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
3

Contact Hours Max:
6

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
3

Billing Hours Max:
6

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
3

Lecture Hours Max:
6

Lecture Hours Operator:
TO

Special Approval

Department permission

No Requirements

TEAL6980 - Portfolio Project - 1 - Credits

Course Overview

Course Prefix
TEAL

Course Number
6980

Department
School of Teacher Education & Leadership

Course Title
Portfolio Project

Grade Mode
Pass/Fail

Repeat Status
NR

Course Description
This course is designed for MEd program students to integrate and apply concepts learned in the master's program and includes an individually-directed portfolio.

Credit Hours

Credit Hours Min:
1

Contact Hours

Contact Hours Min:
1

Billing Hours

Billing Hours Min:
1

Lecture Hours

Lecture Hours Min:
1

Special Approval

Department permission

No Requirements

TEAL6990 - Continuing Graduate Advisement - 1 - 9 Credits

Course Overview

Course Prefix
TEAL

Course Number
6990

Department
School of Teacher Education & Leadership

Course Title
Continuing Graduate Advisement

Grade Mode
Temporary Pass/Fail

Repeat Status
RP

Course Description
This course provides graduate students with continued support and advisement. It is usually taken following completion of all coursework required for the degree.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
9

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
9

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
9

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
9

Lecture Hours Operator:
TO

No Requirements

TEAL7000 - Student Teaching Supervision - 1 - 3 Credits

Course Overview

Course Prefix
TEAL

Course Number
7000

Department
School of Teacher Education & Leadership

Course Title
Student Teaching Supervision

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Considers ways and means of providing desirable experiences for student teachers in the public schools. Analysis of roles of classroom teacher and college supervisor.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

No Requirements

TEAL7010 - Critical Issues in Education - 3 - Credits

Course Overview

Course Prefix
TEAL

Course Number
7010

Department
School of Teacher Education & Leadership

Dual-Listed Courses
TEAL6010 - Critical Issues in Education

Course Title
Critical Issues in Education

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Introduces graduate students to critical issues affecting K-12 curriculum, schools, students, and teachers. Course members will engage in inquiry to problematize contemporary issues in K-12 schools and investigate possible alternatives.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

TEAL7015 - Orientation to Educational Research - 1 - Credits

Course Overview

Course Prefix
TEAL

Course Number
7015

Department
School of Teacher Education & Leadership

Course Title
Orientation to Educational Research

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
An introduction to department faculty and the expectations for consuming and evaluating educational research. Students meet and learn of the research activities of department faculty and review examples of educational research.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

No Requirements

TEAL7050 - Theories of Instructional Supervision - 3 - Credits

Course Overview

Course Prefix
TEAL

Course Number
7050

Department
School of Teacher Education & Leadership

Dual-Listed Courses
TEAL6050 - Theories of Instructional Supervision

Course Title
Theories of Instructional Supervision

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers principles and the theoretical base of supervision as they relate to improving instructional practices. The course emphasizes research findings and recommended practices. Differentiated syllabi are provided between the master's and doctoral versions.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

TEAL7055 - Internship in Program Evaluation - 1 - 6 Credits

Course Overview

Course Prefix
TEAL

Course Number
7055

Department
School of Teacher Education & Leadership

Course Title
Internship in Program Evaluation

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Experience in practical aspects of program evaluation through planned, supervised evaluation project participation approved by student's supervisory committee.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
6

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
6

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
6

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
6

Lecture Hours Operator:
TO

Special Approval
Instructor permission

No Requirements

TEAL7060 - Assessment and Data Issues for Instructional Leaders - 3 - Credits

Course Overview

Course Prefix
TEAL

Course Number
7060

Department
School of Teacher Education & Leadership

Course Title
Assessment and Data Issues for Instructional Leaders

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course is doctoral level class which extends and enriches some of the concepts of the TEAL 6540 course Data Based Decision Making. Student will also focus more on quality research methods for data assessment analysis and study the impact it has for instructional leaders.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

TEAL7065 - Internship in Research - 1 - 6 Credits

Course Overview

Course Prefix
TEAL

Course Number
7065

Department
School of Teacher Education & Leadership

Course Title
Internship in Research

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Experience in conducting research through planned, supervised research project participation approved by student's supervisory committee.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
6

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
6

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
6

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
6

Lecture Hours Operator:
TO

Special Approval
Instructor permission

No Requirements

TEAL7090 - Theories of Organizational Leadership in Education - 3 - Credits

Course Overview

Course Prefix
TEAL

Course Number
7090

Department
School of Teacher Education & Leadership

Course Title
Theories of Organizational Leadership in Education

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces students to theories of organizational behavior and practices of managing and leading people within the context of the school organization.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

TEAL7100 - Practices of Instructional Supervision - 2 - Credits

Course Overview

Course Prefix
TEAL

Course Number
7100

Department
School of Teacher Education & Leadership

Course Title
Practices of Instructional Supervision

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Application of instructional supervisory theories and practices of supervisory behaviors as they relate to improvement of instruction.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- TEAL7050 - Theories of Instructional Supervision

TEAL7150 - Curriculum Theory - 3 - Credits

Course Overview

Course Prefix
TEAL

Course Number
7150

Department
School of Teacher Education & Leadership

Course Title
Curriculum Theory

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Examines the origins and development of major historical and contemporary curriculum theories. Considers how these theories affect the organization of the school, while also affecting the lives and work of teachers, administrators, students, and the community.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Admission to the Education - PhD or the Education - EdD program

TEAL7200 - Advanced Review of Cultural Studies Research - 3 - Credits

Course Overview

Course Prefix
TEAL

Course Number
7200

Department
School of Teacher Education & Leadership

Course Title
Advanced Review of Cultural Studies Research

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course examines historical and contemporary cultural studies theories, addressing key questions in the field. Students explore cultural studies' relevance to education and research, critically analyzing its role in shaping educators' professional practices and educational inquiry.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Course Learning Objectives

Course Learning Outcomes

1. The purpose of this course is to advance students' understanding of historical and contemporary theoretical underpinnings of the field of cultural studies.

2. In exploring these issues, the course will raise the kind of issues and questions addressed within the field of cultural studies.

3. This course encourages students to answer and consider the role that cultural studies plays in the professional work of educators and educational researchers.

TEAL7300 - Historical, Social, and Cultural Foundations of Education - 3 - Credits

Course Overview

Course Prefix
TEAL

Course Number
7300

Department
School of Teacher Education & Leadership

Course Title
Historical, Social, and Cultural Foundations of Education

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course examines the relationship of modern school in terms of historical, cultural, and social foundations of education.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Admission to the Education - PhD or the Education - EdD program

TEAL7310 - Teaching-Learning Foundations in Education - 3 - Credits

Course Overview

Course Prefix
TEAL

Course Number
7310

Department
School of Teacher Education & Leadership

Course Title
Teaching-Learning Foundations in Education

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This is a seminar in which learning theories and teaching models/skills are demonstrated, critically examined, and integrated.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Admission to the Education - PhD or the Education - EdD program

No Requirements

TEAL7320 - Theories and Models of Reading - 3 - Credits

Course Overview

Course Prefix
TEAL

Course Number
7320

Department
School of Teacher Education & Leadership

Dual-Listed Courses
TEAL6320 - Theories and Models of Reading

Course Title
Theories and Models of Reading

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces macro-level theoretical paradigms and mid-range theoretical models that shape theories of literacy, literacy research, and literacy instruction. By identifying these theories and models, graduate students will develop a more informed definition of literacy instruction and research.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

TEAL7321 - Foundations of Literacy and Oral Language Development - 3 - Credits

Course Overview

Course Prefix
TEAL

Course Number
7321

Department
School of Teacher Education & Leadership

Course Title
Foundations of Literacy and Oral Language Development

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides foundational knowledge and advanced readings in linguistics, language acquisition, psycho-linguistics, sociolinguistics, pragmatics, and semiotics as well as readings on race, class, and culture relevant to literacy content knowledge for those preparing to become researchers/faculty in literacy education.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

TEAL7322 - Research in Literacy - 3 - Credits

Course Overview

Course Prefix
TEAL

Course Number
7322

Department
School of Teacher Education & Leadership

Course Title
Research in Literacy

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students will read, discuss, present, and analyze classical and current published research across a wide range of topics in literacy.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

TEAL7323 - Literacy Education Teacher Training and Development - 3 - Credits

Course Overview

Course Prefix
TEAL

Course Number
7323

Department
School of Teacher Education & Leadership

Dual-Listed Courses
TEAL6323 - Literacy Education Teaching Training and Development

Course Title
Literacy Education Teacher Training and Development

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This is an advanced course examining theories, principles, and foundations of literacy teacher training and teacher development. Students will develop expertise in designing and teaching literacy methods courses, apply principals of effective professional development, and create literacy experiences for teachers.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

TEAL7324 - Advanced Studies in Literacy Assessment and Intervention - 3 - Credits

Course Overview

Course Prefix
TEAL

Course Number
7324

Department
School of Teacher Education & Leadership

Course Title
Advanced Studies in Literacy Assessment and Intervention

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Literacy assessment and intervention for school-age children and adolescents; provides advanced practice on methods of identifying, analyzing, and planning assessment and intervention to enhance literacy growth.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

TEAL7325 - Instructional Leadership - 3 - Credits

Course Overview

Course Prefix
TEAL

Course Number
7325

Department
School of Teacher Education & Leadership

Course Title
Instructional Leadership

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Emphasizes application of theory, research, and effective practice to instructional and curricular improvement. Examines educational change.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

TEAL7326 - Designing and Conducting Literacy Research: A Capstone Experience - 3 - Credits

Course Overview

Course Prefix
TEAL

Course Number
7326

Department
School of Teacher Education & Leadership

Course Title
Designing and Conducting Literacy Research: A Capstone Experience

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This is an advanced course examining the design, methods, analytical tools and reporting of literacy research. Students will develop expertise in designing and critiquing literacy research as a part of their dissertation proposal development.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

TEAL7327 - Literacy Research Apprenticeship - 1 - Credits

Course Overview

Course Prefix
TEAL

Course Number
7327

Department
School of Teacher Education & Leadership

Course Title
Literacy Research Apprenticeship

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
The Literacy Research Apprenticeship provides students with directed experiences in research. Each student works directly with selected faculty members to experience the conduct of research. It requires 75 apprenticeship hours.

Credit Hours

Credit Hours Min:
1

Contact Hours

Contact Hours Min:
1

Billing Hours

Billing Hours Min:
1

Lecture Hours

Lecture Hours Min:
1

No Requirements

TEAL7330 - Internship in Supervision - 1 - 3 Credits

Course Overview

Course Prefix
TEAL

Course Number
7330

Department
School of Teacher Education & Leadership

Course Title
Internship in Supervision

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Directed experiences in supervision with selected public school personnel in approved settings. Experiences arranged by student's graduate committee.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

Special Approval
Instructor permission

No Requirements

TEAL7350 - Internship in Curriculum Development - 1 - 3 Credits

Course Overview

Course Prefix
TEAL

Course Number
7350

Department
School of Teacher Education & Leadership

Course Title
Internship in Curriculum Development

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Directed experiences in curriculum development with selected public school personnel in approved settings. Experiences arranged by student's graduate committee.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

Special Approval
Instructor permission

No Requirements

TEAL7380 - Writing Research and Instruction - 3 - Credits

Course Overview

Course Prefix
TEAL

Course Number
7380

Department
School of Teacher Education & Leadership

Dual-Listed Courses
TEAL6381 - Writing Research and Instruction

Course Title
Writing Research and Instruction

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Course focuses on the reading and critique of research on writing development and instruction that use a variety of research methods and contexts, reviews potential research methods, and supports students' synthesis of knowledge on a specific writing topic.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Course Learning Objectives

Course Learning Outcomes

1. Students will be able to read and critique research based upon prior knowledge of qualitative and quantitative methods.

2. Students will be able to explain a variety of methods used to study questions of how best to teach writing or how writing develops.

3. Students will be able to synthesize the research on a specific area of writing instruction research or writing development research.

TEAL7390 - Researching K-12 Literacy Using Fiction and Non-Fiction Texts - 3 - Credits

Course Overview

Course Prefix
TEAL

Course Number
7390

Department
School of Teacher Education & Leadership

Dual-Listed Courses
TEAL6390 - Researching K-12 Literacy Using Fiction and Non-Fiction Texts

Course Title
Researching K-12 Literacy Using Fiction and Non-Fiction Texts

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Course focuses on research of fiction and non-fiction texts in K-12 classroom contexts to support standards-based language arts and content area instruction, research on strategies for strengthening students' comprehension and academic language with texts, and potential designs for future research.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Course Learning Objectives

Course Learning Outcomes
1. Analyze and critique current research on children's and young adult literature, including with fiction and non-fiction texts and in multiple disciplines.
2. Discuss and critique various scholarly works/articles and professional videos about the motivation and engagement aspects of teaching with trade books.
3. Review and discuss current research-based instructional strategies for comprehending and conversing aout children's or young adult literature in the classroom.
4. Critically evaluate a variety of children's and young adult books using a variety of tools including professional books, journals, and the internet, for potential use in classrooms.
5. Design a research project related to teaching with children's or young adult literature, either fiction or non-fiction, in a content area of interest.

TEAL7415 - History of Policy Change in US Schools - 3 - Credits

Course Overview

Course Prefix
TEAL

Course Number
7415

Department
School of Teacher Education & Leadership

Dual-Listed Courses
TEAL6415 - History of Policy Change in US Schools

Course Title
History of Policy Change in US Schools

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces graduate students to the ways in which educational policy reform has been pursued and how those reforms have impacted students, teachers, and communities in the United States.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Course Learning Objectives

Course Learning Outcomes
1. Explore the historical record of education reform movements - their proponents, adversaries, and impacts.
2. Analyze the theoretical constructs used by educational historians.
3. Apply the tools of educational history to contemporary reform movements.

TEAL7500 - Interdisciplinary Workshop - 1 - 2 Credits

Course Overview

Course Prefix
TEAL

Course Number
7500

Department
School of Teacher Education & Leadership

Course Title
Interdisciplinary Workshop

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Students study a specific area of discipline that is not part of the department's regularly scheduled curriculum.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
2

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
2

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
2

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
2

Lecture Hours Operator:
TO

No Requirements

TEAL7540 - College Teaching Apprenticeship - 1 - 3 Credits

Course Overview

Course Prefix
TEAL

Course Number
7540

Department
School of Teacher Education & Leadership

Course Title
College Teaching Apprenticeship

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Provides guided experience in teaching university courses.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

Registration Restrictions
Admission to PhD or EdD program

Special Approval
Approval of department head and major advisor

No Requirements

TEAL7545 - Research for Teachers - 3 - Credits

Course Overview

Course Prefix
TEAL

Course Number
7545

Department
School of Teacher Education & Leadership

Dual-Listed Courses
TEAL6545 - Research For Teachers

Course Title
Research for Teachers

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course explores research methods such as action research, teacher research, journey maps, and photovoice that can be conducted by teachers, administrators, and others in educational settings with the purpose of gaining information and seeking improvement.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

TEAL7546 - Qualitative Data Analysis - 3 - Credits

Course Overview

Course Prefix
TEAL

Course Number
7546

Department
School of Teacher Education & Leadership

Course Title
Qualitative Data Analysis

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course, designed for doctoral students, engages students in the description, practice, and evaluation of qualitative data analysis methods. Students analyze a wide variety of data sources using methods such as transcribing, coding, and developing themes.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- EDUC6770 - Qualitative Research Methods

TEAL7547 - Thinking with Theory in Qualitative Research - 3 - Credits

Course Overview

Course Prefix
TEAL

Course Number
7547

Department
School of Teacher Education & Leadership

Course Title
Thinking with Theory in Qualitative Research

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course is an advanced doctoral course examining the use of social theories (e.g., sociocultural theory, postmodernism, critical theories, feminisms, queer theory, critical race theory) in study design, data collection, and analysis.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- EDUC6770 - Qualitative Research Methods

TEAL7548 - Qualitative Research Apprenticeship - 1 - 3 Credits

Course Overview

Course Prefix
TEAL

Course Number
7548

Department
School of Teacher Education & Leadership

Course Title
Qualitative Research Apprenticeship

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides students the opportunity to engage in the practices and procedures associated with conducting qualitative research, including research design, collection, analysis, and/or reporting of findings.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- EDUC6770 - Qualitative Research Methods

TEAL7549 - Autoethnography as Research MethodologyMethodology - 3 - Credits

Course Overview

Course Prefix
TEAL

Course Number
7549

Department
School of Teacher Education & Leadership

Course Title

Autoethnography as Research MethodologyMethodology

Grade Mode
Standard Letter

Repeat Status
NR

Course Description

This doctoral course is an in-depth exploration of autoethnography. Students examine examples of analytical, critical, and evocative autoethnography and practice writing their own autoethnographies over the semester.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Other Enrollment Recommendations

This is an advanced qualitative research course, so students must have taken the introductory qualitative research class (EDUC6770 QUALITATIVE RESEARCH METHODS) prior. All other research courses are beneficial.

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- EDUC6770 - Qualitative Research Methods

Course Learning Objectives

Course Learning Outcomes

1. As a result of taking this course, student will have a strong understanding of the purpose of autoethnography in research, various ways to use it as a holist or partial approach to research methodology, and how to contextualize it within research and methodology literature.
2. Students will gain a strong understanding of different approaches to autoethnography including analytical, critical, and evocative autoethnography, and be able to evaluate the quality of the autoethnographies they read in the future.
3. Students also will gain confidence in crafting their own autoethnographies as part of their research goals.

TEAL7550 - Evaluation of Supervisory Performance - 1 - 4 Credits

Course Overview

Course Prefix
TEAL

Course Number
7550

Department
School of Teacher Education & Leadership

Course Title
Evaluation of Supervisory Performance

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Program for graduate students to become acquainted with and demonstrate competency in supervision.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
4

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
4

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
4

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
4

Lecture Hours Operator:
TO

No Requirements

TEAL7551 - Mathematics Education Research Foundations - 3 - Credits

Course Overview

Course Prefix
TEAL

Course Number
7551

Department
School of Teacher Education & Leadership

Course Title
Mathematics Education Research Foundations

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Critical examination of research impacting mathematics education, including historical, social, political, and economic contexts and foundations of mathematics. Reviews various historical literature and theoretical perspectives, including topics on mathematics teaching, learning, culture, policy, trends, technology, and student outcomes.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Admission to the Education - PhD or the Education - EdD program

No Requirements

TEAL7552 - Mathematics Education Learning Theory - 3 - Credits

Course Overview

Course Prefix
TEAL

Course Number
7552

Department
School of Teacher Education & Leadership

Course Title
Mathematics Education Learning Theory

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Critical examination of the historical development of cognitive theories of mathematical learning, including the influence of selected theorists on mathematical thinking, teaching, and assessment. Explores mathematical learning models, including research literature on numeracy, brain research, learning trajectories, differentiation, and equity.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Admission to the Education - PhD or the Education - EdD program

No Requirements

TEAL7553 - Mathematics Education Curriculum Content and Evaluation - 3 - Credits

Course Overview

Course Prefix
TEAL

Course Number
7553

Department
School of Teacher Education & Leadership

Course Title
Mathematics Education Curriculum Content and Evaluation

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Reviews and evaluates the content of the school mathematics curriculum at the state, national, and international levels, including research on specific mathematics curriculum topics. Emphasizes research findings and recommended practices on the development and evaluation of mathematics curriculum.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Admission to the Education - EdD or the Education - EdD program

No Requirements

TEAL7554 - Mathematics Education Teacher Preparation and Pedagogy - 3 - Credits

Course Overview

Course Prefix
TEAL

Course Number
7554

Department
School of Teacher Education & Leadership

Course Title
Mathematics Education Teacher Preparation and Pedagogy

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Emphasizes the application of theory, research, and pedagogical strategies to the preparation of mathematics teachers and teacher leaders. Applies principles of effective professional development, develops expertise in designing and teaching mathematics methods courses, and creates mathematics experiences for teachers.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Admission to the Education - PhD or the Education - EdD program

No Requirements

TEAL7555 - Mathematics Education Current Issues and Policy - 3 - Credits

Course Overview

Course Prefix
TEAL

Course Number
7555

Department
School of Teacher Education & Leadership

Course Title
Mathematics Education Current Issues and Policy

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Reviews and critiques current issues and policy documents in mathematics education nationally and internationally, including research trends, emerging theories, and political policies influencing mathematics education. Synthesizes cutting-edge research to develop a theoretical framework and original research questions and inquiries.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Admission to the Education - PhD or the Education - EdD program

No Requirements

TEAL7556 - Mathematics Education Research Design and Assessment - 3 - Credits

Course Overview

Course Prefix
TEAL

Course Number
7556

Department
School of Teacher Education & Leadership

Course Title
Mathematics Education Research Design and Assessment

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Examines a variety of research designs applicable to mathematics education, including teaching experiments, classroom research, clinical studies, and mathematical modeling. Evaluates mathematics assessments and instrumentation and considers the role of assessments nationally and internationally. Provides experience in conceptualizing a research project.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Admission to one of the following:

- Education - PhD
- Education - EdD program

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- TEAL7551 - Mathematics Education Research Foundations
- TEAL7555 - Mathematics Education Current Issues and Policy

TEAL7557 - Advanced Research Design in Mathematics Education and Leadership - 3 - Credits

Course Overview

Course Prefix
TEAL

Course Number
7557

Department
School of Teacher Education & Leadership

Course Title
Advanced Research Design in Mathematics Education and Leadership

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course prepares students for writing the dissertation proposal and present and defend their research proposals. Students will participate in groups/class discussions, will write extensively, and prepare/engage in a mock dissertation proposal defense.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Admission to the Education - EdD or the Education - EdD program

No Requirements

TEAL7570 - K-12 Comprehension Research - 3 - Credits

Course Overview

Course Prefix
TEAL

Course Number
7570

Department
School of Teacher Education & Leadership

Dual-Listed Courses
TEAL6570 - K-12 Comprehension Research

Course Title
K-12 Comprehension Research

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course examines research and pedagogical implications for promoting reading comprehension, metacognition, and motivation in classrooms; reviews theory, research, and practice related to teaching reading comprehension, including vocabulary development, strategy instruction, and fostering motivation; includes creating a research proposal.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Course Learning Objectives

Course Learning Outcomes
1. Students will gain and demonstrate knowledge of the historical and theoretical foundations research of reading comprehension and reading engagement.Students will evidence understanding of research-based theories and perspectives on vocabulary, comprehension, and reading motivation.

2. Students will recognize personal, cognitive, social, textual, instructional, and cultural contexts that influence reading comprehension.

3. Students will demonstrate familiarity with research-based instructional frameworks for promoting comprehension, metacognition, and reading motivation.

2. Students will plan a research proposal that addresses instructional activities for promoting comprehension, vocabulary, and/or metacognitive strategies.

4. Students will explore ways to assess reading comprehension and to monitor reading engagement in the research proposal.

TEAL7670 - Education Literature Reviews - 3 - Credits

Course Overview

Course Prefix
TEAL

Course Number
7670

Department
School of Teacher Education & Leadership

Course Title
Education Literature Reviews

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course prepares students to conduct critical analysis and develop literature reviews for educational research.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

TEAL7675 - Discourse Analysis in Education - 3 - Credits

Course Overview

Course Prefix
TEAL

Course Number
7675

Department
School of Teacher Education & Leadership

Dual-Listed Courses
TEAL6675 - Discourse Analysis in Education

Course Title
Discourse Analysis in Education

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course will examine the area of discourse analysis, a methodological approach that examines how language in use—through spoken, written, or multimodal forms—constructs and reflects social identities, power relations, institutional norms, and learning processes within educational settings. Additional coursework is required for 7000 level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Other Enrollment Recommendations

Course Learning Objectives

Course Learning Outcomes

1. Analyze, critique and expand the research literature concerning discourse analysis.

2. Define, discuss and apply theoretical concepts and approaches to the study of interactional discourse in the context of specific communities, cases, and everyday educational experiences.

3. Explore a range of disciplinary perspectives in order to develop an expanded understanding of the range and dimensions of discourse interactions.

4. Examine the implications of the above for shaping your own data collection and analysis and for impacting educational practice and policy.

TEAL7710 - History of Science Education - 3 - Credits

Course Overview

Course Prefix
TEAL

Course Number
7710

Department
School of Teacher Education & Leadership

Course Title
History of Science Education

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course increases students' awareness of the issues and aims of the scientific enterprise and the nature of science. It also develops students' understanding of methods of scientific inquiry and increases their knowledge of scientific instruction.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

TEAL7711 - Contemporary Perspectives on Teaching and Learning K-12 Science Education - 3 - Credits

Course Overview

Course Prefix
TEAL

Course Number
7711

Department
School of Teacher Education & Leadership

Course Title
Contemporary Perspectives on Teaching and Learning K-12 Science Education

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course addresses contemporary views of science teaching and learning, specifically the implementation of the NGSS and the new vision for K-12 science education. Students explore how themes of the course support specific dimensions of science education and learning sciences.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

TEAL7712 - STEM Education: Research Development - 3 - Credits

Course Overview

Course Prefix
TEAL

Course Number
7712

Department
School of Teacher Education & Leadership

Course Title
STEM Education: Research Development

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course explores the issues and practices surrounding integrated STEM education and associated policy decisions. Issues and challenges of building integrated STEM opportunities for teachers and students are discovered through the development of a research proposal.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

TEAL7713 - Nature of Science Research - 3 - Credits

Course Overview

Course Prefix
TEAL

Course Number
7713

Department
School of Teacher Education & Leadership

Course Title
Nature of Science Research

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course explores major stances on the nature of science and engineering through readings, discussion, and interactions with experts. The goal of this course is to provide a conceptual foundation and analytical skills to inform instructional methods of science educators.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

TEAL7714 - Misconceptions in Science Education - 3 - Credits

Course Overview

Course Prefix
TEAL

Course Number
7714

Department
School of Teacher Education & Leadership

Course Title
Misconceptions in Science Education

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course focuses on research regarding the development of scientific and natural concepts among children, adolescents, and adults. Instructional techniques that minimize naïve theories and misconceptions while supporting conceptual change are investigated.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

TEAL7715 - Research Practices for Science Educators - 3 - Credits

Course Overview

Course Prefix
TEAL

Course Number
7715

Department
School of Teacher Education & Leadership

Course Title
Research Practices for Science Educators

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students examine a range of research focused on informing their practice as researchers of science education through theoretical and practical frameworks. Students develop research and practice the academic skills needed to analyze and synthesize data.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

TEAL7800 - Advanced Review of Research in Social Studies - 3 - Credits

Course Overview

Course Prefix
TEAL

Course Number
7800

Department
School of Teacher Education & Leadership

Dual-Listed Courses
TEAL6800 - Advanced Review of Research in Social Studies

Course Title
Advanced Review of Research in Social Studies

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Emphasizes contemporary research and practice related to K-12 social studies programs. Examines curriculum and methods of instruction surrounding topics such as the interrelationships between global education, multicultural education, and civic education. Prerequisite: ELED 4050 or teaching experience in elementary or middle school.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Registration Restrictions
Admission to a TEAL graduate program

No Requirements

TEAL7810 - Research Seminar - 1 - 3 Credits

Course Overview

Course Prefix
TEAL

Course Number
7810

Department
School of Teacher Education & Leadership

Course Title
Research Seminar

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Identification of research problems and critical issues, consideration of critical issues and research methods, and application of data analysis procedures under faculty direction.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

No Requirements

TEAL7820 - Seminar: Special Topics in Teacher Education and Leadership - 1 - 3 Credits

Course Overview

Course Prefix
TEAL

Course Number
7820

Department
School of Teacher Education & Leadership

Course Title
Seminar: Special Topics in Teacher Education and Leadership

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This is an in-depth study of special topics in teacher education and leadership. Seminars examine historical aspects, relevant research, practice implications, and theoretical positions on selected topics.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

No Requirements

TEAL7830 - Queer and Transgender Studies in Education - 3 - Credits

Course Overview

Course Prefix
TEAL

Course Number
7830

Department
School of Teacher Education & Leadership

Course Title
Queer and Transgender Studies in Education

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course explores disruption and critical change issues in PK-16 education through queer and trans theoretical lenses. It addresses an overview of early childhood experiences of LGBTQ+ youth, teachers/teaching, intersectional, postsecondary experiences, and reviews policies/practices that impact LGBTQ+ individuals.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Define and distinguish between concepts and terms related to gender identity, gender expression, sexual orientation, and chromosomal sex.

2. Demonstrate familiarity with federal, state, and local policies related to the experiences of 2SLGBTQ+ students and educators in schools.

3. Identify ways that classrooms and schools can be structured as more inclusive spaces.

4. Articulate connections between policies and lived experiences of 2SLGBTQ+ individuals in schools.

5. Apply queer and trans studies concepts to their own field, practice, and/or research interest.

TEAL7900 - Independent Study - 0.5 - 3 Credits

Course Overview

Course Prefix
TEAL

Course Number
7900

Department
School of Teacher Education & Leadership

Course Title
Independent Study

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Students engage in independent study with faculty mentor.

Credit Hours

Credit Hours Min:
0.5

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
0.5

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
0.5

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
0.5

Lecture Hours Max:
3

Lecture Hours Operator:
TO

Special Approval
Department permission

No Requirements

TEAL7910 - Independent Research - 0.5 - 3 Credits

Course Overview

Course Prefix
TEAL

Course Number
7910

Department
School of Teacher Education & Leadership

Course Title
Independent Research

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Students engage in independent research with faculty mentor.

Credit Hours

Credit Hours Min:
0.5

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
0.5

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
0.5

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
0.5

Lecture Hours Max:
3

Lecture Hours Operator:
TO

Special Approval
Department permission

No Requirements

TEAL7970 - Dissertation Research in Curriculum and Instruction - 1 - 18 Credits

Course Overview

Course Prefix
TEAL

Course Number
7970

Department
School of Teacher Education & Leadership

Course Title
Dissertation Research in Curriculum and Instruction

Grade Mode
Temporary Pass/Fail

Repeat Status
RP

Course Description
This course covers dissertation research for students in the Curriculum and Instruction specialization.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
18

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
18

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
18

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
18

Lecture Hours Operator:
TO

Special Approval
Department permission

No Requirements

TEAL7990 - Continuing Graduate Advisement - 1 - 12 Credits

Course Overview

Course Prefix
TEAL

Course Number
7990

Department
School of Teacher Education & Leadership

Course Title
Continuing Graduate Advisement

Grade Mode
Temporary Pass/Fail

Repeat Status
RP

Course Description
This course is designed for individual students to work on their graduate studies under the advisement of their graduate committee.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
12

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
12

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
12

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
12

Lecture Hours Operator:
TO

Special Approval
Department permission

No Requirements

TEAM1010 - Essential Skills and Safety in Automation Technology - 3 - Credits

Course Overview

Course Prefix
TEAM

Course Number
1010

Department
Technology, Design & Technical Ed

Course Title
Essential Skills and Safety in Automation Technology

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students gain proficiency through applying concepts of fasteners, measurement equipment, tolerances, and hand and power tool operations. The course covers safety and workplace skills as well as school and shop-specific operations, standards, and procedures.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Demonstrate a working knowledge of general safety practices and procedures.
2. Demonstrate a working knowledge of hand, power, and measurement tools.
3. Demonstrate a working knowledge of hardware and fasteners.
4. Apply working knowledge of workplace skills.
5. Review school specific orientation, standards, and procedures.

TEAM1020 - Pneumatics - 2 - Credits

Course Overview

Course Prefix
TEAM

Course Number
1020

Department
Technology, Design & Technical Ed

Course Title
Pneumatics

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
In this course students learn the theory and applications of pneumatic systems used across industries. Competencies include safety, maintenance, operation, installation, identification, principles of pressure and flow, air logic, troubleshooting, analysis of performance, and design of pneumatic systems.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Demonstrate a working knowledge of safety practices and procedures of pneumatic systems.
2. Operate, install, and maintain pneumatics systems, tools, and devices.
3. Read, utilize, and design pneumatic systems schematics.
4. Analyze applications and design of pneumatic systems.

TEAM1030 - Hydraulics - 2 - Credits

Course Overview

Course Prefix
TEAM

Course Number
1030

Department
Technology, Design & Technical Ed

Course Title
Hydraulics

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course prepares students with the fundamentals needed to work with hydraulic systems. Competencies include safety, maintenance, operation, installation, component identification, displacement principles, troubleshooting, analysis of performance and efficiency, and design of hydraulic systems.

Credit Hours

Credit Hours Min:
2

Contact Hours

Contact Hours Min:
2

Billing Hours

Billing Hours Min:
2

Lecture Hours

Lecture Hours Min:
2

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Demonstrate a working knowledge of safety practices and procedures of hydraulic systems.
2. Operate, install, maintain hydraulic systems, tools, and devices.
3. Read, utilize, and design hydraulic system schematics.
4. Analyze applications and design of hydraulic systems.
5. Apply systems diagnostics and troubleshooting of hydraulic circuits.

TEAM1040 - Industrial Mechanics - 3 - Credits

Course Overview

Course Prefix
TEAM

Course Number
1040

Department
Technology, Design & Technical Ed

Course Title
Industrial Mechanics

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course is designed to introduce students to the world of mechanical drive systems and their characteristics. Students demonstrate competency in the following: couplers, component identification, system-related calculations, alignment, effects of wear and vibration, component failure detection, and prevention.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Demonstrate a working knowledge of safety practices and procedures.
2. Maintain, calibrate, and repair power transmission systems.
3. Maintain, calibrate, analyze, and repair mechanical drives (v-belt, chain, gear drive).
4. Use and apply vibration and alignment measurement instrumentation and techniques.
5. Troubleshoot mechanical drive components and systems.

TEAM1050 - Electrical Systems - 2 - Credits

Course Overview

Course Prefix
TEAM

Course Number
1050

Department
Technology, Design & Technical Ed

Course Title
Electrical Systems

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course teaches students to troubleshoot electrical circuits they encounter every day. Students gain relevant working knowledge in both AC and DC electrical systems. Competencies include basic electrical circuit design, analysis, instrumentation, schematic and component identification, physics, and applicable math.

Credit Hours

Credit Hours Min:
2

Contact Hours

Contact Hours Min:
2

Billing Hours

Billing Hours Min:
2

Lecture Hours

Lecture Hours Min:
2

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Demonstrate a working knowledge of safety practices and procedures of basic electrical systems.
2. Operate, install, maintain electrical systems, tools, and devices.
3. Read, utilize, and design electrical systems schematics.
4. Apply principles and applications of electrical AC and DC systems.
5. Apply systems diagnostics and troubleshooting of electrical circuits.

TEAM1060 - Motor Controls - 3 - Credits

Course Overview

Course Prefix
TEAM

Course Number
1060

Department
Technology, Design & Technical Ed

Course Title
Motor Controls

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course prepares students with knowledge and understanding of real-world motor control operations. Students are able to proficiently set up and design motor control circuits utilizing schematics. Students identify components and utilize instrumentation to troubleshoot and maintain systems.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Demonstrate a working knowledge of safety practices and procedures.
2. Operate, install, maintain, and design motor control circuits.
3. Demonstrate a working knowledge of commonly used components, devices, and tools.
4. Demonstrate a working knowledge of various control systems.
5. Apply systems diagnostics and troubleshooting of motor control circuits.

TEAM1070 - Programmable Logic Controllers - 4 - Credits

Course Overview

Course Prefix
TEAM

Course Number
1070

Department
Technology, Design & Technical Ed

Course Title
Programmable Logic Controllers

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course teaches students to interface with programmable logic controllers (PLCs). In this course, students develop a working knowledge and skill set in the following competencies: ladder logic, programming standards, hardware selection, various inputs/outputs, communication, troubleshooting, setup, and installation.

Credit Hours

Credit Hours
Min:
4

Contact Hours

Contact Hours
Min:
4

Billing Hours

Billing Hours
Min:
4

Lecture Hours

Lecture Hours
Min:
4

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Demonstrate a working knowledge of safety practices and procedures.
2. Operate, install, maintain, and program programmable logic controller systems.
3. Demonstrate working knowledge of ladder logic programming.
4. Apply motor control logic within a programmable logic controller system.
5. Apply timers and event sequencing within a programmable logic controller system.
6. Configure inputs and outputs for various applications.
7. Apply systems diagnostics and troubleshooting of programmable logic control circuit.

TEAM1080 - Applied System Diagnostics - 2 - Credits

Course Overview

Course Prefix
TEAM

Course Number
1080

Department
Technology, Design & Technical Ed

Course Title
Applied System Diagnostics

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers the essentials of system diagnostics. This course is designed to simulate real-world troubleshooting scenarios. Students are expected to properly diagnose, repair, and document their work on a variety of systems and challenges.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Demonstrate a working knowledge of safety practices and procedures.
2. Troubleshoot an entire system using pre-defined schematics
3. Complete standard technician documentation.
4. Use troubleshooting instrumentation within multiple systems.

TEAM1100 - Electric Motors and Drives - 1 - Credits

Course Overview

Course Prefix
TEAM

Course Number
1100

Department
Technology, Design & Technical Ed

Course Title
Electric Motors and Drives

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Teaches students to identify motor types, understand AC and DC motor operation, test windings with a megohmmeter, and install and program motor drives for speed control. Students also learn three-phase AC generation and reinforce concepts through hands-on lab work.

Credit Hours

Credit Hours Min:
1

Contact Hours

Contact Hours Min:
1

Billing Hours

Billing Hours Min:
1

Lecture Hours

Lecture Hours Min:
1

Course Learning Objectives

Course Learning Outcomes

- Recognize various types of electric motors.
- Use the nameplate information on a motor for troubleshooting.
- Wire single and three phase motors.
- Identify the operating characteristics, nameplate information, and troubleshooting procedures for singlephase motors, generators, AC/DC motors, control transformers, distribution systems, and Delta and Wye transformer configurations.
- Identify the operating characteristics, nameplate information, and troubleshooting procedures for threephase motors – Delta or Wye connected 9 or 12 lead motors.
- Install and troubleshoot electric motor drives.
- Perform a complete motor control panel build and wiring exercise from a schematic.
- Use schematic drawings and test equipment to isolate problems in basic electric motor circuits.
- Follow a step-by-step troubleshooting process to solve problems within an integrated system.

TEAM1110 - Introduction to Industrial Robotics - 2 - Credits

Course Overview

Course Prefix
TEAM

Course Number
1110

Department
Technology, Design & Technical Ed

Course Title
Introduction to Industrial Robotics

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces industrial robot architecture, programming, arithmetic, and simulation. Students complete project-based labs using industry-recognized simulation software and practice simple robot programming and execution. Hands-on experience with real industrial robots reinforces skills through practical laboratory activities.

Credit Hours

Credit Hours Min:
2

Contact Hours

Contact Hours Min:
2

Billing Hours

Billing Hours Min:
2

Lecture Hours

Lecture Hours Min:
2

Course Learning Objectives

Course Learning Outcomes
- Determine the working specifications and architecture of a robot arm.
- Calculate necessary arithmetic, geometry, and trigonometry relative to robot arms.
- Program a robot arm through industry specific simulation software.
- Test and execute robot arm programs in industry recognized simulators.
- Test and execute a robot arm program with industrial robots.
- Identify what types of robots are available for Industrial and servicing applications.

TEAM1300 - Building Control Panels - 3 - Credits

Course Overview

Course Prefix
TEAM

Course Number
1300

Department
Technology, Design & Technical Ed

Course Title
Building Control Panels

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
In this course, students learn about control panel assembly, standards, skills, and practice. Industrial Control Panel standards are utilized, and special panel building tools are taught.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Course Learning Objectives

Course Learning Outcomes
- Demonstrate knowledge of common control panel safety practices and procedures.
- Create a plan for a panel build project including electrical conduit capacity calculations, enclosure size, wire number and size, component placement.
- Demonstrate ability to correctly read and mark wiring prints.
- Demonstrate proper component layout and organization.
- Modify panel enclosures.
- Demonstrate proper wiring standards in regards to size, type, and color.
- Layout, mount, and wire a complete Control Panel while implementing UL508A standards.

TEAM1500 - Instrumentation Process Control - 3 - Credits

Course Overview

Course Prefix
TEAM

Course Number
1500

Department
Technology, Design & Technical Ed

Course Title
Instrumentation Process Control

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces instrumentation and process control concepts using hands-on activities. Students learn terminology and techniques used in refineries, water treatment, HVAC, refrigeration, and other systems involving temperature, pressure, flow, level, analysis, communication, and automatic control.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Course Learning Objectives

Course Learning Outcomes

- Demonstrate knowledge of safety practices and procedures.
- Demonstrate the ability to set up multiple process control sensors.
- Demonstrate ability to manually and automatically adjust valves.
- Wire and actuate a valve positioner and solenoid valve.
- Setup common components such as control valves, regulators, dampers, actuators, positioners, solenoid valves, and variable frequency drives within a standard system.
- Calibrate and install temperature, pressure, level, and flow instruments.
- Use troubleshooting instrumentation competently within multiple systems.

TEAM2000 - Programmable Logic Controllers II - 3 - Credits

Course Overview

Course Prefix
TEAM

Course Number
2000

Department
Technology, Design & Technical Ed

Course Title
Programmable Logic Controllers II

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course teaches advanced PLC programming, including process control, data acquisition, computer-controlled systems, variable speed drives, and networking. Students use additional software not covered in the introductory course and complete hands-on labs tailored to industry and employer needs.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Course Learning Objectives

Course Learning Outcomes

- Identify and describe the basics of HMI programming.
- Identify and apply Programmable Automation Controller principles and practices.
- Apply advanced topics of Programmable Logic Controllers in a lab setting.
- Explain advanced hardware and software principles as they apply to Programmable Logic Controllers.
- Program advanced Programmable Logic Controllers on various software packages to meet employer needs

TEAU1060 - Safety and Introduction to Automotive Service - 4 - Credits

Course Overview

Course Prefix
TEAU

Course Number
1060

Department
Technology, Design & Technical Ed

Course Title
Safety and Introduction to Automotive Service

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides proper knowledge of safety practices to help establish safe working habits that would reflect industry standards. It also introduces students to careers in the automotive field, Automotive Service Excellence (ASE) certifications, and service of automotive systems.

Credit Hours

Credit Hours Min:
4

Contact Hours

Contact Hours Min:
4

Billing Hours

Billing Hours Min:
4

Lecture Hours

Lecture Hours Min:
4

Course Learning Objectives

Course Learning Outcomes

1. Maintain personal safety and proper lifting procedures.
2. Identify occupational rules and regulations.
3. Identify and use personal protective equipment.
4. Identify and use hand and power tools.
5. Identify and properly dispose of hazardous waste.

TEAU1100 - Engine Repair - 3 - Credits

Course Overview

Course Prefix
TEAU

Course Number
1100

Department
Technology, Design & Technical Ed

Course Title
Engine Repair

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course teaches theory and hands-on instruction in automotive engines while following the program standards set forth by the Automotive Service Excellence Education Foundation at the master level.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Course Learning Objectives

Course Learning Outcomes

1. Maintain vehicle safety through safe engine maintenance and repairs.
2. Identify engine components and configurations.
3. Identify and maintain the automotive engine and its systems.
4. Identify and maintain the cooling system.
5. Identify and maintain the lubrication system.

TEAU1200 - Automatic Transmissions - 4 - Credits

Course Overview

Course Prefix
TEAU

Course Number
1200

Department
Technology, Design & Technical Ed

Course Title
Automatic Transmissions

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course teaches theory and hands-on instruction in automatic transmissions and transaxles while following the program standards set forth by Automotive Service Excellence Education Foundation at the master level.

Credit Hours

Credit Hours
Min:
4

Contact Hours

Contact Hours
Min:
4

Billing Hours

Billing Hours
Min:
4

Lecture Hours

Lecture Hours
Min:
4

Course Learning Objectives

Course Learning Outcomes

1. Maintain vehicle safety through safe automatic transmission maintenance and repairs.
2. Identify automatic transmission components and configurations.
3. Identify and maintain the automatic transmission and its systems.
4. Identify and repair automatic transmissions, including overhaul.
5. Identify and repair the electronic components of automatic transmissions.

TEAU1300 - Manual Drivetrain and Axles - 4 - Credits

Course Overview

Course Prefix
TEAU

Course Number
1300

Department
Technology, Design & Technical Ed

Course Title
Manual Drivetrain and Axles

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course teaches theory and hands-on instruction on automotive manual drivetrains and axles, following the program standards set forth by the Automotive Service Excellence Education Foundation at the master's level.

Credit Hours

Credit Hours
Min:
4

Contact Hours

Contact Hours
Min:
4

Billing Hours

Billing Hours
Min:
4

Lecture Hours

Lecture Hours
Min:
4

Course Learning Objectives

Course Learning Outcomes

1. Maintain vehicle safety through safe manual drivetrain and axle maintenance and repairs.
2. Identify manual drive train and axle components and configurations.
3. Identify and maintain the manual drivetrain, axles, clutch systems, and manual transmissions.
4. Identify and maintain the drive shaft, half shaft, and CV joints.
5. Identify and maintain ring and pinion gears, differentials, and drive axles.
6. Identify and maintain four-wheel and all-wheel drive systems.

TEAU1400 - Suspension and Steering - 4 - Credits

Course Overview

Course Prefix
TEAU

Course Number
1400

Department
Technology, Design & Technical Ed

Course Title
Suspension and Steering

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course teaches theory and hands-on instruction on automotive suspension and steering systems while following the program standards set forth by the Automotive Service Excellence Education Foundation at the master level.

Credit Hours

Credit Hours
Min:
4

Contact Hours

Contact Hours
Min:
4

Billing Hours

Billing Hours
Min:
4

Lecture Hours

Lecture Hours
Min:
4

Course Learning Objectives

Course Learning Outcomes

1. Maintain vehicle safety through safe suspension and steering maintenance and repairs.
2. Identify and repair automotive steering and suspension systems.
3. Identify the issues with and perform an automotive wheel alignment
4. Identify and repair automotive wheels and tires.

TEAU1500 - Brakes - 4 - Credits

Course Overview

Course Prefix
TEAU

Course Number
1500

Department
Technology, Design & Technical Ed

Course Title
Brakes

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides theory and hands-on instruction on automotive braking systems while following the industry-accepted standards.

Credit Hours

Credit Hours
Min:
4

Contact Hours

Contact Hours
Min:
4

Billing Hours

Billing Hours
Min:
4

Lecture Hours

Lecture Hours
Min:
4

Course Learning Objectives

Course Learning Outcomes

Course Learning Outcomes:

1. Maintain vehicle safety through safe brake maintenance and repairs.

2. Identify and repair hydraulic, disc, and drum brake systems.

3. Identify and repair parking and anti-lock braking systems.

4. Identify and repair traction and stability control systems.

5. Repair brake assist systems.

TEAU1600 - Electrical I - 4 - Credits

Course Overview

Course Prefix
TEAU

Course Number
1600

Department
Technology, Design & Technical Ed

Course Title
Electrical I

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides theory and hands-on instruction on automotive electrical systems while following the program standards set forth by the Automotive Service Excellence Education Foundation at the master level.

Credit Hours

Credit Hours
Min:
4

Contact Hours

Contact Hours
Min:
4

Billing Hours

Billing Hours
Min:
4

Lecture Hours

Lecture Hours
Min:
4

Course Learning Objectives

Course Learning Outcomes

1. Maintain vehicle safety through safe electrical maintenance and repairs.
2. Identify and repair electrical/electronic series, parallel, and series-parallel circuits using principles of electricity (Ohm's Law).
3. Identify and repair the causes and effects of shorts, grounds, opens, and resistance problems in electrical/electronic circuits.
4. Identify and demonstrate proper use of a digital multimeter (DMM) when measuring source voltage, voltage drop (including grounds), current flow and resistance.
5. Identify and repair automotive electrical/electronic systems including battery systems, charging systems starting systems, and lighting systems.

TEAU1700 - Heating, Ventilation, and Air Conditioning - 3 - Credits

Course Overview

Course Prefix
TEAU

Course Number
1700

Department
Technology, Design & Technical Ed

Course Title
Heating, Ventilation, and Air Conditioning

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course teaches theory and hands-on instruction on automotive HVAC while following the program standards set forth by the Automotive Service Excellence Education Foundation at the master level.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Course Learning Objectives

Course Learning Outcomes

1. Maintain vehicle safety through safe automotive HVAC and repairs.
2. Identify and repair the refrigeration systems and components.
3. Identify and repair the heating, ventilation, and engine cooling system.
4. Identify and repair operating systems and controls relating to automotive HVAC.

TEAU1800 - Engine Performance I - 4 - Credits

Course Overview

Course Prefix
TEAU

Course Number
1800

Department
Technology, Design & Technical Ed

Course Title
Engine Performance I

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides theory and hands-on instruction in automotive engine performance while following the program standards set forth by the Automotive Service Excellence Education Foundation at the master level.

Credit Hours

Credit Hours
Min:
4

Contact Hours

Contact Hours
Min:
4

Billing Hours

Billing Hours
Min:
4

Lecture Hours

Lecture Hours
Min:
4

Course Learning Objectives

Course Learning Outcomes

1. Maintain vehicle safety through safe engine performance maintenance and repairs.
2. Identify and interpret engine performance concerns, determine needed action.
3. Inspect and repair abnormal engine noises or vibration concerns, determine needed action.
4. Inspect and repair automotive ignition systems, determine needed action.
5. Inspect and repair automotive fuel systems, determine needed action.
6. Inspect and repair automotive air induction systems as it relates to engine performance.
7. Inspect and repair automotive exhaust systems as it relates to engine performance.

TEAU2600 - Electrical II - 4 - Credits

Course Overview

Course Prefix
TEAU

Course Number
2600

Department
Technology, Design & Technical Ed

Course Title
Electrical II

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course delves deeper into advanced topics and tools such as electronic control systems and digital communication networks. Students master complex diagnostic procedures and emerge ready to tackle the intricate electrical challenges posed by modern vehicles.

Credit Hours

Credit Hours
Min:
4

Contact Hours

Contact Hours
Min:
4

Billing Hours

Billing Hours
Min:
4

Lecture Hours

Lecture Hours
Min:
4

Other Enrollment Recommendations

TEAU1600 ELECTRICAL I

Course Learning Objectives

Course Learning Outcomes

1. Maintain vehicle safety through safe electrical maintenance and repairs.
2. Retrieve and record DTCs, OBD monitor status, and freeze frame data, clear codes and data when directed.
3. Diagnose the cause(s) of excessive key-off battery drain (parasitic draw), determine needed action.
4. Test and measure circuit using an oscilloscope and/or graphing multimeter (GMM), interpret results, determine needed action.
5. Identify and repair instrument cluster and driver information systems.
6. Identify and repair body electrical systems.
7. Test and repair electrical-related systems using electronic testing industry-specific equipment.

TEAU2800 - Engine Performance II - 4 - Credits

Course Overview

Course Prefix
TEAU

Course Number
2800

Department
Technology, Design & Technical Ed

Course Title
Engine Performance II

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides theory and hands-on instruction in automotive engine performance while following standards set forth by the Automotive Service Excellence Education Foundation at the master level.

Credit Hours

Credit Hours
Min:
4

Contact Hours

Contact Hours
Min:
4

Billing Hours

Billing Hours
Min:
4

Lecture Hours

Lecture Hours
Min:
4

Other Enrollment Recommendations
TEAU1800 ENGINE PERFORMANCE I

Course Learning Objectives

Course Learning Outcomes
1. Maintain vehicle safety through safe engine performance maintenance and repairs.
2. Identify and repair computerized controls related to engine performance.
3. Identify and repair emission control systems related to engine performance.
4. Test and repair engine performance systems using industry specific electronic testing equipment.

TEAV1000 - Technical Mathematics - 3 - Credits

Course Overview

Course Prefix
TEAV

Course Number
1000

Department
Technology, Design & Technical Ed

Course Title
Technical Mathematics

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers various specialized mathematical topics necessary for careers in trades and industries. These topics include, but are not limited to, systems of units, units of measure, scientific vs. metric prefix notation, functions, complex numbers, and vectors.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Course Learning Objectives

Course Learning Outcomes
1. Use systems of units and units of measure, scientific vs. metric prefix notation, algebraic and trigonometric functions, complex numbers, and vectors.
2. Identify relevant steps for calculating multi-step problems to find solutions.
3. Utilize trigonometric functions in a contextualized setting relevant to the field of study.
4. Apply mathematic principles in various contexts and settings.

TEAV1010 - Circuit Analysis - 3 - Credits

Course Overview

Course Prefix
TEAV

Course Number
1010

Department
Technology, Design & Technical Ed

Course Title
Circuit Analysis

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course consists of studying and applying DC and AC concepts, semiconductors, digital electronics, and microcomputers, including Ohm's Law, Kirchhoff's Voltage and Current Laws, resistance, capacitance, inductance, conductance, reactance, susceptance, impedance, admittance, and RC and RL time constants.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Course Learning Objectives

Course Learning Outcomes
1. Identify passive and active components and understand their uses in electrical circuitry.
2. Identify and read electrical schematics and their symbols.
3. Correctly use a multimeter to read voltage, current, resistance, and capacitance.
4. Differentiate types of circuits, including but not limited to resistive, capacitive, inductive, RLC, RC, and RL.

TEAV1020 - Circuit Analysis Lab - 2 - Credits

Course Overview

Course Prefix
TEAV

Course Number
1020

Department
Technology, Design & Technical Ed

Course Title
Circuit Analysis Lab

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course involves hands-on application of circuit analysis and application of theory. Students demonstrate an understanding of circuit principles and demonstrate technical proficiency in measuring and troubleshooting circuits.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Course Learning Objectives

Course Learning Outcomes
1. Use schematic diagrams and symbols to prototype AC and circuits.
2. Analyze voltage divider, bridge, and maximum power transfer circuits.
3. Perform series, parallel, and series-parallel combination circuits calculations and measurements, and analyze circuits for faulty components.

TEAV1130 - Flight Principles - 3 - Credits

Course Overview

Course Prefix
TEAV

Course Number
1130

Department
Technology, Design & Technical Ed

Course Title
Flight Principles

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides an introduction to the fundamentals of flight theory and the physics that govern flight. It covers the operation of aircraft control systems essential to flight and teaches the techniques for ground handling and servicing of aircraft.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Course Learning Objectives

Course Learning Outcomes

1. Explain Fundamental Flight Theory and Physics, including the aerodynamics and physics that govern how aircraft fly and operate.
2. Identify Aircraft Control System Operations, including the essential systems crucial for flight, and explain how each component functions and interacts within the system.
3. Demonstrate Ground Handling and Servicing Techniques by performing practical skills related to safe and efficient operations.

TEAV1140 - Aircraft Components and Principles - 2 - Credits

Course Overview

Course Prefix
TEAV

Course Number
1140

Department
Technology, Design & Technical Ed

Course Title
Aircraft Components and Principles

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course equips students with skills needed for aircraft maintenance, emphasizing the application of FAA guidelines, manufacturer specifications, and airworthiness directives. Students conduct thorough inspections, perform maintenance procedures such as cleaning and testing, and learn to select appropriate materials.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Course Learning Objectives

Course Learning Outcomes

1. Read, comprehend, and apply information from FAA and manufacturer's aircraft maintenance specifications, manuals, publications, Federal Aviation Regulations, Airworthiness Directives, and Advisory material.
2. Perform inspections, identify and treat aircraft corrosion, check welds, and execute precision measurements to ensure airworthiness.
3. Utilize appropriate methods for aircraft cleaning, basic heat testing, and nondestructive testing to maintain and enhance aircraft safety and functionality.
4. Utilize appropriate methods for aircraft cleaning, basic heat testing, and nondestructive testing to maintain and enhance aircraft safety and functionality.
5. Discuss human factors in aviation maintenance to improve safety, efficiency, and team dynamics, focusing on error management, fatigue mitigation, and effective communication strategies.

TEAV1150 - Components and Principles II - 3 - Credits

Course Overview

Course Prefix
TEAV

Course Number
1150

Department
Aviation Technology

Course Title
Components and Principles II

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides a comprehensive introduction of aircraft maintenance concepts and skills, focusing on an understanding of maintenance procedures, weight and balance, fluid lines and fittings, ground operations, servicing, and inspection techniques.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- TEAV1140 - Aircraft Components and Principles

Course Learning Objectives

Course Learning Outcomes

1. The student will be able to recall, identify and demonstrate the procedures regarding aircraft weight and balance.
2. The student will be able to recall materials used, functionality of, and demonstrate the fabrication of aircraft fluid lines and fittings.
3. The student will be able to recall, communicate, and execute procedures involved in aircraft ground operations and servicing.
4. The student will be able to recall, explain, and perform aircraft inspection concepts and techniques.

TEAV1170 - Aircraft Structures - 3 - Credits

Course Overview

Course Prefix
TEAV

Course Number
1170

Department
Technology, Design & Technical Ed

Course Title
Aircraft Structures

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers aircraft structures, including fuselage, wings, and landing gear. Students learn to use and install aircraft hardware, rivets, and fasteners, as well as techniques for wood structures, fabric covering, and repairing metal structures.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Course Learning Objectives

Course Learning Outcomes

1. Use and install aircraft hardware, including rivets and special fasteners, focusing on aluminum fabrication processes through hands-on lab experiences.
2. Perform structural analytical calculations to determine repair strength requirements, allowable shear and bearing stress, and material forming limits, ensuring integrity and compliance with safety standards.
3. Machine tools are used to accurately form aircraft parts, enhancing technical capabilities in component manufacturing and assembly.

TEAV1240 - Aircraft Maintenance - 3 - Credits

Course Overview

Course Prefix
TEAV

Course Number
1240

Department
Technology, Design & Technical Ed

Course Title
Aircraft Maintenance

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
In this course, students gain hands-on experience with aircraft assemblies and develop skills in maintenance, repair, and inspection according to FAA standards. Key activities include rigging control surfaces, fabricating cables, testing cable tension, and working on landing gear and airframe components.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Course Learning Objectives

Course Learning Outcomes

1. Maintain, repair, and alter aircraft, focusing on adherence to FAA industry standards, including structural repairs, aircraft finishes, and troubleshooting structural failure modes.
2. Inspect, rig, and assemble aircraft systems, including landing gear alignment and rigging, wing removal, and installing major airframe components.
3. Fabricate control cables, balance control surfaces, rig flap systems, and other control surfaces to ensure optimal aircraft performance.
4. Explain the fundamental principles of helicopter flight and rigging, emphasizing aircraft weight and balance and helicopter-specific maintenance practices.

TEAV2100 - Aircraft Reciprocating Powerplants and Accessories - 3 - Credits

Course Overview

Course Prefix
TEAV

Course Number
2100

Department
Technology, Design & Technical Ed

Course Title
Aircraft Reciprocating Powerplants and Accessories

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
The theory of operation, maintenance, repair, and overhaul of reciprocating engines, propellers, exhaust systems, ignition systems, and fuel systems, with laboratory applications of the principles and components studied.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Course Learning Objectives

Course Learning Outcomes

1. Discuss the operational principles of reciprocating engines, propellers, exhaust systems, ignition systems, and fuel systems.
2. Maintain, repair, and overhaul aircraft powerplant components to ensure optimal performance and safety.
3. Apply theoretical knowledge to practical situations through laboratory applications, simulating real-world troubleshooting and repair scenarios.

TEAV2110 - Aircraft Reciprocating Powerplants and Accessories Lab - 3 - Credits

Course Overview

Course Prefix
TEAV

Course Number
2110

Department
Technology, Design & Technical Ed

Course Title
Aircraft Reciprocating Powerplants and Accessories Lab

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides students with laboratory experiences related to the aircraft reciprocating powerplants and accessories course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Course Learning Objectives

Course Learning Outcomes
1. Maintain, repair, and overhaul reciprocating engines, propellers, exhaust systems, ignition systems, and fuel systems.
2. Perform practical application with aircraft components in a lab setting, simulating real-world challenges.
3. Diagnose, disassemble, repair, and reassemble various powerplant system components effectively.

TEAV2140 - Aircraft Turbine Powerplants Maintenance Operations - 3 - Credits

Course Overview

Course Prefix
TEAV

Course Number
2140

Department
Technology, Design & Technical Ed

Course Title
Aircraft Turbine Powerplants Maintenance Operations

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides an in-depth exploration of turbine power plants, focusing on the operation of turbine engines and their components. Students learn about hot section inspections, servicing techniques, and the maintenance of propellers and engine exhaust systems.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Course Learning Objectives

Course Learning Outcomes
1. Explain the theory and practical operation of turbine engines and their components.
2. Conduct hot section inspections and service turbine powerplants, including detailed procedures and safety precautions.
3. Maintain and operate propellers and engine exhaust systems to ensure optimal performance and compliance with safety standards.
4. Identify components and explain the function of engine fire protection systems, emphasizing their critical role in aircraft safety.
5. Conducting 100-hour inspections and routine maintenance of aircraft engines focusing on adherence to regulatory standards and documentation procedures.

TEAV2150 - Aircraft Turbine Powerplant Maintenance Operations Lab - 3 - Credits

Course Overview

Course Prefix
TEAV

Course Number
2150

Department
Technology, Design & Technical Ed

Course Title
Aircraft Turbine Powerplant Maintenance Operations Lab

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Application of theory for turbine powerplants, including turbine engine and components operation, hot section inspection, servicing, propellers, and fire protection systems. Aircraft engine 100-hour inspections and maintenance, with laboratory applications of principles and components in aircraft turbine powerplant maintenance operations.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Course Learning Objectives

Course Learning Outcomes

1. Operate and maintain turbine engine components during practical lab exercises.
2. Perform detailed inspections and servicing of turbine engine hot sections, identify issues, and apply corrective actions.
3. Maintain and repair propellers and engine exhaust systems, emphasizing safety and efficiency.
4. Inspect, maintain, and troubleshoot engine fire protection systems, ensuring functionality and compliance with safety standards.
5. Practice conducting thorough 100-hour inspections and routine maintenance of aircraft engines using tools and techniques critical for aviation safety.

TEAV2170 - Aircraft Systems - 3 - Credits

Course Overview

Course Prefix
TEAV

Course Number
2170

Department
Technology, Design & Technical Ed

Course Title
Aircraft Systems

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers the theory and operation of aerospace environmental systems, communication, navigation and guidance systems, fuel and propellant systems, fire detection, and warning.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Course Learning Objectives

Course Learning Outcomes

1. Discuss environmental control, oxygen, fuel, and de-icing systems essential for providing a safe and comfortable environment in aircraft.
2. Operate, inspect, and maintain key systems, including oxygen and pressurization systems, flight instruments, and fuel systems, to ensure aircraft readiness and safety.
3. Diagnose and troubleshoot problems in various aircraft systems during malfunctions, enhancing reliability and performance during flights.
4. Remove, bench test, reinstall, and repair system components to develop practical skills that are adaptable to different aircraft types.

TEAV2180 - Aircraft Hydraulic and Pneumatic Systems - 3 - Credits

Course Overview

Course Prefix
TEAV

Course Number
2180

Department
Technology, Design & Technical Ed

Course Title
Aircraft Hydraulic and Pneumatic Systems

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers aircraft hydraulic and pneumatic systems, focusing on landing gear and brakes. Students gain hands-on experience in a lab, learning to operate, design, and troubleshoot these systems, preparing them for careers in aviation and aerospace.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Course Learning Objectives

Course Learning Outcomes

1. Explain the theory and operational principles behind aircraft hydraulic and pneumatic systems.
2. Operate basic systems effectively and basic hydraulic and pneumatic setups for aircraft.
3. Diagnose and troubleshoot malfunctions within hydraulic and pneumatic systems to maintain functionality and safety.
4. Maintain and service aircraft hydraulic and pneumatic components, ensuring these components meet industry standards.

TEAV2200 - Composite Manufacturing and Repair - 3 - Credits

Course Overview

Course Prefix
TEAV

Course Number
2200

Department
Technology, Design & Technical Ed

Course Title
Composite Manufacturing and Repair

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
In this course, students learn composite manufacturing processes, composite materials survey, tooling design and fabrication, autoclave processes, vacuum bag techniques, filament winding processes, equipment requirements, materials cutting and storage, and composite materials testing.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Course Learning Objectives

Course Learning Outcomes

1. Prepare composite surfaces for painting and conduct thorough inspections, including tap tests, to assess structural integrity.
2. Perform various composite repair methods and techniques, including the use of appropriate fasteners and practices for structural repairs.
3. Accurately measure and mix materials associated with composite construction to ensure high-quality fabrications.
4. Inspect composite, plastic, and glass-laminated structures to identify defects and ensure compliance with industry standards.

TEAV2420 - FAA Regulations, Records, and Certification - 2 - Credits

Course Overview

Course Prefix
TEAV

Course Number
2420

Department
Technology, Design & Technical Ed

Course Title
FAA Regulations, Records, and Certification

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students learn the maintenance forms, records, and regulations for releasing aircraft to airworthy status. Certification of maintenance technicians is also included.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Course Learning Objectives

Course Learning Outcomes

1. Obtain the necessary knowledge, risk management, and skill elements as required by the FAA's Airmen Certification Standards (ACS) Section 1-General, subsection i - Regulations, Maintenance Forms, Records, and Publications.
2. Effectively and efficiently work in a team environment.

TEAV2430 - Aircraft Electrical Systems and Components - 2 - Credits

Course Overview

Course Prefix
TEAV

Course Number
2430

Department
Technology, Design & Technical Ed

Course Title
Aircraft Electrical Systems and Components

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Aircraft electrical power generating systems. Theory of generation, alternators, regulation, and control systems with laboratory application of principles and systems studied.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Course Learning Objectives

Course Learning Outcomes

1. Obtain the necessary knowledge, risk management, and skill elements as required by the FAA's Airmen Certification Standards (ACS) Section 1-General, subsection i - Regulations, Maintenance Forms, Records, and Publications.
2. Demonstrate record keeping and necessary forms for FAA standards.
3. Assess the airworthiness status of aircraft and maintenance schedules.
4. Prepare for certification of maintenance technician status.

TEAV2440 - Aircraft Electrical Systems and Components Lab - 2 - Credits

Course Overview

Course Prefix
TEAV

Course Number
2440

Department
Technology, Design & Technical Ed

Course Title
Aircraft Electrical Systems and Components Lab

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers aircraft electrical power generating systems. Theory of generation, alternators, regulation, and control systems with laboratory application of principles and systems are studied.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Course Learning Objectives

Course Learning Outcomes

1. Obtain the necessary knowledge, risk management, and skill elements as required by the FAA's Airmen Certification Standards (ACS) section 1-A Fundamentals of Electricity and Electronics, 2- K Aircraft electrical systems, and 3-F Engine electrical systems.
2. Troubleshoot and diagnose Aircraft electrical faults and circuits.
3. Apply theory to the principles of aircraft electrical competencies.

TEBP1000 - Basic Financial Principles - 3 - Credits

Course Overview

Course Prefix
TEBP

Course Number
1000

Department
Technology, Design & Technical Ed

Course Title
Basic Financial Principles

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces math concepts used in a variety of business contexts. Students apply these principles to general purpose finance and accounting.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Apply math principles to perform business calculations.
2. Create and evaluate financial documents.
3. Complete each stage in the accounting cycle.

TEBP1005 - Business Mathematics - 3 - Credits

Course Overview

Course Prefix
TEBP

Course Number
1005

Department
Technology, Design & Technical Ed

Course Title
Business Mathematics

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course examines common business practices and their associated math procedures. Topics include: discounts, markups/markdowns, payroll, promissory notes, time value of money, consumer and business credit, interpretation of financial statements, inventory, depreciation, and an introduction to business statistics.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Demonstrate a basic understanding of present and future value of money, simple algebraic equations, various mathematical calculations (discounts, financial ratios, payroll calculation, etc.), and applied problem solving for personal financial/ decision making.
2. Interpret more accurately visual-/numerical-/oral-based information and demonstrate critical thinking.

TEBP1100 - Digital Literacy - 2 - Credits

Course Overview

Course Prefix
TEBP

Course Number
1100

Department
Technology, Design & Technical Ed

Course Title
Digital Literacy

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course explores the latest 21st-century technology. Students practice appropriately and effectively using tools for productivity, collaboration, and communications; finding reliable information; creating content; communicating safely; and identifying credibility and bias in modern digital environments.

Credit Hours

Credit Hours Min:
2

Contact Hours

Contact Hours Min:
2

Billing Hours

Billing Hours Min:
2

Lecture Hours

Lecture Hours Min:
2

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Demonstrate digital citizenship and appropriate interpersonal digital information.
2. Describe concepts relating to common digital environments, software, hardware, and operating systems.
3. Describe digital security threats and explain how to protect personal devices and digital content.
4. Use digital tools and technologies to collaborate.
5. Create, edit, and save digital content and manage digital information.
6. Navigate the internet, and evaluate the veracity of digital information.

TEBP1130 - Word Processing - 2 - Credits

Course Overview

Course Prefix
TEBP

Course Number
1130

Department
Technology, Design & Technical Ed

Course Title
Word Processing

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course focuses on creating and managing professional documents. Students explore editing and formatting, enhancing documents with visual elements, and using collaboration and reference tools. Upon successful completion of this course, students will be able to demonstrate industry-level competency.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

No Requirements

Course Learning Objectives

Course Learning Outcomes
Course Learning Outcomes:

1. Manage documents.

2. Insert and format text, paragraphs, and sections.

3. Manage tables and lists.

4. Create and manage references.

5. Insert and format graphic elements.

6. Manage document collaboration.

TEBP1140 - Spreadsheets - 2 - Credits

Course Overview

Course Prefix
TEBP

Course Number
1140

Department
Technology, Design & Technical Ed

Course Title
Spreadsheets

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces the essential spreadsheet features needed to create worksheets by entering and editing data. Students explore formulas and functions, visual elements, and formatting. Upon successful completion of this course, students will be able to demonstrate industry-level competency.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

No Requirements

Course Learning Objectives

Course Learning Outcomes
Course Learning Outcomes:

1. Create, format, edit, print, and save worksheets and workbooks.

2. Manage and manipulate data.

3. Summarize data using charts, tables, and graphic elements.

4. Use formulas and functions.

TEBP1150 - Presentations - 2 - Credits

Course Overview

Course Prefix
TEBP

Course Number
1150

Department
Technology, Design & Technical Ed

Course Title
Presentations

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course explores developing and creating professional electronic presentations. Students will practice adding visual elements, formatting slides, incorporating audio and video elements, and saving and sharing files. Upon successful completion of this course, students will be able to demonstrate industry-level competency.

Credit Hours

Credit Hours Min:
2

Contact Hours

Contact Hours Min:
2

Billing Hours

Billing Hours Min:
2

Lecture Hours

Lecture Hours Min:
2

No Requirements

Course Learning Objectives

Course Learning Outcomes
Course Learning Outcomes:

1. Explore professionalism in presentations.

2. Create professional presentations.

3. Operate common electronic presentation software.

4. Demonstrate use of graphics, formatting, animations, and transitions to enhance a presentation.

TEBP1200 - Professionalism - 3 - Credits

Course Overview

Course Prefix
TEBP

Course Number
1200

Department
Technology, Design & Technical Ed

Course Title
Professionalism

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course explores behaviors, attitudes, and human skills essential for workplace success. Students study how to build strong customer relations and provide outstanding customer service in a diverse workplace. Students use these professional skills to prepare for potential career opportunities.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes
Course Learning Outcomes:

1. Demonstrate preparedness for potential career opportunities.

2. Explain the importance of human skills for success in the workplace.

3. Explore the foundations of a service culture and develop relationship management skills.

4. Practice acceptable workplace conduct, including self-management, willingness to learn, and workplace relationships.

TEBP1300 - Accounting I - 2 - Credits

Course Overview

Course Prefix
TEBP

Course Number
1300

Department
Technology, Design & Technical Ed

Course Title
Accounting I

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces the basic principles and language of accounting. Students demonstrate record-keeping concepts, including analyzing, journalizing, and posting transactions for a service-based business. Students will complete the entire accounting cycle, close the books, and make correcting entries.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Perform all stages of the accounting cycle.
2. Create and analyze financial reports.
3. Demonstrate best practices for ethical and accurate accounting.

TEBP1350 - Computerized Accounting - 3 - Credits

Course Overview

Course Prefix
TEBP

Course Number
1350

Department
Technology, Design & Technical Ed

Course Title
Computerized Accounting

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces students to software available for automating accounting functions. Students set up and maintain the financial processes within a business. Upon successful completion of this course, students will be able to demonstrate industry-level competency.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- TEBP1300 - Accounting I

Course Learning Objectives

Course Learning Outcomes

1. Demonstrate best practice for ethical and accurate accounting.
2. Use accounting software to customize business documents, forms, reports, and graphs.

3. Use accounting software to create and analyze financial reports.
4. Use accounting software to perform all stages of the accounting cycle.
5. Use accounting software to set up a company.

TEBP1500 - Business English - 1 - Credits

Course Overview

Course Prefix
TEBP

Course Number
1500

Department
Technology, Design & Technical Ed

Course Title
Business English

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course emphasizes the essentials of clear, concise, and correct business English. Students demonstrate professional writing and proofreading by using accurate spelling, grammar, punctuation, and sentence fluency skills.

Credit Hours

Credit Hours Min:
1

Contact Hours

Contact Hours Min:
1

Billing Hours

Billing Hours Min:
1

Lecture Hours

Lecture Hours Min:
1

Course Learning Objectives

Course Learning Outcomes
1. Proofread and edit existing documents for clarity and accuracy.
2. Demonstrate the fundamentals of grammar, punctuation, spelling, and word usage.
3. Explore the fundamentals of the English language and why they are necessary for effective communication.

TEBP1550 - Business Communications - 3 - Credits

Course Overview

Course Prefix
TEBP

Course Number
1550

Department
Technology, Design & Technical Ed

Course Title
Business Communications

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Business communication introduces students to best practices for planning, composing, and revising professional business messages. Students explore the importance of using proper mechanics, knowing the intended audience, and organizing messages to communicate successfully.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

TEBP1650 - Management Principles - 2 - Credits

Course Overview

Course Prefix
TEBP

Course Number
1650

Department
Technology, Design & Technical Ed

Course Title
Management Principles

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course addresses strategies related to starting, owning, operating, and growing a small business. Students explore marketing, financial management, leadership, ethics, and growth opportunities. Upon successful completion of this course, students will be able to demonstrate industry-level competency.

Credit Hours

Credit Hours Min:
2

Contact Hours

Contact Hours Min:
2

Billing Hours

Billing Hours Min:
2

Lecture Hours

Lecture Hours Min:
2

No Requirements

Course Learning Objectives

Course Learning Outcomes

Course Learning Outcomes:

1. Demonstrate and understanding of how to manage the operations of a business effectively and efficiently.

2. Practice analyzing and managing the financial aspects of a business including cash flow, financing, and profit management.

3. Explore the human and legal aspects of starting and organizing a business.

TEBP1700 - Marketing I - 3 - Credits

Course Overview

Course Prefix
TEBP

Course Number
1700

Department
Technology, Design & Technical Ed

Course Title
Marketing I

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces the marketing function by emphasizing concepts and terminology. Students explore components of the marketing mix, opportunities available, marketing ethics, and globalization. Students incorporate consumer behavior, product placement, SWOT, and market research in a marketing plan.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Analyze social, economic, technological, competitive and regulatory forces.
2. Evaluate marketing research and positioning.
3. Explore the elements of a marketing plan.
4. Describe a product lifecycle, the four Ps of marketing, and market opportunities.

TEBP1840 - Business Productivity - 3 - Credits

Course Overview

Course Prefix
TEBP

Course Number
1840

Department
Technology, Design & Technical Ed

Course Title
Business Productivity

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course explores current tools used by business professionals to create and sustain a productive workplace, including coordinating office activities and preparing and organizing professional documents. Students practice working and communicating efficiently to facilitate the success of their organization.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Operate appropriate software applications for administrative support.
2. Develop interpersonal skills needed for supporting stakeholders at all levels of the company.
3. Demonstrate best practices for using, crafting, distributing, and tracking electronic communication.
4. Create and organize workplace documents.

TEBP2000 - Introduction to Entrepreneurship - 3 - Credits

Course Overview

Course Prefix
TEBP

Course Number
2000

Department
Technology, Design & Technical Ed

Course Title
Introduction to Entrepreneurship

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course examines what it takes to start a new business. Students explore business ideas and strategies. Upon successful completion of this course, students have the necessary tools to create or expand a start-up business.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Project business costs and revenue.
2. Identify ethical and sound decision-making practices.
3. Analyze target markets and sales strategies.
4. Create a business plan.

TEBP2300 - Accounting II - 2 - Credits

Course Overview

Course Prefix
TEBP

Course Number
2300

Department
Technology, Design & Technical Ed

Course Title
Accounting II

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course explores the advanced principles of accounting. Students demonstrate record-keeping concepts, including analyzing, journalizing, and posting transactions for a retail-based business. Students complete the entire accounting cycle, close the books, and make correcting entries.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- TEBP1300 - Accounting I

may be taken concurrently

Course Learning Objectives

Course Learning Outcomes

1. Demonstrate best practices for ethical and accurate accounting.
2. Create and analyze financial reports.
3. Perform all stages of the accounting cycle.

TEBP2320 - Accounting III - 2 - Credits

Course Overview

Course Prefix
TEBP

Course Number
2320

Department
Technology, Design & Technical Ed

Course Title
Accounting III

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces students to pneumatics and pneumatic processes used in a variety of industrial applications. Competencies include safety, maintenance, operation, installation, identification, principles of pressure and flow, air logic, troubleshooting, analysis of performance, and design of pneumatic systems.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Demonstrate best practices for ethical and accurate accounting.
2. Apply depreciation methods to account accurately for assets.
3. Compute ratios and rates to determine financial health of a business.

TEBP2999 - Business Externship - 1 - 3 Credits

Course Overview

Course Prefix
TEBP

Course Number
2999

Department
Technology, Design & Technical Ed

Course Title
Business Externship

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course provides students with an industry-based work experience. Students complete job related activities as determined by the cooperating employer. Upon successful completion of this course, students have practiced and mastered employer-set objectives, which may lead to employment.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

Course Learning Objectives

Course Learning Outcomes
Objectives:

- Demonstrate professional work habits.
- Apply knowledge and skills learned throughout the program.
- Accept employer feedback and improve accordingly.
- Perform self-evaluation on externship experience.

TECD1100 - Commercial Driver's License Class A - 6 - Credits

Course Overview

Course Prefix
TECD

Course Number
1100

Department
Technology, Design & Technical Ed

Course Title
Commercial Driver's License Class A

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
The Commercial Drivers' License Class A Course prepares students in classroom theory, backing skills, and entry-level driving skills including behind the wheel range and public road practice.

Credit Hours

Credit Hours Min:
6

Contact Hours

Contact Hours Min:
6

Billing Hours

Billing Hours Min:
6

Lecture Hours

Lecture Hours Min:
6

No Requirements

Course Learning Objectives

Course Learning Outcomes
1. Review non-driving Activities.
2. Practice vehicle inspections (pre/post-trip).
3. Learn and practice advanced operating procedures.
4. Demonstrate safe operating procedures.
5. Demonstrate basic truck operating procedures.

TECD1110 - Advanced Trailering Techniques - 2 - Credits

Course Overview

Course Prefix
TECD

Course Number
1110

Department
Technology, Design & Technical Ed

Course Title
Advanced Trailering Techniques

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides instruction on advanced or specialized industry trailering techniques.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- TECD1100 - Commercial Driver's License Class A

may be taken concurrently

Course Learning Objectives

Course Learning Outcomes

1. Demonstrate proper procedure coupling of specialized trailers.
2. Properly conduct a pre-inspection and post inspection of specialized trailers.
3. Demonstrate safe operation of dump and/or other specialized trailers.

TECD1120 - Dump and Trailering - 2 - Credits

Course Overview

Course Prefix
TECD

Course Number
1120

Department
Technology, Design & Technical Ed

Course Title
Dump and Trailering

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides instruction on safe operation of dump trucks and equipment hauling trailer.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- TECD1120 - Dump and Trailering

may be taken concurrently

Course Learning Objectives

Course Learning Outcomes

1. Demonstrate proper procedure for operating PTO.
2. Demonstrate safe and proper procedure for dump trucks.
3. Demonstrate safe securement of heavy equipment onto drop deck or lowboy trailer.
4. Demonstrate proper and safe use of load securement devices relating to cargo.

TECD1130 - Maintenance - 2 - Credits

Course Overview

Course Prefix
TECD

Course Number
1130

Department
Technology, Design & Technical Ed

Course Title
Maintenance

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides instruction on semi-truck and trailer maintenance.

Credit Hours

Credit Hours Min:
2

Contact Hours

Contact Hours Min:
2

Billing Hours

Billing Hours Min:
2

Lecture Hours

Lecture Hours Min:
2

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- TECD1100 - Commercial Driver's License Class A

may be taken concurrently

Course Learning Objectives

Course Learning Outcomes

1. Demonstrate proper lubrication, fluid maintenance, tire and wheel maintenance.

TECD1150 - Commercial Driver's License Class B - 3 - Credits

Course Overview

Course Prefix
TECD

Course Number
1150

Department
Technology, Design & Technical Ed

Course Title
Commercial Driver's License Class B

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
The Commercial Driver's License Class B Course prepares students in the Entry Level Driver Training requirements and regulations as required by Federal, State and College agencies. Including classroom theory, backing skills, and behind the wheel road skills.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Demonstrate Basic Truck operation procedures and skills.
2. Demonstrate safe operating procedures.
3. Learn and Practice defensive driving techniques.
4. Drive and control a class B truck on local, city, county and interstate highways and roads.
5. Practice vehicle inspections (pre/post-trip, enroute).
6. Practice safe backing techniques.
7. Review Non-driving activities (HOS, Cargo securement).

TECD1200 - Advanced Driving Techniques - 1 - 3 Credits

Course Overview

Course Prefix
TECD

Course Number
1200

Department
Technology, Design & Technical Ed

Course Title
Advanced Driving Techniques

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides instruction on advanced driving situations through behind-the-wheel and simulator technology training.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- TECD1100 - Commercial Driver's License Class A

may be taken concurrently

Course Learning Objectives

Course Learning Outcomes

1. Exhibit safe operation of loaded and/or empty semi-truck and trailer on local area/industry specific driving challenges.
2. Display competency with mountainous roads, ability to drive in extreme driving situations, nighttime driving, skid recovery, emergency situations, safe handling, road hazard perception and distracted drivers.

TECD1210 - Hazmat for CDL - 1 - Credits

Course Overview

Course Prefix
TECD

Course Number
1210

Department
Technology, Design & Technical Ed

Course Title
Hazmat for CDL

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides instruction on Commercial Driver License Hazardous Materials Endorsement

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Simple Requisites

Corequisite

Type
Corequisite

Required

Enroll in the following Courses:

- TECD1100 - Commercial Driver's License Class A

Course Learning Objectives

Course Learning Outcomes

1. Successfully pass TSA Background check.
2. Demonstrate knowledge and successfully pass off Entry Level Driver Training (ELDT) and the Utah Driver License Exam for Hazardous Materials Endorsement.

TECD1220 - School Bus/Passenger Bus Endorsement - 2 - Credits

Course Overview

Course Prefix
TECD

Course Number
1220

Department
Technology, Design & Technical Ed

Course Title
School Bus/Passenger Bus Endorsement

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides instruction on Commercial Driver License School and Passenger Bus Endorsement

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Simple Requisites

Corequisite

Type
Corequisite

Required

Enroll in the following Courses:

- TECD1100 - Commercial Driver's License Class A

Course Learning Objectives

Course Learning Outcomes

1. Demonstrate knowledge and successfully pass off Entry Level Driver Training.
2. Demonstrate proper pre and post trip inspection on School Bus and Passenger Bus.
3. Demonstrate proper inspection of student and passenger specific items on the school bus.
4. Demonstrate proper operation of school and passenger bus.

5. Demonstrate proper unloading and loading procedures for students.
6. Pass the required state written and practical exams to obtain the endorsement for School Bus and Passenger Bus.

TECD1230 - Industry Safety Certifications - 2 - Credits

Course Overview

Course Prefix
TECD

Course Number
1230

Department
Technology, Design & Technical Ed

Course Title
Industry Safety Certifications

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course reviews and prepares students for 60-hours of industry safety certifications.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- TECD1100 - Commercial Driver's License Class A

may be taken concurrently

Course Learning Objectives

Course Learning Outcomes

Course Learning Outcomes:

1. Pass the industry certification for OSHA 10.

2. Pass the industry certification for MSHA 32 H2s.

3. Pass the industry certification for fire extinguishers.

4. Pass the industry certification for CPR/First Aid.

5. Pass other relevant industry certification exams as necessary for local industry needs.

TECD1240 - Air Brake Adjustment Certification - 1 - Credits

Course Overview

Course Prefix
TECD

Course Number
1240

Department
Technology, Design & Technical Ed

Course Title
Air Brake Adjustment Certification

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course reviews and prepares students for air brake adjustment certification and inspection within the provision of the Federal Motor Carrier Safety Administration (FMCSA)

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- TECD1100 - Commercial Driver's License Class A

may be taken concurrently

Course Learning Objectives

Course Learning Outcomes

1. Pass the Air Brake Adjustment and Inspection Certification.

TECE1000 - Industrial Networking Basics - 1 - Credits

Course Overview

Course Prefix
TECE

Course Number
1000

Department
Technology, Design & Technical Ed

Course Title
Industrial Networking Basics

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course teaches students how to implement basic networking concepts. It also provides essential information about the industrial protocols and topology. This course covers Ethernet basics and the concepts necessary for an industrial network.

Credit Hours

Credit Hours Min:
1

Contact Hours

Contact Hours Min:
1

Billing Hours

Billing Hours Min:
1

Lecture Hours

Lecture Hours Min:
1

No Requirements

Course Learning Objectives

Course Learning Outcomes
Course Learning Outcomes:

1. Describe basic network configuration.

2. Use basic networking hardware, software, and tools.

3. Describe common networking communications protocols.

4. Use Power over Ethernet (PoE) in a network application.

5. Build and test Ethernet cables.

6. Configure a wireless access point.

7. Discover and assign Internet Protocol (IP) addresses for various industrial control components.

8. Set up a complete Industrial Ethernet network.

TECE1050 - Vision System Basics - 1 - Credits

Course Overview

Course Prefix
TECE

Course Number
1050

Department
Technology, Design & Technical Ed

Course Title
Vision System Basics

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
The course covers Cognex Insight Easy Builder and Spreadsheet interface, emphasizing lighting, lenses, and filters. It teaches setting up vision applications using spreadsheet programming best practices, covering advanced tools and recent additions. Students gain proficiency in basic vision systems.

Credit Hours

Credit Hours Min:
1

Contact Hours

Contact Hours Min:
1

Billing Hours

Billing Hours Min:
1

Lecture Hours

Lecture Hours Min:
1

No Requirements

Course Learning Objectives

Course Learning Outcomes

Course Learning Outcomes:

1. Identify vision hardware and connections.

2. Convert pixels to common measurements using calibration tools.

3. Setup software interface and acquire first images.

4. Identify parts using pattern matching and Logic.

5. Identify presence or absence of feature using histogram tools.

6. Identify part edges using edge tools.

7. Identify irregular shapes using blob tools and image filters.

8. Configure input and output signals then demonstrate their use.

9. Send process results to external devices.

10. Create custom interface for pass/fail results.

11. Deploy application using simple interface and advanced interface.

12. Demonstrate use of multiple lighting principles and techniques.

TECE1100 - Programmable Logic Controllers 2 - 3 - Credits

Course Overview

Course Prefix
TECE

Course Number
1100

Department
Technology, Design & Technical Ed

Course Title
Programmable Logic Controllers 2

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
The course covers Studio 5000 Logix Designer and CompactLogix PLC, emphasizing ladder logic programming. It includes wiring, troubleshooting, and programming for industrial applications, with a final project to program a complete process. Students develop expertise in advanced logic and controller applications.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes

Course Learning Outcomes:

1. Connect to and configure a Programmable Logic Controller (PLC) using PLC programming software.

2. Use tags, subroutines, data types, arrays, and sequencer code structure in programmable controller programming.

3. Use input and output instructions, timers, counters, math instructions, and compare instructions in programmable logic controller programming.

4. Connect and configure input and output (I/O) expansion cards, both local and remote.

5. Demonstrate proper PLC wiring.

6. Program a complete process from scratch.

TECE1150 - Human Machine Interface (HMI) Programming - 2 - Credits

Course Overview

Course Prefix
TECE

Course Number
1150

Department
Technology, Design & Technical Ed

Course Title
Human Machine Interface (HMI) Programming

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
The course covers HMIs, enabling streamlined operator functions and PLC operations monitoring. Topics include converting PLC programs to graphic HMIs, editing applications, communication, data logging, alarms, diagnostics, and information messages. Students gain skills in HMI programming for PLC data monitoring.

Credit Hours

Credit Hours Min:
2

Contact Hours

Contact Hours Min:
2

Billing Hours

Billing Hours Min:
2

Lecture Hours

Lecture Hours Min:
2

No Requirements

Course Learning Objectives

Course Learning Outcomes

Course Learning Outcomes:

1. Describe the use and need for Human Machine Interface (HMI) in an automation environment.

2. Interface an HMI with a Programmable Logic Controller (PLC) to simulate a virtualized system.

3. Create graphic displays.

4. Build and animate an interactive graphic display.

5. Configure HMI tag-based alarms.

6. Create and configure a historical trend.

7. Create and view a data log model.

8. Use a graphic HMI panel to control a process on an actual machine.

TECE1200 - Industrial Networking Lab - 2 - Credits

Course Overview

Course Prefix
TECE

Course Number
1200

Department
Technology, Design & Technical Ed

Course Title
Industrial Networking Lab

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students network PLCs, remote I/O blocks, sensor systems, servo drives, and robots so they are able to consistently pass information between devices. This is done through configuring network communication between PLCs and I/O blocks, sensor systems, servos, and robots.

Credit Hours

Credit Hours Min:
2

Contact Hours

Contact Hours Min:
2

Billing Hours

Billing Hours Min:
2

Lecture Hours

Lecture Hours Min:
2

No Requirements

Course Learning Objectives

Course Learning Outcomes
Course Learning Outcomes:

1. Apply Industrial Networking concepts to devices used in industry.

2. Set up industrial grade networking hardware.

3. Configure network communication between Programmable Logic Controllers (PLCs), input and output (I/O) blocks, sensor systems, servos, and robots.

4. Use standard PLC sequencer logic to control a process.

5. Wire I/O and PLC network connections.

6. Set up a remote connection to a PLC.

TECE1250 - Servo Motors and Drives - 1 - Credits

Course Overview

Course Prefix
TECE

Course Number
1250

Department
Technology, Design & Technical Ed

Course Title
Servo Motors and Drives

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers servomechanisms and motion control applications. It teaches programming of servo drives and motors for basic motion commands, wiring and programming of electric motor drives, and PLC programming for multi-axis motion control.

Credit Hours

Credit Hours Min:
1

Contact Hours

Contact Hours Min:
1

Billing Hours

Billing Hours Min:
1

Lecture Hours

Lecture Hours Min:
1

No Requirements

Course Learning Objectives

Course Learning Outcomes
Course Learning Outcomes:

1. Describe the components of a servomechanism.

2. Use a network to connect a PLC to motion control modules.

3. Configure motion modules in a Programmable Logic Controller (PLC).

4. Write a PLC program to perform motion control.

5. Write a PLC program to perform motion control with multiple axes.

TECE1300 - Programmable Logic Controllers 3 - 3 - Credits

Course Overview

Course Prefix
TECE

Course Number
1300

Department
Technology, Design & Technical Ed

Course Title
Programmable Logic Controllers 3

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers safety PLC operation, risk assessments, and programming techniques including PID control, Structured Text, Function Blocks, and structured programming for advanced logic in PLCs.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes
Course Learning Outcomes:

1. Write a Programmable Logic Controller (PLC) program that uses the PID (Proportional Integral Derivative) method to control a process.

2. Program a safety PLC using regular and safety I/O.

3. Use an external safety relay in a PLC application.

4. Perform a risk assessment.

5. Use function block and structured text in basic PLC projects.

6. Use Add-On Instructions (AOI) to enhance a PLC program.

7. Program a PLC using a structured method.

TECE1320 - Vision Systems Advanced - 1 - Credits

Course Overview

Course Prefix
TECE

Course Number
1320

Department
Technology, Design & Technical Ed

Course Title
Vision Systems Advanced

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course delves into vision systems, exploring deep learning for inspections, character recognition, advanced lighting, and custom scripting. Graduates can expertly manipulate and utilize vision systems in advanced scenarios.

Credit Hours

Credit Hours Min:
1

Contact Hours

Contact Hours Min:
1

Billing Hours

Billing Hours Min:
1

Lecture Hours

Lecture Hours Min:
1

No Requirements

Course Learning Objectives

Course Learning Outcomes

Course Learning Outcomes:

1. Deploy VIDI deep learning tools.

2. Apply advanced find tools.

3. Identify text using OCR text recognition tools.

4. Identify inconsistent/flexible features using advanced edge inspection tools.

5. Identify unique colors using color tools.

6. Build and execute a custom script.

7. Apply advanced lighting including off axis, dome, lighting controllers, strobing.

TECE1420 - Programmable Logic Controller Platforms - 1 - Credits

Course Overview

Course Prefix
TECE

Course Number
1420

Department
Technology, Design & Technical Ed

Course Title
Programmable Logic Controller Platforms

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course enables students to practice using different PLC platforms. It covers platform selection, software and hardware understanding, setup, configuration, and programming in labs simulating industrial applications, allowing skill development and hands-on experience.

Credit Hours

Credit Hours Min:
1

Contact Hours

Contact Hours Min:
1

Billing Hours

Billing Hours Min:
1

Lecture Hours

Lecture Hours Min:
1

No Requirements

Course Learning Objectives

Course Learning Outcomes

Course Learning Outcomes:

1. Use a Programmable Logic Controller (PLC) from a selected manufacturer.

2. Perform proper wiring between I/O and PLC on a selected platform.

3. Perform PLC programming on a selected platform.

4. Use PLC programming software to create and edit programs on a selected platform.

TECE1440 - Human Machine Interface Platforms - 1 - Credits

Course Overview

Course Prefix
TECE

Course Number
1440

Department
Technology, Design & Technical Ed

Course Title
Human Machine Interface Platforms

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course focuses on selecting a suitable HMI system and performing fundamental tasks with it. It introduces students to the interface, tools, and overall operation of the system using vendor-provided resources and instructor guidance.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

No Requirements

Course Learning Objectives

Course Learning Outcomes
Course Learning Outcomes:

1. Use a Human Machine Interface (HMI) or Supervisory Control and Data Acquisition (SCADA) software from a selected manufacturer.

2. Create graphic displays on a selected platform.

3. Configure communication between the selected platform and a Programmable Logic Controller (PLC).

4. Build and animate an interactive graphic display on a selected platform.

TECE1460 - Robot Platforms - 1 - Credits

Course Overview

Course Prefix
TECE

Course Number
1460

Department
Technology, Design & Technical Ed

Course Title
Robot Platforms

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course helps students select a robot platform and perform essential HMI tasks like program creation, modification, and execution. With instructor guidance, students learn the system's interface, tools, and operation using vendor-provided resources and manuals.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

No Requirements

Course Learning Objectives

Course Learning Outcomes
Course Learning Outcomes:

1. Power up and jog the robot.

2. Recover from common program and robot faults.

3. Execute production operations.

4. Create, modify, and execute a material handling program.

5. Monitor, force, and simulate Input and Output signals.

6. Backup and restore individual programs and files.

TECE1480 - Vision Platforms - 1 - Credits

Course Overview

Course Prefix
TECE

Course Number
1480

Department
Technology, Design & Technical Ed

Course Title
Vision Platforms

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers industrial vision systems, including application deployment, interface navigation, and result communication. With instructor guidance, students learn from vendor resources to create custom interfaces and manage pass/fail results for effective utilization of vision systems.

Credit Hours

Credit Hours Min:
1

Contact Hours

Contact Hours Min:
1

Billing Hours

Billing Hours Min:
1

Lecture Hours

Lecture Hours Min:
1

No Requirements

Course Learning Objectives

Course Learning Outcomes
Course Learning Outcomes:

1. Deploy application using simple interface and advanced interface.

2. Create custom interface for pass/fail results.

3. Send process results to external devices.

4. Configure input and output signals then demonstrate their use.

5. Identify irregular shapes using blob tools and image filters.

6. Identify part edges using edge tools.

7. Identify presence or absence of feature using histogram tools.

8. Identify parts using pattern matching and Logic.

9. Setup software interface and acquire first images.

10. Convert pixels to common measurements using calibration tools.

11. Identify vision hardware and connections.

TECE1500 - FANUC Basic Programming - 1 - Credits

Course Overview

Course Prefix
TECE

Course Number
1500

Department
Technology, Design & Technical Ed

Course Title
FANUC Basic Programming

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students learn programming with FANUC robots, using hands-on labs with LR Mate 200i D manipulators and R-30i B Mate Controllers. Topics include coordinate systems, robot control, and MACRO creation and execution.

Credit Hours

Credit Hours Min:
1

Contact Hours

Contact Hours Min:
1

Billing Hours

Billing Hours Min:
1

Lecture Hours

Lecture Hours Min:
1

No Requirements

Course Learning Objectives

Course Learning Outcomes

Course Learning Outcomes:

1. Power up and Jog the robot using multiple coordinate systems.

2. Backup and restore individual programs and files

3. Apply positional offsets in a material handling operation.

4. Monitor, Force, and Simulate Input and Output Signals.

5. Create and execute MACROs.

6. Create, modify, and execute a material handling program.

7. Execute production operations.

8. Recover from common program and robot faults.

TECE1550 - FANUC ROBOGUIDE Simulation Software - 2 - Credits

Course Overview

Course Prefix
TECE

Course Number
1550

Department
Technology, Design & Technical Ed

Course Title
FANUC ROBOGUIDE Simulation Software

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
The course teaches creating a HandlingPRO virtual work cell with a FANUC robot and fixtures for part handling, including TPP Program. It covers robot programming and execution, enabling students to proficiently work with FANUC robots.

Credit Hours

Credit Hours Min:
2

Contact Hours

Contact Hours Min:
2

Billing Hours

Billing Hours Min:
2

Lecture Hours

Lecture Hours Min:
2

No Requirements

Course Learning Objectives

Course Learning Outcomes

Course Learning Outcomes:

1. Setup extended axis and add 2nd & 3rd motion group, then create machines for the 7th axis and motion groups

2. Add a second robot to the workcell.

3. Create an AVI of the workcell.

4. Create a program to pick and place random parts.

5. Use Task Profiler to analyze program run.

6. Run the programs.

7. Create a program using Draw Features on Part.

8. Create a robot program.

9. Add a place fixture to the workcell.

10. Add a pick fixture to the workcell.

11. Add End-of-arm Tooling to the robot

12. Add a part and objects to the workcell.

13. Edit the robot properties.

14. Create a new workcell.

TECE1620 - Robot Vision and Safety - 1 - Credits

Course Overview

Course Prefix
TECE

Course Number
1620

Department
Technology, Design & Technical Ed

Course Title
Robot Vision and Safety

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course teaches setup, testing, and modification of iRVision applications and FANUC DCS software. Students learn to install vision hardware, program the robot, handle errors, and follow safety practices for advanced robot vision systems.

Credit Hours

Credit Hours Min:
1

Contact Hours

Contact Hours Min:
1

Billing Hours

Billing Hours Min:
1

Lecture Hours

Lecture Hours Min:
1

No Requirements

Course Learning Objectives

Course Learning Outcomes
Course Learning Outcomes:

1. Set up and Modify DCS Safe I/O parameters.

2. Set up and modify Speed Check parameters.

3. Create User Models and User Frames.

4. Setup Stop Position Prediction.

5. Modify DCS Zone Checks

6. Recover from DCS alarm.

7. Set up position check functions.

8. Set up and Modify DCS General parameters.

9. Understand the DCS menus.

10. Program the robot to respond to vision results.

11. Set up a 2D single-view vision process.

12. Calibrate a camera.

13. Create user frames necessary for use with the vision system.

14. Create tool frame for the robot applicator.

15. Master a robot using vision mastering.

16. Understand basic vision concepts and lighting.

17. Perform an inspection vision process.

18. Set up a camera.

19. View and/or change robot and computer parameters to facilitate access to the robot's web page.

TECE1700 - FANUC Advanced Programming - 1 - Credits

Course Overview

Course Prefix
TECE

Course Number
1700

Department
Technology, Design & Technical Ed

Course Title
FANUC Advanced Programming

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
In this course students are given a hypothetical example work cell. They are then given the task of creating all the necessary programs to deal with multifaceted issues using advanced programming techniques.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

No Requirements

Course Learning Objectives

Course Learning Outcomes

Course Learning Outcomes:

1. Manipulate frames related to programming issues.

2. Demonstrate advanced program control structures.

3. Establish PLC Robot communication using User Operator Panel

4. Master the robot.

5. Establish Ethernet communication.

6. Set payload and payload change.

7. Set tool frame offsets.

8. Apply reference positions.

9. Pull parts through a predefined system.

10. Set up multi-tasking operations.

11. Design and implement methods for Error Recovery.

TECE1750 - Manufacturing Analytics - 2 - Credits

Course Overview

Course Prefix
TECE

Course Number
1750

Department
Technology, Design & Technical Ed

Course Title
Manufacturing Analytics

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
In this course, students will become familiar with working on data sets generated in manufacturing. Students will learn several manufacturing data concepts using multiple data sets based on real-world scenarios and apply the principles learned using real-world systems

Credit Hours

Credit Hours Min:
2

Contact Hours

Contact Hours Min:
2

Billing Hours

Billing Hours Min:
2

Lecture Hours

Lecture Hours Min:
2

No Requirements

Course Learning Objectives

Course Learning Outcomes
Course Learning Outcomes:

1. Setup data transfer from a Programmable Logic Controller (PLC)-driven manufacturing system to a database table or spreadsheet.

2. Present findings using an Human Machine Interface (HMI) or a Data Visualization program.

3. Analyze data from multiple real-world manufacturing scenarios for multiple real-world manufacturing processes.

TECE1800 - Integration Capstone - 4 - Credits

Course Overview

Course Prefix
TECE

Course Number
1800

Department
Technology, Design & Technical Ed

Course Title
Integration Capstone

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course involves many industrial control system aspects, including safety systems, risk assessments, and code diagrams. It covers how to integrate the following: Programmable Logic Controller, Human Machine Interface, servo drive, network switch, vision system, safety system, and industrial robotic arm.

Credit Hours

Credit Hours
Min:
4

Contact Hours

Contact Hours
Min:
4

Billing Hours

Billing Hours
Min:
4

Lecture Hours

Lecture Hours
Min:
4

No Requirements

Course Learning Objectives

Course Learning Outcomes
Course Learning Outcomes:

1. Report the project while following instructor reporting requirements.

2. Demonstrate a structured coding method.

3. Build a project using advanced programming in one or more of the following: Programmable equipment, industrial networking equipment.

4. Demonstrate advanced troubleshooting techniques.

TECO1010 - Introduction to Carpentry - 2 - Credits

Course Overview

Course Prefix
TECO

Course Number
1010

Department
Technology, Design & Technical Ed

Course Title
Introduction to Carpentry

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course teaches site safety, construction math, proper material handling, hand and power tool identification and use, workplace habits and attitudes. This course describes construction drawings and builds communication and employability skills needed in the workplace.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

No Requirements

Course Learning Objectives

Course Learning Outcomes
1. Demonstrate positive workplace behaviors and communication skills to promote a successful construction team.
2. Use whole numbers, fractions, and decimals in mathematical equations as they pertain to job site tasks.
3. Describe various types of construction drawings.
4. Demonstrate proper equipment and hazardous material handling.
5. Demonstrate proper use of hand and power tools.
6. Demonstrate proper workplace and job site safety.

TECO1020 - Carpentry Concepts - 4 - Credits

Course Overview

Course Prefix
TECO

Course Number
1020

Department
Technology, Design & Technical Ed

Course Title
Carpentry Concepts

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course teaches the uses of various fasteners, proper use of carpentry tools, interpretation of blueprints, material take-offs, and basic carpentry concepts.

Credit Hours

Credit Hours Min:
4

Contact Hours

Contact Hours Min:
4

Billing Hours

Billing Hours Min:
4

Lecture Hours

Lecture Hours Min:
4

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Describe building materials used in construction work.
2. Identify hand tools and power tools operations, with care and maintenance.
3. Define techniques for reading and using construction drawings and specifications.
4. Demonstrate procedures for framing and layout of a residential building.
5. Define the concept of the building envelope and its components.

TECO1030 - Construction Print Reading - 3 - Credits

Course Overview

Course Prefix
TECO

Course Number
1030

Department
Technology, Design & Technical Ed

Course Title
Construction Print Reading

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course familiarizes students with construction prints, design, symbols, specifications, and measurements, as well as the importance of plot plan, foundation plan, floor plan, elevations, and section views.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Demonstrate knowledge of current blueprint application in residential construction.
2. Identify the different types of lines on blueprints.
3. Identify the different parts of a blueprint.
4. Identify the different symbols used on blueprints.
5. Explain abbreviations used on blueprints.
6. Use the proper sequence in reading blueprints.
7. Extract pertinent construction information from blueprints.

TECO1040 - Advanced Carpentry Concepts - 4 - Credits

Course Overview

Course Prefix
TECO

Course Number
1040

Department
Technology, Design & Technical Ed

Course Title
Advanced Carpentry Concepts

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course teaches layout of the construction site for the excavation for footings and foundation. Training is offered in cement work, floor units, walls, windows and door openings, construction roof systems, and stair layout according to building plans.

Credit Hours

Credit Hours
Min:
4

Contact Hours

Contact Hours
Min:
4

Billing Hours

Billing Hours
Min:
4

Lecture Hours

Lecture Hours
Min:
4

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Demonstrate how to setup and use builder's levels and establish grades on jobsite.
2. Demonstrate squaring and leveling a building site.
3. Explain concepts of structural concrete and flatwork.
4. Demonstrate proper use of tools used to form, place, and finish concrete.
5. Demonstrate procedures for framing floor, wall, roof, and stair systems and proper installation of doors and windows.

TECO1050 - Interior Finishes - 4 - Credits

Course Overview

Course Prefix
TECO

Course Number
1050

Department
Technology, Design & Technical Ed

Course Title
Interior Finishes

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces the materials and methods for interior wall, floor, and ceiling finishes, installing handrail/guardrails, finish flooring (e.g., ceramic tile, wood flooring, or laminate flooring) and installing shelving, decorative moldings and hardware.

Credit Hours

Credit Hours
Min:
4

Contact Hours

Contact Hours
Min:
4

Billing Hours

Billing Hours
Min:
4

Lecture Hours

Lecture Hours
Min:
4

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Demonstrate proper installation techniques of multiple interior finishes (may include but are not limited to): Drywall, Pre-hung interior doors, Trim out doors with door casing, baseboard molding and/or chair rail, trim out windows with window seals and casing, guard and hand railing according to code, ceramic tile or wood laminate flooring, shelving, decorating moldings, and hardware.

TECO1060 - Exterior Finishes - 4 - Credits

Course Overview

Course Prefix
TECO

Course Number
1060

Department
Technology, Design & Technical Ed

Course Title
Exterior Finishes

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides the student with an introduction to the application of exterior finishes. Subjects taught may include proper installation of roofing, siding, masonry, cornice finishes, weather barriers, and flashing.

Credit Hours

Credit Hours Min:
4

Contact Hours

Contact Hours Min:
4

Billing Hours

Billing Hours Min:
4

Lecture Hours

Lecture Hours Min:
4

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Identify and demonstrate how to apply typical roofing materials and demonstrate proper application.
2. Identify and demonstrate how to apply exterior finishes and their proper weather barrier.
3. Identify styles of cornice and install soffit and fascia onsite.
4. Identify and demonstrate how to install exterior doors and windows with proper flashing.

TECO1100 - Construction Estimating - 3 - Credits

Course Overview

Course Prefix
TECO

Course Number
1100

Department
Technology, Design & Technical Ed

Course Title
Construction Estimating

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course teaches estimation concepts, including take-offs, labor, equipment, markups, and overhead expenses. Using computer applications, students will learn how to compile a proposal from a set of plans.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Demonstrate calculation of construction related estimating.
2. Identify key principles in profitability within construction projects.
3. Explain and demonstrate feasibility, quantities, and time completions for construction projects.
4. Use computer applications to organize a bid proposal or estimate.

TECO1600 - Building Site Layout - 2 - Credits

Course Overview

Course Prefix
TECO

Course Number
1600

Department
Technology, Design & Technical Ed

Course Title
Building Site Layout

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers site selection, building placement, using a builder's level, establishing grades, setback requirements, and squaring a foundation. Students learn about material types for foundations. Types of foundations studied include basements, crawl spaces, and slab on grade.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Demonstrate proper workplace communication and job site safety.
2. Demonstrate proper use of layout process.
3. Identify and implement code related to building set back.
4. Demonstrate knowledge of various foundation types.
5. Demonstrate mathematics related to squaring and site layout.

TECO1610 - Specialty Construction Lab - 2 - Credits

Course Overview

Course Prefix
TECO

Course Number
1610

Department
Technology, Design & Technical Ed

Course Title
Specialty Construction Lab

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course allows students additional application of methods they have learned. It is project based and students utilize construction materials in interior and/or exterior construction.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Demonstrate proper workplace communication and job site safety.
2. Demonstrate proper use of tools and construction methods.
3. Demonstrate advanced competency with construction applications.

TECO1620 - Masonry - 2 - Credits

Course Overview

Course Prefix
TECO

Course Number
1620

Department
Technology, Design & Technical Ed

Course Title
Masonry

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces mortar types, mixes, coloring agents, and additives, and when, where, and how to use them; pouring and reinforcing concrete footers, slabs, and flatwork; block and brick wall construction; masonry veneer construction; and brick floors and pavements.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Demonstrate proper workplace and job site safety.
2. Demonstrate proper masonry terminology.
3. Identify various types of stone, brick, mortar and concrete and their application.
4. Demonstrate proper use of hand and power tools
5. Demonstrate proper masonry technique.

TECO1700 - Heating, Ventilation, and Air Conditioning (HVAC) Maintenance - 2 - Credits

Course Overview

Course Prefix
TECO

Course Number
1700

Department
Technology, Design & Technical Ed

Course Title
Heating, Ventilation, and Air Conditioning (HVAC) Maintenance

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This is an introductory course to HVAC systems in residential and commercial buildings. It is focused on terminology, maintenance and troubleshooting, proper tools and use, safety and overview of HVAC systems.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Demonstrate terminology related to HVAC.
2. Demonstrate proper tools and use for HVAC maintenance.
3. Demonstrate proper troubleshooting methods.
4. Explain functionality of HVAC systems.
5. Demonstrate basic maintenance and common part replacement.

TECO1710 - Plumbing Maintenance - 2 - Credits

Course Overview

Course Prefix
TECO

Course Number
1710

Department
Technology, Design & Technical Ed

Course Title
Plumbing Maintenance

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This is an introductory course to plumbing in residential and commercial buildings. It focuses on maintenance and troubleshooting, proper tools and use, safety and overview of plumbing systems.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Demonstrate proper terminology related to plumbing.
2. Demonstrate proper tools and use for plumbing maintenance.
3. Demonstrate proper troubleshooting methods.
4. Explain functionality of plumbing systems, fixtures and components.
5. Demonstrate basic maintenance and common part and fixture replacement.

TECO1720 - Electrical Maintenance - 2 - Credits

Course Overview

Course Prefix
TECO

Course Number
1720

Department
Technology, Design & Technical Ed

Course Title
Electrical Maintenance

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This is an introductory course to electrical systems in residential and commercial buildings. It focuses on terminology, maintenance and troubleshooting, proper tools and use, safety and overview of electrical circuits.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Demonstrate proper terminology related to electrical maintenance.
2. Demonstrate proper tools for and use for electrical maintenance.
3. Demonstrate proper troubleshooting methods.
4. Explain functionality of electrical circuits, fixtures and components.
5. Demonstrate basic maintenance and common electrical related part and fixture replacement.

TECO1730 - Electronic and Technical Maintenance for Buildings - 3 - Credits

Course Overview

Course Prefix
TECO

Course Number
1730

Department
Technology, Design & Technical Ed

Course Title
Electronic and Technical Maintenance for Buildings

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course focuses on the technical problems associated with commercial, industrial and governmental buildings where everyday use results in high maintenance of technical aspects of the building. Doors, locks, sensors, electronic, mechanical and office technology are addressed in this course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Demonstrate proper safety, attitude and communication relating to everyday technical problems.
2. Demonstrate proper use of tools and terminology related to the issue.
3. Explain basic troubleshooting processes related to electronics, mechanical items, appliances and/or office equipment.
4. Demonstrate ability to utilize troubleshooting manuals or item specific manuals.
5. Demonstrate basic computer literacy and ability to successfully utilize online resources for fixing technical problems.

TECO1740 - Interior and Exterior Building Maintenance - 4 - Credits

Course Overview

Course Prefix
TECO

Course Number
1740

Department
Technology, Design & Technical Ed

Course Title
Interior and Exterior Building Maintenance

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course involves identification and implementation of preventative and ongoing maintenance for interior and exterior finishes on buildings. Topics addressed may include safety, roofs, windows, doors, exterior finishes, trim, weather related issues, caulking, sealing, patching and painting of surfaces.

Credit Hours

Credit Hours
Min:
4

Contact Hours

Contact Hours
Min:
4

Billing Hours

Billing Hours
Min:
4

Lecture Hours

Lecture Hours
Min:
4

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Demonstrate ability to use online and manual resources to solve interior and exterior related maintenance problems.
2. Demonstrate proper use of tools and the ability to order parts and supplies.
3. Explain what preventative maintenance is and why it is important.
4. Demonstrate scheduled preventative maintenance processes and schedules.

TECO1750 - Pool and Spa Maintenance - 1 - Credits

Course Overview

Course Prefix
TECO

Course Number
1750

Department
Technology, Design & Technical Ed

Course Title
Pool and Spa Maintenance

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course teaches pool and spa maintenance and prepares individuals for certification of pool and spa maintenance operator.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Demonstrate and explain pool and spa health and safety regulations.
2. Demonstrate competency with Pool Water Chemistry.
3. Explain the Virginia Graeme Baker (VGB) Codes.
4. Explain the SARA Title III.

TECS1005 - Design Basics - 3 - Credits

Course Overview

Course Prefix
TECS

Course Number
1005

Department
Technology, Design & Technical Ed

Course Title
Design Basics

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces fundamental cosmetology practices, technical demonstrations, and hands-on application. Students learn infection control, sanitation, hair and scalp properties, analysis, hair design principles, shampooing, conditioning, treatments, haircutting, hairstyling, and cosmetologist responsibilities while developing critical thinking skills for professional success.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Special Approval
Instructor Permission

Other Enrollment Recommendations
Students need to go through the Cosmetology application and interview process to be accepted.

Course Learning Objectives

Course Learning Outcomes

- Explain and demonstrate the differences between cleaning, disinfecting, and sterilizing salon tools, implements, and equipment.
- Demonstrate shampooing, draping, and scalp treatments.
- Demonstrate different types of hairstyling techniques, including wet and thermal styling.
- Demonstrate the basics of haircutting.

- Demonstrate and explain other theory, practical application, and procedures associated with Cosmetology/Master
- Hair design/Master barbering basics.
- Demonstrate and learn practical applications while working on course-related content.
- Explain and demonstrate blood exposure procedures.
- Explain and show how to use EPA registration and Safety Data Sheets

TECS1010 - Cosmetology, Barbering, and Hair Design Basics - 4 - Credits

Course Overview

Course Prefix
TECS

Course Number
1010

Department
Technology, Design & Technical Ed

Course Title
Cosmetology, Barbering, and Hair Design Basics

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course presents basic cosmetology practices, demonstrates technical procedures, and practical application of cosmetology skills. Students learn the basics of infection control, safety, sanitation, and properties of the hair and scalp. Students will be introduced to the basics of cosmetology.

Credit Hours

Credit Hours Min:
4

Contact Hours

Contact Hours Min:
4

Billing Hours

Billing Hours Min:
4

Lecture Hours

Lecture Hours Min:
4

Registration Restrictions

Admission to the department of Technology, Design and Technical Education

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Explain and demonstrate the differences between cleaning, disinfecting, and sterilizing salontools, implements, and salon equipment.
2. Demonstrate competency in shampooing, draping, and scalp treatments.
3. Demonstrate different types of hairstyling techniques, including wet and thermal styling.
4. Demonstrate the basics of haircutting.
5. Demonstrate and explain other theory, practical application, and procedures associated with Cosmetology/Hair design basics.
6. Demonstrate and learn practical applications while working on course-related content.

TECS1020 - Barbering Basics - 2 - Credits

Course Overview

Course Prefix
TECS

Course Number
1020

Department
Technology, Design & Technical Ed

Course Title
Barbering Basics

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces barbering theory including the history of barbering, tools and equipment, professional straight razor shaves, facial hair design, and haircutting and styling techniques for short hair. Students perform demonstrations and practical applications for each subject area competency.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Registration Restrictions

Admission to the department of Technology, Design and Technical Education

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Explain the history of barbering including modern tools and implements used by barbers today.
2. Demonstrate proper safety and sanitation procedures.
3. Perform barbering skills related to facial hair design, haircutting and styling for short hair, and straight razor shaving services.
4. Demonstrate proper use of clippers, scissors, straight blade razors, and other barbering implements.
5. Demonstrate and learn practical applications while working on course-related content.
6. Demonstrate and explain other theory, practical application, and procedures associated with barbering basics.

TECS1030 - Cosmetology and Hair Design Chemical Services Basics - 3 - Credits

Course Overview

Course Prefix
TECS

Course Number
1030

Department
Technology, Design & Technical Ed

Course Title
Cosmetology and Hair Design Chemical Services Basics

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course teaches the basics of chemical services, such as chemical relaxers, color, perming, and related techniques. Students receive instruction, perform demonstrations, and practical applications for each of these basic chemical services. Students demonstrate competency through practical application, assignments, and testing.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Admission to the department of Technology, Design and Technical Education

No Requirements

Course Learning Objectives

Course Learning Outcomes

Course Learning Outcomes:

1. Define the law of color, complementary colors, the color wheel, color levels, color tones, and neutralizing tones.

2. Demonstrate proper mixing and application of different hair coloring and hair lightening services.

3. Demonstrate chemical relaxer techniques.

4. Demonstrate the different methods of permanent waving and wrapping.

5. Explain the proper procedures in the application of chemicals associated with permanent waving and chemical relaxers.

6. Demonstrate and learn practical applications while working on course-related content.

7. Demonstrate and explain other theory, practical application, and procedures associated with chemical services.

TECS1040 - Esthetics and Nail Basics - 2 - Credits

Course Overview

Course Prefix
TECS

Course Number
1040

Department
Technology, Design & Technical Ed

Course Title
Esthetics and Nail Basics

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course presents basic esthetic and nail service practices through demonstrations of technical procedures and practical application of esthetic skills. Students learn hair removal, facials, and makeup procedures. Students perform manicures, pedicures, gel polishes, nail care, and enhancements.

Credit Hours

Credit Hours Min:
2

Contact Hours

Contact Hours Min:
2

Billing Hours

Billing Hours Min:
2

Lecture Hours

Lecture Hours Min:
2

Registration Restrictions

Admission to the department of Technology, Design and Technical Education

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Analyze skin including recognizing and describing various contraindications for facial and hair removal services.
2. Explain facial treatments including galvanic, heat lamps, high frequency, facial packs, facial masks, limited aroma therapy, limited exfoliation.
3. Demonstrate proper facial services and how to apply facial treatments.
4. Describe limited exfoliation applications and techniques to include re-exfoliation, post-exfoliation consultation considerations, and chemical reactions.
5. Demonstrate massage techniques for the face and neck and basic facial services.
6. Demonstrate temporary hair removal techniques typically used in the salon.

7. Perform or explain the procedures for artificial eyelash applications, arching of the eyebrows, and tinting of the eyelashes and eyebrows.
8. Explain and demonstrate correct sanitation procedures for hand and foot nail care.
9. Demonstrate proper manicure and pedicure procedures.
10. Perform proper UV gel procedures.
11. Describe the procedure for applying acrylic nail enhancements.
12. Demonstrate and learn practical applications while working on course-related content.
13. Demonstrate and explain other theory, practical application, and procedures associated with esthetics and nail basics.

TECS1050 - Cosmetology and Barbering Intermediate Theory and Practice - 3 - Credits

Course Overview

Course Prefix
TECS

Course Number
1050

Department
Technology, Design & Technical Ed

Course Title
Cosmetology and Barbering Intermediate Theory and Practice

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course advances skills in hair coloring, chemical treatments, anatomy, physiology, and basic electricity. Students receive training in extensions, wigs, and creative styling, emphasizing safety, theory, and hands-on practice to prepare for complex salon services through assessments and technique development.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Special Approval
Instructor Permission

Other Enrollment Recommendations
Students need to go through the Cosmetology application and interview process to be accepted.

No Requirements

Course Learning Objectives

Course Learning Outcomes
1. This course teaches intermediate theory and practical applications related to skin, hair, and nails, including anatomy and physiology of the human body and light therapy. Students work on practical skills to improve haircutting, hair color applications, and hair styling techniques.

TECS1060 - Professional Development and Industry, State Laws, and Specific Continuing Education - 3 - Credits

Course Overview

Course Prefix
TECS

Course Number
1060

Department
Technology, Design & Technical Ed

Course Title
Professional Development and Industry, State Laws, and Specific Continuing Education

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
In this course, students learn about the history and career opportunities in cosmetology. Students learn about the laws of running a business, practice life skills, and understand the importance of keeping a professional workplace which is expected of a cosmetologist/barber.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Registration Restrictions
Admission to the department of Technology, Design and Technical Education

No Requirements

Course Learning Objectives

Course Learning Outcomes
1. Explain the laws and rules for Utah state licensing and malpractice procedures for cosmetology related professionals.
2. Describe and practice the process of taking and passing the state board examinations.
3. Identify the principles of a cover letter, resume, and professional portfolio associated with seeking employment.
4. Apply the importance of beauty, wellness, appearance, and physical presentation.
5. Articulate the importance of communication and client consultations in the salon setting.
6. Explore various options for salon ownership requirements and various compensation methods for salon professionals.
7. Demonstrate competencies necessary for the clinical setting.
8. Demonstrate and learn practical applications while working on manikins.
9. Interpret other theory, practical application, and procedures associated with professional.

TECS1070 - Advanced Training and Skills - 3 - Credits

Course Overview

Course Prefix
TECS

Course Number
1070

Department
Technology, Design & Technical Ed

Course Title
Advanced Training and Skills

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course offers advanced training and education in braiding, hair extensions, wigs, haircutting, hair coloring, and styling. Students work to improve timing and skill level on services performed in the clinical setting. Applications of basic esthetics are covered.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Admission to the department of Technology, Design and Technical Education

No Requirements

Course Learning Objectives

Course Learning Outcomes
1. Demonstrate competencies necessary to advance to the clinical setting.
2. Practice skills gained previously while improving timing and skill level.
3. Demonstrate techniques of braiding, applying hair extensions and wigs.
4. Illustrate skill level and time in applying nail tips, nail wraps, nail art, and other nail enhancements.
5. Illustrate skill level and time in haircutting, hair coloring, and different hair styling techniques.
6. Demonstrate and learn practical applications while working on manikins.

TECS1080 - Esthetics Basics - 2 - Credits

Course Overview

Course Prefix
TECS

Course Number
1080

Department
Technology, Design & Technical Ed

Course Title
Esthetics Basics

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces basic esthetic practices through theory, demonstrations, and hands-on application. Students learn hair removal, facials, skincare, and makeup techniques. Competency is demonstrated through assignments, written tests, and practical skill evaluations to ensure proficiency in cosmetology esthetic services.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Special Approval
Instructor Approval

Other Enrollment Recommendations
Students must complete the Cosmetology application and interview process to be accepted.

Course Learning Objectives

Course Learning Outcomes
- Analyze skin including recognizing and describing various contraindications for facial and hair removal services.
- Explain facial treatments including galvanic, heat lamps, high frequency, facial packs, facial masks, limited aroma therapy, limited exfoliation.

- Demonstrate proper facial services such as cleansing, stimulating, manipulating, exercising, applying oils, antiseptics, clays or masks, and manually extractions, and manual hair removal.
- Describe limited exfoliation applications and techniques to include re-exfoliation, post-exfoliation consultation considerations, and chemical reactions.
- Demonstrate massage techniques for the face and neck and basic facial services.
- Explain and perform the procedures for arching of the eyebrows, and tinting of the eyelashes or eyebrows, perming of the eyelashes and eyebrows.
- Explain and demonstrate correct sanitation.

TECS1090 - Nails Basics - 2 - Credits

Course Overview

Course Prefix
TECS

Course Number
1090

Department
Technology, Design & Technical Ed

Course Title
Nails Basics

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Course introduces essential nail service practices through theory, demonstrations, and hands-on application. Students learn manicures, pedicures, gel polish, nail care, enhancements, and removal techniques. Competency is demonstrated through assignments, written tests, and practical skill evaluations to ensure professional proficiency.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Special Approval
Instructor Permission

Other Enrollment Recommendations
Students need to go through the Cosmetology application and interview process to be accepted.

Course Learning Objectives

Course Learning Outcomes
- Explain and demonstrate correct sanitation procedures for hand and foot nail care.
- Demonstrate proper manicure and pedicure procedures.
- Perform proper UV gel procedures.
- Describe the procedure for applying acrylic and hard gel nail enhancements.

- Perform application and removal of sculptured or artificial nails.
- Demonstrate practical applications while working on course-related content.
- Demonstrate and explain other theory, practical application, and procedures associated with esthetics and nail basics.

TECS2310 - Progressive Training and Skills II - 3 - Credits

Course Overview

Course Prefix
TECS

Course Number
2310

Department
Technology, Design & Technical Ed

Course Title
Progressive Training and Skills II

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course improves students' skills in esthetics and nail services, covering skin, facial techniques, light therapy, nails, nail disorders, and modern lash and brow styles. It emphasizes hands-on practice, technical skills, timing, and confidence for the salon and exam.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Special Approval

Instructor Permission

Other Enrollment Recommendations

Students need to go through the Cosmetology application and interview process to be accepted.

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Demonstrate advanced competencies necessary to progress into a salon setting. Students will be exhibiting essential skill improvement, including timing and technical ability.
2. Demonstrate training with trending nail art applications, training on electric filing, and showcase advanced knowledge of basic manicures and pedicure

techniques.
3. Show skills with eyelash application and express introductory information to advanced lash applications.
4. Perform basic facial techniques and show improvement with advanced facial techniques and manipulations.
5. Perform and improve timing on skills in preparation for Utah State Board testing.

TECS2320 - Progressive Training and Skills III - 3 - Credits

Course Overview

Course Prefix
TECS

Course Number
2320

Department
Technology, Design & Technical Ed

Course Title
Progressive Training and Skills III

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This advanced barbering course builds skills in expert haircutting, shaving, and client care, exploring modern and traditional styles, facial designs, scalp health, and safety. It boosts students' timing, precision, and confidence, which prepares them for real clients and state exams.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Special Approval

Instructor Permission

Other Enrollment Recommendations

TECS2310 PRGRSVE TRAINING & SKILLS II

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Demonstrate and perform pleasing facial shaving designs on various face shapes.
2. Demonstrate and perform once-over and advanced double shave procedures with close shaving techniques.
3. Demonstrate and perform a variety of modern and traditional fade and tapering techniques, for shortcuts and styling.

4. Demonstrate and perform advanced skills and technical ability in pinning, cushioning, and textural styling techniques.
5. Perform and improve timing on skills in preparation for Utah State Board testing.

TECS2510 - Cosmetology Skills Lab - 5 - Credits

Course Overview

Course Prefix
TECS

Course Number
2510

Department
Technology, Design & Technical Ed

Course Title
Cosmetology Skills Lab

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course is presented through lectures, demonstrations, and practice on mannequins and customers. Utilizing hands-on experience, students gain basic concepts used in the Cosmetology field. Professional educators provide classes to further continuing education objectives.

Credit Hours

Credit Hours Min:
5

Contact Hours

Contact Hours Min:
5

Billing Hours

Billing Hours Min:
5

Lecture Hours

Lecture Hours Min:
5

Registration Restrictions
Admission to the department of Technology, Design and Technical Education

No Requirements

Course Learning Objectives

Course Learning Outcomes
1. Lab instruction and practical application of Advanced shampooing, scalp treatments, manicuring, hair cutting, hair-dressing, tinting, bleaching, and facials.
2. Covers State Board practical and theory Review (Mock section for State License).
3. Perform Advanced techniques in, chemical services, facial hairstyling, nails and hair cutting.
4. Designed for students who have not completed required hours for State Licensing.

TECS2900 - Cosmetology/Barbering Clinical I - 3 - Credits

Course Overview

Course Prefix
TECS

Course Number
2900

Department
Technology, Design & Technical Ed

Course Title
Cosmetology/Barbering Clinical I

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
In this course, students begin to provide salon services in the clinical setting. This course provides practical experience and learning. Students perform the services learned in previous courses on clients. This course helps prepare students for building a clientele.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Admission to the department of Technology, Design and Technical Education

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Demonstrate salon processes and etiquette.
2. Communicate effectively with salon guests and coworkers.
3. Demonstrate sanitation procedures necessary for the health & safety of clients and self.
4. Perform cosmetology services on public guests.
5. Demonstrate other theory, practical application, and procedures associated with Cosmetology/Barbering clinical floor.

TECS2910 - Cosmetology/Barbering Clinical II - 3 - Credits

Course Overview

Course Prefix
TECS

Course Number
2910

Department
Technology, Design & Technical Ed

Course Title
Cosmetology/Barbering Clinical II

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides practical experience and learning in a real salon setting. Students perform the services learned in previous courses as they perform a variety of services on clients. This course helps prepare students for building a clientele.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Other Enrollment Recommendations

TECS2900 COSMETOLOGY CLINICAL I

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Demonstrate salon processes and etiquette.
2. Communicate effectively with salon guests and coworkers.
3. Demonstrate sanitation procedures necessary for the health & safety of clients and self.
4. Perform cosmetology services on public guests.
5. Demonstrate other theory, practical application, and procedures associated with Cosmetology/Barbering clinical floor.

TECS2920 - Cosmetology/Barbering Clinical III - 3 - Credits

Course Overview

Course Prefix
TECS

Course Number
2920

Department
Technology, Design & Technical Ed

Course Title
Cosmetology/Barbering Clinical III

Grade Mode
Standard Letter

Repeat Status
NR

Course Description

This course provides practical experience and learning in a real salon setting. Students perform services learned in previous courses as they perform a variety of services on clients. This course helps prepare students for client work and building a clientele.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Other Enrollment Recommendations

TECS2910 COSMETOLOGY CLINICAL II

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Demonstrate salon processes and etiquette.
2. Communicate effectively with salon guests and coworkers.
3. Demonstrate sanitation procedures necessary for the health & safety of clients and self.
4. Perform cosmetology services on public guests.
5. Demonstrate other theory, practical application, and procedures associated with Cosmetology/Barbering clinical floor.

TECS2930 - Cosmetology/Barbering Clinical IV - 3 - Credits

Course Overview

Course Prefix
TECS

Course Number
2930

Department
Technology, Design & Technical Ed

Course Title
Cosmetology/Barbering Clinical IV

Grade Mode
Standard Letter

Repeat Status
NR

Course Description

This course provides practical experience and learning in a real salon setting. Students perform services from previous courses as they perform requested services on clients. This course helps prepare students for client work and building a clientele.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Other Enrollment Recommendations

TECS2920 COSMETOLOGY CLINICAL III

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Demonstrate salon processes and etiquette.
2. Communicate effectively with salon guests and coworkers.
3. Demonstrate sanitation procedures necessary for the health & safety of clients and self.
4. Perform cosmetology services on public guests.
5. Demonstrate other theory, practical application, and procedures associated with Cosmetology/Barbering clinical floor.

TECS2941 - Cosmetology and Barbering Salon Clinical V - 3 - Credits

Course Overview

Course Prefix
TECS

Course Number
2941

Department
Technology, Design & Technical Ed

Course Title
Cosmetology and Barbering Salon Clinical V

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
In this course, students refine the basic core techniques necessary to develop advanced Salon Clinical performance. Timing and correct technical procedures are an essential part of this course to begin preparation for the Cosmetology/Barber State Board.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Learn, practice, and demonstrate all phases of aligned Cosmetology/Barbering state curriculum concepts on live clientele.
2. Practice and demonstrate work ethics, etiquette, and proper communication skills with all salon guests and teammates.
3. Demonstrate proper safety and sanitization practices to promote the safety of all individuals within the work area.

TECS2952 - Cosmetology/Barbering Salon Clinical VI - 3 - Credits

Course Overview

Course Prefix
TECS

Course Number
2952

Department
Technology, Design & Technical Ed

Course Title
Cosmetology/Barbering Salon Clinical VI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
In this course, students refine the basic core techniques necessary to develop advanced Salon Clinical performance. Timing and correct technical procedures are an essential part of this course to begin preparation for the Cosmetology/Barber State Board.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Other Enrollment Recommendations

TECS2941 COSMETOLOGY SALON CLINICAL V

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Learn, practice, and demonstrate all phases of aligned Cosmetology/Barbering state curriculum concepts on live clientele.
2. Practice and demonstrate work ethics, etiquette, and proper communication skills with all salon guests and teammates.
3. Demonstrate proper safety and sanitization practices to promote the safety of all individuals within the work area.

TECT1050 - Career and Workplace Relations - 1 - Credits

Course Overview

Course Prefix
TECT

Course Number
1050

Department
Technology, Design & Technical Ed

Course Title
Career and Workplace Relations

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Career and Workplace Relations is designed to help students gain insight into how their skills and professionalism might enhance relationships between management and coworkers. Instruction includes employment skills such as communication, critical thinking, professional etiquette, team dynamics, and more.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

No Requirements

TECT1100 - Introduction to Networking - 1 - Credits

Course Overview

Course Prefix
TECT

Course Number
1100

Department
Technology, Design & Technical Ed

Course Title
Introduction to Networking

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Introduction to Networking provides foundational-level instruction on the concepts, models, services, settings, protocols, topologies, and devices used in computer networks. Students explore the Open Systems Interconnection (OSI) and Transmission Control Protocol/Internet Protocol (TCP/IP) models.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

No Requirements

TECT1200 - A+ Core 1 - 3 - Credits

Course Overview

Course Prefix
TECT

Course Number
1200

Department
Technology, Design & Technical Ed

Course Title
A+ Core 1

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
A+ Core 1 prepares students to be successful computer technicians, capable of installing, maintaining, troubleshooting, optimizing, and securing desktop computers, laptops, mobile devices, and printers. This course aligns with the objectives of the CompTIA A+ Core 1 certification exam.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Corequisite

Type
Corequisite

Required

Enroll in the following Courses:

- TECT1210 - A+ Core 2

TECT1210 - A+ Core 2 - 3 - Credits

Course Overview

Course Prefix
TECT

Course Number
1210

Department
Technology, Design & Technical Ed

Course Title
A+ Core 2

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
A+ Core 2 is a follow up to A+ Core1 and provides further instruction on installation, configuration, maintenance, and security of various common operating systems and platforms. This course aligns with the objectives of the CompTIA A+ Core 2 certification exam.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Corequisite

Type
Corequisite

Required

Enroll in the following Courses:

- TECT1200 - A+ Core 1

TECT1300 - Linux Foundations - 2 - Credits

Course Overview

Course Prefix
TECT

Course Number
1300

Department
Technology, Design & Technical Ed

Course Title
Linux Foundations

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Linux Foundations focuses on the installation, configuration, and process management of a Linux workstation. Students explore shell programming, file system management, user accounts, access and permissions, and managing multiple concurrent processes to achieve higher utilization.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

No Requirements

TECT1310 - Website Design - 3 - Credits

Course Overview

Course Prefix
TECT

Course Number
1310

Department
Technology, Design & Technical Ed

Course Title
Website Design

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course focuses on design and construction of Web pages using HTML, Cascading Style Sheets, and JavaScript. Students have hands-on experience creating and publishing Web pages. This course also focuses on basics of hosting, publishing, promoting, and maintaining websites.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

TECT1340 - Digital Video Production - 3 - Credits

Course Overview

Course Prefix
TECT

Course Number
1340

Department
Technology, Design & Technical Ed

Course Title
Digital Video Production

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers fundamentals of digital video production, including recording, editing, and uploading of video using current video-editing programs and techniques. Students have hands-on experience with projects to help them apply current digital video production concepts.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

TECT1350 - Interactive Web Design - 3 - Credits

Course Overview

Course Prefix
TECT

Course Number
1350

Department
Technology, Design & Technical Ed

Course Title
Interactive Web Design

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course further enhances students' knowledge of website design using interactive elements through programming using HTML5, CSS CSS, Javascript, and/or other Web programming languages. Students gain hands-on experience developing and incorporating graphics, interactivity, sound, and video.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

TECT1400 - Introduction to Cloud - 2 - Credits

Course Overview

Course Prefix
TECT

Course Number
1400

Department
Technology, Design & Technical Ed

Course Title
Introduction to Cloud

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Introduction to Cloud provides instruction on core cloud computing concepts, services, and solutions as well as foundational knowledge from a business value perspective of the benefits and considerations for cloud computing implementation. Included is an overview of popular cloud platforms.

Credit Hours

Credit Hours Min:
2

Contact Hours

Contact Hours Min:
2

Billing Hours

Billing Hours Min:
2

Lecture Hours

Lecture Hours Min:
2

No Requirements

TECT1500 - Introduction to Scripting - 1 - Credits

Course Overview

Course Prefix
TECT

Course Number
1500

Department
Technology, Design & Technical Ed

Course Title
Introduction to Scripting

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Introduction to Scripting provides instruction on basic scripting concepts. Students are introduced to scripting fundamentals to automate tasks that would otherwise be performed manually. Students explore the practical use and management of scripts to perform system administration functions.

Credit Hours

Credit Hours Min:
1

Contact Hours

Contact Hours Min:
1

Billing Hours

Billing Hours Min:
1

Lecture Hours

Lecture Hours Min:
1

No Requirements

TECT2100 - Computer Networks - 4 - Credits

Course Overview

Course Prefix
TECT

Course Number
2100

Department
Technology, Design & Technical Ed

Course Title
Computer Networks

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Computer Networks provides instruction on the installation, configuration, management, and troubleshooting of common components of modern computer networks. This course prepares candidates to support networks across multiple platforms and aligns with the objectives of the CompTIA Network+ certification exam.

Credit Hours

Credit Hours
Min:
4

Contact Hours

Contact Hours
Min:
4

Billing Hours

Billing Hours
Min:
4

Lecture Hours

Lecture Hours
Min:
4

No Requirements

TECT2200 - Security + - 4 - Credits

Course Overview

Course Prefix
TECT

Course Number
2200

Department
Technology, Design & Technical Ed

Course Title
Security +

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Security+ provides instruction on assessing the security posture of enterprise environments and implementing appropriate security solutions. Instruction is given to identify, analyze, and respond to events and incidents. This course aligns with the objectives of the CompTIA Security+ certification exam.

Credit Hours

Credit Hours
Min:
4

Contact Hours

Contact Hours
Min:
4

Billing Hours

Billing Hours
Min:
4

Lecture Hours

Lecture Hours
Min:
4

No Requirements

TECT2300 - Linux + - 3 - Credits

Course Overview

Course Prefix
TECT

Course Number
2300

Department
Technology, Design & Technical Ed

Course Title
Linux +

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Linux+ provides instructions on how to install, configure, manage, and maintain a Linux server. Topics include: SSH, VNC, Webmin, NIS, and LDAP. Students learn to install, configure, and administer a Linux server. This course aligns with the CompTIA Linux+ objectives.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

TECT2441 - Photoshop - 3 - Credits

Course Overview

Course Prefix
TECT

Course Number
2441

Department
Technology, Design & Technical Ed

Course Title
Photoshop

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course is designed to teach the use of Photoshop. Students gain hands-on experience from basic touch-up and editing to advance editing and creation of graphics for various uses including images for the websites.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

TECT2500 - Web Business - 3 - Credits

Course Overview

Course Prefix
TECT

Course Number
2500

Department
Technology, Design & Technical Ed

Course Title
Web Business

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course is an introduction to web-based business. Students learn business concepts relating to online and worldwide e-commerce, marketing concepts, design strategies, and technical issues as they relate to web-based businesses are discussed.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

TECT2977 - Internship - 1 - 3 Credits

Course Overview

Course Prefix
TECT

Course Number
2977

Department
Technology, Design & Technical Ed

Course Title
Internship

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides supervised on-the-job training in business, computers, and information systems areas. Students meet with the instructor/coordinator periodically during the course to determine and evaluate learning objectives, hours to be worked, and credit agreements.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

No Requirements

TEDG1010 - Beginning Graphic Design - 3 - Credits

Course Overview

Course Prefix
TEDG

Course Number
1010

Department
Technology, Design & Technical Ed

Course Title
Beginning Graphic Design

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students establish foundations in design principles, photography, Photoshop, Illustrator, and InDesign. This course introduces how to operate current industry software and analyze design. Students in this course are able to perform basic functions in graphic design software.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Demonstrate excellent use of universally acknowledged design principles.
2. Develop skills in Adobe's Photoshop, Illustrator, and InDesign.
3. Develop presentation skills.
4. Present projects in a class setting for critique and feedback.

TEDG1110 - Intermediate Graphic Design - 4 - Credits

Course Overview

Course Prefix
TEDG

Course Number
1110

Department
Technology, Design & Technical Ed

Course Title
Intermediate Graphic Design

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students practice Photoshop, Illustrator, and InDesign by completing portfolio-quality projects. Students learn how to be successful in industry-leading graphic design applications and tools. Students who complete this course are able to use a current industry computer application for graphic manipulation.

Credit Hours

Credit Hours
Min:
4

Contact Hours

Contact Hours
Min:
4

Billing Hours

Billing Hours
Min:
4

Lecture Hours

Lecture Hours
Min:
4

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Use Adobe's Photoshop, Illustrator, and InDesign software.
2. Create a variety of portfolio projects.
3. Manage multiple projects and calculate the time it takes to complete projects to make deadlines.
4. Combine images and graphics.

TEDG1210 - Advanced Graphic Design - 4 - Credits

Course Overview

Course Prefix
TEDG

Course Number
1210

Department
Technology, Design & Technical Ed

Course Title
Advanced Graphic Design

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students learn branding an imaginary business from the creation of collateral to marketing. Students who complete this course are able to perform fundamental techniques and principles of a variety of unique special effects associated with the enhancement of digital images.

Credit Hours

Credit Hours
Min:
4

Contact Hours

Contact Hours
Min:
4

Billing Hours

Billing Hours
Min:
4

Lecture Hours

Lecture Hours
Min:
4

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Demonstrate brainstorming techniques for developing a business.
2. Create printed and digital collateral needed for the business' success.
3. Produce high quality images from a digital file.
4. Determine what software is best suited for each piece of designed collateral.

TEDG1220 - Motion Design - 4 - Credits

Course Overview

Course Prefix
TEDG

Course Number
1220

Department
Technology, Design & Technical Ed

Course Title
Motion Design

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students learn the power of motion in visual communication through video production, animation, and motion graphics. Students who complete this course are able to work with the current industry standard 3D modeling, rendering, and animation software.

Credit Hours

Credit Hours
Min:
4

Contact Hours

Contact Hours
Min:
4

Billing Hours

Billing Hours
Min:
4

Lecture Hours

Lecture Hours
Min:
4

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Plan a short video subject by creating a script, storyboards, and shot list.
2. Shoot, edit, and produce video and export for viewing.
3. Create eye-catching animations using Adobe After Effects and Animate.

TEDG1230 - Interactive Design - 4 - Credits

Course Overview

Course Prefix
TEDG

Course Number
1230

Department
Technology, Design & Technical Ed

Course Title
Interactive Design

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces basics of HTML and covers commonly used tags, forms, and how to embed/format media. Students who complete this course are able to operate current industry web page design software to develop and publish HTML web pages.

Credit Hours

Credit Hours
Min:
4

Contact Hours

Contact Hours
Min:
4

Billing Hours

Billing Hours
Min:
4

Lecture Hours

Lecture Hours
Min:
4

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Create an interactive app prototype using Adobe XD.
2. Code with HTML, and CSS to create an interactive website.
3. Use code, develop a design that works on multiple devices.
4. Create a web-based portfolio showcasing their projects.
5. Create web pages with web design graphic principles.

TEDG1300 - Audio/Video Editing - 3 - Credits

Course Overview

Course Prefix
TEDG

Course Number
1300

Department
Technology, Design & Technical Ed

Course Title
Audio/Video Editing

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course incorporates industry-standard software that teaches students skills to effectively utilize and create video production media. This course introduces multi-track audio editing to deliver polished audio and video to be introduced into video production workflows.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Capture audio and video for complete video productions.
2. Utilize industry standard audio and video software editing applications.
3. Exhibit industry competency in the area of audio recording, mixing and restoring.
4. Identify and discuss industry standard software to create edited audio that can be introduced into other video production software.

TEDG1320 - Image Editing - 3 - Credits

Course Overview

Course Prefix
TEDG

Course Number
1320

Department
Technology, Design & Technical Ed

Course Title
Image Editing

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students develop skills in industry-leading graphic design applications and tools for graphic manipulation. Students gain the knowledge and skills needed to master image manipulation, photographic retouching, advanced masking, and composition.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Utilize industry applications for computer graphic manipulation.
2. Combine multiple images into a single composition that is of professional quality.
3. Perform photographic retouching that restores or improves an image back to pristine quality.
4. Demonstrate the use of advanced masking techniques.

TEDG1400 - Social Media and Marketing - 3 - Credits

Course Overview

Course Prefix
TEDG

Course Number
1400

Department
Technology, Design & Technical Ed

Course Title
Social Media and Marketing

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
In this course, students will learn organic growth and engagement with followers on social media using free and paid tools. This course also explains the role of social media marketers in the marketing team.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Discuss keywording and metadata strategies to improve SEO and SMO performance.
2. Apply website optimization for effective SEO.
3. Explain how SEO and SMO play a key part in your Social Media Strategy.
4. Discuss the importance of major Social Media platforms and create personal accounts for each platform.
5. Engage your audience to determine what they like, don't like, optimal posting times, etc.
6. Use advertising tools: Facebook ad, Instagram ad, Twitter ad, Pinterest ad, LinkedIn ad, Google ads.
7. Combine analytics and content fundamentals to create targeted ads.
8. Use Visual Brand Storytelling to turn concepts to content.

9. Optimize social media platforms to create better performance and seamlessly work together.
10. Generate ideas for new professional-level content.

TEDG1410 - Illustration and Animation Fundamentals - 4 - Credits

Course Overview

Course Prefix
TEDG

Course Number
1410

Department
Technology, Design & Technical Ed

Course Title
Illustration and Animation Fundamentals

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course includes history, production, design, storyboarding, and character animation. It emphasizes creating movement and expression utilizing traditional or electronically generated image sequences. Students learn animation techniques to design 2D and 3D animation sequences.

Credit Hours

Credit Hours Min:
4

Contact Hours

Contact Hours Min:
4

Billing Hours

Billing Hours Min:
4

Lecture Hours

Lecture Hours Min:
4

No Requirements

Course Learning Objectives

Course Learning Outcomes
Course Learning Outcomes:

1. Identify the 12 principles of animation.

2. Calculate and apply appropriate timing and sound effects.

3. Create accurate and aesthetically appealing basic animation.

4. Describe the characteristics of well-designed and executed animation.

5. Relate some knowledge of the history of animation to a project.

6. Assess and critique past and current animation trends.

7. Demonstrate progress in basic illustration and animation skills.

8. Critically analyze personal creative work and the work of others.

TEDG1420 - Web Essentials - 3 - Credits

Course Overview

Course Prefix
TEDG

Course Number
1420

Department
Technology, Design & Technical Ed

Course Title
Web Essentials

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides the fundamentals necessary to plan, design, develop, deploy, and critique a website that includes images, sound, video, forms, and separates content from presentation. Focuses on the fundamentals of web programming languages.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes
Course Learning Outcomes:

1. Examine various ways to build an accessible web page.

2. Demonstrate knowledge of color wheel concepts and effective use of color on a website.

3. Compare functional and usable design principles, and explain how usability can affect a website's success.

4. Explain and apply the primary steps of the website planning process.

5. Compare website creation using an online site builder, an offline site builder and a content management system (CMS).

TEDG1430 - UX Design - 4 - Credits

Course Overview

Course Prefix
TEDG

Course Number
1430

Department
Technology, Design & Technical Ed

Course Title
UX Design

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course teaches principles of interface design for the Web. Includes discussion of usability and information architecture to solve client needs. Includes learning HTML tags and CSS styling, image preparation for the Web, and industry software to create web-ready files.

Credit Hours

Credit Hours
Min:
4

Contact Hours

Contact Hours
Min:
4

Billing Hours

Billing Hours
Min:
4

Lecture Hours

Lecture Hours
Min:
4

Course Learning Objectives

Course Learning Outcomes

1. Apply human interface guidelines in real world applications.
2. Research user interactions and usability to assist in creating a prototype.
3. Create functioning prototypes that are ready for user testing.
4. Conduct user tests for usability of designed prototypes.
5. Prepare files to give to developers for final implementation.

TEDG1500 - Professional Development - 4 - Credits

Course Overview

Course Prefix
TEDG

Course Number
1500

Department
Technology, Design & Technical Ed

Course Title
Professional Development

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
In this course students learn soft skills including managing a creative business, building portfolios, setting up a freelance business, working as a team, and marketing themselves as a graphic designer.

Credit Hours

Credit Hours
Min:
4

Contact Hours

Contact Hours
Min:
4

Billing Hours

Billing Hours
Min:
4

Lecture Hours

Lecture Hours
Min:
4

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Use soft skills to create and manage a creative business.
2. Create portfolios of projects that showcase their new skills.
3. Work as small teams to produce larger scale projects.
4. Demonstrate high-level application of appropriate digital publishing software.
5. Practice skills of how to market themselves as a graphic designer.

TEDM1010 - Introduction to Marketing - 2 - Credits

Course Overview

Course Prefix
TEDM

Course Number
1010

Department
Technology, Design & Technical Ed

Course Title
Introduction to Marketing

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
The course covers key digital marketing terms, marketing research, buyer personas, positioning, buyer behaviors, brand management, product management, and pricing.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

No Requirements

Course Learning Objectives

Course Learning Outcomes
Course Learning Outcomes:

1. Demonstrate fundamental marketing skills needed to pursue an education in digital marketing.

2. Display an understanding of marketing key terms and definitions.

3. Assess marketing strategies through industry case studies.

4. Implement marketing best practices and strategies through hands-on business applications.

5. Present marketing plans based on industry best practices.

TEDM1020 - Marketing Design - 2 - Credits

Course Overview

Course Prefix
TEDM

Course Number
1020

Department
Technology, Design & Technical Ed

Course Title
Marketing Design

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
The course covers marketing design principles, design best practices, and popular graphic design platforms.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

No Requirements

Course Learning Objectives

Course Learning Outcomes
Course Learning Outcomes:

1. Demonstrate knowledge of graphic design key terminology and definitions.

2. Explain why marketing design principles are an important part of a company's marketing strategy.

3. Display an understanding of how design affects businesses marketing efforts.

4. Break down the differences between good and bad marketing content.

5. Create marketing content on today's most popular platforms.

TEDM1030 - Content Marketing and Marketing Analytics - 4 - Credits

Course Overview

Course Prefix
TEDM

Course Number
1030

Department
Technology, Design & Technical Ed

Course Title
Content Marketing and Marketing Analytics

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
The course covers content marketing best practices, content marketing strategy, creating marketing content, website design, website building, website management, tracking marketing analytics, and measuring and reporting on marketing efforts.

Credit Hours

Credit Hours Min:
4

Contact Hours

Contact Hours Min:
4

Billing Hours

Billing Hours Min:
4

Lecture Hours

Lecture Hours Min:
4

No Requirements

Course Learning Objectives

Course Learning Outcomes
Course Learning Outcomes:

1. Explain why content marketing is an important part of a company's overall marketing strategy.

2. Demonstrate knowledge of content marketing key terminology and definitions.

3. Analyze when and how to use content marketing to optimize a customer buyer's journey.

4. Execute content marketing best practices and strategies through content creation.

5. Demonstrate proficiency in using content marketing platforms and tools.

6. Build content promotion strategies for businesses.

7. Create and manage a personal website or portfolio.

8. Analyze marketing data to make informed future business decisions.

9. Demonstrate proficiency in using leading marketing analytics tools.

TEDM1040 - Email Marketing - 2 - Credits

Course Overview

Course Prefix
TEDM

Course Number
1040

Department
Technology, Design & Technical Ed

Course Title
Email Marketing

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
The course covers email marketing best practices, email marketing strategy, creating emails, lead generation, creating landing pages, tracking email marketing analytics, and email marketing automation.

Credit Hours

Credit Hours Min:
2

Contact Hours

Contact Hours Min:
2

Billing Hours

Billing Hours Min:
2

Lecture Hours

Lecture Hours Min:
2

No Requirements

Course Learning Objectives

Course Learning Outcomes

Course Learning Outcomes:

1. Explain why email marketing is an important part of a company's overall marketing strategy.

2. Demonstrate knowledge of email marketing key terminology and definitions.

3. Analyze when and how to use email marketing to maximize their customer experience and drive more website visits, leads and sales.

4. Execute email marketing best practices and strategies through hands-on projects.

5. Create a variety of different email marketing content.

6. Demonstrate proficiency in using email marketing tools and platforms.

7. Execute and design email marketing automation workflows for contact management.

TEDM1050 - Search Engine Optimization - 2 - Credits

Course Overview

Course Prefix
TEDM

Course Number
1050

Department
Technology, Design & Technical Ed

Course Title
Search Engine Optimization

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
The course covers search engine optimization (SEO) best practices, on-site SEO, off-site SEO, technical SEO, SEO audits, and today's leading SEO tools.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

No Requirements

Course Learning Objectives

Course Learning Outcomes

Course Learning Outcomes:

1. Explain why search engine optimization is an essential part of a company's overall marketing strategy.

2. Demonstrate knowledge of search engine optimization key terminology and definitions.

3. Analyze when and how to use search engine optimization to increase website rankings.

4. Execute search engine optimization best practices and strategies through hands-on projects.

5. Manage on-site, off-site, and technical search engine optimization on their personal website/portfolio.

6. Perform and present website audits for businesses.

7. Demonstrate proficiency in using search engine marketing tools.

TEDM1060 - Digital Advertising - 3 - Credits

Course Overview

Course Prefix
TEDM

Course Number
1060

Department
Technology, Design & Technical Ed

Course Title
Digital Advertising

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
The course covers digital advertising best practices, bidding strategies, search ads, display ads, video ads, digital ads optimization analyzing ad performance, and current leading digital advertising platforms.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes

Course Learning Outcomes:

1. Explain why digital advertising is an important part of a company's overall marketing strategy.

2. Demonstrate knowledge of digital advertising key terminology and definitions.

3. Analyze when and how to use digital advertising to drive website traffic, leads, and sales.

4. Execute digital advertising best practices and strategies through hands-on projects.

5. Create digital ads on current leading advertising platforms.

6. Break down digital advertising results and key metrics for improving results.

7. Demonstrate proficiency in using digital advertising tools.

TEDM1070 - Social Media Marketing - 3 - Credits

Course Overview

Course Prefix
TEDM

Course Number
1070

Department
Technology, Design & Technical Ed

Course Title
Social Media Marketing

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers social media branding, social media strategy, social media management, paid social media marketing, influencer marketing, social media tools, and social media analytics.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes
Course Learning Outcomes:

1. Explain why social media marketing is an important part of a company's overall marketing strategy.

2. Demonstrate knowledge of social media marketing key terminology and definitions.

3. Analyze when and how to use social media marketing to maximize return on investment.

4. Execute social media marketing best practices for today's most popular platforms.

5. Demonstrate proficiency in using social media marketing platforms and tools.

6. Create and optimize social media ad campaigns.

7. Break down and report on social media analytics.

TEDM1080 - Advanced Digital Marketing - 2 - Credits

Course Overview

Course Prefix
TEDM

Course Number
1080

Department
Technology, Design & Technical Ed

Course Title
Advanced Digital Marketing

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
The course covers advanced marketing strategies for content marketing, email marketing, search engine optimization, conversion rate optimization, digital advertising, social media marketing, or marketing analytics.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

No Requirements

Course Learning Objectives

Course Learning Outcomes

Course Learning Outcomes:

1. Demonstrate knowledge of advanced digital marketing skills needed for the jobs of today.

2. Research and present new digital marketing tools, skills, or best practices.

3. Implement ways to stay up-to-date in chosen digital marketing specialty.

4. Create a digital marketing resume with the skills and knowledge learned in the program.

5. Complete mock interviews for specific digital marketing jobs.

TEDR1000 - Technical Drafting - 4 - Credits

Course Overview

Course Prefix
TEDR

Course Number
1000

Department
Technology, Design & Technical Ed

Course Title
Technical Drafting

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course is designed to help students develop and build familiarity with fundamental drafting concepts. Discussion concepts include preparing industry-standard documents using drafting software.

Credit Hours

Credit Hours
Min:
4

Contact Hours

Contact Hours
Min:
4

Billing Hours

Billing Hours
Min:
4

Lecture Hours

Lecture Hours
Min:
4

Course Learning Objectives

Course Learning Outcomes

1. Explore various design fields including architecture, mechanical design, and/or civil design.
2. Use sketching to communicate designs.
3. Use a CAD system as a drafting tool.
4. Develop, modify, and plot CAD drawings.

TEDR1003 - Career and Workplace Relations - 1 - Credits

Course Overview

Course Prefix
TEDR

Course Number
1003

Department
Technology, Design & Technical Ed

Course Title
Career and Workplace Relations

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course helps students understand how their skills and professionalism influence workplace relationships. Instruction covers key employment skills, including communication, critical thinking, professional etiquette, and effective team dynamics, preparing students to work successfully with management and coworkers.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Course Learning Objectives

Course Learning Outcomes
- Identify personal and transferable skills, competencies, and/or abilities.
- Create an industry specific resume, cover letter, thank you letter, reference list, and online presence.
- Demonstrate effective interviewing skills.
- Submit an application for an industry specific position.
- Demonstrate effective use of job search websites.

TEDR1010 - Advanced Technical Drafting - 3 - Credits

Course Overview

Course Prefix
TEDR

Course Number
1010

Department
Technology, Design & Technical Ed

Course Title
Advanced Technical Drafting

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course explores computer-aided drafting (CAD) to prepare and iterate advanced industry-standard documents. Using these documents, students then create a physical 3D model.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Other Enrollment Recommendations
TEDR1000 TECHNICAL DRAFTING

Course Learning Objectives

Course Learning Outcomes
1. Conceptualize and sketch architectural and mechanical designs.
2. Use a CAD system as an advanced drafting tool.
3. Practice iterating architectural and mechanical designs.
4. Create a physical 3D model.

TEDR1015 - Applied Technical Math - 1 - Credits

Course Overview

Course Prefix
TEDR

Course Number
1015

Department
Technology, Design & Technical Ed

Course Title
Applied Technical Math

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course includes introductions to geometry, algebra, and trigonometry as they apply to the drafting and design industry standards. Students practice solving basic geometric, algebraic, and trigonometric equations.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Course Learning Objectives

Course Learning Outcomes

- Solve equations using basic geometry.
- Solve equations using basic algebra.
- Solve equations using basic trigonometry.

TEDR1100 - Residential Drafting - 3 - Credits

Course Overview

Course Prefix
TEDR

Course Number
1100

Department
Technology, Design & Technical Ed

Course Title
Residential Drafting

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces residential design and explores emerging CAD tools for designing a code-compliant home. Students learn about residential materials and construction methods to prepare construction documents that align with industry standards.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Course Learning Objectives

Course Learning Outcomes

1. Define terminology and processes related to residential design and construction.
2. Describe the function of architectural drawings.
3. Explore form, function, and sustainability in design and construction.
4. Identify areas for review and iteration through redlining.
5. Create a set of construction documents.
6. Explain the need for and apply the ADA (Americans with Disabilities Act) in design.

TEDR1110 - Introduction to Building Information Modeling - 3 - Credits

Course Overview

Course Prefix
TEDR

Course Number
1110

Department
Technology, Design & Technical Ed

Course Title
Introduction to Building Information Modeling

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course teaches 3D architectural tools to explore Building Information Modeling (BIM). Students demonstrate their learning of architectural drafting skills, including architectural detailing, and methods of construction, to prepare architectural documents that align with industry standards.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Course Learning Objectives

Course Learning Outcomes
1. Quantify model information.
2. Explain the importance and purpose of BIM.
3. Create architectural documents.
4. Use 3D modeling to communicate design intent.

TEDR1130 - Commercial Drafting - 3 - Credits

Course Overview

Course Prefix
TEDR

Course Number
1130

Department
Technology, Design & Technical Ed

Course Title
Commercial Drafting

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces 3D parametric CAD for commercial and structural design, covering core tools, linked architectural–structural workflows, and fundamentals of BIM (Building Information Modeling), including levels, grids, columns, walls, foundations, reinforcement, beams, and framing systems.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Course Learning Objectives

Course Learning Outcomes
- Demonstrate basic drawing and/or editing tools
- Identify levels and grids
- Create the necessary views
- Link an architectural model to a structural project
- Adding structural columns and/or walls
- Adding foundations and/or structural slabs
- Create structural reinforcement
- Create beams and framing systems
- Create construction documents
- Annotate construction documents
- Create detailing

- Create scheduling

TEDR1200 - Parametric Solid Modeling - 3 - Credits

Course Overview

Course Prefix
TEDR

Course Number
1200

Department
Technology, Design & Technical Ed

Course Title
Parametric Solid Modeling

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course explores parametric solid modeling, a process of feature and dimension driven design, for the creation of basic models. Students learn about model/drawing association, best modeling practices, and industry standards.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Course Learning Objectives

Course Learning Outcomes

1. Use commands and modeling strategies to create solid model parts and assemblies.
2. Define terminology and processes related to parametric modeling.
3. Develop drawings from created models.
4. Interpret engineering design intent.
5. Identify areas for review and iteration through redlining.

TEDR1220 - Production Drafting - 4 - Credits

Course Overview

Course Prefix
TEDR

Course Number
1220

Department
Technology, Design & Technical Ed

Course Title
Production Drafting

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course makes use of CAD to create industry level production working drawings. Students learn and use the latest American Society of Mechanical Engineers (ASME) Y14.5 standards for Geometric Dimensioning & Tolerancing (GD&T).

Credit Hours

Credit Hours
Min:
4

Contact Hours

Contact Hours
Min:
4

Billing Hours

Billing Hours
Min:
4

Lecture Hours

Lecture Hours
Min:
4

Course Learning Objectives

Course Learning Outcomes

- Apply general tolerancing.
- Identify GD&T symbols.
- Define GD&T terms.
- Establish datums, material conditions, and boundaries.
- Recognize geometric characteristics.

TEDR1300 - Civil Drafting - 3 - Credits

Course Overview

Course Prefix
TEDR

Course Number
1300

Department
Technology, Design & Technical Ed

Course Title
Civil Drafting

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course teaches fundamental civil drafting skills for land development. Students learn basic civil engineering and surveying concepts, manage project data, work with points and surfaces, model corridors, create parcels, perform grading and volume calculations, and design pipe networks.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Course Learning Objectives

Course Learning Outcomes

1. Create and edit parcels and print parcel reports.
2. Create points and point groups and work with survey figures.
3. Create and manage styles and label styles.
4. Create, edit, view, and analyze surfaces.
5. Create and edit alignments.
6. Create data shortcuts.
7. Create sites, profiles, and cross-sections.
8. Create assemblies, corridors, and intersections.
9. Create grading solutions.
10. Create gravity fed and pressure pipe networks.
11. Perform quantity takeoff and volume calculations.
12. Use plan production tools to create plan and profile sheets.

TEDR1500 - Construction Site Planning - 2 - Credits

Course Overview

Course Prefix
TEDR

Course Number
1500

Department
Technology, Design & Technical Ed

Course Title
Construction Site Planning

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides the basic skills of interpreting, drawing, and utilizing recorded property descriptions while focusing on understanding how elements such as grade, easements, and setbacks contribute to residential design.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Course Learning Objectives

Course Learning Outcomes

- List the different methods and classifications for property descriptions.
- Interpret recorded property descriptions.
- Identify the required codes and descriptions necessary for construction approval.
- Create a complete residential site plan.

TEDR1510 - Construction Materials, Methods, and Design - 3 - Credits

Course Overview

Course Prefix
TEDR

Course Number
1510

Department
Technology, Design & Technical Ed

Course Title
Construction Materials, Methods, and Design

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers the use of different fasteners, specific carpentry tools, blueprint interpretation, material estimation, basic floor construction, wall building with windows and doors, gable and hip roof systems, calculating stair riser and tread lengths, and cutting stair stringers.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Course Learning Objectives

Course Learning Outcomes

- Describes building materials used in construction work.
- Identify hand tool and power tool operations, with care and maintenance.
- Define techniques for reading and using construction drawings and specifications.
- Model procedures for framing floor, wall, roof and stair systems and proper installation of doors and windows.
- Define the concept of the building envelope and its components.

TEDR1520 - Advanced Design Concepts - 3 - Credits

Course Overview

Course Prefix
TEDR

Course Number
1520

Department
Technology, Design & Technical Ed

Course Title
Advanced Design Concepts

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers interior and exterior architectural model design. It explores 3D model navigation, material and space management, building elements, and lighting. It also includes advanced 3D software, rendering, and physical model creation with laser cutting and 3D printing.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Course Learning Objectives

Course Learning Outcomes

- Create advanced plans for interior finishing and planning.
- Design stairs and railings identifying the code requirements between residential and commercial.
- Develop building laser cut and 3D printed models.

TEDR1530 - Design for Manufacturing - 3 - Credits

Course Overview

Course Prefix
TEDR

Course Number
1530

Department
Technology, Design & Technical Ed

Course Title
Design for Manufacturing

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course comprehensively surveys manufacturing methods, including additive, subtractive, and more. It explores different techniques used in modern manufacturing processes, explains their advantages and limitations, and provides insight into selecting the suitable method for specific design and production needs.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Course Learning Objectives

Course Learning Outcomes
- Analyze the various methods of manufacturing.
- Design projects specifically for the different types of manufacturing.
- Discuss the materials properties that are suitable for products.

TEDR1540 - Manufacturing Principles - 2 - Credits

Course Overview

Course Prefix
TEDR

Course Number
1540

Department
Technology, Design & Technical Ed

Course Title
Manufacturing Principles

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course teaches manufacturing principles, materials, and essential fabrication elements. It explores fundamental manufacturing techniques, materials selection, and fabrication processes. Students learn how to apply these principles to create functional and efficient products through hands-on projects and practical exercises.

Credit Hours

Credit Hours Min:
2

Contact Hours

Contact Hours Min:
2

Billing Hours

Billing Hours Min:
2

Lecture Hours

Lecture Hours Min:
2

Course Learning Objectives

Course Learning Outcomes
- Create a basic construction schematic for a project that will be constructed in-class.
- Analyze and generate a build list of essential items for the construction of projects.
- Utilize hand and power tools to construct projects as part of a team.

TEDR2200 - Advanced Solid Modeling - 3 - Credits

Course Overview

Course Prefix
TEDR

Course Number
2200

Department
Technology, Design & Technical Ed

Course Title
Advanced Solid Modeling

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course explores parametric modeling techniques for creating complex models and assemblies. Students learn about advanced tools and design methods.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Course Learning Objectives

Course Learning Outcomes

- Create multi-body parts.
- Develop sheet metal parts and drawings.
- Use 3D sketches to model parts and assemblies.
- Apply surface drafting techniques.
- Use tables to formulate equations for manual calculations.
- Create equations, global variables, and configurations to design parametric models

TEDR2800 - Capstone Project - 3 - Credits

Course Overview

Course Prefix
TEDR

Course Number
2800

Department
Technology, Design & Technical Ed

Course Title
Capstone Project

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course applies program-acquired skills and knowledge through a comprehensive student defined project, culminating in a practical demonstration of expertise in drafting. Students navigate project management, integrating analysis and iteration.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Course Learning Objectives

Course Learning Outcomes

- Develop a project scope.
- Establish clear and achievable objectives.
- Schedule a workflow.
- Develop quality, professional-level drafts that align with objectives.
- Manage project milestones professionally.
- Present completed project.

TEDT1010 - Introduction to Diesel Technology - 2 - Credits

Course Overview

Course Prefix
TEDT

Course Number
1010

Department
Technology, Design & Technical Ed

Course Title
Introduction to Diesel Technology

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides students with an introduction to Heavy-Duty commercial vehicles, including available careers and the skills and certifications required. Students receive instruction in safety, personal protection equipment, and the use of basic tools and shop equipment.

Credit Hours

Credit Hours Min:
2

Contact Hours

Contact Hours Min:
2

Billing Hours

Billing Hours Min:
2

Lecture Hours

Lecture Hours Min:
2

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Demonstrate a safety-oriented mindset and always ensure a safe working environment.
2. Demonstrate the proper use of the tools and equipment needed to work in the diesel industry.
3. Demonstrate the ability to measure, identify, and repair fasteners and hoses related to the diesel industry.

TEDT1100 - Electrical I - 4 - Credits

Course Overview

Course Prefix
TEDT

Course Number
1100

Department
Technology, Design & Technical Ed

Course Title
Electrical I

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides theory and hands-on instruction on the principles of electricity, essential components, sensors, circuits, wiring schematics, and multi-meters.

Credit Hours

Credit Hours Min:
4

Contact Hours

Contact Hours Min:
4

Billing Hours

Billing Hours Min:
4

Lecture Hours

Lecture Hours Min:
4

No Requirements

TEDT1110 - Electrical II - 4 - Credits

Course Overview

Course Prefix
TEDT

Course Number
1110

Department
Technology, Design & Technical Ed

Course Title
Electrical II

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
In this course, students learn advanced electrical theory and diagnostic procedures. Students read and interpret electrical schematics and demonstrate the use of computer-guided diagnostic tools.

Credit Hours

Credit Hours
Min:
4

Contact Hours

Contact Hours
Min:
4

Billing Hours

Billing Hours
Min:
4

Lecture Hours

Lecture Hours
Min:
4

Other Enrollment Recommendations
TEDT1100 ELECTRICAL I

No Requirements

Course Learning Objectives

Course Learning Outcomes
1. Identify electrical systems associated with diesel vehicles.
2. Explain basic electrical circuits and how they work.
3. Discuss battery, starting circuits, and charging systems and their proper function.
4. Diagnose electrical systems associated with diesel vehicles.
5. Interpret electrical schematics and apply them to the diesel industry.
6. Demonstrate basic use of computer-guided electrical diagnostics as it pertains to engine chassis and braking systems.

TEDT1200 - Steering and Suspension - 4 - Credits

Course Overview

Course Prefix
TEDT

Course Number
1200

Department
Technology, Design & Technical Ed

Course Title
Steering and Suspension

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides theory and hands-on instruction on the maintenance and repair of front axles, alignment, truck frames, steering and suspension systems, and coupling devices.

Credit Hours

Credit Hours
Min:
4

Contact Hours

Contact Hours
Min:
4

Billing Hours

Billing Hours
Min:
4

Lecture Hours

Lecture Hours
Min:
4

No Requirements

Course Learning Objectives

Course Learning Outcomes
1. Safely work on and around steering and suspension systems.
2. Identify the significant steering and suspension components related to Class 6,7, and 8 trucks.
3. Diagnose, adjust, and repair steering and suspension systems related to Class 6, 7, and 8 trucks.

TEDT1300 - Brakes - 4 - Credits

Course Overview

Course Prefix
TEDT

Course Number
1300

Department
Technology, Design & Technical Ed

Course Title
Brakes

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides theory and hands-on instruction on heavy-duty braking systems. Students learn maintenance and repair of wheels and tires, hubs and wheel bearings, air brake systems, drum and rotor brakes, anti-lock braking systems (ABS), and hydraulic braking systems.

Credit Hours

Credit Hours
Min:
4

Contact Hours

Contact Hours
Min:
4

Billing Hours

Billing Hours
Min:
4

Lecture Hours

Lecture Hours
Min:
4

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Maintain vehicle safety through safe brake maintenance and repairs.
2. Identify and repair the major components related to truck air foundation brake systems.
3. Identify and repair truck air disk brake systems.

TEDT1400 - Drivetrain - 4 - Credits

Course Overview

Course Prefix
TEDT

Course Number
1400

Department
Technology, Design & Technical Ed

Course Title
Drivetrain

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
In this course, students receive theory and hands-on instruction on the maintenance and repair of heavy-duty drivetrain systems. Topics include clutches, transmissions, drive lines, and differentials.

Credit Hours

Credit Hours
Min:
4

Contact Hours

Contact Hours
Min:
4

Billing Hours

Billing Hours
Min:
4

Lecture Hours

Lecture Hours
Min:
4

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Identify the major components of the drivetrain system.
2. Explain the function of the drivetrain systems.
3. Repair, replace, and diagnose drivetrain system components related to the transportation industry.

TEDT1500 - Preventative Maintenance I - 1 - Credits

Course Overview

Course Prefix
TEDT

Course Number
1500

Department
Technology, Design & Technical Ed

Course Title
Preventative Maintenance I

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces students to the services and practices found within the diesel service industry. Instruction includes inspection and maintenance of truck and trailer systems, engine systems, electrical systems, frame, and steering components.

Credit Hours

Credit Hours Min:
1

Contact Hours

Contact Hours Min:
1

Billing Hours

Billing Hours Min:
1

Lecture Hours

Lecture Hours Min:
1

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Discuss preventative maintenance and why it is so important for the safety and productivity of the diesel industry.
2. Inspect all truck systems and determine vehicles meet safe working standards.
3. Demonstrate the service and maintenance of commercial truck systems.

TEDT1600 - Engines I - 4 - Credits

Course Overview

Course Prefix
TEDT

Course Number
1600

Department
Technology, Design & Technical Ed

Course Title
Engines I

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides theory and hands-on instruction in basic operation, parts, and overhaul procedures of diesel engines. Students learn the removal, service, and repair of engine blocks, crankshafts, pistons, rings, connecting rods, camshafts, valve trains, injection pumps, and accessories.

Credit Hours

Credit Hours Min:
4

Contact Hours

Contact Hours Min:
4

Billing Hours

Billing Hours Min:
4

Lecture Hours

Lecture Hours Min:
4

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Identify the major components of the internal combustion diesel engine.
2. Explain the function of the major components of the internal combustion diesel engine.
3. Disassemble, inspect, and reassemble the major components of a diesel engine.

TEDT1610 - Engines II - 3 - Credits

Course Overview

Course Prefix
TEDT

Course Number
1610

Department
Technology, Design & Technical Ed

Course Title
Engines II

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides the student with more advanced theory and hands-on instruction in diagnostics and operational systems of the internal combustion engine, including emissions, fuel, and after-treatment systems.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Other Enrollment Recommendations

TEDT1600 ENGINES I

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Identify the type of diesel fuel system and explain its operation.
2. Identify the components of modern diesel engine emission systems.
3. Explain how modern diesel emission system components function to meet current EPA standards.
4. Service, diagnose, and repair internal combustion engines, fuel, and emission after-treatment systems.

TEDT1700 - Hydraulics - 2 - Credits

Course Overview

Course Prefix
TEDT

Course Number
1700

Department
Technology, Design & Technical Ed

Course Title
Hydraulics

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides theory and hands-on instruction for fluid power as used in modern mobile equipment. Topics include the operation and repair of hydraulic/ pneumatic components and systems. This course emphasizes testing, troubleshooting, design, and use of hydraulic schematics.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Explain the dangers of working with hydraulics and how to safely eliminate them.
2. Identify and explain the proper function of basic hydraulic systems.
3. Diagnose and repair hydraulic systems.

TEDT1800 - Heating, Ventilation, and Air Conditioning (HVAC) - 3 - Credits

Course Overview

Course Prefix
TEDT

Course Number
1800

Department
Technology, Design & Technical Ed

Course Title
Heating, Ventilation, and Air Conditioning (HVAC)

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides students with theory and hands-on instruction regarding troubleshooting and repair of heavy-duty truck air conditioning systems. Topics include condensers, check valves, driers, compressors, evaporators, controls, heating and cooling systems and controls, and refrigerant handling.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Discuss the function of the heating, ventilation, and air conditioning systems.
2. Demonstrate proper use of an HVAC recovery machine.
3. Diagnose, repair, and recharge vehicle HVAC systems in accordance with EPA laws and regulations.

TEE1000 - Orientation to Technology and Engineering Education - 1 - Credits

Course Overview

Course Prefix
TEE

Course Number
1000

Department
Applied Sciences, Technology and Education

Course Title
Orientation to Technology and Engineering Education

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course will introduce students to teaching in the areas of Technology and Engineering Education (TEE) and Career and Technical Education (CTE). Students will explore professional teaching opportunities and learn what is needed to obtain a set of professional credentials.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

TEE1010 - Graphic Communication Technologies - 3 - Credits

Course Overview

Course Prefix
TEE

Course Number
1010

Department
Applied Sciences, Technology and Education

Course Title
Graphic Communication Technologies

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides an introduction to tools, materials, equipment, and processes used to transmit and receive messages. Major emphasis is placed on hardware, software, communications, and the digital age.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

TEE1020 - Principles of Engineering Design - 3 - Credits

Course Overview

Course Prefix
TEE

Course Number
1020

Department
Applied Sciences, Technology and Education

Course Title
Principles of Engineering Design

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Exploration of fundamental concepts and processes of engineering design, including the engineering design process, root cause analysis, quantitative methods, etc., with an emphasis on using mathematical and scientific knowledge to solve real-world problems in a collaborative team setting.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

TEE1040 - Construction and Estimating - 3 - Credits

Course Overview

Course Prefix
TEE

Course Number
1040

Department
Applied Sciences, Technology and Education

Course Title
Construction and Estimating

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Overview of construction industry and its practices. Reviews four major parts of construction industry, including: (1) Inputs: materials; (2) Process: design and building of structures; (3) Outputs: sites, buildings, etc.; and (4) Feedback: effects of building systems. Provides prospective technology education teachers with opportunity to study and perform activities related to the field of construction and estimating. At completion of course, students should be able to demonstrate knowledge and skills required to implement a construction technology program.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

TEE2000 - Seminar in Leadership and Professional Development - 1 - Credits

Course Overview

Course Prefix
TEE

Course Number
2000

Department
Applied Sciences, Technology and Education

Course Title
Seminar in Leadership and Professional Development

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
This course facilitates student leadership training and professional development, including organization and operation of student technology education organizations, participation in professional and/or pre-professional organizations, community outreach, etc.

Credit Hours

Credit Hours Min:
1

Contact Hours

Contact Hours Min:
1

Billing Hours

Billing Hours Min:
1

Lecture Hours

Lecture Hours Min:
1

TEE2030 - Wood-Based Manufacturing Systems - 3 - Credits

Course Overview

Course Prefix
TEE

Course Number
2030

Department
Applied Sciences, Technology and Education

Course Title
Wood-Based Manufacturing Systems

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course focuses on the instructional strategy of establishing a manufacturing enterprise utilizing woodworking equipment and techniques. Topics include: management; finance and marketing strategies; and the design of product, tooling, and production systems.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

TEE2200 - Aquaponic Systems (BPS) - 3 - Credits

Course Overview

Course Prefix
TEE

Course Number
2200

Department
Applied Sciences, Technology and Education

Course Title
Aquaponic Systems (BPS)

General Education Attribute
BPS

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This is an introduction to the design, construction, operation, and maintenance of a sustainable aquaponic system. Emphasis is placed on the safety, ethics, chemistry, and mechanics of monitoring and maintaining a balanced and healthy system.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

TEE2220 - Civil Engineering and Architecture - 3 - Credits

Course Overview

Course Prefix
TEE

Course Number
2220

Department
Applied Sciences, Technology and Education

Course Title
Civil Engineering and Architecture

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Introduction to fields of civil engineering and architecture. Software applications used to solve problems and communicate solutions. Topics include: project planning, site planning, building design, and project documentation and presentation.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- TESY1200 - Computer-Aided Drafting and Design
- MATH1050 - College Algebra (QL)

or higher MATH course, or AP Calculus AB score of 3 or higher

TEE2240 - Analog Devices and Circuits - 3 - Credits

Course Overview

Course Prefix
TEE

Course Number
2240

Department
Applied Sciences, Technology and Education

Course Title
Analog Devices and Circuits

Grade Mode
Pass/Fail

Repeat Status
NR

Course Description
Study of differential amplifiers; operational amplifiers; regulators; and generator instrumentation amplifier, multiplier, and active filters.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Corequisite

Type
Corequisite

Required

Enroll in the following Courses:

- TEE2400 - Active Devices and Circuits

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- TEE2310 - AC/DC Circuits

TEE2300 - Electronic Fundamentals (QI) - 3 - Credits

Course Overview

Course Prefix
TEE

Course Number
2300

Department
Applied Sciences, Technology and Education

Course Title
Electronic Fundamentals (QI)

General Education Attribute
QI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course consists of the study and application of DC and AC concepts, semiconductors, digital electronics, and microcomputers.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete at least 1 course in the following course sets:

- Quantitative Literacy (QL) Course

TEE2310 - AC/DC Circuits - 2 - Credits

Course Overview

Course Prefix
TEE

Course Number
2310

Department
Applied Sciences, Technology and Education

Course Title
AC/DC Circuits

Grade Mode
Pass/Fail

Repeat Status
NR

Course Description
Study of AC/DC principles beyond those taught in TEE 2300. Includes network theorems, capacitance, inductance, impedance, reactance, resonance, and transformers.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- TEE2300 - Electronic Fundamentals (QI)

TEE2320 - Electronic Drafting - 2 - Credits

Course Overview

Course Prefix
TEE

Course Number
2320

Department
Applied Sciences, Technology and Education

Course Title
Electronic Drafting

Grade Mode
Pass/Fail

Repeat Status
NR

Course Description
Study of electronic drafting practices. Students exposed to various areas of electronic drafting and fabrication.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- TEE2300 - Electronic Fundamentals (QI)

TEE2360 - Digital Circuits - 3 - Credits

Course Overview

Course Prefix
TEE

Course Number
2360

Department
Applied Sciences, Technology and Education

Course Title
Digital Circuits

Grade Mode
Pass/Fail

Repeat Status
NR

Course Description
Logic circuits, combinational and repeated circuits, counters, shifts registers, state tables, PLD's, and digital computer simulations.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- TEE2300 - Electronic Fundamentals (QI)

TEE2370 - Computer and Microprocessor Programming - 3 - Credits

Course Overview

Course Prefix
TEE

Course Number
2370

Department
Applied Sciences, Technology and Education

Course Title
Computer and Microprocessor Programming

Grade Mode
Pass/Fail

Repeat Status
NR

Course Description
Introduction to microprocessors and computers. Study of machine language programming, assemblies and cross assemblies, emulators, and input and output devices.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- TEE2300 - Electronic Fundamentals (QI)

TEE2400 - Active Devices and Circuits - 3 - Credits

Course Overview

Course Prefix
TEE

Course Number
2400

Department
Applied Sciences, Technology and Education

Course Title
Active Devices and Circuits

Grade Mode
Pass/Fail

Repeat Status
NR

Course Description
Study of diodes; transistor principles, including semiconductor theory, bipolar, and field effect device characteristics; and modern thyristor devices.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- TEE2310 - AC/DC Circuits

TEE2660 - Principles of Engineering Education - 3 - Credits

Course Overview

Course Prefix
TEE

Course Number
2660

Department
Applied Sciences, Technology and Education

Course Title
Principles of Engineering Education

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Prepares students to teach pre-engineering in the high school environment. Topics include the engineering design process and reliability, engineering systems, statics and dynamics, and materials.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- TESY1200 - Computer-Aided Drafting and Design
- MATH1060 - Trigonometry

or AP Calculus AP score of 3 or higher

TEE2850 - Statics and Strength of Materials - 3 - Credits

Course Overview

Course Prefix
TEE

Course Number
2850

Department
Applied Sciences, Technology and Education

Course Title
Statics and Strength of Materials

Grade Mode
Pass/Fail

Repeat Status
NR

Course Description
Engineering technology course covering resultants and equilibrium of force systems; moments of inertia; method of work; stress, strain, and deflection due to tension, compression, and torsion; and Mohr's circle for stress and strain.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- MATH1050 - College Algebra (QL)
- MATH1060 - Trigonometry

or AP Calculus AB score of 3 of higher

TEE3040 - Engineering Systems - 3 - Credits

Course Overview

Course Prefix
TEE

Course Number
3040

Department
Applied Sciences, Technology and Education

Course Title
Engineering Systems

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Prepares students to teach engineering at the secondary level. Includes basic overview of math concepts needed to successfully teach engineering, problem solving, teamwork, design, technical communication, and engineering fundamentals. Through use of open-ended problem solving methodologies, students receive hands-on experience while teaching concepts of statics, dynamics, thermodynamics, electrical circuits, and engineering economics.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

TEE3050 - Computer Systems and Networking - 3 - Credits

Course Overview

Course Prefix
TEE

Course Number
3050

Department
Applied Sciences, Technology and Education

Course Title
Computer Systems and Networking

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Introduction to modern graphic and electronic communication systems. Emphasizes design, development, production, and dissemination of both electronic and graphic messages. Covers major concepts, including desktop publishing, and audio and video production techniques.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

TEE3070 - K-8 Technology and Engineering Education - 3 - Credits

Course Overview

Course Prefix
TEE

Course Number
3070

Department
Applied Sciences, Technology and Education

Course Title
K-8 Technology and Engineering Education

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Introduction to the content area of technology and engineering education and its relationship with science and mathematics as an integrated STEM curricula in grades K-8. Emphasis will be placed on developing, teaching, and managing technology and engineering design based activities.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

TEE3200 - Methods of Teaching Engineering and Technology Education I - 3 - Credits

Course Overview

Course Prefix
TEE

Course Number
3200

Department
Applied Sciences, Technology and Education

Course Title
Methods of Teaching Engineering and Technology Education I

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Classroom laboratory practicum for design, practice, and performance of technology education demonstrations and lab activities.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Corequisite

Type
Corequisite

Required

Enroll in the following Courses:

- TEE3300 - Clinical Experience I

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- TEE1000 - Orientation to Technology and Engineering

Education

TEE3230 - Machine and Production Drafting - 3 - Credits

Course Overview

Course Prefix
TEE

Course Number
3230

Department
Applied Sciences, Technology and Education

Course Title
Machine and Production Drafting

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Teaches students to accurately produce both design drawings and working drawings. Explores techniques, symbols, and conventions used to represent gears, cams, jigs, and fixtures. Also includes advanced techniques of production drawing, emphasizing Geometric Dimensioning and Tolerancing.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- TESY1200 - Computer-Aided Drafting and Design
- MATH1050 - College Algebra (QL)

or AP Calculus AB score of 3 or higher

TEE3240 - Technical Illustration - 3 - Credits

Course Overview

Course Prefix
TEE

Course Number
3240

Department
Applied Sciences, Technology and Education

Course Title
Technical Illustration

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
In-depth study of technical illustration. Includes preparation of pictorial drawings with rendering added. Explores industrial and architectural environments. Introduces rendering and animation software, emphasizing three-dimensional modeling.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Earn a minimum grade of C- in the following:

- TEE1200 - Computer-Aided Drafting and Design

TEE3270 - Advanced Computer-Aided Drafting - 3 - Credits

Course Overview

Course Prefix
TEE

Course Number
3270

Department
Applied Sciences, Technology and Education

Course Title
Advanced Computer-Aided Drafting

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course is designed to enhance CADD productivity, encourage customization, and introduce students to advanced CADD techniques, including programming and introduction to parametric design.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- TESY1200 - Computer-Aided Drafting and Design

TEE3300 - Clinical Experience I - 1 - Credits

Course Overview

Course Prefix
TEE

Course Number
3300

Department
Applied Sciences, Technology and Education

Course Title
Clinical Experience I

Grade Mode
Pass/Fail

Repeat Status
NR

Course Description
Field-based experiences in secondary schools. Students complete 45 hours of tutoring students and assist teachers with managerial, clerical, and other professional tasks.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Registration Restrictions

Admission to teacher education

Simple Requisites

Corequisite

Type
Corequisite

Required

Enroll in the following Courses:

- TEE3200 - Methods of Teaching Engineering and Technology Education I

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- TEE1000 - Orientation to Technology and Engineering Education

TEE3380 - Microprocessor and Computer Interfacing - 3 - Credits

Course Overview

Course Prefix
TEE

Course Number
3380

Department
Applied Sciences, Technology and Education

Course Title
Microprocessor and Computer Interfacing

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Microcomputer interface applications, including digital system interface, serial and parallel interfacing, and D/A and A/D converters.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- TEE2240 - Analog Devices and Circuits
- TEE2370 - Computer and Microprocessor Programming

TEE3390 - Microcontrollers - 3 - Credits

Course Overview

Course Prefix
TEE

Course Number
3390

Department
Applied Sciences, Technology and Education

Course Title
Microcontrollers

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Study of microcontrollers and applications. Includes programming and building circuits.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- TEE3380 - Microprocessor and Computer Interfacing

TEE3400 - Communication Circuits - 3 - Credits

Course Overview

Course Prefix
TEE

Course Number
3400

Department
Applied Sciences, Technology and Education

Course Title
Communication Circuits

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Introduction to radio frequency communication circuits. Includes oscillators, modulation, transmitters, receivers, transmission lines, antennas, RF propagation, digital signal processing, GPS, and spread spectrum.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- TEE2300 - Electronic Fundamentals (QI)
- TEE2400 - Active Devices and Circuits

TEE3440 - Science, Technology, and Modern Society (DSC) - 3 - Credits

Course Overview

Course Prefix
TEE

Course Number
3440

Department
Applied Sciences, Technology and Education

Cross-Listed Courses
ASTE3440 - Science, Technology, and Modern Society (DSC)

Course Title
Science, Technology, and Modern Society (DSC)

General Education Attribute
DSC

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Designed to challenge students from all academic majors to develop an understanding of the dynamic interaction between science, technology, and society. Explores responsibility of humans for directing the utilization of technology as a creative enterprise.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

TEE3510 - Introduction to Networking - 3 - Credits

Course Overview

Course Prefix
TEE

Course Number
3510

Department
Applied Sciences, Technology and Education

Course Title
Introduction to Networking

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Study of hardware and software required to build, install, maintain, and support a local area network. Emphasizes laboratory applications.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

TEE3710 - Electronics/Computer Design I - 1 - Credits

Course Overview

Course Prefix
TEE

Course Number
3710

Department
Applied Sciences, Technology and Education

Course Title
Electronics/Computer Design I

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students select and plan a senior project. Requires written proposal, including technical description of the project and management plans.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- TEE2320 - Electronic Drafting

may be taken concurrently

TEE3740 - Facility and Equipment Maintenance - 3 - Credits

Course Overview

Course Prefix
TEE

Course Number
3740

Department
Applied Sciences, Technology and Education

Course Title
Facility and Equipment Maintenance

Grade Mode
Pass/Fail

Repeat Status
NR

Course Description
Systems approach to facility, equipment, and tool maintenance, including principles of woodworking, machine construction, adjustment, and sharpening.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

TEE3900 - Principles and Objectives of Career and Technical Education - 3 - Credits

Course Overview

Course Prefix
TEE

Course Number
3900

Department
Applied Sciences, Technology and Education

Course Title
Principles and Objectives of Career and Technical Education

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Comprehensive study of philosophy and purposes of career and technical education programs and their place in the total program of modern education.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

TEE3930 - Evaluation of Career and Technical Education - 2 - Credits

Course Overview

Course Prefix
TEE

Course Number
3930

Department
Applied Sciences, Technology and Education

Course Title
Evaluation of Career and Technical Education

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Factors for evaluation of attitudes, skills, work habits, technical information, and instrument construction.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

TEE4210 - Cognition and Evaluation of Student Learning in Career and Technical Education - 3 - Credits

Course Overview

Course Prefix
TEE

Course Number
4210

Department
Applied Sciences, Technology and Education

Cross-Listed Courses
ASTE4210 - Cognition and Evaluation of Student Learning in Career and Technical Education, BSED4210 - Cognition and Evaluation of Student Learning in Career and Technical Education, FCSE4210 - Cognition and Evaluation of Student Learning in Career and Teachnical Education

Course Title
Cognition and Evaluation of Student Learning in Career and Technical Education

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides an overview of the various methods used to measure and evaluate student achievement within the cognitive, affective, and psychomotor domains with emphasis on performance-based, authentic assessment specific to the Career and Technical Education classroom.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Admission to Teacher Education

TEE4300 - Clinical Experience II - 1 - Credits

Course Overview

Course Prefix
TEE

Course Number
4300

Department
Applied Sciences, Technology and Education

Course Title
Clinical Experience II

Grade Mode
Pass/Fail

Repeat Status
NR

Course Description
Field-based experience, in which students complete 45 hours of teaching-related experiences in the classroom.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Registration Restrictions
Admission to Teacher Education

Simple Requisites

Corequisite

Type
Corequisite

Required

Enroll in the following Courses:

- TEE4400 - Methods of Teaching Engineering and Technology Education II

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- TEE3200 - Methods of Teaching Engineering and Technology Education I
- TEE3300 - Clinical Experience I

and admission to Teacher Education

TEE4310 - Corrosion and Corrosion Control - 2 - Credits

Course Overview

Course Prefix
TEE

Course Number
4310

Department
Applied Sciences, Technology and Education

Course Title
Corrosion and Corrosion Control

Grade Mode
Pass/Fail

Repeat Status
NR

Course Description
Analysis of corrosion mechanisms for ferrous metals, nonferrous metals, and nonmetallic materials, as well as the control of corrosion.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- CHEM1110 - General Chemistry I (BPS)
- MATH1060 - Trigonometry

or AP Calculus AB score of 3 or higher

TEE4320 - Advanced Applications in Woods and Composites - 3 - Credits

Course Overview

Course Prefix
TEE

Course Number
4320

Department
Technology, Design & Technical Ed

Course Title
Advanced Applications in Woods and Composites

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students gain an in-depth understanding of advanced wood and composite materials, including their properties, classifications, applications, precision machining, and molding. Students apply learning through a semester-long project.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Other Enrollment Recommendations
TESY1200 CAD AND DESIGN, TESY1030 MATERIAL PROCESSING SYSTEMS, TESY4230 ADVANCED MATERIALS AND PROCESS

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:
- TEE2030 - Wood-Based Manufacturing Systems

Course Learning Objectives

Course Learning Outcomes
Course Learning Outcomes:

1. Materials Mastery: Gain an in-depth understanding of advanced wood and composite materials, including their properties, classifications, and applications. Explore the latest developments and innovations in the field, staying abreast of emerging materials and technologies.
2. Advanced Fabrication Techniques: Learn advanced techniques in the fabrication of wood and composite structures, including precision machining, molding, and 3D printing. Understand the principles of sustainable fabrication practices and their application in the industry.
3. Structural Design and Analysis: Develop skills in designing complex structures using wood and composite materials. Perform structural analysis and simulations to ensure safety, durability, and optimal performance of advanced wood and composite applications.
4. Composite Manufacturing Processes: Explore the intricacies of composite manufacturing processes, such as layup, infusion molding, and autoclave curing. Gain hands-on experience in the production of high-performance composite components.
5.Innovations in Wood Technology: Investigate recent advancements in wood technology, including modified woods, engineered wood products, and nanocellulose applications. Analyze the environmental impact and sustainability considerations associated with novel wood technologies.
6. Real-world Applications and Case Studies: Examine real-world applications of advanced wood and composite materials in industries such as outdoor products, aerospace, automotive, construction, and furniture. Analyze case studies to understand successful implementations, challenges faced, and lessons learned.
7. Safety and Compliance: Prioritize safety in the handling, fabrication, and application of advanced wood and composite materials. Understand and adhere to industry standards and regulations governing the use of these materials.

TEE4400 - Methods of Teaching Engineering and Technology Education II - 3 - Credits

Course Overview

Course Prefix
TEE

Course Number
4400

Department
Applied Sciences, Technology and Education

Course Title
Methods of Teaching Engineering and Technology Education II

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Techniques of teaching as applied to individual and group instruction. Students apply various methods in presenting lessons.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Corequisite

Type
Corequisite

Required

Enroll in the following Courses:

- TEE4300 - Clinical Experience II

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- TEE3200 - Methods of Teaching Engineering and Technology Education I
- TEE3300 - Clinical Experience I

TEE4440 - Technology and Society: Linking CTE with STEM - 3 - Credits

Course Overview

Course Prefix
TEE

Course Number
4440

Department
Applied Sciences, Technology and Education

Cross-Listed Courses
ASTE6440 - Technology and Society: Linking CTE with STEM

Dual-Listed Courses
TEE6440 - Technology and Society: Linking CTE with STEM

Course Title
Technology and Society: Linking CTE with STEM

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Challenges students to develop an understanding of the dynamic interaction between science, technology, and society. Explores the responsibility of humans to direct the utilization of technology as a creative enterprise. Students critically investigate technological innovations, issues, and impacts on society from a global perspective.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

TEE4700 - Student Teaching in Postsecondary Schools - 4 - Credits

Course Overview

Course Prefix
TEE

Course Number
4700

Department
Applied Sciences, Technology and Education

Course Title
Student Teaching in Postsecondary Schools

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Planning, presenting, and evaluating instruction for students in postsecondary industrial and technical programs under the supervision of an experienced teacher. Enrollment by permission only.

Credit Hours

Credit Hours
Min:
4

Contact Hours

Contact Hours
Min:
4

Billing Hours

Billing Hours
Min:
4

Lecture Hours

Lecture Hours
Min:
4

Special Approval

Instructor Permission

TEE4710 - Electronics/Computer Design II (CI) - 3 - Credits

Course Overview

Course Prefix
TEE

Course Number
4710

Department
Applied Sciences, Technology and Education

Course Title
Electronics/Computer Design II (CI)

General Education Attribute
CI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Execution and completion of a team or individual project. Requires design reviews and written reports.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- TEE3710 - Electronics/Computer Design I

TEE4930 - Independent Study - 1 - 4 Credits

Course Overview

Course Prefix
TEE

Course Number
4930

Department
Applied Sciences, Technology and Education

Course Title
Independent Study

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Upon application, students may propose and complete work above and beyond regular coursework to support or supplement their major.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
4

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
4

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
4

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
4

Lecture Hours Operator:
TO

TEE4940 - Related Industrial Experience - 1 - 12 Credits

Course Overview

Course Prefix
TEE

Course Number
4940

Department
Applied Sciences, Technology and Education

Course Title
Related Industrial Experience

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Provision for enrollment in industry schools conducted on university level. Approved by department upon application for trade competency examination and work experience in industry.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
12

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
12

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
12

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
12

Lecture Hours Operator:
TO

TEE5040 - Manufacturing Enterprise - 3 - Credits

Course Overview

Course Prefix
TEE

Course Number
5040

Department
Applied Sciences, Technology and Education

Course Title
Manufacturing Enterprise

Grade Mode
Pass/Fail

Repeat Status
NR

Course Description
Focuses on management technology used to establish a manufacturing enterprise, engineer a product and production system, finance the operation, and market the product.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- TESY1030 - Material Processing Systems

TEE5200 - Advanced Aquaponic Systems - 3 - Credits

Course Overview

Course Prefix
TEE

Course Number
5200

Department
Applied Sciences, Technology and Education

Course Title
Advanced Aquaponic Systems

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Students operate and manage the laboratory aquaponics system(s). Fish, plants, and water chemistry are monitored and adjustments to the systems are made based on data collected. In addition, a special problem is completed by each student.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Special Approval

Instructor permission

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- TEE2200 - Aquaponic Systems (BPS)

TEE5220 - Program and Course Development (CI) - 3 - Credits

Course Overview

Course Prefix
TEE

Course Number
5220

Department
Applied Sciences, Technology and Education

Course Title
Program and Course Development (CI)

General Education Attribute
CI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Review of basic principles and practices of curriculum and course development used in applied technology and technology education. Emphasizes components needed to develop a curriculum guide.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- TEE3200 - Methods of Teaching Engineering and Technology Education I
- TEE3300 - Clinical Experience I

TEE5230 - Technical Training Innovative Program - 1 - 4 Credits

Course Overview

Course Prefix
TEE

Course Number
5230

Department
Applied Sciences, Technology and Education

Course Title
Technical Training Innovative Program

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Prepares prospective and incumbent teachers to implement and conduct contemporary programs. Includes skill development and the philosophy needed for curriculum innovation.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
4

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
4

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
4

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
4

Lecture Hours Operator:
TO

TEE5240 - Principles of Technology - 2 - 3 Credits

Course Overview

Course Prefix
TEE

Course Number
5240

Department
Applied Sciences, Technology and Education

Course Title
Principles of Technology

Grade Mode
Pass/Fail

Repeat Status
NR

Course Description
Introduction to applied technology principles forming the basis for today's society.

Credit Hours

Credit Hours Min:
2

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
2

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
2

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
2

Lecture Hours Max:
3

Lecture Hours Operator:
TO

TEE5500 - Student Teaching Seminar - 2 - Credits

Course Overview

Course Prefix
TEE

Course Number
5500

Department
Applied Sciences, Technology and Education

Course Title
Student Teaching Seminar

Grade Mode
Pass/Fail

Repeat Status
NR

Course Description
Focuses on observations and problems arising during student teaching. Includes review of teaching plans, procedures, adaptive classroom practices, and evaluation.

Credit Hours

Credit Hours Min:
2

Contact Hours

Contact Hours Min:
2

Billing Hours

Billing Hours Min:
2

Lecture Hours

Lecture Hours Min:
2

Simple Requisites

Corequisite

Type
Corequisite

Required

Enroll in the following Courses:

- TEE5630 - Student Teaching in Secondary Schools

TEE5630 - Student Teaching in Secondary Schools - 10 - Credits

Course Overview

Course Prefix
TEE

Course Number
5630

Department
Applied Sciences, Technology and Education

Course Title
Student Teaching in Secondary Schools

Grade Mode
Pass/Fail

Repeat Status
NR

Course Description
Candidates assigned to cooperating teachers in public secondary schools within their major and minor subjects. Students have professional responsibilities with teaching.

Credit Hours

Credit Hours Min:
10

Contact Hours

Contact Hours Min:
10

Billing Hours

Billing Hours Min:
10

Lecture Hours

Lecture Hours Min:
10

Simple Requisites

Corequisite

Type
Corequisite

Required

Enroll in the following Courses:

- TEE5500 - Student Teaching Seminar

TEE5800 - Seminar Technology Education - 1 - 3 Credits

Course Overview

Course Prefix
TEE

Course Number
5800

Department
Applied Sciences, Technology and Education

Course Title
Seminar Technology Education

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Provides opportunity for students to participate in variety of enriching experiences, such as guest speakers, field trips, demonstrations, and conferences.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

TEE5900 - Workshop in Technology and Engineering Education - 1 - 4 Credits

Course Overview

Course Prefix
TEE

Course Number
5900

Department
Applied Sciences, Technology and Education

Course Title
Workshop in Technology and Engineering Education

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Special workshops for education or industry.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
4

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
4

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
4

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
4

Lecture Hours Operator:
TO

TEE5910 - Special Problems in Engineering and Technology Education - 1 - 4 Credits

Course Overview

Course Prefix
TEE

Course Number
5910

Department
Applied Sciences, Technology and Education

Course Title
Special Problems in Engineering and Technology Education

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course covers special topics and projects directed toward enhancing principles and practices in Technology and Engineering Education.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
4

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
4

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
4

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
4

Lecture Hours Operator:
TO

TEE5920 - Related Technical Training - 1 - 12 Credits

Course Overview

Course Prefix
TEE

Course Number
5920

Department
Applied Sciences, Technology and Education

Course Title
Related Technical Training

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course provides for enrollment in industry-related training that aligns with university-level competencies. Training is approved by department faculty upon evaluation of competency attainment/credential, application for/granting of a trade competency examination or certificate, and/or evidence of experiential use in work environments.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
12

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
12

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
12

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
12

Lecture Hours Operator:
TO

TEE6200 - Composite Manufacturing Processes and Repair - 3 - Credits

Course Overview

Course Prefix
TEE

Course Number
6200

Department
Applied Sciences, Technology and Education

Course Title
Composite Manufacturing Processes and Repair

Grade Mode
Pass/Fail

Repeat Status
NR

Course Description
Composite manufacturing processes, composite materials survey, tooling design and fabrication, autoclave processes, vacuum bag techniques, filament winding processes, equipment requirements, materials cutting and storage, and composite materials testing.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

TEE6250 - Internship - 1 - 6 Credits

Course Overview

Course Prefix
TEE

Course Number
6250

Department
Applied Sciences, Technology and Education

Course Title
Internship

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Advanced instruction through supervised work experience in teaching, supervising, or administering educational or industrial program.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
6

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
6

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
6

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
6

Lecture Hours Operator:
TO

TEE6310 - Corrosion and Corrosion Control - 2 - Credits

Course Overview

Course Prefix
TEE

Course Number
6310

Department
Applied Sciences, Technology and Education

Dual-Listed Courses
TEE4310 - Corrosion and Corrosion Control

Course Title
Corrosion and Corrosion Control

Grade Mode
Pass/Fail

Repeat Status
NR

Course Description
Analysis of corrosion mechanisms for ferrous metals, nonferrous metals, and nonmetallic materials, as well as the control of corrosion.

Credit Hours

Credit Hours Min:
2

Contact Hours

Contact Hours Min:
2

Billing Hours

Billing Hours Min:
2

Lecture Hours

Lecture Hours Min:
2

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- CHEM1110 - General Chemistry I (BPS)
- MATH1060 - Trigonometry

or AP Calculus AB score of 3 or higher

TEE6440 - Technology and Society: Linking CTE with STEM - 3 - Credits

Course Overview

Course Prefix
TEE

Course Number
6440

Department
Applied Sciences, Technology and Education

Cross-Listed Courses
ASTE6440 - Technology and Society: Linking CTE with STEM

Dual-Listed Courses
TEE4440 - Technology and Society: Linking CTE with STEM

Course Title
Technology and Society: Linking CTE with STEM

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Challenges students to develop an understanding of the dynamic interaction of science and technology along with its application to career and technical education.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

TEE6520 - Explorations of Industry - 3 - Credits

Course Overview

Course Prefix
TEE

Course Number
6520

Department
Applied Sciences, Technology and Education

Course Title
Explorations of Industry

Grade Mode
Pass/Fail

Repeat Status
NR

Course Description
Study of contemporary industry, business, and service through a series of site visits. Includes various management and finance methods and techniques.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

TEE6960 - Master's Project - 1 - 6 Credits

Course Overview

Course Prefix
TEE

Course Number
6960

Department
Applied Sciences, Technology and Education

Course Title
Master's Project

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Development of creative project emphasizing a thoroughly developed plan of action. Includes proposal, project paper, and final presentation.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
6

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
6

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
6

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
6

Lecture Hours Operator:
TO

TEE7040 - Dynamic and Network Engineering Processes for Technology Education - 3 - Credits

Course Overview

Course Prefix
TEE

Course Number
7040

Department
Applied Sciences, Technology and Education

Course Title
Dynamic and Network Engineering Processes for Technology Education

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Examines dynamic and network processes in engineering through the use of simulation software. Students use these techniques to develop standards-based engineering curricular modules for use in grades 6 through 12.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

TEE7400 - Occupational Analysis and Curriculum Development - 3 - Credits

Course Overview

Course Prefix
TEE

Course Number
7400

Department
Applied Sciences, Technology and Education

Cross-Listed Courses
ASTE7400 - Occupational Analysis and Curriculum Development

Course Title
Occupational Analysis and Curriculum Development

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students learn techniques for conducting an occupational analysis (both job and task analysis) and for developing performance-based or competency-based curriculum. Explores industrial and educational applications for this style of curriculum development. This course is taught alternating years. Check with department for information about when course will be taught.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

TEE7600 - Academic Issues and Politics in Higher Education - 3 - Credits

Course Overview

Course Prefix
TEE

Course Number
7600

Department
Applied Sciences, Technology and Education

Course Title
Academic Issues and Politics in Higher Education

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Study of higher education in Utah, the social political impacts, and the role of faculty members in higher education institutions.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

TEEELEC - - 3 - Credits

Course Overview

Course Prefix
TEE

Course Number
ELEC

Department
Applied Sciences, Technology and Education

Grade Mode
Standard Letter

Repeat Status
RP

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

TEEL1110 - Electrician Apprentice IA - 3 - Credits

Course Overview

Course Prefix
TEEL

Course Number
1110

Department
Technology, Design & Technical Ed

Course Title
Electrician Apprentice IA

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course establishes a solid foundation in electrical fundamentals and the study of basic electrical theory. Students use the National Electrical Code (NEC) to apply code requirements to electrical systems. Students will practice in the basics of conduit bending.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes
1. Demonstrate a proficiency in general math skills with an emphasis on how they relate to the electrical field.
2. Identify electrical and jobsite hazards.
3. Explain workplace safety.
4. Apply Mathematical Principles to Conduit Bending.
5. Demonstrate a practical application of conduit bending.
6. Explain the Fundamentals of Electrical Theory.
7. Explain the Fundamentals of Electrical Circuitry.
8. Demonstrate the application of the National Electrical Code (NEC) Articles 090-240.
9. Demonstrate how to navigate the National Electrical Code (NEC) Articles 090-240.

TEEL1120 - Electrician Apprenticeship IB - 3 - Credits

Course Overview

Course Prefix
TEEL

Course Number
1120

Department
Technology, Design & Technical Ed

Course Title
Electrician Apprenticeship IB

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course discusses single-phase and three-phase alternating current (AC) power systems, inductance, capacitance, reactance, power factor, and power correction. Students begin a more comprehensive analysis of National Electrical Code (NEC) requirements, calculations, wiring methods, safety, and installations.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Apply the fundamentals of electrical theory.
2. Apply the fundamentals of electrical circuitry.
3. Explain the definition of a qualified person.
4. Explain responsibilities and risks of qualified persons.
5. Demonstrate principles and procedures of lock out tag out.
6. Demonstrate the application of the National Electrical Code (NEC) Articles 300-450.
7. Demonstrate how to navigate the National Electrical Code (NEC) Articles 300-450.

TEEL1210 - Electrician Apprentice IIA - 3 - Credits

Course Overview

Course Prefix
TEEL

Course Number
1210

Department
Technology, Design & Technical Ed

Course Title
Electrician Apprentice IIA

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course discusses single-phase and three-phase alternating current (AC) power systems, inductance, capacitance, reactance, power factor, and power correction. In this course, students begin a more comprehensive analysis of National Electrical Code (NEC) requirements for safety and calculations.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- TEEL1110 - Electrician Apprentice IA

Course Learning Objectives

Course Learning Outcomes

1. Show proficiency in calculating properties of an AC circuit.
2. Demonstrate proper use of hand tools and electrical equipment in practice live applications.
3. Demonstrate proficiency in applying and calculating the sizing of Branch circuits, feeders, services, and load calculations.

TEEL1220 - Electrician Apprentice IIB - 3 - Credits

Course Overview

Course Prefix
TEEL

Course Number
1220

Department
Technology, Design & Technical Ed

Course Title
Electrician Apprentice IIB

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
The Electrician Apprentice IIB course continues the comprehensive analysis of the National Electrical Code (NEC). In this course, students evaluate the functions, uses, and calculations for direct current (DC) and alternating current (AC) motors, transformers, and other equipment.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- TEEL1110 - Electrician Apprentice IA

Course Learning Objectives

Course Learning Outcomes

1. Identify the types and voltages of transformers.
2. Calculate values related to transformers.
3. Apply the NEC with emphasis in codes regarding Motors, Transformers, and other electrical equipment.

4. Identify types, categories, and ratings of PPE clothing.
5. Show applications of types, categories, ratings of Personal Protective Equipment (PPE).

TEEL1310 - Electrician Apprentice IIIA - 3 - Credits

Course Overview

Course Prefix
TEEL

Course Number
1310

Department
Technology, Design & Technical Ed

Course Title
Electrician Apprentice IIIA

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
In this course, students demonstrate the different parts, functions, and calculations for grounding and bonding in electrical systems. Students explore the rules that apply to different electrical-related boundaries the National Fire Protection Agency (NFPA) has set up.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- TEEL1110 - Electrician Apprentice IA

Course Learning Objectives

Course Learning Outcomes

1. Describe the NEC requirements regarding grounding and bonding.
2. Calculate sizes of grounding and bonding conductors.
3. Explain the various conductors and properties of grounding and bonding

contained in an electrical system.
4. Explain NFPA rules to limit approach, restricted approach, and arc flash boundaries.

TEEL1320 - Electrician Apprentice IIIB - 3 - Credits

Course Overview

Course Prefix
TEEL

Course Number
1320

Department
Technology, Design & Technical Ed

Course Title
Electrician Apprentice IIIB

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course explores basic and complex electrical motor control systems and their respective fundamental concepts, diagrams, and applications. Students examine the wiring and protecting of motors and motor circuits per National Electrical Code (NEC) requirements.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Identify electrical symbols and diagrams pertaining to motors and motor control circuits.
2. Demonstrate how to wire a control circuit based on a diagram.
3. Identify various control devices.
4. Explain application of various control devices.
5. Apply proper safety protocols around motor controls.

TEEL1410 - Electrician Apprentice IVA - 3 - Credits

Course Overview

Course Prefix
TEEL

Course Number
1410

Department
Technology, Design & Technical Ed

Course Title
Electrician Apprentice IVA

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course explores the basic skills necessary to become a crew leader and manage electrical hazards. Students are instructed in special occupancies, special equipment, special conditions and communication systems, and their respective National Electrical Code (NEC) requirements.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- TEEL1110 - Electrician Apprentice IA

Course Learning Objectives

Course Learning Outcomes

1. Demonstrate the application of the National Electrical Code (NEC) Chapters 5-8.
2. Demonstrate how to navigate the National Electrical Code (NEC) Chapters 5-8.
3. Explain the costs related to safety.
4. Perform a hazard / risk assessment.
5. Explain Utah licensing requirements and rules.

TEEL1420 - Electrician Apprentice IVB - 3 - Credits

Course Overview

Course Prefix
TEEL

Course Number
1420

Department
Technology, Design & Technical Ed

Course Title
Electrician Apprentice IVB

Grade Mode
Standard Letter

Repeat Status
NR

Course Description

In this course, students review all concepts from the previous years of electrical apprenticeship education. This course prepares individuals for the Utah State Journeyman qualifying examinations. Upon completion, students demonstrate a journeyman-level understanding of the electrical field.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- TEEL1110 - Electrician Apprentice IA

Course Learning Objectives

Course Learning Outcomes

1. Apply knowledge of National Electrical Code (NEC) to pass a comprehensive review.
2. Apply knowledge of electrical theory to pass a comprehensive review.
3. Apply knowledge of safety to pass a comprehensive review.

TEEM1011 - Emergency Medical Technician - 6 - Credits

Course Overview

Course Prefix
TEEM

Course Number
1011

Department
Technology, Design & Technical Ed

Course Title
Emergency Medical Technician

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
The Emergency Medical Technician program provides training for medical care and transportation of patients who access the EMS system. EMTs have basic knowledge and skills necessary to stabilize and transport patients ranging from non-emergency, routine medical transports and life-threatening emergencies.

Credit Hours

Credit Hours Min:
6

Contact Hours

Contact Hours Min:
6

Billing Hours

Billing Hours Min:
6

Lecture Hours

Lecture Hours Min:
6

No Requirements

Course Learning Objectives

Course Learning Outcomes

Course Learning Outcomes:

1. Apply fundamental knowledge of the anatomy and function of all human systems to the practice of EMS.

2. Use foundational anatomical and medical terms and abbriciations in written and oral communication with colleagues and other health care professionals.

3. Apply fundamental knowledge of the pathophysiology of respiration and perfusion to patient assessment and management.

4. Apply fundamental knowledge of lifespan development to patient assessment and management.

5. Properly administer or assist in administering medications to a patient during an emergency.

6. Utilize fundamental knowledge of the EMS system, safety/well-being of the EMT, and medical/legal and ethical issues to the provision of emergency care.

7. Apply knowledge (fundamental depth, foundational breadth) of anatomy and physiology to patient assessment and management to assure a patent airway, adequate mechanical ventilation, and respiration for patients of all ages.

8. Interpret scene information and patient assessment findings (scene size-up, primary and secondary assessment, patient history, reassessment) to guide emergency management.

9. Provide basic emergency care and transportation based on assessment findings for an acutely ill patient.

10. Apply a fundamental knowledge of the causes, pathophysiology, and management of shock, respiratory failure or arrest, cardiac failure or arrest, and post-resuscitation management.

11. Provide basic emergency care and transportation based on assessment findings for an acutely injured patient.

12. Utilize principles of growth, development, aging and assessment findings to provide basic emergency care and transportation for a patient with special needs.

13. Perform in accordance with operational roles and responsibilities to ensure patient, public, and personnel safety when responding to an emergency.

TEHE1010 - Heavy Equipment Introduction/ Basics - 2 - Credits

Course Overview

Course Prefix
TEHE

Course Number
1010

Department
Technology, Design & Technical Ed

Course Title
Heavy Equipment Introduction/Basics

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides an overview of Safety, Blue Stakes, equipment operation, basic familiarization with equipment utilization/use. The course also includes workplace communication and awareness.

Credit Hours

Credit Hours Min:
2

Contact Hours

Contact Hours Min:
2

Billing Hours

Billing Hours Min:
2

Lecture Hours

Lecture Hours Min:
2

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Explain the fundamentals of a safe work environment.
2. Demonstrate safety procedures and familiarization with equipment use.
3. Demonstrate proper workplace communication and awareness of the work environment Skid Steer/Compact Loader Operation 2 Credit/60 Clock.

TEHE1050 - Skid Steer/Compact Loader Operation - 2 - Credits

Course Overview

Course Prefix
TEHE

Course Number
1050

Department
Technology, Design & Technical Ed

Course Title
Skid Steer/Compact Loader Operation

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers the fundamentals of skid steer and compact loader operation.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Demonstrate safe start procedures for the equipment.
2. Properly conduct a pre-operation inspection and related maintenance.
3. Identify and explain the proper use of the machine and associated control devices.
4. Demonstrate basic operating techniques.

TEHE1100 - Hydraulic Excavator Operation - 2 - Credits

Course Overview

Course Prefix
TEHE

Course Number
1100

Department
Technology, Design & Technical Ed

Course Title
Hydraulic Excavator Operation

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers safety related to and the fundamental operation of hydraulic excavators.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Properly conduct a pre-operation inspection and related maintenance.
2. Demonstrate safe start procedures for the equipment.
3. Identify and explain the proper use of the machine and associated control devices.
4. Demonstrate basic operating techniques.

TEHE1150 - Backhoe (Tractor Loader Backhoe) Operation - 2 - Credits

Course Overview

Course Prefix
TEHE

Course Number
1150

Department
Technology, Design & Technical Ed

Course Title
Backhoe (Tractor Loader Backhoe) Operation

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers safety related to and the fundamental operation of tractors, loaders, and backhoes.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Demonstrate safe start procedures for the equipment.
2. Properly conduct a pre-operation inspection and related maintenance.
3. Identify and explain the proper use of the machine and associated control devices.
4. Demonstrate basic operating techniques.

TEHE1200 - Front End Loader Operation - 2 - Credits

Course Overview

Course Prefix
TEHE

Course Number
1200

Department
Technology, Design & Technical Ed

Course Title
Front End Loader Operation

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers safety related to and the fundamental operation of front-end loaders.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Demonstrate safe start procedures for the equipment.
2. Properly conduct a pre-operation inspection and related maintenance.
3. Identify and explain the proper use of the machine and associated control devices.
4. Demonstrate basic operating techniques.

TEHE1250 - Dozer Operation - 2 - Credits

Course Overview

Course Prefix
TEHE

Course Number
1250

Department
Technology, Design & Technical Ed

Course Title
Dozer Operation

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers safety related to and the fundamental operation of dozers.

Credit Hours

Credit Hours Min:
2

Contact Hours

Contact Hours Min:
2

Billing Hours

Billing Hours Min:
2

Lecture Hours

Lecture Hours Min:
2

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Demonstrate safe start procedures for the equipment.
2. Properly conduct a pre-operation inspection and related maintenance.
3. Identify and explain the proper use of the machine and associated control devices.
4. Demonstrate basic operating techniques.

TEHE1300 - Road Grader Operation - 2 - Credits

Course Overview

Course Prefix
TEHE

Course Number
1300

Department
Technology, Design & Technical Ed

Course Title
Road Grader Operation

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers safety related to and the fundamental operation of road graders.

Credit Hours

Credit Hours Min:
2

Contact Hours

Contact Hours Min:
2

Billing Hours

Billing Hours Min:
2

Lecture Hours

Lecture Hours Min:
2

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Demonstrate safe start procedures for the equipment.
2. Properly conduct a pre-operation inspection and related maintenance.
3. Identify and explain the proper use of the machine and associated control devices.
4. Demonstrate basic operating techniques.

TEHE1400 - Forklift Operation - 1 - Credits

Course Overview

Course Prefix
TEHE

Course Number
1400

Department
Technology, Design & Technical Ed

Course Title
Forklift Operation

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers safety related to and the fundamental operation of forklifts.

Credit Hours

Credit Hours Min:
1

Contact Hours

Contact Hours Min:
1

Billing Hours

Billing Hours Min:
1

Lecture Hours

Lecture Hours Min:
1

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Demonstrate safe start procedures for the equipment.
2. Properly conduct a pre-operation inspection and related maintenance.
3. Identify and explain the proper use of the machine and associated control devices.
4. Demonstrate basic operating techniques.

TEHE1500 - Worksite Planning for Operators - 1 - Credits

Course Overview

Course Prefix
TEHE

Course Number
1500

Department
Technology, Design & Technical Ed

Course Title
Worksite Planning for Operators

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers worksite planning considerations with regard to heavy equipment operation.

Credit Hours

Credit Hours Min:
1

Contact Hours

Contact Hours Min:
1

Billing Hours

Billing Hours Min:
1

Lecture Hours

Lecture Hours Min:
1

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Recognize the various special or additional circumstances, processes, or procedures associated with heavy equipment worksites.
2. Identify specific resources to address these special or additional circumstances associated with heavy equipment worksites.

TEHE1600 - Aerial Boom Lift/Scissor Lift Operation - 2 - Credits

Course Overview

Course Prefix
TEHE

Course Number
1600

Department
Technology, Design & Technical Ed

Course Title
Aerial Boom Lift/Scissor Lift Operation

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers safety related to, and the fundamental operation of, aerial boom lifts and scissor lifts.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Demonstrate safe start procedures for the equipment.
2. Properly conduct a pre-operation inspection and related maintenance.
3. Identify and explain the proper use of the machine and associated control devices.
4. Demonstrate basic operating techniques.

TEIT1041 - Introduction to Programming - 3 - Credits

Course Overview

Course Prefix
TEIT

Course Number
1041

Department
Technology, Design & Technical Ed

Course Title
Introduction to Programming

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces computer programming/software engineering and applications. Students learn the fundamentals of computer programming, simple controls and data structures, and operating system commands. Students learn to design, code, and test their own programs, and apply mathematical skills.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Modify existing Python programs.
2. Write an original Python program.
3. Know, understand, and be able to use: Different data types and variables, decision structures such as If and If-elif-else, loops structures such as While, and For, functions, Lists, Tuples, Dictionaries and Sets, string manipulations, files (read and write), classes and object-oriented programming.

TEIT1050 - Career and Workplace Relations - 1 - Credits

Course Overview

Course Prefix
TEIT

Course Number
1050

Department
Technology, Design & Technical Ed

Course Title
Career and Workplace Relations

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Career and Workplace Relations is designed to help students gain insight into how their skills and professionalism might enhance relationships between management and coworkers. Instruction includes employment skills such as communication, critical thinking, professional etiquette, team dynamics, and more.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

No Requirements

Course Learning Objectives

Course Learning Outcomes
Course Learning Outcomes:

1. Identify personal and transferable skills, competencies and/or abilities.

2. Create an industry specific resume, cover letter and online presence.

3. Demonstrate effective interviewing skills.

4. Submit an application for an industry specific position.

5. Demonstrate effective use of job search websites.

TEIT1091 - Introduction to Mobile Application Development - 3 - Credits

Course Overview

Course Prefix
TEIT

Course Number
1091

Department
Technology, Design & Technical Ed

Course Title
Introduction to Mobile Application Development

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces students to the fundamentals of mobile application development. Students learn to design, code and test their own mobile applications.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes
Course Learning Outcomes:

1. Create mobile apps using Android Studio.

2. Debug mobile apps.

3. Explain and use: Techniques to create native app interfaces, Different activities and pass data between them, Activities to display list data in an app, Persistent data to store, retrieve, and manipulate data files, Hardware and device sensor APIs in programs in order to capture and integrate sensor data.

4. Discuss how monetize and publish apps.

TEIT1100 - Introduction to Networking - 1 - Credits

Course Overview

Course Prefix
TEIT

Course Number
1100

Department
Technology, Design & Technical Ed

Course Title
Introduction to Networking

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Introduction to Networking provides foundational-level instruction on the concepts, models, services, settings, protocols, topologies, and devices used in computer networks. Students explore the Open Systems Interconnection (OSI) and Transmission Control Protocol/Internet Protocol (TCP/IP) models.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

No Requirements

Course Learning Objectives

Course Learning Outcomes
Course Learning Outcomes:

1. Define common concepts and terms associated with computer networking.

2. Identify and differentiate the purpose and function of common networking devices.

3. Identify and differentiate common networking ports, protocols and services.

4. Identify components of the OSI and TCP/IP models.

5. Compare and contrast network topologies and access methods.

6. Identify various types of security software.

7. Demonstrate the use of software to mitigate risk in a lab environment.

8. Define security best practices.

9. Analyze various software logs.

10. Summarize major risk frameworks.

11. Identify social engineering techniques.

12. Identify accurate and trustworthy security news sources.

13. Explore career opportunities in cybersecurity.

TEIT1170 - Computer Networks I - 2 - Credits

Course Overview

Course Prefix
TEIT

Course Number
1170

Department
Technology, Design & Technical Ed

Course Title
Computer Networks I

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course explores common computer networking models, network device installation and configuration, switching and routing technologies, IP address configuration, basic wireless network configuration, and network troubleshooting tools and methodology.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

TEIT1200 - A+ Core 1 - 3 - Credits

Course Overview

Course Prefix
TEIT

Course Number
1200

Department
Technology, Design & Technical Ed

Course Title
A+ Core 1

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
A+ Core 1 prepares students to be successful computer technicians, capable of installing, maintaining, troubleshooting, optimizing, and securing desktop computers, laptops, mobile devices, and printers. This course aligns with the objectives of the CompTIA A+ Core 1 certification exam.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Corequisite

Type
Corequisite

Required

Enroll in the following Courses:

- TEIT1210 - A+ Core 2

Course Learning Objectives

Course Learning Outcomes

1. Install and configure computer hardware components and peripheral devices.
2. Identify and configure basic networking components and protocols.
3. Install and configure laptops and other mobile devices.
3. Diagnose and troubleshoot device and network issues.
4. Compare and contrast cloud computing concepts.
5. Configure client-side virtualization.

TEIT1210 - A+ Core 2 - 3 - Credits

Course Overview

Course Prefix
TEIT

Course Number
1210

Department
Technology, Design & Technical Ed

Course Title
A+ Core 2

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
A+ Core 2 is a follow-up to A+ Core1 and provides continued instruction on installation, configuration, maintenance, and security of various common operating systems and platforms. This course aligns with the objectives of the CompTIA A+ Core 2 certification exam.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Corequisite

Type
Corequisite

Required

Enroll in the following Courses:

- TEIT1200 - A+ Core 1

Course Learning Objectives

Course Learning Outcomes

1. Install and configure Windows, Mac and Linux.
2. Identify best practices for safety, environmental impacts, communication and professionalism.
3. Troubleshoot common operating system, malware and security issues.
4. Identify basic vulnerabilities and protect against threats.
5. Install, configure, and maintain software in computers and mobile devices.

TEIT1300 - Linux Foundations - 2 - Credits

Course Overview

Course Prefix
TEIT

Course Number
1300

Department
Technology, Design & Technical Ed

Course Title
Linux Foundations

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Linux Foundations focuses on the installation, configuration, and process management of a Linux workstation. Students explore shell programming, file system management, user accounts, access and permissions, and managing multiple concurrent processes to achieve higher utilization.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Install and maintain a Linux workstation.
2. Configure Linux from the GUI and command line.
3. Configure file and access permissions.
4. Perform maintenance tasks including user management, backup and restore, shut down and reboot.

TEIT1310 - Website Design - 3 - Credits

Course Overview

Course Prefix
TEIT

Course Number
1310

Department
Technology, Design & Technical Ed

Course Title
Website Design

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course focuses on design and construction of Web pages using HTML, Cascading Style Sheets, and JavaScript. Students have hands-on experience creating and publishing Web pages. This course also focuses on basics of hosting, publishing, promoting, and maintaining websites.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes
Course Learning Outcomes:

1. Understand web hosting and critique website designs.

2. Demonstrate use of HTML5 and Cascading Style Sheets (CSS) in developing web pages.

3. Develop web pages using images, multimedia, tables and forms.

4. Apply basic JavaScripting to web Pages.

5. Publish, Promote, and Maintain a website.

6. Evaluate and use Website Builders or Content Management Systems (CMS).

TEIT1340 - Digital Video Production - 3 - Credits

Course Overview

Course Prefix
TEIT

Course Number
1340

Department
Technology, Design & Technical Ed

Course Title
Digital Video Production

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers fundamentals of digital video production, including recording, editing, and uploading of video using current video-editing programs and techniques. Students have hands-on experience with projects to help them apply current digital video production concepts.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes

Course Learning Outcomes:

1. Understand how professional audio-visual production is directed and managed to create useful multimedia materials.

2. Understand basic video production techniques that make a quality recording and production.

3. Create video/audio resources from concept inception through storyboarding, scripting, recording, editing and media conversion

4. Create digital video productions more effectively using graphics, titling, and/or channel masks in the video-editing process.

5. Create audio and video effects and animation

6. Prepare video for use in HTML pages, YouTube, or other multimedia storage locations

TEIT1400 - Introduction to Cloud - 2 - Credits

Course Overview

Course Prefix
TEIT

Course Number
1400

Department
Technology, Design & Technical Ed

Course Title
Introduction to Cloud

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Introduction to Cloud provides instruction on core cloud computing concepts, services, and solutions as well as foundational knowledge from a business value perspective of the benefits and considerations for cloud computing implementation. Included is an overview of popular cloud platforms.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

No Requirements

Course Learning Objectives

Course Learning Outcomes
Course Learning Outcomes:

1. Define the value proposition of cloud computing.

2. Identify core cloud concepts, services, solutions, and management tools.

3. Demonstrate an understanding of cloud security considerations, features, and best practices.

4. Describe cloud identity, governance, privacy, and compliance concepts and features.

5. Compare and contrast cloud pricing models and identify cost management solutions.

6. Define cloud deployment models, methods, and operations.

TEIT1500 - Introduction to Scripting - 1 - Credits

Course Overview

Course Prefix
TEIT

Course Number
1500

Department
Technology, Design & Technical Ed

Course Title
Introduction to Scripting

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Introduction to Scripting provides instruction on basic scripting concepts. Students are introduced to scripting fundamentals to automate tasks that would otherwise be performed manually. Students explore the practical use and management of scripts to perform system administration functions.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

No Requirements

Course Learning Objectives

Course Learning Outcomes
1. Demonstrate an understanding of the features of scripting languages.
2. Implement critical thinking and problem-solving skills through practical exercises
3. Perform automation of systems tasks and functions

TEIT1550 - Practical Python - 3 - Credits

Course Overview

Course Prefix
TEIT

Course Number
1550

Department
Technology, Design & Technical Ed

Course Title
Practical Python

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Practical Python provides instruction on the fundamentals of Object-Oriented Programming in Python. It includes the creation of Python scripting from basic to intermediate as well as the debugging process of creating Python code.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes
Course Learning Outcomes:

1. Demonstrate how to install Python.

2. Demonstrate a working knowledge of Python by writing a simple syntax.

3.Troubleshoot Python code problems.

TEIT1800 - Certification Test Prep I - 1 - Credits

Course Overview

Course Prefix
TEIT

Course Number
1800

Department
Technology, Design & Technical Ed

Course Title
Certification Test Prep I

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Certification Test Prep I provides instruction in preparation for industry exams. Students access additional testing materials and resources for their exam preparation. Students review the exam outline, objectives, grading scale, requirements, and recommendations for the specified industry exam.

Credit Hours

Credit Hours Min:
1

Contact Hours

Contact Hours Min:
1

Billing Hours

Billing Hours Min:
1

Lecture Hours

Lecture Hours Min:
1

No Requirements

Course Learning Objectives

Course Learning Outcomes
1. Identify areas for improvement of certification learning objectives.
2. Demonstrate competency by passing practice tests
3. Demonstrate proficiency in test-taking strategies
4. Schedule and take the certification exam

TEIT1810 - Certification Test Prep II - 1 - Credits

Course Overview

Course Prefix
TEIT

Course Number
1810

Department
Technology, Design & Technical Ed

Course Title
Certification Test Prep II

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Certification Test Prep II provides instruction in preparation for industry exams. Students access additional testing materials and resources for their exam preparation. Students review the exam outline, objectives, grading scale, requirements, and recommendations for the specified industry exam.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Identify areas for improvement of certification learning objectives.
2. Demonstrate competency by passing practice tests.
3. Demonstrate proficiency in test-taking strategies.
4. Schedule and take the certification exam.

TEIT1820 - Certification Test Prep III - 1 - Credits

Course Overview

Course Prefix
TEIT

Course Number
1820

Department
Technology, Design & Technical Ed

Course Title
Certification Test Prep III

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Certification Test Prep III provides instruction in preparation for industry exams. Students access additional testing materials and resources for their exam preparation. Students review the exam outline, objectives, grading scale, requirements, and recommendations for the specified industry exam.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Identify areas for improvement of certification learning objectives.
2. Demonstrate competency by passing practice tests.
3. Demonstrate proficiency in test-taking strategies.
4. Schedule and take the certification exam.

TEIT1830 - Certification Test Prep IV - 1 - Credits

Course Overview

Course Prefix
TEIT

Course Number
1830

Department
Technology, Design & Technical Ed

Course Title
Certification Test Prep IV

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Certification Test Prep IV provides instruction in preparation for industry exams. Students access additional testing materials and resources for their exam preparation. Students review the exam outline, objectives, grading scale, requirements, and recommendations for the specified industry exam.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Identify areas for improvement of certification learning objectives.
2. Demonstrate competency by passing practice tests.
3. Demonstrate proficiency in test-taking strategies.
4. Schedule and take the certification exam.

TEIT1840 - Certification Test Prep V - 1 - Credits

Course Overview

Course Prefix
TEIT

Course Number
1840

Department
Technology, Design & Technical Ed

Course Title
Certification Test Prep V

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Certification Test Prep V provides instruction in preparation for industry exams. Students access additional testing materials and resources for their exam preparation. Students review the exam outline, objectives, grading scale, requirements, and recommendations for the specified industry exam.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Demonstrate competency by passing practice tests.
2. Demonstrate proficiency in test-taking strategies.
3. Schedule and take the certification exam.

TEIT1850 - Certification Test Prep VI - 1 - Credits

Course Overview

Course Prefix
TEIT

Course Number
1850

Department
Technology, Design & Technical Ed

Course Title
Certification Test Prep VI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Certification Test Prep VI provides instruction in preparation for industry exams. Students access additional testing materials and resources for their exam preparation. Students review the exam outline, objectives, grading scale, requirements, and recommendations for the specified industry exam.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

No Requirements

Course Learning Objectives

Course Learning Outcomes
1. Demonstrate competency by passing practice tests.
2. Identify areas for improvement of certification learning objectives.
3. Demonstrate proficiency in test-taking strategies.
4. Schedule and take the certification exam.

TEIT2100 - Computer Networks - 4 - Credits

Course Overview

Course Prefix
TEIT

Course Number
2100

Department
Technology, Design & Technical Ed

Course Title
Computer Networks

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Computer Networks provides instruction on the installation, configuration, management, and troubleshooting of common components of modern computer networks. This course prepares candidates to support networks across multiple platforms and aligns with the objectives of the CompTIA Network+ certification exam.

Credit Hours

Credit Hours
Min:
4

Contact Hours

Contact Hours
Min:
4

Billing Hours

Billing Hours
Min:
4

Lecture Hours

Lecture Hours
Min:
4

No Requirements

Course Learning Objectives

Course Learning Outcomes
Course Learning Outcomes:

1. Describe and evaluate network utilization.

2. Record, filter and analyze different types of network traffic.

3. Demonstrate use of network analysis tools.

4. Identify types of network connections.

TEIT2170 - Computer Networks II - 3 - Credits

Course Overview

Course Prefix
TEIT

Course Number
2170

Department
Technology, Design & Technical Ed

Course Title
Computer Networks II

Grade Mode
Standard Letter

Repeat Status
NR

Course Description

This course examines network design and architecture considerations, network documentation, change management, network monitoring methods and solutions, configuration management, network security hardening techniques, and basic datacenter, cloud, and virtual-network concepts. This course aligns with objectives from popular networking certifications.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Completion Requirement

Required

Complete ALL of the following Courses:

- TEIT1170 - Computer Networks I

Course Learning Objectives

Course Learning Outcomes

1. Implement appropriate tools and methods to perform a reconnaissance of a system or network.
2. Gather data and analyze the results of a reconnaissance.
3. Describe and implement techniques and procedures needed to secure an organization.
4. Classify threat data or activities for their impact on a security incident.
5. Manage incident response, recovery, and reporting.

TEIT2200 - Security + - 4 - Credits

Course Overview

Course Prefix
TEIT

Course Number
2200

Department
Technology, Design & Technical Ed

Course Title
Security +

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Security+ provides instruction on assessing the security posture of enterprise environments and implementing appropriate security solutions. Instruction is given to identify, analyze, and respond to events and incidents. This course aligns with the objectives of the CompTIA Security+ certification exam.

Credit Hours

Credit Hours
Min:
4

Contact Hours

Contact Hours
Min:
4

Billing Hours

Billing Hours
Min:
4

Lecture Hours

Lecture Hours
Min:
4

No Requirements

Course Learning Objectives

Course Learning Outcomes

Course Learning Outcomes:

1. Explain security functions and purposes as they relate to network devices.

2. Identify and implement risk mitigation techniques and strategies.

3. Distinguish and evaluate different network and physical security threats.

4. Implement network intrusion detection and prevention technologies.

5. Identify and execute appropriate cryptography measures

TEIT2300 - Linux + - 3 - Credits

Course Overview

Course Prefix
TEIT

Course Number
2300

Department
Technology, Design & Technical Ed

Course Title
Linux +

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Linux+ provides instructions on how to install, configure, manage, and maintain a Linux server. Topics include: SSH, VNC, Webmin, NIS, and LDAP. Students learn to install, configure, and administer a Linux server. This course aligns with the CompTIA Linux+ objectives.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes

1.Configure the Linux file systems.
2. Configure file sharing services.
3. Configure network services.
4. Show competency with Linux Administration Tools.

TEIT2441 - Photoshop - 3 - Credits

Course Overview

Course Prefix
TEIT

Course Number
2441

Department
Technology, Design & Technical Ed

Course Title
Photoshop

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course is designed to teach the use of Photoshop. Students gain hands-on experience from basic touch-up and editing to advance editing and creation of graphics for various uses including images for the websites.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes

Course Learning Outcomes:

1. Basic Photo Corrections,Working with Selections, Layer Basics, Quick Fixes, Masks and Channels, Typographic Design,Vector Drawing, Advanced Compositing. Painting with the Mixer Brush, Editing Video, Working with Camera Raw, Preparing Files for the Web, Producing and Printing Consistent Color and Exploring Neural Filters.

TEIT2500 - Web Business - 3 - Credits

Course Overview

Course Prefix
TEIT

Course Number
2500

Department
Technology, Design & Technical Ed

Course Title
Web Business

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course is an introduction to web-based business. Students learn business concepts relating to online and worldwide e-commerce, marketing concepts, design strategies, and technical issues as they relate to web-based businesses are discussed.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Review of Technology Infrastructure of the Internet and the World Wide Web.
2. Implications of Selling on the Web — regional and world wide.
3. Developing Marketing on the Web.
4. Improving Efficiency and Reducing Costs.
5. Social Networking, Mobile Commerce, and Online Auctions.
6. The Environment of Electronic Commerce with Legal, Ethical, and Tax Issues.
7. Web Server Hardware and Software, Electronic Commerce Software and Security.
8. Payment Systems for Electronic Commerce and Planning for Electronic Commerce.

TEIT2977 - Internship - 1 - 3 Credits

Course Overview

Course Prefix
TEIT

Course Number
2977

Department
Technology, Design & Technical Ed

Course Title
Internship

Grade Mode
Standard Letter

Repeat Status
RP

Course Description

This course provides supervised on-the-job training in business, computers, and information systems areas. Students meet with the instructor/coordinator periodically during the course to determine and evaluate learning objectives, hours to be worked, and credit agreements.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

No Requirements

Course Learning Objectives

Course Learning Outcomes

Identify job essential skills for personal development and enrichment.
Create SMART goals for internship success.
Evaluate job performance and incorporate evaluation feedback.

TEIT2988 - Special Problems - 1 - 3 Credits

Course Overview

Course Prefix
TEIT

Course Number
2988

Department
Technology, Design & Technical Ed

Course Title
Special Problems

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Individual work approved by the instructor. Time and credit to be arranged.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Identify and formulate a solution to specific issues or problems in information technology for local business or the industry.
2. Document the solution(s) and the resources required to solve the problem and create a presentation or "white paper" to promote or highlight the solution features.
3. Where possible, begin the implementation of the solution(s) found

TELE1010 - Special Function Officer - 9 - Credits

Course Overview

Course Prefix
TELE

Course Number
1010

Department
Technology, Design & Technical Ed

Course Title
Special Function Officer

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides the training necessary for certification and function with any authority in the State of Utah. This is an initial approach to law enforcement. Topics include legal subjects, patrol and criminal investigation, arrest control, and CPR/ First Aid.

Credit Hours

Credit Hours Min:
9

Contact Hours

Contact Hours Min:
9

Billing Hours

Billing Hours Min:
9

Lecture Hours

Lecture Hours Min:
9

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Identify and demonstrate key ethical standards in law enforcement.
2. Demonstrate appropriate physical fitness.
3. Apply concepts of Utah Law to practical situations.
4. Create professional reports from citizen contacts.
5. Perform basic defensive tactics and arrest skills.
6. Identify persons in crisis and apply de-escalation techniques.

TELE1020 - Basic Corrections Officer - 5 - Credits

Course Overview

Course Prefix
TELE

Course Number
1020

Department
Technology, Design & Technical Ed

Course Title
Basic Corrections Officer

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides education and training for employment in the corrections field. Topics include constitutional and correctional law, offender supervision strategies, and critical incident response. Students gain experience through classroom and practical applications in all corrections-related subjects.

Credit Hours

Credit Hours
Min:
5

Contact Hours

Contact Hours
Min:
5

Billing Hours

Billing Hours
Min:
5

Lecture Hours

Lecture Hours
Min:
5

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Identify and demonstrate key ethical standards in corrections culture.
2. Apply concepts of constitutional and correctional law to practical situations.
3. Interact professionally with incarcerated offenders.
4. Apply basic skills to avoid offender manipulation.
5. Demonstrate competency in less-lethal options such as pepper spray.
6. Demonstrate competency in critical incident and forced cell response actions.

TELE1030 - Law Enforcement Officer - 12 - Credits

Course Overview

Course Prefix
TELE

Course Number
1030

Department
Technology, Design & Technical Ed

Course Title
Law Enforcement Officer

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course prepares students for certification as peace officers. All law enforcement departments require completing this program before employment as a patrol officer, investigator, or deputy. Students gain experience through classroom and practical applications in all law enforcement subjects.

Credit Hours

Credit Hours
Min:
12

Contact Hours

Contact Hours
Min:
12

Billing Hours

Billing Hours
Min:
12

Lecture Hours

Lecture Hours
Min:
12

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Apply skills learned in the investigation of a variety of situations such as domestic violence, traffic accidents, DUI incidents, and more.
2. Demonstrate proficiency through the successful completion of qualifications in firearms, defensive tactics, and physical fitness.
3. Implement proper tactics to successfully deal with high-stress situations.
4. Demonstrate proficiency with law enforcement tools such as Radar/Lidar and intoxilyzer.

TEMA1010 - Introduction to Medical Assisting - 2 - Credits

Course Overview

Course Prefix
TEMA

Course Number
1010

Department
Technology, Design & Technical Ed

Course Title
Introduction to Medical Assisting

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course explores healthcare professions, legal and ethical concepts, and moral issues. Students learn professional and personal ethics, compare standards, and develop foundational skills in effective interpersonal communication essential for success in healthcare environments.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Registration Restrictions
Admission into the Medical Assistant - Technical Certificate Program

Other Enrollment Recommendations
Medical Assisting application must be completed and approved. See advisor for details.

Course Learning Objectives

Course Learning Outcomes
• Describe allied health professionals, their various scopes of practice, and their roles as a member in the healthcare industry.

• Apply legal and ethical standards in healthcare.

• Demonstrate workplace professionalism and communication.

TEMA1020 - Medical Office I - 2 - Credits

Course Overview

Course Prefix
TEMA

Course Number
1020

Department
Technology, Design & Technical Ed

Course Title
Medical Office I

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces administrative duties in a medical office, including appointment scheduling, records management, electronic health records, written communication, insurance processes, office equipment, and telephone procedures. Students gain hands-on practice and complete competency-based assessments to develop essential administrative skills.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Registration Restrictions
Admission into the Medical Assistant - Technical Certificate Program

Special Approval
Advisor permission

Other Enrollment Recommendations
Medical Assisting application must be completed and approved. See advisor for details.

Course Learning Objectives

Course Learning Outcomes
• Demonstrate professionalism and responsibilities of the medical assistant through written, verbal, and electronic communication.

• Describe the administrative functions of a medical office.

• Demonstrate correct documentation in a medical record.

• Define types of information contained in a patient's medical record.

TEMA1030 - Medical Office II - 2 - Credits

Course Overview

Course Prefix
TEMA

Course Number
1030

Department
Technology, Design & Technical Ed

Course Title
Medical Office II

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course focuses on managing medical office finances, including diagnostic and procedural coding for insurance billing. Students learn to track claim reimbursements, process patient statements, and review fee collection procedures, gaining essential skills for financial operations in healthcare settings.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Registration Restrictions
Admission into the Medical Assistant - Technical Certificate Program

Other Enrollment Recommendations
Medical Assistant application process must be completed and approved. See advisor for details.

Course Learning Objectives

Course Learning Outcomes
• Describe how to use procedural, diagnostic, and HCPCS coding required for insurance paperwork.

• Demonstrate professionalism in handling patient accounts and medical records.

• Describe banking and accounting procedures as related to the ambulatory care setting.

• Define healthcare insurance types, utilization, and guidelines.

TEMA1040 - Anatomy and Physiology - 4 - Credits

Course Overview

Course Prefix
TEMA

Course Number
1040

Department
Technology, Design & Technical Ed

Course Title
Anatomy and Physiology

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces the structure and function of the human body under normal conditions and its response to illness. Students learn organ systems, diagnostic treatments, and medical terminology, including correct spelling and pronunciation, essential for healthcare communication.

Credit Hours

Credit Hours
Min:
4

Contact Hours

Contact Hours
Min:
4

Billing Hours

Billing Hours
Min:
4

Lecture Hours

Lecture Hours
Min:
4

Registration Restrictions
Admission into the Medical Assistant - Technical Certificate Program

Course Learning Objectives

Course Learning Outcomes
• Locate and label major organs and structures in the body systems.

• Identify and state the function of the major anatomical components of the human body.

• Describe common disorders associated with each major anatomical component.

• Identify common pathology related to each body system.

TEMA1050 - Pharmacology - 3 - Credits

Course Overview

Course Prefix
TEMA

Course Number
1050

Department
Technology, Design & Technical Ed

Cross-Listed Courses
TEPT1320 - Pharmacology

Course Title
Pharmacology

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces pharmaceuticals, including commonly prescribed medications, trade and generic names, actions, side effects, and dosages. Students learn proper administration of oral, injectable, and non-injectable drugs and review essential math skills for conversions and accurate dosage calculations.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Special Approval
Advisor Permission

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Math ACT score of 19 or ALEKS score of 14 or higher or any QL Math; English ACT score of 17 or ENGL 1010.

Course Learning Objectives

Course Learning Outcomes

• Demonstrate calculation of basic mathematical concepts and units of measurement as related to the ambulatory care setting.

• Describe commonly prescribed medications uses, names, classifications, and risks.

• List and explain the rights of medication administration.

• Identify and interpret common medication abbreviations.

• Demonstrate the proper handling and administration of prescriptions and medications.

TEMA1060 - Clinical Procedures - 2 - Credits

Course Overview

Course Prefix
TEMA

Course Number
1060

Department
Technology, Design & Technical Ed

Course Title
Clinical Procedures

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Introduction to working in ambulatory outpatient clinic settings, understanding the role of medical assistants and patient care. Focuses on infection control, medical asepsis, taking patient histories, performing patient assessments, including vital signs, and preparing for and assisting providers with examinations.

Credit Hours

Credit Hours Min:
2

Contact Hours

Contact Hours Min:
2

Billing Hours

Billing Hours Min:
2

Lecture Hours

Lecture Hours Min:
2

Registration Restrictions

Admission into the Medical Assistant - Technical Certificate Program

Other Enrollment Recommendations

Medical Assisting application must be completed and approved. See advisor for details.

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- TEMA1010 - Introduction to Medical Assisting

Course Learning Objectives

Course Learning Outcomes

- Identify how infectious and communicable diseases and transmissions relate to the healthcare setting per federal, state, and local health laws, regulations, and recommendations
- Explain the purpose of obtaining patient's health information and how to elicit different aspects of the chief medical complaint
- Accurately identify, measure, and record vital signs
- Define the normal ranges and values for each vital sign
- Interpret the medical assistant's role in preparing and assisting in the physical exam

TEMA1080 - Medical Terminology - 2 - Credits

Course Overview

Course Prefix
TEMA

Course Number
1080

Department
Technology, Design & Technical Ed

Course Title
Medical Terminology

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course teaches students to interpret and understand the language of medicine. Instruction covers word structure, including prefixes, suffixes, roots, plural forms, abbreviations, and symbols, with emphasis on accurate spelling, definitions, application, and pronunciation for effective healthcare communication.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Course Learning Objectives

Course Learning Outcomes

• Identify the four types of word parts in forming medical terms.

• Demonstrate construction of medical terms by correctly spelling, pronouncing, defining, and identifying selected terms.

• Identify and apply acceptable medical abbreviations.

• Use knowledge of word parts to define unfamiliar medical terms.

TEMA1095 - Emergency First Response - 3 - Credits

Course Overview

Course Prefix
TEMA

Course Number
1095

Department
Technology, Design & Technical Ed

Course Title
Emergency First Response

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course is designed to help the student master the skills and concepts necessary to become an Emergency Medical Responder. An EMR performs basic lifesaving and first aid.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Course Learning Objectives

Course Learning Outcomes

• Explain the basic components of the EMS system and the function of the EMR within EMS.

• Lift, move, and position patients safely and effectively.

• Recognize potential life threats based on a systematic patient assessment.

• Demonstrate the ability to assess patients, including appropriate physical exams, histories, baseline vital, and reassessments, and give a thorough patient report.

TEMA1450 - Preparation for Workforce Entry - 1 - Credits

Course Overview

Course Prefix
TEMA

Course Number
1450

Department
Technology, Design & Technical Ed

Course Title
Preparation for Workforce Entry

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Prepares students to navigate obtaining employment as entry-level medical assistants. Students prepare resumes that can be used as they prepare to apply for employment opportunities. Job interview techniques, proper dress, and applying to “Aggie Handshake” job board is taught.

Credit Hours

Credit Hours Min:
1

Contact Hours

Contact Hours Min:
1

Billing Hours

Billing Hours Min:
1

Lecture Hours

Lecture Hours Min:
1

Registration Restrictions
Admission into the Medical Assistant - Technical Certificate Program

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:
- TEMA1010 - Introduction to Medical Assisting

Course Learning Objectives

Course Learning Outcomes
- Demonstrate the ability to produce a coherent and concise resume to present during job application.
- Practice skills in interview technique.
- Verbalize an understanding of proper hygiene.
- Dress for the job interview.
- Demonstrate knowledge of internet and print resources to find job opportunities.

TEMA1700 - Phlebotomy I - 2 - Credits

Course Overview

Course Prefix
TEMA

Course Number
1700

Department
Technology, Design & Technical Ed

Cross-Listed Courses
TEPH1010 - Phlebotomy I

Course Title
Phlebotomy I

Grade Mode
Standard Letter

Repeat Status
NR

Credit Hours

Credit Hours Min:
2

Contact Hours

Contact Hours Min:
2

Billing Hours

Billing Hours Min:
2

Lecture Hours

Lecture Hours Min:
2

Simple Requisites

Corequisite

Type
Corequisite

Required

Enroll in the following Courses:

- TEMA1710 - Phlebotomy II

Course Learning Objectives

Course Learning Outcomes

• Identify laboratory, OSHA, hazardous material, blood borne pathogen exposures, warning symbols, infection control and patient safety rules.

• Identify and use laboratory equipment and computer systems.

• Demonstrate use of basic terminology for the healthcare setting, understand and utilize correct order of draw, and explain the basis of human anatomy and physiology related to venipuncture.

• Correctly and safely draw blood from a patient by properly using any equipment and supplies necessary while identifying and adjusting for any challenges associated with the venipuncture.

TEMA1710 - Phlebotomy II - 1 - Credits

Course Overview

Course Prefix
TEMA

Course Number
1710

Department
Technology, Design & Technical Ed

Cross-Listed Courses
TEPH1010 - Phlebotomy I

Course Title
Phlebotomy II

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students master advanced procedures, refine communication skills, and practice real-life scenarios in a controlled setting. They explore career opportunities and prepare for employment by demonstrating proficiency in phlebotomy techniques and professional interactions.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Simple Requisites

Corequisite

Type
Corequisite

Required

Enroll in the following Courses:

- TEMA1700 - Phlebotomy I

Course Learning Objectives

Course Learning Outcomes
• Obtain knowledge of advanced venipuncture procedures and identify when they are to be used.

• Correctly and safely perform blood draws from a patient by properly using any equipment and supplies necessary while identifying and adjusting for any challenges associated with the venipuncture.

• Demonstrate communication skills appropriate for the phlebotomy industry.

• Discuss the employment requirements and career opportunities within the phlebotomy industry.

TEMA1900 - Medical Assistant Externship I - 2 - Credits

Course Overview

Course Prefix
TEMA

Course Number
1900

Department
Technology, Design & Technical Ed

Course Title
Medical Assistant Externship I

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides students the opportunity to apply administrative and clinical skills in a real healthcare setting. Conducted in a medical office or clinic, the externship occurs under the supervision of a licensed provider to ensure competency development.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Registration Restrictions

Admission into the Medical Assistant - Technical Certificate Program

Other Enrollment Recommendations

Medical Assisting application must be completed and approved. See advisor for details.

Course Learning Objectives

Course Learning Outcomes

• Demonstrate competency of skills learned in the classroom and lab in the ambulatory healthcare setting.

• Work effectively in diverse workplace environments.

• Acquire additional interpersonal communication and interaction skills.

• Successfully complete required externship hours in an ambulatory healthcare setting.

TEMA1910 - Medical Assistant Externship II - 2 - Credits

Course Overview

Course Prefix
TEMA

Course Number
1910

Department
Technology, Design & Technical Ed

Course Title
Medical Assistant Externship II

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides students with the opportunity to apply advanced administrative and clinical skills in a real healthcare setting. Conducted in a medical office or clinic, this externship occurs under the supervision of a licensed provider to ensure competency.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Registration Restrictions

Admission into the Medical Assistant - Technical Certificate Program

Other Enrollment Recommendations

Medical Assisting application must be completed and approved. See advisor for details.

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- TEMA1010 - Introduction to Medical Assisting

Course Learning Objectives

Course Learning Outcomes

• Demonstrate competency of skills learned in the classroom and lab in the ambulatory healthcare setting.

• Work effectively in diverse workplace environments.

• Acquire additional interpersonal communication and interaction skills.

• Successfully complete required externship hours in an ambulatory healthcare setting.

TEMT1000 - Manufacturing Fundamentals - 3 - Credits

Course Overview

Course Prefix
TEMT

Course Number
1000

Department
Technology, Design & Technical Ed

Course Title
Manufacturing Fundamentals

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces students to basic procedures and operations encountered in the machine shop and various manufacturing industries. Topics include essential safety practices, measuring and hand tools, pedestal grinding, and sawing operations.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Identify safe practices in a machine shop.
2. Identify appropriate PPE.
3. Demonstrate environmental awareness.
4. Identify correct clean-up procedures.
5. Interpret a Safety Data sheet (SDS).
6. Perform basic measurements with calipers and micrometers.
7. Perform basic layout procedures.
8. Identify basic hand tools and their usage.
9. Perform basic mathematical calculations.

TEMT1005 - Machining for Manufacturing Trades - 3 - Credits

Course Overview

Course Prefix
TEMT

Course Number
1005

Department
Technology, Design & Technical Ed

Course Title
Machining for Manufacturing Trades

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course supports machining in manufacturing programs. It teaches students the basics of industrial machine shop practices, including operating lathes and mills, blueprint reading, using hand tools, machining techniques, and part inspection.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Course Learning Objectives

Course Learning Outcomes

1. Identify safe practices in a machine shop.
2. Identify correct clean up procedures.
3. Demonstrate basic layout procedures.
4.Reading and interpreting blueprints.
5. Safely set up and operate a band saw.
6. Safely operate a bench grinder and hand tools.
7. Accurately use and read steel rules, micrometers, and calipers.
8. Perform safe and effective use of lathes and milling machines.
9. Perform basic programming and use controls of a CNC machine.

TEMT1100 - Mill Concepts - 3 - Credits

Course Overview

Course Prefix
TEMT

Course Number
1100

Department
Technology, Design & Technical Ed

Course Title
Mill Concepts

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces students to essential material-cutting concepts using a milling machine. Topics include clamping and locating workpieces, selecting cutting tools and holders, milling speeds and feeds, cutting depth, width, and direction, part production, and inspection.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Demonstrate safe operation of a milling machine.
2. Demonstrate the use of indicators relating to aligning, work holding, and figuring.
3. Demonstrate proper machine maintenance and workstation cleanup.
4. Demonstrate proper work-holding device selection and setup.
5. Demonstrate efficient speeds and feeds for mill tooling.
6. Perform accurate milling of pockets, windows, and slots.
7. Perform accurate hole-forming, mill operations for size and location.
8. Perform accurate angle milling.
9. Create and evaluate milled surface finishes.
10. Perform calculations needed to operate precision machines.
11.Inspect and document finish dimensions using various metrology.

TEMT1150 - Computer-Numeric Control (CNC) Mill Concepts - 3 - Credits

Course Overview

Course Prefix
TEMT

Course Number
1150

Department
Technology, Design & Technical Ed

Course Title
Computer-Numeric Control (CNC) Mill Concepts

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces students to Computer-Numeric Control (CNC) milling. Topics include safety, CNC terminology, preparing a CNC program, setup and operation of CNC milling machines, part production, and inspection.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Demonstrate proper work holding for CNC machining.
2. Demonstrate basic CNC machine setup.
3. Demonstrate setting program zero for CNC machines.
4. Perform manual mode operation, edit mode, MDI (manual data input), and program operation mode.
5. Perform calculations needed to operate the machine.
6. Apply recognition of program codes to CNC machine operation.
7. Apply knowledge of motion commands of rapid positioning, linear interpolation, and circular interpolation.
8. Apply proper feeds, speeds, and chip load to quality part production.
9. Apply CSS (Constant Surface Speed) and constant RPM (Revolutions Per Minute).
10. Perform necessary operations to load a program, set tool offsets, and set cutter or nose radius compensations.
11.Demonstrate the use of indicators relating to aligning work holding and figuring.

TEMT1200 - Lathe Concepts - 3 - Credits

Course Overview

Course Prefix
TEMT

Course Number
1200

Department
Technology, Design & Technical Ed

Course Title
Lathe Concepts

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces students to essential material-cutting concepts using a precision lathe machine. Topics include holding and locating workpieces, selecting cutting tools and holders, turning speeds and feeds, applying cutting depth, width, and direction, part production, and inspection.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Demonstrate safe operation of a precision lathe machine.
2. Demonstrate proper machine maintenance and workstation cleanup.
3. Demonstrate proper tool selection and application.
4. Demonstrate proper work-holding device selection and setup.
5. Demonstrate efficient speeds and feeds for lathe tooling.
6. Perform accurate facing operations.
7. Perform accurate turning operations.
8. Perform accurate chamfer/taper turning operations.
9. Perform accurate hole-forming operations for size and location.
10. Perform accurate threading operations.
11. Perform accurate knurling operations.
12. Perform calculations needed to operate a precision machine.
13. Inspect and document finish dimensions using various metrology.

TEMT1250 - Computer-Numeric Control (CNC) Lathe Concepts - 3 - Credits

Course Overview

Course Prefix
TEMT

Course Number
1250

Department
Technology, Design & Technical Ed

Course Title
Computer-Numeric Control (CNC) Lathe Concepts

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces students to Computer-Numeric Control (CNC) turning. Topics include safety, CNC terminology, preparing a CNC program, setup and operation of CNC turning machines, part production, and inspection.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Demonstrate proper work holding for CNC machining.
2. Demonstrate basic CNC machine setup.
3. Demonstrate setting program zero for CNC machines.
4. Perform manual mode operation, edit mode, MDI (manual data input), and program operation mode.
5. Apply recognition of program codes to CNC machine operation.
6. Apply knowledge of motion commands of rapid positioning, linear interpolation, and circular interpolation.
7. Apply proper feeds, speeds, and chip load to quality part production.
8. Apply CSS (Constant surface speed) and constant RPM (Revolutions Per Minute).

TEMT1300 - Computer Numerical Control (CNC) Mill Programming - 3 - Credits

Course Overview

Course Prefix
TEMT

Course Number
1300

Department
Technology, Design & Technical Ed

Course Title
Computer Numerical Control (CNC) Mill Programming

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
In this course students learn the fundamentals of Computer Aided Drafting/ Computer Aided Manufacturing (CAD/CAM) systems. Topics include software operating systems, drawing commands, editing commands, tool-path generation, and posting.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

TEMT1350 - Computer-Numeric Control (CNC) Lathe Programming - 3 - Credits

Course Overview

Course Prefix
TEMT

Course Number
1350

Department
Technology, Design & Technical Ed

Course Title
Computer-Numeric Control (CNC) Lathe Programming

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
In this course, students practice the fundamentals of CAD/CAM systems. Topics include software operating systems, drawing commands, editing commands, tool-path generation, and post a program.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Create basic 2D geometry construction.
2. Modify existing geometry.
3. Demonstrate 2-Axis toolpath generation.
4. Perform basic 2D toolpath editing.
5. Demonstrate how to post a program file to create NC code.
6. Create advanced 2D geometry construction.
7. Perform advanced modification of existing geometry.
8. Demonstrate advanced 2D toolpath editing.
9. Perform calculations needed to operate a precision machine.
10. Verify calculations needed to operate the machine effectively to create an acceptable project based on print specifications.

TEMT1400 - Intro to Computer-Numeric Control (CNC) Machining - 3 - Credits

Course Overview

Course Prefix
TEMT

Course Number
1400

Department
Technology, Design & Technical Ed

Course Title
Intro to Computer-Numeric Control (CNC) Machining

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces students to Computer-Numeric Control (CNC) Machining at an entry-level. Topics include CNC terminology, CNC operation, and performing part Production and inspection.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Explain the basic elements of G and M code.
2. Demonstrate safety practices and techniques for a machine shop.
3. Properly perform a basic start-up of a CNC machine.
4. Correctly load a part.
5. Run basic programs on a CNC machine.
6. Explain the various functions of the CNC control keypad and screen.
8. Demonstrate appropriate preventative maintenance of a CNC machine.

TEMT1565 - Advanced Print Reading - 3 - Credits

Course Overview

Course Prefix
TEMT

Course Number
1565

Department
Technology, Design & Technical Ed

Course Title
Advanced Print Reading

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course teaches students to interpret information on blueprints used in manufacturing. Topics include mathematical calculations, symbols, terms, datum, material condition modifiers, and the application of tolerance zones.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Demonstrate how tolerancing concepts and rules apply in print reading.
2. Demonstrate how datums work on a print.
3. Demonstrate how feature control frames work when applying print reading concepts.
4. Identify and interpret all symbols on a manufacturing print.
5. Perform calculations related to print reading.

TEMT1600 - Introduction to Manual Machining - 3 - Credits

Course Overview

Course Prefix
TEMT

Course Number
1600

Department
Technology, Design & Technical Ed

Course Title
Introduction to Manual Machining

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This hands-on course introduces machining and manufacturing basics, emphasizing shop safety, measurement, and math skills. Students learn to operate mills and lathes, use precision tools, read blueprints, and apply layout techniques essential for success in modern machine shops.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Demonstrate safe practices in the shop.
2. Read and interpret machining blueprints.
3. Demonstrate precision measurement techniques.
4. Properly use standard hand and power tools, including: Saws, drill presses, bench grinders
5. Demonstrate manual lathe operations.
6. Demonstrate work-holding procedures.

TEMT2000 - Process Control - 3 - Credits

Course Overview

Course Prefix
TEMT

Course Number
2000

Department
Technology, Design & Technical Ed

Course Title
Process Control

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides practice reading blueprints and technical drawings to create and inspect a part or assembly. This class teaches practical theory and provide hands-on experience in the proper use of common and advanced measuring tools found in the inspection room.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Course Learning Objectives

Course Learning Outcomes

1. Interpret basic blueprint symbols, line types, and views.
2. Analyze title blocks and apply the data found there to the inspection process.
3. Describe the basic Geometric Dimensioning and Tolerance (GD&T) symbols.
4. Perform calculations needed in regards to process control.
5. Demonstrate the proper use of micrometers, calipers, and other gaging tools required for part inspection.

TEMT2300 - Multi-Axis - 3 - Credits

Course Overview

Course Prefix
TEMT

Course Number
2300

Department
Technology, Design & Technical Ed

Course Title
Multi-Axis

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces CNC multi-axis machines. Topics include the procedures and practices for safe setup and operation of the machine, tool-holding and work holding selection, programming in CAD/CAM software for multi-axis machines, part production, and inspection.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Other Enrollment Recommendations
Completion of first semester of Machining is recommended (TEMT1000 MANUFACTURING FUNDAMENTALS, TEMT1200 LATHE CONCEPTS, TEMT1100 MILL CONCEPTS, TEMT1565 ADVANCED PRINT READING).

Course Learning Objectives

Course Learning Outcomes
1. Identify the correct nomenclature of the machine.
2. Create wireframe and solid models.
3. Create additional planes for tool pathing.
4. Perform 2D, 3D, 3+2, and full 5th axis tool pathing.
5. Demonstrate solid model modification.
6. Perform calculations needed to operate machines.
7. Perform part setup and fixturing operations.
8. Perform tool setup and set tool offsets.
9. Demonstrate proving out a program safely.

TENA1100 - Nursing Assistant - 3 - Credits

Course Overview

Course Prefix
TENA

Course Number
1100

Department
Technology, Design & Technical Ed

Course Title
Nursing Assistant

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
The Nursing Assistant course introduces students to basic nursing skills in a classroom and laboratory setting. This course includes 24 hours of clinical experience.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Special Approval
Advisor Permission

No Requirements

Course Learning Objectives

Course Learning Outcomes
1. Explain activities of daily living and nursing assistant scope of practice.
2. Describe how critical criteria such as recognizing and reporting, communication, infection control, safety, and residents' rights are applied in the care setting.
3. Demonstrate proficiency in all skills required for state certification.
4. Perform nursing assistant skills in a healthcare setting.

TENT1110 - Nail Technician I - 4 - Credits

Course Overview

Course Prefix
TENT

Course Number
1110

Department
Technology, Design & Technical Ed

Course Title
Nail Technician I

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
In this course, students explore basic anatomy, skin and nail structure and growth, and recognizing and preventing infections. Students study the fundamentals of manicures, pedicures, nail tips, wrap application, acrylic(s), gel(s), polish, and their applications.

Credit Hours

Credit Hours
Min:
4

Contact Hours

Contact Hours
Min:
4

Billing Hours

Billing Hours
Min:
4

Lecture Hours

Lecture Hours
Min:
4

Course Learning Objectives

Course Learning Outcomes

1. Demonstrate safe practices related to infection control, chemical products, and electrical equipment.
2. Discuss the history of nail technology.
3. Demonstrate sanitation procedures.
4. Explain the importance of anatomy and physiology, skin and nail growth and structure, and nail diseases and disorders.
5. Demonstrate natural nail care, including manicures and pedicures.
6. Perform proper techniques and application of nail enhancements.

TENT1200 - Nail Technician II Clinical - 2 - Credits

Course Overview

Course Prefix
TENT

Course Number
1200

Department
Technology, Design & Technical Ed

Course Title
Nail Technician II Clinical

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
In this course, students learn foundational skills and provide additional instruction in nail services and art techniques. In addition, students study work ethics, time management, essential business skills, licensing, and laws.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Simple Requisites

Corequisite

Type
Corequisite

Required

Enroll in the following Courses:

- TENT1110 - Nail Technician I

Course Learning Objectives

Course Learning Outcomes

1. Communicate effectively with your salon guests and coworkers.
2. Demonstrate sanitation procedures.
3. Demonstrate the proper natural nail care techniques, including state board

required skills.
4. Demonstrate the use and safety of industry equipment.
5. Demonstrate proper techniques and application of nail enhancements.

TENT1700 - Nail Technician Business and Skill Application - 3 - Credits

Course Overview

Course Prefix
TENT

Course Number
1700

Department
Technology, Design & Technical Ed

Course Title
Nail Technician Business and Skill Application

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course focuses on employment preparation incorporated with professional development. This course builds upon previous course knowledge and helps develop skills in current trends and techniques essential to becoming a successful nail technician. Students also survey their career opportunities.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Course Learning Objectives

Course Learning Outcomes

1. Demonstrate advanced competencies necessary to progress into a salon setting. Students will be exhibiting essential skill improvement, including timing and technical ability.
2. Demonstrate training on trending nail art applications, electric filing, and showcase advanced knowledge of basic manicuring and pedicuring techniques.
3. Demonstrate advanced procedures in a variety of nail enhancements.
4. Practice, demonstrate, and implement a client consultation in preparation for the professional setting.
5. Build and showcase work examples in a professional portfolio.

TEPH1010 - Phlebotomy I - 2 - Credits

Course Overview

Course Prefix
TEPH

Course Number
1010

Department
Technology, Design & Technical Ed

Cross-Listed Courses
TEMA1700 - Phlebotomy I

Course Title
Phlebotomy I

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students study the history and current practices of phlebotomy, infection control, safety, equipment use, anatomy, physiology, medical terminology, venipuncture techniques, special collections, patient identification, and essential preanalytical considerations to build foundational skills.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Simple Requisites

Corequisite

Type
Corequisite

Required

Enroll in the following Courses:

- TEPH1020 - Phlebotomy II

Course Learning Objectives

Course Learning Outcomes

1. Identify laboratory, OSHA, hazardous material, blood borne pathogen exposures, warning symbols, infection control, and patient safety rules.
2. Identify and use laboratory equipment and computer systems.
3. Demonstrate use of basic terminology for the healthcare setting, understand and utilize correct order of draw, and explain the basics of human anatomy and physiology related to venipuncture.
4. Correctly and safely draw blood from a patient by properly using any equipment and supplies necessary while identifying and adjusting for any challenges associated with the venipuncture.

TEPH1020 - Phlebotomy II - 1 - Credits

Course Overview

Course Prefix
TEPH

Course Number
1020

Department
Technology, Design & Technical Ed

Cross-Listed Courses

TEMA1710 - Phlebotomy II

Course Title

Phlebotomy II

Grade Mode
Standard Letter

Repeat Status
NR

Course Description

Students master advanced procedures, refine communication skills, and practice real-life scenarios in a controlled setting. They explore career opportunities and prepare for employment by demonstrating proficiency in phlebotomy techniques and professional interactions.

Credit Hours

Credit Hours Min:
1

Contact Hours

Contact Hours Min:
1

Billing Hours

Billing Hours Min:
1

Lecture Hours

Lecture Hours Min:
1

Simple Requisites

Corequisite

Type
Corequisite

Required

Enroll in the following Courses:

- TEPH1010 - Phlebotomy I

Course Learning Objectives

Course Learning Outcomes

1. Obtain knowledge of advanced venipuncture procedures and identify when they are to be used.
2. Correctly and safely perform blood draws blood from a patient properly using any equipment and supplies necessary while identifying and adjusting for any challenges associated with the venipuncuture.
3. Demonstrate communication skills appropriate for the phlebotomy industry.
4. Discuss the employment requirements and career opportunities within the phlebtomy industry.

TEPL1110 - Plumbing I A - 3 - Credits

Course Overview

Course Prefix
TEPL

Course Number
1110

Department
Technology, Design & Technical Ed

Course Title
Plumbing I A

Grade Mode
Standard Letter

Repeat Status
NR

Course Description

Students begin the study and interpretation of the International Plumbing Code. This course covers the materials and requirements, blueprint reading, practical mathematics, and general knowledge required in the plumbing trade.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

TEPL1120 - Plumbing I B - 3 - Credits

Course Overview

Course Prefix
TEPL

Course Number
1120

Department
Technology, Design & Technical Ed

Course Title
Plumbing I B

Grade Mode
Standard Letter

Repeat Status
NR

Course Description

This course introduces the fundamental plumbing theory for the plumbing apprenticeship and will cover the International Plumbing Code, related math, and craft skills.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

TEPL1210 - Plumbing II A - 3 - Credits

Course Overview

Course Prefix
TEPL

Course Number
1210

Department
Technology, Design & Technical Ed

Course Title
Plumbing II A

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces the fundamental plumbing theory for the plumbing apprenticeship and will cover the International Plumbing Code, related math, and craft skills.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Other Enrollment Recommendations

TEPL1120 PLUMBING I B

No Requirements

TEPL1220 - Plumbing II B - 3 - Credits

Course Overview

Course Prefix
TEPL

Course Number
1220

Department
Technology, Design & Technical Ed

Course Title
Plumbing II B

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces the fundamental plumbing theory for the plumbing apprenticeship and will cover the International Plumbing Code, International Fuel Gas Code, International Mechanical Code, related math, and craft skills.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Other Enrollment Recommendations

TEPL1210 PLUMBING II A

No Requirements

TEPL1310 - Plumbing IIIA - 3 - Credits

Course Overview

Course Prefix
TEPL

Course Number
1310

Department
Technology, Design & Technical Ed

Course Title
Plumbing IIIA

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course continues to explore the fundamentals of plumbing theory for the apprentice plumbers and covers the International Plumbing Code (IPC), International Fuel Gas Code (IFGC) and International Mechanical Code (IMC), along with related math and craft skills.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Identify materials detrimental to sewer systems.
2. Determine protection of pipes and plumbing system components.
3. Explain washroom and toilet room requirements.
4. Describe specialty plumbing fixtures.
5. Determine proper water heater, vents, and combustion air installation requirements as per the International Mechanical Code (IMC) and the International Fuel Gas Code (IFGC).
6. Calculate combustion air, chimneys, and vent sizes.
7. Determine volume of Rectangular Solids, Cylinders.
8. Identify NPFA 13D residential fire sprinklers.
9. Fabricate several piping projects in a lab situation.

TEPL1320 - Plumbing IIIB - 3 - Credits

Course Overview

Course Prefix
TEPL

Course Number
1320

Department
Technology, Design & Technical Ed

Course Title
Plumbing IIIB

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces the fundamental Plumbing theory for the Apprentice Plumbers and covers the International Plumbing Code (IPC), International Fuel Gas Code and International Mechanical Code, along with related math and craft skills.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Calculate size of fuel piping and fuel-gas piping.
2. Describe vents and commercial/industrial application.
3. Describe indirect/special waste and commercial/industrial application.
4. Calculate size of water supply and distribution review and commercial/industrial applications.
5. Identify special piping and storage systems.
6. Explain Utah Amendments and R617-4.
7. Fabricate several piping projects in a lab situation.
8. Calculate sizing of various water and drain piping systems.

TEPL1410 - Plumbing IVA - 3 - Credits

Course Overview

Course Prefix
TEPL

Course Number
1410

Department
Technology, Design & Technical Ed

Course Title
Plumbing IVA

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course reviews the International Plumbing Code (IPC), International Fuel Gas Code and International Mechanical Code, math, and other laws in preparation for taking the journeyman state test.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Define all chapters of the International Plumbing Code.
2. Apply mathematics related to plumbing, angles, rolling offsets and pipe lengths.
3. Explain storm drainage and commercial/industrial application for sizing roof drains.
4. Explain International Mechanical Code for general, combustion air, boilers, and hydronics.
5. Discuss Utah Amendments to the Code.
6. Identify National Fire Protection Association (NFPA) 13D residential fire sprinklers.
7. Explain R317-4 onsite wastewater.
8. Fabricate several piping projects in a lab situation.

TEPL1420 - Plumbing IVB - 3 - Credits

Course Overview

Course Prefix
TEPL

Course Number
1420

Department
Technology, Design & Technical Ed

Course Title
Plumbing IVB

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course assists the apprentices in preparation for the state test and provides a foundation for success as a journeyman plumber. Modules are available, focusing on what each student needs to prepare for the test.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Review International Plumbing Code (IPC) chapters.
2. Apply mathematics for plumbers and pipefitters.
3. Use International Fuel Gas Code for gas pipe installation and sizing.
4. Define traps and commercial applications.
5. Explain storm drainage and commercial/industrial applications.
6. Identify boilers, water heaters, and pressure vessels.
7. Perform applied trade formulas using different equations.
8. Calculate heat loss vs. radiator size.
9. Determine radiation sizing for total heat loss of a room.
10. Use Journeyman skills such as takeoff lists, leadership skills, communication, and basic business skills.
11. Fabricate several piping projects in a lab situation.

TEPT1010 - Introduction to Pharmacy - 3 - Credits

Course Overview

Course Prefix
TEPT

Course Number
1010

Department
Technology, Design & Technical Ed

Course Title
Introduction to Pharmacy

Grade Mode
Standard Letter

Repeat Status
NR

Course Description

This course is an introduction to the pharmacy technician profession, roles, and the different types of pharmacies within the healthcare delivery system. Students are introduced to state and federal pharmacy practice laws, patient care process, concepts of pharmacology, medications and calculations.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Registration Restrictions
Admission to the Pharmacy Technician - Technical Certificate program

Special Approval
Instructor permission

Other Enrollment Recommendations

STAT1040 INTRO TO STATISTICS (QL) or MATH1050 COLLEGE ALGEBRA (QL) and ENGL1010 WRITING AS INQUIRY (CL1)

Simple Requisites

Prerequisite

Type
Prerequisite

Required

MATH ACT score of 19 or Aleks placement score of 30 or higher; ENGLISH ACT score of 17 or Accuplacer with the following components: Writeplacer 5-8, Nextgen Reading 250+, Nextgen Writing 250+. Students must have a GPA of 3.0

Course Learning Objectives

Course Learning Outcomes

1. Compare and contrast the pharmacy technician's role, pharmacist's role, and other occupations in the healthcare environment.
2. Describe and apply state and federal laws pertaining to the pharmacy practice.
3. Recognize and apply the pharmacists' patient care process.
4. Relate the basic history of pharmacy to today's pharmacy practice.
5. Demonstrate the technicians' role in the medication use process.

TEPT1100 - Community Pharmacy Practice - 3 - Credits

Course Overview

Course Prefix
TEPT

Course Number
1100

Department
Technology, Design & Technical Ed

Course Title
Community Pharmacy Practice

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course teaches the skills necessary for working in community pharmacy settings. Students perform hands-on skill simulations including data entry, prescription processing, billing, fulfillment, inventory management, customer service, and patient safety.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Registration Restrictions
Admission to the PHTE-PHTE_CC-MAJOR - Missing program program

Special Approval
Instructor permission

Other Enrollment Recommendations
STAT1040 INTRO TO STATISTICS (QL) or MATH1050 COLLEGE ALGEBRA (QL) and ENGL1010 WRITING AS INQUIRY (CL1)

Simple Requisites

Prerequisite

Type
Prerequisite

Required

MATH ACT score of 19 or Aleks placement score of 30 or higher; ENGLISH ACT score of 17 or Accuplacer with the following components: Writeplacer 5-8, Nextgen Reading 250+, Nextgen Writing 250+. Students must have a GPA of 3.0

Course Learning Objectives

Course Learning Outcomes

1. Perform essential duties and functions of a pharmacy technician in a community pharmacy.
2. Describe major trends, issues, goals and initiatives taking place in the pharmacy profession.
3. Initiate, verify, and manage billing for complex and/or specialized pharmacy services and goods
4. Apply interpersonal skills, including negotiation skills, conflict resolution, customer service, communicating patient safety, and teamwork.

TEPT1110 - Institutional Pharmacy Practice - 3 - Credits

Course Overview

Course Prefix
TEPT

Course Number
1110

Department
Technology, Design & Technical Ed

Course Title
Institutional Pharmacy Practice

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course teaches the skills necessary for working in institutional pharmacy settings. Students will utilize hands-on skill simulations of institutional pharmacy responsibilities including sterile compounding and aseptic technique, hazardous drug management, unit dosing and dispensing, patient safety, and communication with hospital staff.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Registration Restrictions

Admission to the PHTE-PHTE_CC-MAJOR - Missing program program

No Requirements

TEPT1320 - Pharmacology - 3 - Credits

Course Overview

Course Prefix
TEPT

Course Number
1320

Department
Technology, Design & Technical Ed

Cross-Listed Courses
TEMA1050 - Pharmacology

Course Title
Pharmacology

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces pharmaceuticals, including commonly prescribed medications, trade and generic names, actions, side effects, and dosages. Students learn proper administration of oral, injectable, and non-injectable drugs and review essential math skills for conversions and accurate dosage calculations.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Special Approval

Advisor Permission

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Math ACT score of 19 or ALEKS score of 14 or higher or any QL Math; English ACT score of 17 or ENGL 1010.

Course Learning Objectives

Course Learning Outcomes

1. Describe principles of general chemistry, cell biology, and human physiology and pathology.
2. Demonstrate the abililty to utilize online medication resources.
3. Demonstrate knowledge of the brand and generic names and therapeutic category for the top 200 most commonly prescribed medications in the U.S.
4. Practice using drug references to obtain information on medications to be administered, prescribed, or otherwise used in practice settings.
5. Demonstrate understanding of the core principles of pharmacology, and the characteristics, use, precautions of key representative medications from all major therapeutic categories.

TEPT1620 - Pharmacy Technician National Exam and State Licensure Readiness - 1 - Credits

Course Overview

Course Prefix
TEPT

Course Number
1620

Department
Technology, Design & Technical Ed

Course Title

Pharmacy Technician National Exam and State Licensure Readiness

Grade Mode
Standard Letter

Repeat Status
NR

Course Description

This course prepares students for the National and Utah State Licensure exams through a series of guided practices based on examination content areas. These guided practices allow students and instructors an opportunity to identify areas for instructor remediation.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Gain familiarity with common test taking mistakes and develop strategies to overcome them.
2. Utilize knowledge learned in the Pharmacy Technician program to successfully identify the correct information on the National Exam and State Licensure exam.
3. Demonstrate knowledge of program accreditation outcome requirements including sitting for and passing licensure exam.
4. Describe legal requirements of medication prescribing and use.
5. Describe the requirements for obtaining and maintaining licensure and certification.

TEPT1900 - Pharmacy Technician Externship - 4 - Credits

Course Overview

Course Prefix
TEPT

Course Number
1900

Department
Technology, Design & Technical Ed

Course Title
Pharmacy Technician Externship

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students demonstrate their abilities to function as a pharmacy technician in industry settings. This experience takes place under the supervision of a pharmacist or an experienced pharmacy technician, and includes a combination of skills-practice and evaluation.

Credit Hours

Credit Hours Min:
4

Contact Hours

Contact Hours Min:
4

Billing Hours

Billing Hours Min:
4

Lecture Hours

Lecture Hours Min:
4

Registration Restrictions
Admission to the PHTE-PHTE_CC-MAJOR - Missing program program

Special Approval
Instructor permission

Other Enrollment Recommendations
STAT1040 INTRO TO STATISTICS (QL) or MATH1050 COLLEGE ALGEBRA (QL) and ENGL1010 WRITING AS INQUIRY (CL1)

Simple Requisites

Prerequisite

Type
Prerequisite

Required

MATH ACT score of 19 or Aleks placement score of 30 or higher; ENGLISH ACT score of 17 or Accuplacer with the following components: Writeplacer 5-8, Nextgen Reading 250+, Nextgen Writing 250+. GPA of 3.0 is required for admittance

TERT1020 - Radiography Anatomy and Procedures - 3 - Credits

Course Overview

Course Prefix
TERT

Course Number
1020

Department
Technology, Design & Technical Ed

Course Title
Radiography Anatomy and Procedures

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course trains students to perform x-ray imaging of the chest, abdomen, upper limb, and shoulder. Instruction includes patient and tube positioning, anatomy and landmark identification, and post-processing techniques, providing hands-on experience from image acquisition through completion of each exam.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Special Approval
Advisor permission

Course Learning Objectives

Course Learning Outcomes

• Demonstrate their anatomy and landmark knowledge of the chest, abdomen, upper limb, humerus, shoulder girdle.

• Simulate the routine and special positions and projections for the chest, abdomen, upper limb, and shoulder procedures in both the lecture and lab settings.

• Describe skeletal trauma and fracture terminology related to the chest, abdomen, upper limb, and shoulder girdle.

TERT1030 - Radiographic Imaging and Exposure Techniques - 3 - Credits

Course Overview

Course Prefix
TERT

Course Number
1030

Department
Technology, Design & Technical Ed

Course Title
Radiographic Imaging and Exposure Techniques

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces x-ray imaging and exposure techniques, covering x-ray production, x-ray tube components, and core methods for creating visible images. Students also learn digital imaging basics and proper post-processing techniques to ensure accurate, high-quality diagnostic images in clinical practice.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Special Approval
Advisor permission

Course Learning Objectives

Course Learning Outcomes

• Describe the components of an x-ray tube, beam and how x-rays are produced.

• Explain the properties and characteristics of x-rays.

• Identify the different types of image receptors and explain their propter use.

• Use the key features in the digital image process and in post processing.

TERT1050 - Patient Care - 1 - Credits

Course Overview

Course Prefix
TERT

Course Number
1050

Department
Technology, Design & Technical Ed

Course Title
Patient Care

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course prepares students to deliver exceptional patient care in clinical settings. Instruction includes proper patient transfer techniques, sterile procedures, effective communication, and infection control measures. Students gain essential skills to ensure safety, professionalism, and quality care in healthcare environments.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Special Approval
Advisor Permission

Course Learning Objectives

Course Learning Outcomes

• List what the radiography technologist's role is and what standards they are expected to abide by.

• Maintain a professional attitude toward various patient populations with an ability to meet their individual needs including those of diverse ethnicity, religion, disability, gender, age, and sexual orientation.

• Use safety precautions and proper infection control procedures.

• Assess the patient's needs and demonstrate proper transportation techniques to the patient if needed.

• Describe sterile techniques that they will use during procedures in and out of surgery.

TERT1070 - Radiography Clinicals I - 6 - Credits

Course Overview

Course Prefix
TERT

Course Number
1070

Department
Technology, Design & Technical Ed

Course Title
Radiography Clinicals I

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course allows students to apply classroom and lab knowledge in clinical settings. Under supervision, students position patients, practice radiation safety, and perform x-rays. The real-world experiences provide insight into the responsibilities and workflow of a professional X-ray technologist.

Credit Hours

Credit Hours
Min:
6

Contact Hours

Contact Hours
Min:
6

Billing Hours

Billing Hours
Min:
6

Lecture Hours

Lecture Hours
Min:
6

Special Approval
Advisor Permission

Course Learning Objectives

Course Learning Outcomes

1. Use proper radiation protection techniques during each x-ray exam.
2. Execute x-ray imaging exams from start to finish under the direction of the x-ray department staff.
3. Select technical factors to produce quality diagnostic images with the mindset of ALARA.
4. Pass off their X-ray Competencies for Chest, Abdomen, Upper Limb, and Shoulder Girdle.

TERT1110 - Radiology Physics - 1 - Credits

Course Overview

Course Prefix
TERT

Course Number
1110

Department
Technology, Design & Technical Ed

Course Title
Radiology Physics

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers the physics of x-ray production, including beam characteristics, creation, and travel. Students learn photon interactions with matter, effects on atoms and cells, and explore electrical circuits and types used in the x-ray process for diagnostic imaging.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Special Approval
Advisor Permission

Course Learning Objectives

Course Learning Outcomes

• Explain the difference between AC and DC circuits.

• Identify and describe each part of the x-ray circuit and what it does.

• Demonstrate the creation process of the x-ray beam and how it travels through the x-ray tube.

• Describe the different ways that x-rays photons can interact with matter and the cause.

TERT1120 - Radiography Anatomy and Procedures II - 3 - Credits

Course Overview

Course Prefix
TERT

Course Number
1120

Department
Technology, Design & Technical Ed

Course Title
Radiography Anatomy and Procedures II

Grade Mode
Standard Letter

Repeat Status
NR

Course Description

This course trains students to perform x-ray imaging of the lower extremities, spine, pelvis, and ribs while reinforcing prior skills. Instruction includes patient and tube positioning, anatomy identification, landmark recognition, and post-processing techniques, providing complete hands-on experience from start to finish.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Special Approval

Advisor Permission

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- TERT1020 - Radiography Anatomy and Procedures

Course Learning Objectives

Course Learning Outcomes

• Demonstrate their anatomy and landmark knowledge of the lower extremities, spine, pelvis, and ribs.

• Describe skeletal trauma and fracture terminology related to the lower extremities, spine, pelvis, and ribs.

• Explain the routine and special positions and projections for the lower extremities, spine, pelvis, and ribs procedures in the lab setting.

TERT1130 - Radiographic Imaging II - 2 - Credits

Course Overview

Course Prefix
TERT

Course Number
1130

Department
Technology, Design & Technical Ed

Course Title
Radiographic Imaging II

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course builds on students' imaging and exposure knowledge, enhancing technical skills. Instruction covers x-ray creation, exposure values, digital imaging processes, automatic exposure control, and post-processing techniques. Students practice these methods in lab settings to strengthen proficiency in diagnostic imaging.

Credit Hours

Credit Hours Min:
2

Contact Hours

Contact Hours Min:
2

Billing Hours

Billing Hours Min:
2

Lecture Hours

Lecture Hours Min:
2

Special Approval
Advisor permission

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- TERT1030 - Radiographic Imaging and Exposure Techniques

Course Learning Objectives

Course Learning Outcomes

• Explain scatter radiation and the purpose of grids.

• Describe the process of using AEC along with manual techniques and how it benefits their patient.

• Demonstrate proficiency in the different imaging techniques and manipulation of techniques increase during time spent in the lab.

• Use the specific formulas associated with image quality to make their images better.

TERT1140 - Radiation Protection and Radiobiology - 1 - Credits

Course Overview

Course Prefix
TERT

Course Number
1140

Department
Technology, Design & Technical Ed

Course Title
Radiation Protection and Radiobiology

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course teaches radiation protection methods and the effects of exposure. Students learn beam filtration, restriction, patient considerations, ALARA principles, and the importance of time, distance, and shielding. Instruction includes dosimeter use and biological effects of radiation on the body.

Credit Hours

Credit Hours Min:
1

Contact Hours

Contact Hours Min:
1

Billing Hours

Billing Hours Min:
1

Lecture Hours

Lecture Hours Min:
1

Special Approval
Advisor permission

Course Learning Objectives

Course Learning Outcomes

- Explain the ALARA principle and its relationship to time, distance, and shielding.
- Identify the biological effects that can happen due to radiation.
- Explain the difference between short- and long-term somatic effects.
- Describe the methods of filtration, beam restriction, and patient consideration.
- Demonstrate proper radiation protection techniques.

TERT1170 - Radiography Clinicals II - 6 - Credits

Course Overview

Course Prefix
TERT

Course Number
1170

Department
Technology, Design & Technical Ed

Course Title
Radiography Clinicals II

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course allows students to apply classroom and lab knowledge in clinical settings. Under supervision, students position patients, practice radiation safety, perform x-rays, and assist with fluoroscopy, surgical C-arm exams, and DEXA scans, gaining real-world experience as X-ray technologists.

Credit Hours

Credit Hours Min:
6

Contact Hours

Contact Hours Min:
6

Billing Hours

Billing Hours Min:
6

Lecture Hours

Lecture Hours Min:
6

Special Approval
Advisor permission

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- TERT1070 - Radiography Clinicals I

Course Learning Objectives

Course Learning Outcomes

• Use proper radiation protection techniques during each x-ray exam.

• Execute x-ray imaging exams from start to finish under the direction of the x-ray department staff.

• Select technical factors to produce quality diagnostic images with the mindset of ALARA.

• Pass off their X-ray Competencies for lower extremities, spine, pelvis, and ribs.

TERT2010 - Rad and Pediatric Pathology - 1 - Credits

Course Overview

Course Prefix
TERT

Course Number
2010

Department
Technology, Design & Technical Ed

Course Title
Rad and Pediatric Pathology

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces common pathologies encountered during clinical rotations and teaches strategies for assisting pediatric patients throughout imaging exams. Students learn to identify various pathological conditions on images while gaining practical skills to support patient care during diagnostic procedures.

Credit Hours

Credit Hours Min:
1

Contact Hours

Contact Hours Min:
1

Billing Hours

Billing Hours Min:
1

Lecture Hours

Lecture Hours Min:
1

Special Approval

Advisor permission

Course Learning Objectives

Course Learning Outcomes

• Describe techniques to help their pediatric patients through their exam.

• Demonstrate their knowledge of different pathology cases.

• Identify different pediatric and adult pathologies they may see in clinicals and what they learn in class.

TERT2020 - Radiography Anatomy and Procedures III - 2 - Credits

Course Overview

Course Prefix
TERT

Course Number
2020

Department
Technology, Design & Technical Ed

Course Title
Radiography Anatomy and Procedures III

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course trains students to perform x-ray imaging of the upper and lower GI tract, urinary and biliary systems, skull, sinuses, facial bones, and trauma views. Instruction includes anatomy identification, patient positioning, tube alignment, and accurate post-processing techniques.

Credit Hours

Credit Hours Min:
2

Contact Hours

Contact Hours Min:
2

Billing Hours

Billing Hours Min:
2

Lecture Hours

Lecture Hours Min:
2

Special Approval

Advisor permission

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- TERT1120 - Radiography Anatomy and Procedures II

Course Learning Objectives

Course Learning Outcomes

• Demonstrate their anatomy and landmark knowledge of the upper and lower GI tract, urinary tract and biliary tract along with the Skull, Sinus, Facial Bones, and trauma x-ray views.

• Explain the routine and special positions and projections for the Skull, Sinus, Facial Bones procedures in the lab setting.

• Describe skeletal trauma and fracture terminology related to the Skull, Sinus, and Facial Bones.

TERT2030 - Alternate Modality and Sectional Anatomy - 2 - Credits

Course Overview

Course Prefix
TERT

Course Number
2030

Department
Technology, Design & Technical Ed

Course Title
Alternate Modality and Sectional Anatomy

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces imaging modalities in radiology and provides a foundation in cross-sectional anatomy. Taught by specialized imaging professionals, students explore career options, gain modality-specific insights, and learn to identify anatomical structures in cross-sectional views for advanced diagnostic understanding.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Special Approval
Advisor permission

Course Learning Objectives

Course Learning Outcomes

- Explain the difference between each imaging modality.
- Describe sectional anatomy terms.
- Identify different cross sections of the body.

TERT2070 - Radiography Clinicals III - 6 - Credits

Course Overview

Course Prefix
TERT

Course Number
2070

Department
Technology, Design & Technical Ed

Course Title
Radiography Clinicals III

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides students with real-world clinical experience, applying classroom and lab knowledge in healthcare settings. Under supervision, students position patients, practice radiation safety, perform x-rays, and assist with fluoroscopy, surgical C-arm exams, and DEXA scans, gaining comprehensive technologist skills.

Credit Hours

Credit Hours
Min:
6

Contact Hours

Contact Hours
Min:
6

Billing Hours

Billing Hours
Min:
6

Lecture Hours

Lecture Hours
Min:
6

Special Approval
Advisor permission

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- TERT1170 - Radiography Clinicals II

Course Learning Objectives

Course Learning Outcomes

• Use proper radiation protection techniques during each x-ray exam.

• Execute x-ray imaging exams from start to finish under the direction of the x-ray department staff.

• Select technical factors to produce quality diagnostic images with the mindset of ALARA.

• Pass off their Imaging Competencies for upper and lower GI tract, urinary tract and biliary tract along with the skull, sinus, facial bones, and trauma x-ray views.

TERT2150 - Registry Review - 3 - Credits

Course Overview

Course Prefix
TERT

Course Number
2150

Department
Technology, Design & Technical Ed

Course Title
Registry Review

Grade Mode
Standard Letter

Repeat Status
NR

Course Description

This course prepares students for the ARRT national board exam by providing study resources, practice tests, and review aids. Students receive structured guidance to reinforce knowledge and develop test-taking strategies essential for successfully completing certification requirements.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Special Approval

Advisor permission

Course Learning Objectives

Course Learning Outcomes

• Demonstrate their knowledge of the program based on their practice board exams.

• Describe the format of the ARRT board exam.

• Explain the main principles of radiography technology.

• Demonstrate their knowledge of patient protection, patient positioning, and patient care.

TERT2170 - Radiography Clinicals IV - 2 - Credits

Course Overview

Course Prefix
TERT

Course Number
2170

Department
Technology, Design & Technical Ed

Course Title
Radiography Clinicals IV

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides hands-on clinical experience, allowing students to apply classroom and lab knowledge in real healthcare settings. Under supervision, students position patients, practice radiation safety, perform x-rays, and assist with fluoroscopy, surgical C-arm exams, and DEXA scans, gaining professional skills.

Credit Hours

Credit Hours Min:
2

Contact Hours

Contact Hours Min:
2

Billing Hours

Billing Hours Min:
2

Lecture Hours

Lecture Hours Min:
2

Special Approval
Advisor permission

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- TERT2070 - Radiography Clinicals III

Course Learning Objectives

Course Learning Outcomes

• Use proper radiation protection techniques during each x-ray exam.

• Execute x-ray imaging exams from start to finish under the direction of the x-ray department staff.

• Select technical factors to produce quality diagnostic images with the mindset of ALARA.

• Pass off their Imaging Competencies for all exams they have learned throughout the program.

TESY1000 - Introduction to Technology and Design - 2 - Credits

Course Overview

Course Prefix
TESY

Course Number
1000

Department
Technology, Design & Technical Ed

Course Title
Introduction to Technology and Design

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course emphasizes problem-solving, teamwork, and industry insights, preparing students to design, manage, and implement technology systems in real-world environments.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Course Learning Objectives

Course Learning Outcomes
Course Learning Outcomes:

1. This class introduces students to foundational concepts in technology systems preparing them to design, implement, and manage basic technology solutions. Students will engage with industry professionals through guest lectures and case studies to explore how these systems operate in real-world scenarios.
2. Students will be equipped to address foundational technological challenges by applying data-driven decision-making and innovative thinking. This class will feature practical assignments and collaborative projects with industry input, enabling students to practice solving problems relevant to contemporary workplace needs.
3. This class will prepare students to understand the relationship between technology systems and business strategies. Through industry partnerships, students will gain exposure to how technology drives organizational success. Classroom discussions, group activities, and guest speakers will help students begin building the communication, collaboration, and leadership skills necessary for cross-functional teamwork.
4. This class helps students develop essential skills for working within diverse teams. Collaborative assignments will focus on teamwork and project management, with opportunities to engage with industry representatives to understand how team dynamics influence the success of technology-driven projects.

TESY1020 - Energy, Power, Transportation Systems Control Technology - 3 - Credits

Course Overview

Course Prefix
TESY

Course Number
1020

Department
Technology, Design & Technical Ed

Course Title
Energy, Power, Transportation Systems Control Technology

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course explores the concepts and processes relating to the control and automation (both hard and programmable) of technical systems in the areas of energy and power, transportation, and agricultural and related biotechnologies.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Course Learning Objectives

Course Learning Outcomes

1. Identify and explain the sources of various exhaustible, renewable, and inexhaustible energies.
2. Explain the different forms of energy.
3. Define potential and kinetic energy.
4. Measure the power and energy in various systems.
5. Describe the various relationships between energy/power and the environment.
6. Explain, measure, and control the transmission of power in mechanical, fluid, and electrical systems.
7. Utilize automated control systems.
8. Explain the principles and characteristics of various transportation systems.
9. Explain the principles and characteristics of external and internal combustion engines.
10. Explain the principles and characteristics of different energy and power systems.

TESY1030 - Material Processing Systems - 3 - Credits

Course Overview

Course Prefix
TESY

Course Number
1030

Department
Technology, Design & Technical Ed

Course Title
Material Processing Systems

Grade Mode
Standard Letter

Repeat Status
NR

Course Description

This course provides an introduction to properties of industrial materials (metallic, polymeric, ceramic, and composite), processes used to produce standard stock and finished products, and the use of precision measuring instruments in manufacturing. Course may include a separate lab component.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Registration Restrictions

Admission to the following declared majors only:

Aircraft Maintenance Technician - Airframe & Powerplant - AAS

Aviation Technology - Maintenance Management - BS

General Technology: Design and Creative Arts - AAS

General Technology: Technology Systems - AAS

Outdoor Product Design and Development - BS

Technology Systems: Cybersecurity Emphasis - BS

Technology Systems: Information and Computer Technology Emphasis - BS

Technology Systems: Product Development Emphasis - BS

Technology Systems: Quality and Reliability Emphasis - BS

Technology Systems: Robotics, Automation, and Controls Emphasis - BS

Technology Systems: Technical Management Emphasis - BS

Technology and Engineering Education - BS

Engineering Technology - AAS

Engineering Technology - BAS

Course Learning Objectives

Course Learning Outcomes

1. Describe the fundamental principles of materials science and their applications in manufacturing processes.
2. Identify the properties, characteristics, and behavior of different classes of materials.
3. Apply knowledge of materials to make informed decisions in the selection of appropriate materials for specific applications.
4. Demonstrate proficiency in common manufacturing processes and techniques used in various industries.
5. Interpret engineering drawings and specifications to create functional components.
6. Perform quality control procedures in a laboratory setting.
7. Identify and address sustainability considerations in materials selection and manufacturing practices.

TESY1200 - Computer-Aided Drafting and Design - 3 - Credits

Course Overview

Course Prefix
TESY

Course Number
1200

Department
Technology, Design & Technical Ed

Course Title
Computer-Aided Drafting and Design

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides students with the ability to accurately produce basic engineering, 2-D, and pictorial drawings using traditional and computer-aided drafting techniques. It introduces drafting fundamentals and equipment associated with the drafting industry, including drawings, reproductions, and computer-aided techniques.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Course Learning Objectives

Course Learning Outcomes

1. Develop an understanding of objects as they are represented in the physical world (real objects), virtual world (3D computer models), and in 2D orthographic drawings (engineering drawings). Students will also begin to develop skills in modifying, designing, and improving objects throughout the three mediums.
2. Develop and apply understandings of engineering graphics and standards.
3. Develop the ability to create 3D CAD models and assemblies.
4. Reverse engineer a physical object via computer modeling and apply the design process to improve the object or create a physical compatible accessory
5. Take the CSWA exam to become Solidworks certified

TESY2200 - Intermediate CAD - 3 - Credits

Course Overview

Course Prefix
TESY

Course Number
2200

Department
Technology, Design & Technical Ed

Course Title
Intermediate CAD

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course is designed to explore advanced tools to create working drawings. Additionally students explore content required for the Certified SOLIDWORKS Professional (CSWP), and CSWP Sheet Metal certification exams.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- TESY1200 - Computer-Aided Drafting and Design
  OR MAE1200 - Engineering Graphics
  OR BENG1200 - SolidWorks for Biological Engineers
  OR EDDT1200 - 3D Modeling

Course Learning Objectives

Course Learning Outcomes

1. Demonstrate skill using advanced part design methods to create 3D models
2. Utilize advanced assembly tools to create complex working assemblies.
3. Demonstrate and understanding of geometric dimensioning and tolerancing

(GD&T) by producing drawings.
4. Create sheet metal parts and drawings.
5. Identify and explore industry certifications.

TESY2250 - Occupational Experience in General Technology - 1 - 6 Credits

Course Overview

Course Prefix
TESY

Course Number
2250

Department
Technology, Design & Technical Ed

Course Title
Occupational Experience in General Technology

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Occupational experiences are designed to provide an opportunity for students to gain experience outside the traditional classroom setting and to provide a special opportunity for students to enhance their professional/vocational interests.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
6

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
6

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
6

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
6

Lecture Hours Operator:
TO

Special Approval
Instructor permission

TESY2940 - Related Industry Experience and Credential - 1 - 12 Credits

Course Overview

Course Prefix
TESY

Course Number
2940

Department
Technology, Design & Technical Ed

Course Title
Related Industry Experience and Credential

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
This course provides for enrollment in industry training conducted on university-level competencies. It is approved by the department upon application for a trade competency examination and work experience in the industry.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
12

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
12

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
12

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
12

Lecture Hours Operator:
TO

Special Approval
Instructor permission

Course Learning Objectives

Course Learning Outcomes
1. Gain real-world experience in the workforce

2. Develop a short report or portfolio explaining in detail your experience in the workforce

TESY3000 - Hazard Recognition & Control - 3 - Credits

Course Overview

Course Prefix
TESY

Course Number
3000

Department
Technology, Design & Technical Ed

Course Title
Hazard Recognition & Control

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
The Hazard Recognition and Control training course teaches participants the fundamentals of how to identify hazards in the workplace, rate the risk of the hazards identified, and recommend controls to eliminate or minimize the risks of these hazards using various tools developed by safety professionals.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Course Learning Objectives

Course Learning Outcomes

1. Identify and Classify Workplace Hazards
• Demonstrate an understanding of and identify various physical and health hazards across different operational areas, including:
o Common Safety Hazards: Electrical safety, fall protection, fire prevention, slips/trips/falls, and safe tool use.
o Equipment Hazards: Forklift safety, machine guarding, welding, and materials handling.
o Health and Environmental Hazards: Confined space entry, hazard communication, respiratory protection, and bloodborne pathogens.
2. Evaluate and Apply Risk Management Models
• Evaluate identified hazards by applying the risk model (likelihood vs. severity) to effectively rate the risk level associated with workplace dangers.
• Analyze the four domains of safety (which typically include people, equipment, environment, and process/policy) and explain their interconnected roles in maintaining a safe work environment.

3. Recommend and Implement Control Measures
• Formulate and recommend appropriate control measures (following the hierarchy of controls: elimination, substitution, engineering controls, administrative controls, and PPE) to eliminate or minimize identified risks.
• Apply safety best practices and proper personal protective equipment (PPE) standards, including head, eye, foot, and hand protection.
• Explain and demonstrate safe operational procedures for specific high-risk tasks, such as Lockout/Tagout (LOTO) and proper lifting/ergonomics.
4. Understand and Comply with Safety Regulations
• Summarize the key purpose and requirements of OSHA (Occupational Safety and Health Administration) regulations that all employers and employees must comply with.
• Develop an awareness of broader workplace safety issues, including emergency response, workplace security, and addressing violence in the workplace.

TESY3020 - Strategic Human Skills Development (CI) - 3 - Credits

Course Overview

Course Prefix
TESY

Course Number
3020

Department
Technology, Design & Technical Ed

Course Title
Strategic Human Skills Development (CI)

General Education Attribute
CI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description

This course helps students develop essential workplace human skills through a course project, weekly reading group discussions, and professional communication. Students enhance their interpersonal abilities, contributing to their own human capital and increasing their value in any professional environment.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Course Learning Objectives

Course Learning Outcomes

1. Develop and write with purpose and consideration of various audiences in accordance with genre and disciplinary conventions.
2. Develop oral communication with purpose and consideration of various audiences in accordance with genre and disciplinary conventions.
3. Engage in the iterative process of improving communication based on feedback from an informed audience.
4. Develop an ability to intentionally craft language for one's purposes.

TESY3030 - Computer-Integrated Manufacturing Systems - 3 - Credits

Course Overview

Course Prefix
TESY

Course Number
3030

Department
Technology, Design & Technical Ed

Course Title
Computer-Integrated Manufacturing Systems

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces principles, operations, and applications of automated manufacturing systems, including: data acquisition and controls, CNC, CAD/CAM, and robotics.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Required

Type
Prerequisite

Required

Complete ALL of the following Courses:

- TESY1030 - Material Processing Systems
- TESY1200 - Computer-Aided Drafting and Design
  OR MAE1200 - Engineering Graphics
  OR EDDT1200 - 3D Modeling
  OR BENG1200 - SolidWorks for Biological Engineers

Course Learning Objectives

Course Learning Outcomes

1. Identify the attributes, uses, advantages, and disadvantages of the components used in manufacturing automation.
2. Program a servo robot to perform various pick and place procedures.
3. Design and implement solutions to problems encountered in computer-integrated manufacturing systems.
4. Write programs to control CNC mills, servo robots, and automated control systems.
5. Utilize parametric modeling (CAD), CAD/CAM, and CNC post processor software packages to generate CNC machine code.
6. Modify and 3D print a design solution.
7. Understand the ethics related to the use of automation in the manufacturing workplace.

TESY3040 - Design for Additive Manufacturing - 3 - Credits

Course Overview

Course Prefix
TESY

Course Number
3040

Department
Technology, Design & Technical Ed

Course Title
Design for Additive Manufacturing

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course is designed to introduce students to 3D modeling design concepts and constraints when using additive manufacturing in product creation. Students design and create models specifically for additive manufacturing.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- TESY3200 - Additive Manufacturing I

Course Learning Objectives

Course Learning Outcomes

1. Students will apply design techniques specific to AM, such as topology optimization, lightweight structures, and minimizing material waste, to create efficient and innovative components.
2. Students will analyze and optimize designs for manufacturability, performance, and cost-efficiency, considering the unique constraints and capabilities of AM technologies.
3. Students will develop a comprehensive understanding of the principles, processes, and materials used in additive manufacturing (AM) and their applications across various industries.

TESY3200 - Additive Manufacturing I - 3 - Credits

Course Overview

Course Prefix
TESY

Course Number
3200

Department
Technology, Design & Technical Ed

Course Title
Additive Manufacturing I

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Introduces students to Additive Manufacturing and the importance it plays now and in the future. This course explores many of the technologies that exist and gives hands-on approach to many additive manufacturing methods. Course may include a separate lab component.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Other Enrollment Recommendations

TESY1200 CAD AND DESIGN or MAE1200 ENGINEERING GRAPHICS or BENG1200 BIOLOGICAL ENGR SOLIDWORKS or EDDT1200 3D MODELING

Course Learning Objectives

Course Learning Outcomes

1. Explain how additive manufacturing can give their products a competitive advantage in their jobs and in their businesses.
2. Detail all the emerging and existing technologies with additive manufacturing
3. Explain the many materials and properties for materials used in additive manufacturing.
4. Develop foundational thinking skills that will support the lifelong pursuit of their personal and professional goals

TESY3210 - Additive Manufacturing II - 3 - Credits

Course Overview

Course Prefix
TESY

Course Number
3210

Department
Technology, Design & Technical Ed

Course Title
Additive Manufacturing II

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students are introduced to Additive Manufacturing, and learn how it is shaping the future of manufacturing. Students work on projects in a 3D printing production environment, review content, and take part in quizzes and discussions online. Lab component included.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- TESY3200 - Additive Manufacturing I

Course Learning Objectives

Course Learning Outcomes

1. Explain the advantages of additive manufacturing in comparison to other traditional manufacturing methods.
2. Identify the current and emerging additive manufacturing methods and

technologies.
3. Describe various materials used in additive manufacturing today.
4. Demonstrate the product design process.

TESY3270 - Advanced Computer-Aided Drafting - 3 - Credits

Course Overview

Course Prefix
TESY

Course Number
3270

Department
Technology, Design & Technical Ed

Course Title
Advanced Computer-Aided Drafting

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course is designed to enhance CADD productivity, encourage customization, and introduce students to advanced CADD techniques, including programming and introduction to parametric design.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- TESY2200 - Intermediate CAD

Course Learning Objectives

Course Learning Outcomes

1. Achieve proficiency in Surface Modeling techniques.
2. Understand and apply concepts in Simulation (CSWP-Simulation).
3. Master Model-Based Definition (MBD) for engineering drawings.

4. Apply GD&T principles in design.
5. Enhance visualization through rendering techniques.
6. Prepare for and pass SolidWorks certification exams.

TESY3300 - Electronic Systems and Programming (QI) - 3 - Credits

Course Overview

Course Prefix
TESY

Course Number
3300

Department
Technology, Design & Technical Ed

Course Title
Electronic Systems and Programming (QI)

General Education Attribute
QI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description

This course covers project-based applications of electronics and electrical systems. Topics include electrical component recognition and use, schematics, circuit analysis (Ohm's Law, Watt's Law, etc.), constructing circuits, programming, and related material.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete at least 1 course in the following course sets:

- Quantitative Literacy (QL) Course

Course Learning Objectives

Course Learning Outcomes

1. Maintain a clean and safe laboratory environment at all times
2. Diagnose and troubleshoot electrical circuits

3. Explain the fundamental concepts of electricity
4. Communicate using standard electronic schematics
5. Analyze circuits using Ohm's Law and Kirchhoff's Laws
6. Construct basic circuits using breadboards
7. Demonstrate and utilize basic programming for Arduino
8. Demonstrate methods of data acquisition and control using an Arduino microcontroller

TESY3900 - Independent Study in Technology Systems - 1 - 6 Credits

Course Overview

Course Prefix
TESY

Course Number
3900

Department
Technology, Design & Technical Ed

Course Title
Independent Study in Technology Systems

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Students propose and complete work above and beyond regular coursework to support or supplement their major, emphasis, or career goals.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
6

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
6

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
6

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
6

Lecture Hours Operator:
TO

Special Approval
Instructor permission

TESY4000 - Technology Systems Seminar - 1 - Credits

Course Overview

Course Prefix
TESY

Course Number
4000

Department
Technology, Design & Technical Ed

Course Title
Technology Systems Seminar

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students identify and discuss the exploration of careers and professional opportunities in the industry. Industry leaders participate in the seminar to expose students to current industry issues and topics.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Registration Restrictions

Admission to the Technology, Design and Technical Education department

Course Learning Objectives

Course Learning Outcomes

Course Learning Outcomes:

1. Engage with and participate in discussions with industry speakers about their professional experience.
2. Reflect on and define key takeaways about each guest speaker and their insights
3. Recognize best practices from industry guests about networking and professional/career development.

TESY4230 - Advanced Materials and Processing Systems - 3 - Credits

Course Overview

Course Prefix
TESY

Course Number
4230

Department
Technology, Design & Technical Ed

Course Title
Advanced Materials and Processing Systems

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides an overview of advanced materials, such as composites, plastics, and 3D printed materials, and provides instruction on proper procedures associated with manufacturing using these materials. Emphasis is placed on material properties, manufacturing process, and safety.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Earn a minimum grade of C in the following:

- MSLE3890 - Systems Strategy and Problem Solving

Required

Complete ANY of the following Courses:

- BENG1200 - SolidWorks for Biological Engineers
  OR EDDT1200 - 3D Modeling
  OR MAE1200 - Engineering Graphics
  OR TESY1200 - Computer-Aided Drafting and Design

Course Learning Objectives

Course Learning Outcomes

1. Utilize 3D printing to prototype parts drawn with CAD.
2. Create parts utilizing a CO2 laser and/or a water jet cutter.
3. Demonstrate proper safety procedures when in the laboratory.
4. Explain various procedures for creating composite parts.
5. Demonstrate proper layup procedures for creating parts from composite materials (e.g., fiberglass, carbon fiber, Kevlar).
6. Explain the terms related to creating composite structures, including balance, symmetry, long yarn, selv edge, fill, tow, and warp.
7. Describe various thread weaves and how they affect composite performance.

TESY4250 - Internship in Technology Systems - 1 - 12 Credits

Course Overview

Course Prefix
TESY

Course Number
4250

Department
Technology, Design & Technical Ed

Course Title
Internship in Technology Systems

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
For this course, internships are designed to provide an opportunity for students to gain experience outside the traditional classroom and laboratory setting, and to provide a special opportunity for students to enhance their professional-vocational interests.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
12

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
12

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
12

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
12

Lecture Hours Operator:
TO

Registration Restrictions
Junior status and admission to a Technology Systems major

Special Approval
Instructor permission

Course Learning Objectives

Course Learning Outcomes

1. An industrial internship is a unique educational experience and offers specific goals relative to student achievement as follows:
2. Provides the intern with relevant education about industry
3. Acquaints the intern with the physical, academic, and environmental requirements of his or her chosen career
4. Develops the intern's technical writing skills
5. Develops the intern's ability to search for and find employment in industry
6. Allows the intern to plan an academic program relevant to the requirements of his or her chosen career

TESY4300 - Intellectual Property for Product Developers - 3 - Credits

Course Overview

Course Prefix
TESY

Course Number
4300

Department
Technology, Design & Technical Ed

Course Title
Intellectual Property for Product Developers

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course focuses on the types of intellectual property protection for physical products. Topics include searches for existing marks and patents, trademarks, design and utility patents, priority patent applications, non-disclosure agreements, and licensing agreements.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- TESY1200 - Computer-Aided Drafting and Design
  OR MAE1200 - Engineering Graphics
  OR BENG1200 - SolidWorks for Biological Engineers
  OR EDDT1200 - 3D Modeling

Course Learning Objectives

Course Learning Outcomes

Upon successful completion of this course, students will be able to:
1. Differentiate and Analyze the three primary types of intellectual property protection—utility patents, design patents, and trademarks—specifically as they apply to physical product development.
2. Execute Preliminary Searches for existing trademarks and patents to assess the novelty of a product idea and identify potential infringement risks.
3. Describe the Requirements for and the strategic differences between obtaining utility patents (covering function) and design patents (covering appearance).
4. Evaluate and Apply the process of filing priority patent applications (such as provisional applications) to secure an early effective filing date for an invention.
5. Develop and Interpret the purpose and key clauses of Non-Disclosure Agreements (NDAs) to protect confidential product information during collaboration.
6. Analyze and Understand the structure and legal implications of various licensing agreements involving intellectual property rights for product commercialization.

TESY4330 - Product Innovation Processes, Tools, and Strategies - 3 - Credits

Course Overview

Course Prefix
TESY

Course Number
4330

Department
Technology, Design & Technical Ed

Course Title

Product Innovation Processes, Tools, and Strategies

Grade Mode
Standard Letter

Repeat Status
NR

Course Description

In this course, students experience the processes, tools, and strategies used by new product developers in industry. The course encompasses strategies for production, development, innovation, and management.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Course Learning Objectives

Course Learning Outcomes

1. Design and justify a detailed proposal for an independent project that addresses a relevant problem or innovation area in technology systems (e.g., automation, manufacturing, electronics, information systems, management, or quality and reliability).
2. Apply advanced technical and analytical skills to complete an independent or applied project demonstrating integration of technology systems principles, tools, and processes.
3. Communicate and evaluate project outcomes through a professional report and/or presentation that demonstrates technical competence, reflective analysis, and relevance to professional or career goals.

TESY4410 - Industrial Automation and Networking - 3 - Credits

Course Overview

Course Prefix
TESY

Course Number
4410

Department
Technology, Design & Technical Ed

Course Title
Industrial Automation and Networking

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Content for this course includes networking protocols and systems most commonly used in industry and manufacturing. Activities include setting up, programming, and utilizing various networking communication equipment. Students learn to network PLCs, remote I/O blocks, sensor systems, and robots.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Registration Restrictions

Admission to the TESY-TESY_BS-MAJOR - Missing program program

TESY4420 - Industrial Robotics - 3 - Credits

Course Overview

Course Prefix
TESY

Course Number
4420

Department
Technology, Design & Technical Ed

Course Title
Industrial Robotics

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers the tasks that an operator, technician, engineer, or programmer needs to set up and program industrial robots. Students practice hands-on pendant labs with industrial-grade manipulators and controllers.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Registration Restrictions

Admission to the TESY-TESY_BS-MAJOR - Missing program program

TESY4430 - Advanced Programmable Logic Controllers - 3 - Credits

Course Overview

Course Prefix
TESY

Course Number
4430

Department
Technology, Design & Technical Ed

Course Title
Advanced Programmable Logic Controllers

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course is designed to expand students' skills with various PLC systems. The operation and application of safety PLCs are covered. Activities include wiring, programming, and troubleshooting various systems. Students also interface PLCs with other industrial equipment.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Admission to the TESY-TESY_BS-MAJOR - Missing program program

TESY4440 - Machine Vision and Inspection - 3 - Credits

Course Overview

Course Prefix
TESY

Course Number
4440

Department
Technology, Design & Technical Ed

Course Title
Machine Vision and Inspection

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers the basic tasks and procedures required for an operator, technician, engineer, or programmer to set up, teach, test, and modify machine/ robot vision applications.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Admission to the TESY-TESY_BS-MAJOR - Missing program program

TESY4450 - Human Machine Interface - 3 - Credits

Course Overview

Course Prefix
TESY

Course Number
4450

Department
Technology, Design & Technical Ed

Course Title
Human Machine Interface

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students learn to program operator panels using graphics and Programmable Logic Controllers (PLCs). Students learn how to convert a PLC program into a graphic Human Machine Interface Panel. An introduction to HMI/SCADA software offerings from various manufacturers is also included.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Registration Restrictions

Admission to the TESY-TESY_BS-MAJOR - Missing program program

TESY4500 - Quality Management Systems - 3 - Credits

Course Overview

Course Prefix
TESY

Course Number
4500

Department
Technology, Design & Technical Ed

Course Title
Quality Management Systems

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course expands on Juran's quality trilogy to describe business transformation through innovative customer-driven strategy, meaningful process control using statistics, and management-sponsored, focused improvements in core products and services, along with Deming's teachings on management responsibilities and systems.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Course Learning Objectives

Course Learning Outcomes

1. Understand – Advanced Quality Management Systems concepts.
2. Understand – Key systems of advanced quality systems.
3. Understand - Basic quality tools
4. Apply – Add industry professionals to your professional network.

TESY4510 - Quality Root Cause Analysis Methods and Applications - 3 - Credits

Course Overview

Course Prefix
TESY

Course Number
4510

Department
Technology, Design & Technical Ed

Course Title
Quality Root Cause Analysis Methods and Applications

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
In this course, students apply a range of root cause analysis tools to solve different problems as they relate to quality and reliability.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Course Learning Objectives

Course Learning Outcomes

1. Gain factual knowledge of Quality Systems Root Cause Analysis (RCA) Tools and Methods. RCA Tools include: 5-Why, Ishikawa (fishbone), Is/Is-Not, Fault
2. Tree Analysis, Failure Modes and Effects Analysis, and related statistical tools.
3. Readily identify RCA Tools when used and correctly apply techniques in everyday and real-world production scenarios.
4. Gain factual knowledge, ability to critically analyze, and correctly prepare a hypothesis statement to guide root cause analysis efforts.
5. Gain fundamental awareness of measurement systems, fundamental statistical techniques for Quality Systems, and data-analysis practices for real-world use and consideration.
6. Gain experience in presenting and defending individual and team-centered work.
7. Given a real-world circumstance of your choice analyze, correctly apply RCA Tools, propose determined causal factors, and propose viable solutions and monitoring strategies within a Business-Quality Term Paper Report.

TESY4520 - Statistical Quality Control w/SPC - 3 - Credits

Course Overview

Course Prefix
TESY

Course Number
4520

Department
Technology, Design & Technical Ed

Course Title
Statistical Quality Control w/SPC

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides an understanding of process capability and its use in predicting the potential failure rate from a process. Students learn the statistical techniques used to predict the complete output of a process.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Course Learning Objectives

Course Learning Outcomes

1. To provide a clear and simple understanding of Lean Production: its components, how they fit together, and the culture that drives them.
2. Provide real-world examples of Lean principles in an application.
3. Focus on Lean as a system versus individual tools and components.
4. Discuss the history and key figures surrounding the concept of waste elimination.
5. Discuss how true success in Lean implementation comes from an understanding of basic lean principles/tools, managers leading by example by implementing a strategic system, and driven by an overarching culture for continuous improvement.

TESY4530 - Principles of Lean Manufacturing - 3 - Credits

Course Overview

Course Prefix
TESY

Course Number
4530

Department
Technology, Design & Technical Ed

Course Title
Principles of Lean Manufacturing

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students meet on location, and learn from industry partners, lean manufacturing principles and how they are applied in a manufacturing facility.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Course Learning Objectives

Course Learning Outcomes

1. Understand the DMAIC Process
2. Understand and use Descriptive and Inferential Statistics to understand and improve a process
3. Understand Statistical Process Control (SPC) and how it is used to monitor and improve processes
4. Understand Process and Measurement System Capability

TESY4540 - Quality Management Systems II - 3 - Credits

Course Overview

Course Prefix
TESY

Course Number
4540

Department
Technology, Design & Technical Ed

Course Title
Quality Management Systems II

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
In this class, students learn the benefits of internal and external auditing, quality improvement techniques, risk analysis, and core quality assurance concepts, including: change management, configuration control, document control, identification, and traceability.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Course Learning Objectives

Course Learning Outcomes

1. Deeper understanding of the ISO9001:2015 standard
2. Basic understanding of sector specific standards like AS9100D or TS16949:2016
3. Deeper understanding of quality concepts like reliability, traceability, APQP, MSA, PPAP, etc.

TESY4720 - IT Management - 3 - Credits

Course Overview

Course Prefix
TESY

Course Number
4720

Department
Technology, Design & Technical Ed

Course Title
IT Management

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides a broad overview of the management of information technology using the ITIL model. The course establishes a foundation to implement incident and change management as well as asset and request management within an organization.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

TESY4730 - Cloud Computing Architecture - 3 - Credits

Course Overview

Course Prefix
TESY

Course Number
4730

Department
Technology, Design & Technical Ed

Course Title
Cloud Computing Architecture

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This applied course covers techniques and tools for assessing, configuring and implementing computing infrastructure in cloud environments such as AWS or Azure. Network and security architures are also covered.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Other Enrollment Recommendations
Utah Technical College 900+ hour IT certificate

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Fulfill ANY of the following requirements:

Option 1

Complete ALL of the following Courses:

- BCIS1320 - Linux Foundations
- BCIS1540 - Introduction to Cloud

OR

Option 2

Complete ALL of the following Courses:

- TEIT1300 - Linux Foundations
- TEIT1400 - Introduction to Cloud

Course Learning Objectives

Course Learning Outcomes

1. Apply architectural principles and best practices to make architectural decisions.
2. Use appropriate public cloud services and features to make infrastructure scalable, reliable, and highly available.
3. Select managed services to enable greater flexibility and resiliency in an infrastructure.
4. Increase performance and reduce cost of a cloud infrastructure built on a public cloud such as Amazon Web Services (AWS).
5. Use common public cloud services and features to secure user, application, and data access.
6. Apply best practices from guidelines such as the AWS Well-Architected Framework to improve cloud architectures.

TESY4750 - Network Administration - 3 - Credits

Course Overview

Course Prefix
TESY

Course Number
4750

Department
Technology, Design & Technical Ed

Course Title
Network Administration

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course focuses on network infrastructure design and development. Students apply learned skills to build and test network infrastructures in a virtual environment in the classroom. Students explore general network theory, including topology, protocols, design, and management.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Other Enrollment Recommendations
Utah Technical College 900+ hour IT certificate or related experience approved by the instructor or department head

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- BCIS2631 - Network+
  OR TEIT2100 - Computer Networks

Course Learning Objectives

Course Learning Outcomes
1. Analyze Core Internet Architecture
• Describe the fundamental components of the Internet, distinguishing between the network edge (end systems, access networks, links) and the network core (packet switching, circuit switching, and network structure).
• Explain the principles of protocol layers (such as the OSI and TCP/IP models) and their associated service models in organizing network communication.
2. Master Network Performance and Behavior
• Analyze the critical performance metrics in network operation, specifically delay, loss, and throughput, and describe the factors that influence them.
• Identify and explain how network services and communication protocols function at the Application Layer (e.g., HTTP, DNS) and the Transport Layer (e.g., TCP and UDP).
3. Evaluate Data Flow and Routing
• Describe the functionality of the Network Layer by differentiating between the Data Plane (forwarding) and the Control Plane (routing protocols).
• Explain the role and operation of the Link Layer and LANs (e.g., Ethernet and ARP), and the principles governing Wireless and Mobile Networks (e.g., 802.11 Wi-Fi).
4. Apply Practical Network Analysis Skills
• Utilize packet sniffing tools (such as Wireshark) to capture, inspect, and analyze data packets to understand the inner workings of protocols like HTTP, DNS, UDP, TCP, and ICMP.
• Identify and explain common security vulnerabilities and attack vectors in networks by assessing how networks operate under attack

TESY4760 - Information Technology Management - 3 - Credits

Course Overview

Course Prefix
TESY

Course Number
4760

Department
Technology, Design & Technical Ed

Course Title
Information Technology Management

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides a comprehensive study of the Information Technology Infrastructure Library (ITIL) and associated IT activities such as IT service management (ITSM) and IT asset management (ITAM). It focuses on disaster recovery and business resumption of IT services.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Other Enrollment Recommendations

Utah Technical College 900+ hour IT certificate or related experience approved by the instructor or department head

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- BCIS2651 - Cybersecurity/Security+
  OR TEIT2200 - Security +

Course Learning Objectives

Course Learning Outcomes

1. Comprehensive IT Service Management: Gain a deep understanding of IT service management, focusing on how it supports and aligns with business objectives, with an awareness of emergency response planning.
2. Service Lifecycle and Incident Management: Explore the IT Service Management Lifecycle, emphasizing strategies for continual improvement, and develop skills to manage and respond to organizational incidents effectively.
3. Strategic Design and Implementation of IT Services: Learn to design and introduce IT services that are strategically aligned with business needs, incorporating considerations for operational continuity.
4. Operational Management and Response Preparedness: Master the management of day-to-day IT infrastructure and cultivate the ability to coordinate rapid response mechanisms in emergency situations.
5. Role Definition and Communication in IT Management: Clearly define roles and responsibilities within IT teams, highlighting the importance of communication and coordination in both regular and crisis scenarios.
6. Business Continuity Planning: Understand the principles of business continuity, focusing on maintaining operations during various challenges, including minor outages and more significant disruptions.
7. Technology Foundations and Recovery Awareness: Recognize the essential technology components for daily operations, with an introductory understanding of disaster recovery principles and mechanisms.
8. Process Efficiency and Cost Management in IT Services: Emphasize the improvement of process efficiency and cost-effectiveness in IT service provision, including a basic framework for integrating recovery strategies in overall planning.

TESY4770 - Database Administration - 3 - Credits

Course Overview

Course Prefix
TESY

Course Number
4770

Department
Technology, Design & Technical Ed

Course Title
Database Administration

Grade Mode
Standard Letter

Repeat Status
NR

Course Description

Provides a comprehensive overview and structure for understanding database management. Topics will include SQL (Structured Query Language) creation, updates, and data retrieval, as well as database design, data security, big data, NoSQL databases, distributed databases and data warehousing.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Other Enrollment Recommendations

Utah Technical College 900+ hour IT certificate; related experience as discussed with advisor or department

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Fulfill ANY of the following requirements:

Option 1

Complete ALL of the following Courses:

- TEIT1200 - A+ Core 1
- TEIT1210 - A+ Core 2

OR

Option 2

Complete ALL of the following Courses:

- BCIS1250 - A+ Core 1
- BCIS1260 - A+ Core 2

Course Learning Objectives

Course Learning Outcomes

Be capable of installing, configuring updating and managing database systems.
Manage database performance.
Configure backups and redundancy for performance and reliability.
Understand storage management and data warehouse administration concepts.
1. Master Traditional Database Concepts and Design
• Explain the fundamental structure and principles of traditional database concepts, including data, database, and database management systems (DBMS).
• Apply principles of data normalization and table relationships to design efficient and integrity-driven relational databases.
• Demonstrate an understanding of the Relational Database Model and its underlying structure, including key concepts like Query By Example (QBE) and Relational Algebra.
2. Execute Database Queries using SQL
• Write and interpret effective queries using Structured Query Language (SQL) to manipulate, retrieve, and manage data within a relational database.
• Perform hands-on labs (e.g., in Access or MindTap SAM) that demonstrate the ability to execute database creation and management tasks.
3. Implement Database Best Practices
• Analyze the characteristics of a healthy database and apply best practices for database creation, maintenance, and administration.
• Evaluate different database configurations and techniques to ensure data integrity, security, and performance.
4. Understand Emerging Trends and Career Paths
• Explain key concepts and trends in modern data management, including Data Science, Big Data, and Data Mining.
• Identify and describe the roles, responsibilities, and necessary skills for traditional and new careers in database administration.

TESY4810 - Computer Server Defense - 3 - Credits

Course Overview

Course Prefix
TESY

Course Number
4810

Department
Technology, Design & Technical Ed

Course Title
Computer Server Defense

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers cybersecurity principles and techniques for hardening, monitoring, and otherwise securing servers against compromise or failure.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Other Enrollment Recommendations
Utah Technical College 900+ hour IT certificate or related experience as discussed with advisor or department

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Fulfill ANY of the following requirements:

Option 1

Complete ALL of the following Courses:

- BCIS2651 - Cybersecurity/Security+
- BCIS1320 - Linux Foundations

OR

Option 2

Complete ALL of the following Courses:

- TEIT2200 - Security +
- TEIT1300 - Linux Foundations

Course Learning Objectives

Course Learning Outcomes

1. Identify threats to Linux servers
2. Configure system settings according to best practices to secure a Linux platform
3. Demonstrate the ability to properly configure user accounts including access, roles and permissions
4. Configure filesystems' architecture, settings and encryption to protect data at rest
5. Explain how firewalls, encryption protocols, secure web services and SELinux work together to protect data in motion
6. Assess Linux kernel and associated distributions' security provisions
7. Explain the importance of best practices such as software maintenance, system monitoring, logging, and testing.
8. Analyze incident response, backup, and recovery processes and techniques.

TESY4820 - Penetration Testing - 3 - Credits

Course Overview

Course Prefix
TESY

Course Number
4820

Department
Technology, Design & Technical Ed

Course Title
Penetration Testing

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides a guide to operating as a penetration testing professional. It includes standards and best practices, specific hacking techniques, test design, and report writing. The course details offensive security skills needed in the cybersecurity industry.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Other Enrollment Recommendations
Utah Technical College 900+ hour IT certificate, or related experience as discussed with advisor or department

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- BCIS2651 - Cybersecurity/Security+
  OR TEIT2200 - Security +

Course Learning Objectives

Course Learning Outcomes
1. Understand and Apply the Pen Testing Methodology
• Identify and describe the phases of a professional penetration test (e.g., Planning & Scoping, Reconnaissance, Scanning, Exploitation, Post-Exploitation, and Reporting).
• Adhere to the legal, ethical, and professional standards required for conducting security assessments, including proper scoping and "rules of engagement."
2. Perform Reconnaissance and Information Gathering
• Utilize Open-Source Intelligence (OSINT) and various scanning techniques (e.g., Nmap) to gather information about a target network, system, or application.
• Analyze network traffic, services, and protocols (e.g., TCP/IP, DNS, HTTP) to identify potential attack vectors.
3. Identify and Exploit System Vulnerabilities
• Apply common vulnerability assessment tools to discover weaknesses in operating systems (Windows and Linux), network devices, and software.
• Execute common exploitation techniques using tools like Metasploit, focusing on initial access, privilege escalation, and lateral movement.
• Demonstrate proficiency in attacking different types of targets, including wired/wireless networks and various web applications (e.g., using OWASP Top 10 vulnerabilities).
4. Conduct Post-Exploitation and Maintain Access
• Describe and implement techniques for post-exploitation, such as establishing persistence, pivoting to other network segments, and collecting sensitive data (e.g., password hashes).
• Apply basic scripting (e.g., Python, Bash) to automate tasks and create custom tools for security assessment.
5. Analyze, Communicate, and Report Findings
• Evaluate the risk level of identified vulnerabilities based on their impact and likelihood of exploitation.
• Develop clear, professional, and comprehensive penetration test reports that document findings, provide root cause analysis, and recommend actionable remediation strategies for technical and non-technical stakeholders.

TESY4830 - Network Defense and Traffic Analysis - 3 - Credits

Course Overview

Course Prefix
TESY

Course Number
4830

Department
Technology, Design & Technical Ed

Course Title
Network Defense and Traffic Analysis

Grade Mode
Standard Letter

Repeat Status
NR

Course Description

This course teaches the basics of securing and defending computer networks, including network traffic monitoring, alerting, and analysis. Students learn principles of layered defense with firewalls, intrusion detection and prevention, and server configuration and monitoring.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Other Enrollment Recommendations

Utah Technical College 900+ hour IT certificate or related experience as discussed with advisor or department

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Fulfill ANY of the following requirements:

Option 1

Complete ALL of the following Courses:

- BCIS2631 - Network+
- BCIS2651 - Cybersecurity/Security+

OR

Option 2

Complete ALL of the following Courses:

- TEIT2100 - Computer Networks
- TEIT2200 - Security +

TESY4840 - Security and Digital Forensics - 3 - Credits

Course Overview

Course Prefix
TESY

Course Number
4840

Department
Technology, Design & Technical Ed

Course Title
Security and Digital Forensics

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course focuses on Windows hardening, authentication, and cybersecurity defensive principles in response to cybersecurity incidents.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Other Enrollment Recommendations

Utah Technical College 900+ hour IT certificate or related experience as discussed with advisor or department

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- BCIS2651 - Cybersecurity/Security+
  OR TEIT2200 - Security +

Course Learning Objectives

Course Learning Outcomes

1. Identify and Analyze Cybersecurity Threats
• Identify and describe the most common types of cyber threats and attacks, including Malware (Viruses, Trojans), Denial of Service (DoS) attacks, Hacking techniques, and forms of Cybercrime (Cyberstalking, fraud, and identity theft).
• Explain the motivations and methods behind advanced threat actors, such as those involved in Industrial espionage and Cyber terrorism/information warfare.
2. Implement Foundational Security Technologies
• Apply basic networking concepts and security technologies—including Firewalls, Intrusion Detection Systems (IDSs), VPNs, and Wi-Fi security—to protect devices, data, and networks.
• Utilize methods of Network scanning and vulnerability scanning to assess and secure computer systems and networks against potential threats.
• Explain the principles of Encryption (Cryptography, hashing, digital signatures) and steganography, and apply them to secure communication and data storage.
3. Develop and Apply Security Policies
• Define the purpose and structure of comprehensive Security policies, including those related to user conduct, system administration, and disaster recovery.
• Summarize the relevant legal issues and laws that impact network security and digital investigations.
4. Execute Basic Digital Forensics Procedures
• Describe the general guidelines and principles for conducting a forensic investigation to ensure the integrity of evidence.
• Demonstrate fundamental techniques for locating and recovering evidence from a PC, including analyzing system logs, using operating system utilities, and finding deleted files (with an introduction to Mobile Forensics).

TESY4850 - Scripting for IT and Cybersecurity - 3 - Credits

Course Overview

Course Prefix
TESY

Course Number
4850

Department
Technology, Design & Technical Ed

Course Title
Scripting for IT and Cybersecurity

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course explores applied programming topics such as scripting for systems administration tasks, automating processes, and interacting with other systems across a network. The course primarily utilizes Python.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Other Enrollment Recommendations
Introductory Python coursework

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ANY of the following Courses:

- BCIS1500 - Introduction to Scripting
  OR TEIT1500 - Introduction to Scripting
  OR CS1400 - Introduction to Computer Science--CS 1
  OR DATA3500 - Introduction to Python Programming (Inactive)

Course Learning Objectives

Course Learning Outcomes

1. Identify common scripting tasks related to Information Technology and Cybersecurity.
2. Write scripts that will facilitate system setup, maintenance, and oversight.
3. Extract data from logs and automated sources for display and notification actions.
4. Identify appropriate models and technologies for IT tasks, from shell scripts to object-oriented approaches.
5. Use modules and scripting techniques appropriate for IT and cybersecurity tasks.
6. Apply appropriate data structures and algorithmic techniques to basic problems.

TESY4900 - Senior Project in Technology Systems - 1 - 6 Credits

Course Overview

Course Prefix
TESY

Course Number
4900

Department
Technology, Design & Technical Ed

Course Title
Senior Project in Technology Systems

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course provides students with experiences outside of traditional classroom and laboratory settings to enhance their professional/vocational interests. Students complete a supervised project representative of modern industry and careers.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
6

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
6

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
6

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
6

Lecture Hours Operator:
TO

Registration Restrictions
Junior standing and admission to the TESY-TESY_BS-MAJOR - Missing program program

Special Approval
Instructor permission

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Earn a minimum grade of C in the following:

- TESY3020 - Strategic Human Skills Development (CI)

Course Learning Objectives

Course Learning Outcomes

Your senior project is a unique educational experience and offers specific goals relative to student achievement as follows:

1. Provides the student with relevant experience toward industrial project planning and development
2. Requires the student to utilize and reflect on the courses taken and skills learned through the Technology Systems degree program related to his or her chosen career
3. Further develops the student's technical writing skills

TESY4940 - Related Occupational/Industrial Experience - 1 - 12 Credits

Course Overview

Course Prefix
TESY

Course Number
4940

Department
Technology, Design & Technical Ed

Course Title
Related Occupational/Industrial Experience

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
This course provides for enrollment in industry training conducted on university-level competencies. It is approved by the instructor upon application for a trade competency examination and work experience in the industry.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
12

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
12

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
12

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
12

Lecture Hours Operator:
TO

Special Approval
Instructor permission

Course Learning Objectives

Course Learning Outcomes
1. Gain real-world experience in the workforce
2. Develop a short report or portfolio explaining in detail your experience in the workforce

TESY5910 - Special Problems in Technology Systems - 1 - 6 Credits

Course Overview

Course Prefix
TESY

Course Number
5910

Department
Technology, Design & Technical Ed

Course Title
Special Problems in Technology Systems

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course covers special problems in technology systems and is repeatable for credit. Students should check with their major department for limitations on the number of credits that can be counted for graduation.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
6

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
6

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
6

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
6

Lecture Hours Operator:
TO

TESYLWR - - 3 - Credits

Course Overview

Course Prefix
TESY

Course Number
LWR

Department
Technology, Design & Technical Ed

Grade Mode
Standard Letter

Repeat Status
RP

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

TESYTECH - - 1 - 3 Credits

Course Overview

Course Prefix
TESY

Course Number
TECH

Department
School of Teacher Education & Leadership

Grade Mode
Standard Letter

Repeat Status
RP

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

TESYUPPR - - 3 - Credits

Course Overview

Course Prefix
TESY

Course Number
UPPR

Department
Technology, Design & Technical Ed

Grade Mode
Standard Letter

Repeat Status
RP

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

TEUA1011 - Unmanned Aircraft Systems Remote Pilot - 3 - Credits

Course Overview

Course Prefix
TEUA

Course Number
1011

Department
Technology, Design & Technical Ed

Course Title
Unmanned Aircraft Systems Remote Pilot

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers the rapidly expanding technology of small Unmanned Aircraft Systems (sUAS) and the legalities of flying drones. Topics include aviation safety, rules and regulations, Federal Aviation Administration (FAA) commercial certification preparation, and a flight lab component.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Course Learning Objectives

Course Learning Outcomes
1. Discuss the rapidly expanding Unmanned Aircraft System (UAS) industry and prepare to enter this competitive market.
2. Describe the current regulations outlined in FAA Part 107.
3. Demonstrate proficiency related to the concepts and required information essential to pass the FAA ground exam and register as a Remote Pilot Operators.
4. Demonstrate basic flight skills.

TEUA1021 - Unmanned Aircraft Systems Part 107 Test - 1 - Credits

Course Overview

Course Prefix
TEUA

Course Number
1021

Department
Technology, Design & Technical Ed

Course Title
Unmanned Aircraft Systems Part 107 Test

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This is an FAA Certification Class in which students submit their Part 107 exam sheet and recurrent training certificate.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Course Learning Objectives

Course Learning Outcomes
1. Complete the FAA Part 107 Certification test.

2. Verify completion of the FAA Part 107 Certification test by uploading their score sheet.

TEUA1201 - Unmanned Aircraft Systems Introduction to Fixed-Wings - 3 - Credits

Course Overview

Course Prefix
TEUA

Course Number
1201

Department
Technology, Design & Technical Ed

Course Title
Unmanned Aircraft Systems Introduction to Fixed-Wings

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students learn the basics of small Unmanned Aircraft Systems (sUAS) fixed-wing design and construction to include flight characteristics of new or modified builds. They build, program, fly, and modify their own fixed-wing drone.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Course Learning Objectives

Course Learning Outcomes
1. Build fixed-wing drones using appropriate construction and design methods, flight principles, and programming techniques.
2. Demonstrate use of proper tools and components for fixed-wing construction and repair.

TEUA1301 - Unmanned Aircraft Systems Introduction to Multirotor - 3 - Credits

Course Overview

Course Prefix
TEUA

Course Number
1301

Department
Technology, Design & Technical Ed

Course Title
Unmanned Aircraft Systems Introduction to Multirotor

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students learn the basics of small Unmanned Aircraft Systems (sUAS) multirotor design and construction, which includes building a multirotor from a kit, programming a flight controller, and tuning motors appropriately. Students document and conduct test flights with their drones.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Course Learning Objectives

Course Learning Outcomes

1. Explain the documentation process and how it applies to industry standards.
2. Identify sUAS components.
3. Use industry best practices in documentation, tool and equipment logs, supply upkeep, and communication processes.
4.Create and design a multi-rotor build complete with appropriate documentation.

TEUA1501 - Introduction to Unmanned Aircraft Systems Maintenance and Components - 3 - Credits

Course Overview

Course Prefix
TEUA

Course Number
1501

Department
Technology, Design & Technical Ed

Course Title
Introduction to Unmanned Aircraft Systems Maintenance and Components

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students are introduced to various tools and techniques for sUAS and UAS maintenance. Throughout the course, students utilize maintenance records and equipment logs. Students also gain factual knowledge of sUAS components, checklists, tools, tuning techniques, and building techniques.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Course Learning Objectives

Course Learning Outcomes

1. Explain drone components and use cases.
2. Apply documentation styles to maintenance and equipment logs.
3. Use proper tools and techniques for given scenarios.
4. Identify industry tools and techniques related to the maintenance of sUAS.

TEUA2041 - Aviation Meteorology - 3 - Credits

Course Overview

Course Prefix
TEUA

Course Number
2041

Department
Technology, Design & Technical Ed

Course Title
Aviation Meteorology

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers the basics of weather for modern aircraft pilots, whether manned or unmanned. It instructs the basics of weather patterns, key points to watch before flight, and weather reporting methods and techniques.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Course Learning Objectives

Course Learning Outcomes

1. Identify terminology, classification, methods, and trends as gained through readings, lectures, research, case studies, and classroom discussions.
2. Develop skills related to weather observation, predication, and effect on flight in relation to points of view needed by professionals in the field most closely related to this course through research, case studies, assignments, guest speakers, and reflections.
3. Analyze and critically evaluate ideas, arguments, and points of view through research, case studies, assignments, and peer reviews.

TEUA2051 - Unmanned Aircraft Systems Pilot in Command - 3 - Credits

Course Overview

Course Prefix
TEUA

Course Number
2051

Department
Technology, Design & Technical Ed

Course Title
Unmanned Aircraft Systems Pilot in Command

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course explores the methods and applications for becoming a Pilot in Command (PIC) in sUAS operations. It focuses on technical writing, expanding the rules of drones, and creating and maintaining a crew concept in drone operations.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Course Learning Objectives

Course Learning Outcomes

Course Learning Outcomes:

1. Control and oversee a drone operation.

2. Apply the rules and regulations for using sUAS in the industry.

3. Demonstrate technical writing and other soft skills related to industry expectations.

4. Communicate on a large business scale to complete a commercial project.

TEUA2101 - Unmanned Aircraft Systems Flight Patterns and Maneuvers - 3 - Credits

Course Overview

Course Prefix
TEUA

Course Number
2101

Department
Technology, Design & Technical Ed

Course Title
Unmanned Aircraft Systems Flight Patterns and Maneuvers

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
In this course, students develop their flying skills with manual flight in both fixed-wing and multirotor drones. Emphasis is placed on logging additional flying hours through traffic patterns, maneuvers, and practice search and rescue flight paths.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Course Learning Objectives

Course Learning Outcomes
1. Comfortably maneuver a variety of drones and a variety of flight modes.
2. Fly a fixed-wing drone manually and log those hours.
3. Explain maintenance techniques and checklists for multirotor and fixed-wing type drones.

TEUA2651 - Drones for Hire - 3 - Credits

Course Overview

Course Prefix
TEUA

Course Number
2651

Department
Technology, Design & Technical Ed

Course Title
Drones for Hire

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course is an internship-intensive class that helps students prepare for sUAS work in industry. Students learn how to write a drone-focused resume, interview for a job, and complete real-life or scenario-based projects using sUAS skills.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Course Learning Objectives

Course Learning Outcomes
1. Complete a community project by applying technical knowledge, applicable skills, and various soft skills such as time management and communication.
2. Complete a reflection paper and professional presentation applicable to portfolio development.
3. Demonstrate writing techniques to create a resume and LinkedIn account and begin a portfolio.
4. Explain various deliverables related to industry development.

TEUA2701 - Unmanned Aircraft Systems Introduction to Aerial Photography - 3 - Credits

Course Overview

Course Prefix
TEUA

Course Number
2701

Department
Technology, Design & Technical Ed

Course Title
Unmanned Aircraft Systems Introduction to Aerial Photography

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students are introduced to various multirotor flight techniques and maneuvers as they apply to aerial photography and videography. Students are also introduced to basic photo and video editing and demonstrate an understanding of basic critique skills and purpose.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Course Learning Objectives

Course Learning Outcomes

1. Use aerial photo and video techniques according to audience and purpose.
2. Apply flight practice to aerial photo and video creation.
3. Critique and analyze a project according to audience and purpose.
4. Demonstrate safe and efficient in-flight operation of a rotary sUAS.

TEVA1011 - Introduction to Veterinary Assisting - 2 - Credits

Course Overview

Course Prefix
TEVA

Course Number
1011

Department
Technology, Design & Technical Ed

Course Title
Introduction to Veterinary Assisting

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides fundamental understanding of what veterinarian assistant/ pre-technician professionals do to assist veterinarians and veterinary staff. It covers terminology, ethical and legal issues applicable to veterinary care, and introduces safety techniques needed when interacting with animals of various species.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Course Learning Objectives

Course Learning Outcomes

1. Define career expectations of veterinarian assistants.
2. Identify ethical and legal issues in veterinary care.
3. Perform proper safety techniques.
4. Practice animal management and human interaction.
5. Use correct medical terminology as it pertains to animal sciences.

TEVA1111 - Patient Management and Nutrition - 3 - Credits

Course Overview

Course Prefix
TEVA

Course Number
1111

Department
Technology, Design & Technical Ed

Course Title
Patient Management and Nutrition

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces essential skills for gainful employment in veterinary assisting careers. Students learn basic anatomy and physiology of various species encountered in a veterinary practice, common medical treatments for injuries and ailments, animal behavior indications, and individualized care practices.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Course Learning Objectives

Course Learning Outcomes

1. Explain the major concepts of anatomy and physiology.
2. Evaluate diets for nutritional needs of various animal species based on knowledge of nutritional needs.
3. Use problem-solving skills in caring for animals.
4. Perform safe, competent, and individualized care on various animal species.
5. Perform accurate medical calculations.
6. Describe behaviors of various animal species and how they affect care methods.

TEVA1201 - Vet Assist Clinical Sciences - 1 - Credits

Course Overview

Course Prefix
TEVA

Course Number
1201

Department
Technology, Design & Technical Ed

Course Title
Vet Assist Clinical Sciences

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course emphasizes diagnosis and care of many conditions and diseases found in a variety of animal species. The course covers basic hematology, clinical chemistry, specific microbiology, urinalysis, parasites, fundamentals of anesthesia, and appropriate analgesics and preventative medicine for animals.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Course Learning Objectives

Course Learning Outcomes

1. Identify the concepts related to hematology, hemostasis processes, and clinical chemistry.
2. Explain the concepts related to microbiology, cytology, and urinalysis.
3. Explain the impact of pathology and pharmacology on various animal species.
4. Recognize parasites, their hosts, and the relationship between them.
5. Explain principles of preventive medicine as it relates to animal sciences.
6. Explain procedures for diagnostic imaging.
7. Explain procedures for anesthesia and perioperative analgesia

TEVA1301 - Vet Assisting Applications - 1 - Credits

Course Overview

Course Prefix
TEVA

Course Number
1301

Department
Technology, Design & Technical Ed

Course Title
Vet Assisting Applications

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides foundational knowledge including various animal organs and systems necessary to perform and assist in procedures related to anatomy and physiology. The course also introduces techniques and equipment students use in clinical courses and as veterinary assistants.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Course Learning Objectives

Course Learning Outcomes

1. Identify anatomy and physiology of various species.
2. Identify surgical instruments and explain uses.
3. Explain various surgical techniques.
4. Explain various pain management techniques.
5. Explain proper drug administration routes and techniques.

TEVA1401 - Emergency Critical Care/End of Life - 1 - Credits

Course Overview

Course Prefix
TEVA

Course Number
1401

Department
Technology, Design & Technical Ed

Course Title
Emergency Critical Care/End of Life

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces a variety of animals treated in a veterinarian practice and prepares students for work in a professional setting. Students recognize and address the physical condition of an animal and begin care for sick or wounded patients.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Course Learning Objectives

Course Learning Outcomes

1. Identify emergency situations and required critical care.
2. Identify emergency situations and best practices for various injuries.
3. Demonstrate procedures for fluid therapy and blood transfusions
4. Demonstrate knowledge of animal dentistry.
5. Identify breeds and classifications of various species.
6. Explain proper care and general grooming procedures.

TEVA1501 - Clinical Procedures I - 1 - Credits

Course Overview

Course Prefix
TEVA

Course Number
1501

Department
Technology, Design & Technical Ed

Course Title
Clinical Procedures I

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces basic skills in classroom and practice laboratory and covers safety measures and equipment use procedures. Students manage care for various species with uncomplicated conditions, receive CPR certification, and apply basic anatomy and physiology knowledge in clinical settings.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Course Learning Objectives

Course Learning Outcomes

1. Safely handle needles and syringes.
2. Demonstrate proper animal restraint techniques.
3. Perform hands-on dissections of various animal body parts.
4. Demonstrate techniques for evaluating animal reproductive health.
5. Practice proper tube feeding techniques.
6. Identify common pharmaceuticals used with animal treatment.
7. Demonstrate animal hardware use (collars, carriers, muzzles, bags, gloves, etc.).
8. Practice proper radiology positioning and safe handling of lead gear.

TEVA1502 - Clinical Procedures II - 2 - Credits

Course Overview

Course Prefix
TEVA

Course Number
1502

Department
Technology, Design & Technical Ed

Course Title
Clinical Procedures II

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course builds on skills learned in Clinical Procedures I required in the animal care process in the classroom and practice laboratory. Students demonstrate proper animal restraint techniques, collect various types of samples, and gain experience preparing patients for surgery.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Course Learning Objectives

Course Learning Outcomes

1. Demonstrate advanced animal restraint techniques.
2. Demonstrate appropriate and accurate use of laboratory equipment.
3. Collect and evaluate animal tissue/fluid samples.
4. Identify common parasites through fecal and external examination.
5. Perform safe and appropriate injection techniques.
6. Demonstrate surgical preparation procedures for various animal species.
7. Demonstrate preparation and sterile handling of surgical instrument packs.

TEVA1503 - Clinical Procedures III - 3 - Credits

Course Overview

Course Prefix
TEVA

Course Number
1503

Department
Technology, Design & Technical Ed

Course Title
Clinical Procedures III

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This final clinical course strengthens animal care skills in the practice laboratory, connects theoretical and practical knowledge, covers specialized techniques, and prepares students to be comfortable with the range of duties faced in a practical setting as a skilled assistant.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Course Learning Objectives

Course Learning Outcomes

1. Demonstrate grooming procedures for various species.
2. Demonstrate procedures used in ophthalmic and otic treatments.
3. Demonstrate IV catheterization.
4. Perform common bandaging.
5. Perform specialized care treatments for birds.
6. Interact comfortably with pocket pets.
7. Perform feline dissection.

TEVA2999 - Clinical Externship - 4 - Credits

Course Overview

Course Prefix
TEVA

Course Number
2999

Department
Technology, Design & Technical Ed

Course Title
Clinical Externship

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This externship course requires 180 hours of clinical experience in veterinarian animal care settings and provides students opportunities to demonstrate knowledge and skills obtained from classroom and laboratory experiences. Students practice techniques and skills with real patients and clients.

Credit Hours

Credit Hours
Min:
4

Contact Hours

Contact Hours
Min:
4

Billing Hours

Billing Hours
Min:
4

Lecture Hours

Lecture Hours
Min:
4

Course Learning Objectives

Course Learning Outcomes

1. Demonstrate office skills involving scheduling, greeting, collecting accurate patient history, and following up with clients.
2. Assist in physical examinations.
3. Demonstrate proper restraint techniques and perform common bandaging.
4. Demonstrate correct medical calculations.
5. Demonstrate safe handling skills with needles/syringes and perform injections on animals.
6. Perform accurate diagnostic imaging.
7. Demonstrate appropriate and accurate use of laboratory equipment.
8. Demonstrate surgical preparation procedures for various animal species.
9. Demonstrate preparation and sterile handling of surgical instrument packs.
10. Demonstrate appropriate grooming procedures for various species.
11. Demonstrate procedures used in ophthalmic treatments.
12. Demonstrate IV catheterization.

TEWG1010 - Introduction to Web and Graphic Design - 3 - Credits

Course Overview

Course Prefix
TEWG

Course Number
1010

Department
Technology, Design & Technical Ed

Course Title
Introduction to Web and Graphic Design

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course explores how storytelling empowers all effective digital marketing and online communication. Students evaluate and elevate their online presence by creating professional emails, cover letters, resumes, portfolios, and social media accounts.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes
1. Identify individual students' learning styles and present tools for active learning.
2. Define graphic design and web design
3. Define the purpose of web and graphic design in digital marketing.
4. Describe the different types of digital marketing channels available.
5. Utilize storytelling in digital communication.
6. Create a resume, cover letter, professional bio, and personal statement.
7. Enhance and edit social media profiles to impress clients/employers
8. Create a digital portfolio

TEWG1020 - Raster Graphics - 3 - Credits

Course Overview

Course Prefix
TEWG

Course Number
1020

Department
Technology, Design & Technical Ed

Course Title
Raster Graphics

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course explores fundamental and advanced features of industry-standard image editing software for graphic design. Students edit, enhance, repair, modify, and combine images with text and shapes to create graphics for web and print.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes
1. Explain the basic concepts associated with raster images, digital color spaces, and file formats.
2. Define image composition and its main goals.
3. Define and recognize principles of composition in graphics: balance, contrast, motion, emphasis, scale, pattern, unity.
4. Edit, alter, enhance, repair, combine, and manipulate digital images
5. Adjust size, resolution, and file formats based off the intended final context (print vs web).
6. Use selection tools and shortcut keys.
7. Work with and organize layers.
8. Create a digital portfolio of completed work.

TEWG1030 - Vector Graphics - 3 - Credits

Course Overview

Course Prefix
TEWG

Course Number
1030

Department
Technology, Design & Technical Ed

Course Title
Vector Graphics

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course explores fundamental and advanced features of industry-standard vector illustration software for graphic design. Students edit, enhance, repair, modify, and combine images with text and shapes to create graphics for web and print.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Examine the formal elements of design: line, shape, color, and texture.
2. se colors and shapes to design signs and symbols.
3. Create illustrations with drawing tools.
4. Work with type, layers, gradients, blends, and patterns.
5. Use brushes, effects, clipping masks, and graphic styles.
6. Explore creating images with distortions, gradient meshes, envelopes, and blends.
7. Use design concepts and tools to create branded marketing materials.
8. Create a digital portfolio of completed work.

TEWG1040 - Responsive Web Design I - 3 - Credits

Course Overview

Course Prefix
TEWG

Course Number
1040

Department
Technology, Design & Technical Ed

Course Title
Responsive Web Design I

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces the latest HTML/CSS techniques to create custom mobile-first responsive websites that automatically scale and adjust their content and layout to fit any screen size.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Create responsive web pages with HTML5.
2. Configure text, color, and page layout with Cascading Style Sheets.
3. Configure images and videos on web pages.
4. Explore new CSS3 properties.
5. Design web pages with best practices.
6. Design web pages with accessibility, usability, and search engine optimization considerations.
7. Obtain a domain name and a web host.
8. Publish web pages to the internet using FTP (File Transfer Protocol).
9. Develop a high-quality personal portfolio site

TEWG1050 - Responsive Web Design II - 3 - Credits

Course Overview

Course Prefix
TEWG

Course Number
1050

Department
Technology, Design & Technical Ed

Course Title
Responsive Web Design II

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces the basics of website templating to create a website structure that is easy to maintain. Students explore advanced CSS techniques and JavaScript libraries to add interactivity and advanced functionality to a website.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- TEWG1040 - Responsive Web Design I

Course Learning Objectives

Course Learning Outcomes

1. Understand the purpose of a website template and how to create it.
2. Utilize CSS3 to style web content.
3. Improve workflow with CSS Preprocessors.
4. Utilize JSON and JavaScript to organize data.
5. Develop a high-quality personal portfolio site.

TEWG1060 - Introduction to User Experiences (UX) and User Interface (UI) - 3 - Credits

Course Overview

Course Prefix
TEWG

Course Number
1060

Department
Technology, Design & Technical Ed

Course Title
Introduction to User Experiences (UX) and User Interface (UI)

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students use industry-standard tools to design and prototype user interfaces (UI) that are intuitive and easy to use.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Define UX/UI design process from idea to deliverable.
2.Define Gestalt Principles.
3. Conduct user interviews and data synthesis.
4. Explore ideation processes and user empathy.
5. Create a storyboard, user flow, and paper prototypes.
6. Conduct UI analysis.
7. Create wireframes and prototypes.
8. Create site maps and effective navigation using information architecture best practices
9. Create design system and UI style guides.
10. Understand the value of grids in creating professional designs.
11. Create low, mid, and high-fidelity wireframes and prototypes.
12. Conduct usability tests and employ an iterative design process.
13. Create a case study.

TEWG1070 - Content Management Systems - 3 - Credits

Course Overview

Course Prefix
TEWG

Course Number
1070

Department
Technology, Design & Technical Ed

Course Title
Content Management Systems

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Content Management Systems (CMS) introduces the process for transforming a static site into a dynamic CMS theme. Students install the CMS locally, modify content, style the site using CSS/JS, and migrate the CMS to a live internet server.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Setup a development environment.
2. Identify the primary components that make up a CMS theme.
3. Utilize CSS Preprocessing and JavaScript to add styling and functionality.
4. Create a custom child theme
5. Identify and install essential plugins.
6. Migrate the site to a live internet server.

TEWG1100 - Typography - 2 - Credits

Course Overview

Course Prefix
TEWG

Course Number
1100

Department
Technology, Design & Technical Ed

Course Title
Typography

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces the history and principles of using type and words as design elements. Throughout this course, students study the history of letter forms and fonts as well as various techniques for printing documents.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Identify and discuss the major technological advances in the history of printing.
2. Create wood or potato block letters and use them for printing images.
3. Discuss font styles and families and how they have evolved over time.
4. Apply typesetting terminology and techniques to documents.
5. Design a custom family of font styles.
6. Identify the principles of effective typography and font usage.

TEWG1110 - Digital Publishing - 3 - Credits

Course Overview

Course Prefix
TEWG

Course Number
1110

Department
Technology, Design & Technical Ed

Course Title
Digital Publishing

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students learn how to set up documents, work with colors, import and link graphics, draw with vectors, adjust typography, create tables, work with XML, and export PDFs. Students are introduced to transparencies, blending modes, feathered edges, and drop shadows.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Identify and work with the workspace.
2. Set up a document.
3. Work with objects, color, and flowing text.
4. Edit text and work with typography and styles
5. Create tables, import and modify graphics, work with transparency.
6. Printing and exporting.
7. Create PDF files with form fields.
8. Create a fixed-layout ePub and publish online.

TEWG1130 - Digital Video I - 3 - Credits

Course Overview

Course Prefix
TEWG

Course Number
1130

Department
Technology, Design & Technical Ed

Course Title
Digital Video I

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students in this course develop skills using industry standard software to capture and edit audio video, and manipulate transitions and effects, and export in a variety of different formats.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Set up a project.
2. Import and organize media.
3. Edit video with essential techniques.
4. Work with clips and markers.
5. Add video and audio transitions.
6. Edit video with advanced techniques.
7. Put clips in motion.
8. Edit, mix, and improve audio.
9. Add video effects.
10. Apply color correction and grading.
11. Work with composting techniques.
12. Create new graphics.
13. Export frames, clips, and sequences.

TEWG1140 - Digital Video II - 3 - Credits

Course Overview

Course Prefix
TEWG

Course Number
1140

Department
Technology, Design & Technical Ed

Course Title
Digital Video II

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students in this course develop skills using industry-standard software for digital post-production video effects. Students practice using 2D and 3D tools to create compositing, animation, and effects as motion-graphics professionals, visual effects artists, web designers, and video professionals.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- TEWG1130 - Digital Video I

TEWG1150 - eMarketing for Designers - 3 - Credits

Course Overview

Course Prefix
TEWG

Course Number
1150

Department
Technology, Design & Technical Ed

Course Title
eMarketing for Designers

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students learn to effectively and affordably market products, ideas, and information using online shopping carts, email marketing, social networking, search engine optimization, crowd funding, video marketing, and printed collateral.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Integrate an eCommerce Shopping Cart into an existing website.
2. Create an Email Marketing Campaign.
3. Utilize Social Networking Business Pages.
4. Optimize a webpage for Search Engines.
5. Develop a Crowd Funding Campaign.
6. Script a Marketing Video.
7. Implement Digital Conversion Metrics/Analytics.

TEWG1170 - JavaScript Fundamentals - 3 - Credits

Course Overview

Course Prefix
TEWG

Course Number
1170

Department
Technology, Design & Technical Ed

Course Title
JavaScript Fundamentals

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students in this course learn basic JavaScript programming concepts along with syntax and techniques. They also learn to utilize the tools necessary to troubleshoot and debug JavaScript applications. Students practice and build dynamically functioning applications using JavaScript.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Define concepts and terms necessary to develop JavaScript applications.
2. Identify and apply basic JavaScript concepts including control flow, functions, methods, object literals, the DOM, forms and arrays.
3. Use functions and methods.
4. Create real-world front-end applications with JavaScript.
5. Identify errors in your code.

TEWG1180 - Modern JavaScript - 3 - Credits

Course Overview

Course Prefix
TEWG

Course Number
1180

Department
Technology, Design & Technical Ed

Course Title
Modern JavaScript

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students learn JavaScript programming concepts and the syntax and techniques needed to build web applications. They build dynamically functioning applications using modern JavaScript techniques. Students are also introduced to jQuery and learn about its relation to JavaScript.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

TEWG1200 - Design Fundamentals - 2 - Credits

Course Overview

Course Prefix
TEWG

Course Number
1200

Department
Technology, Design & Technical Ed

Course Title
Design Fundamentals

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course familiarizes students with the principles of design including the use of color, typography, and layout techniques. Students use the design principles and elements to effectively communicate a message or fulfill a specific goal.

Credit Hours

Credit Hours Min:
2

Contact Hours

Contact Hours Min:
2

Billing Hours

Billing Hours Min:
2

Lecture Hours

Lecture Hours Min:
2

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Demonstrate understanding of the design process.
2. Describe the principles of design.
3. Describe primary design elements.
4. Use design tools and software to create and manipulate digital designs.
5. Develop effective layouts using various layout techniques.
6. Analyze and critique designs using visual vocabulary.

TEWG1210 - Introduction to JavaScript - 3 - Credits

Course Overview

Course Prefix
TEWG

Course Number
1210

Department
Technology, Design & Technical Ed

Course Title
Introduction to JavaScript

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students learn the fundamentals of JavaScript, including its syntax and how to work with its major components, such as variables, data types, operators, functions, control structures, objects, and events. Students incorporate JavaScript into a website to create interactive experiences.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Explain the key features of the JavaScript syntax.
2. Demonstrate proper use of JavaScript syntax such as variables, data types, operators, controlDemonstrate proper use of JavaScript syntax such as variables, data types, operators, control structures, functions, objects, and events."
3. Use JavaScript to interact with the Document Object Model (DOM).
4. Troubleshoot and validate JavaScript code using debugging specific tools and methods.
5. Incorporate JavaScript into websites
6. Demonstrate an understanding of the principles of animation, such as timing, spacing, and easing.

TEWG1220 - Web Animation - 3 - Credits

Course Overview

Course Prefix
TEWG

Course Number
1220

Department
Technology, Design & Technical Ed

Course Title
Web Animation

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces students to a variety of elements in website animation, using HTML, CSS, JavaScript, and JavaScript libraries. Emphasis is placed on the proper use of these scripting and web languages and on creating a variety of graphic objects.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

TEWT1000 - Introduction to Welding and Cutting - 2 - Credits

Course Overview

Course Prefix
TEWT

Course Number
1000

Department
Technology, Design & Technical Ed

Course Title
Introduction to Welding and Cutting

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course serves as an introduction to the welding industry. General welding shop safety, thermal cutting processes, basic welding terminology, and arc welding basics are discussed.

Credit Hours

Credit Hours Min:
2

Contact Hours

Contact Hours Min:
2

Billing Hours

Billing Hours Min:
2

Lecture Hours

Lecture Hours Min:
2

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Demonstrate safety as it relates to welding and manufacturing.
2. Perform cuts using thermal cutting processes.
3. Identify and define basic welding terminology.
4. Demonstrate safe set-up of arc welding equipment.
5. Perform basic welds on carbon steel.
6. Demonstrate clear communication in the workplace.
7. Demonstrate effective workplace habits and attitudes.

TEWT1005 - Welding Overview - 3 - Credits

Course Overview

Course Prefix
TEWT

Course Number
1005

Department
Technology, Design & Technical Ed

Course Title
Welding Overview

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course teaches students to perform oxyacetylene welding, brazing, and cutting. Students learn to run beads, grooves, and fillet welds in butt, tee, and lap joints.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Setup welding equipment.
2. Perform safety inspections of equipment and accessories.
3. Light torch and demonstrate oxidizing, neutral, and carborizing flames.
4. Weld butt, lap, and tee joints in flat position oxyacetylene.
5. Braze weld butt, lap, and tee joints.
6. Weld butt, lap, and tee joints with arc welding processes.

TEWT1008 - Welding for Manufacturing - 2 - Credits

Course Overview

Course Prefix
TEWT

Course Number
1008

Department
Technology, Design & Technical Ed

Course Title
Welding for Manufacturing

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course teaches welding safety, protection, accident prevention, and troubleshooting. Students practice set-up, operation of equipment, positions, executions, and the workmanship needed for a basic weld.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Describe oxy fuel cutting process terms.
2. Demonstrate proper equipment setup, usage, cleaning, and break-down.
3. Discuss and conduct safety inspections of equipment and accessories.
4. List and describe oxy fuel cutting equipment.
5. Perform setup, lighting, and use of oxy fuel cutting equipment.
6. Demonstrate various cutting techniques including straight cuts, beveling, and gouging on various base metals.
7. Name key terms for GMAW.
8. Make GMAW-S (Short Circuit) Fillet Welds the 2F position.
9. Make GMAW-S (Short Circuit) Groove Welds in the 2G position.
10. Make GMAW-S (Short Circuit) V Groove Welds in the 2G position.

TEWT1010 - Measurement Systems - 1 - Credits

Course Overview

Course Prefix
TEWT

Course Number
1010

Department
Technology, Design & Technical Ed

Course Title
Measurement Systems

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
In this course, students gain an understanding of the concepts and implementation of measurement systems used by welding professionals. US customary units, metric units, and utilization of basic measurement tools are discussed.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Correctly read a tape measure.
2. Perform fraction and decimal conversions.
3. Perform metric and US customary unit conversions.
4. Perform basic trigonometry functions as they relate to welding and fabrication.
5. Use basic measurement systems, which are common in the welding industry, correctly by applying course concepts

TEWT1020 - Welding Symbols and Print Reading - 2 - Credits

Course Overview

Course Prefix
TEWT

Course Number
1020

Department
Technology, Design & Technical Ed

Course Title
Welding Symbols and Print Reading

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course teaches students to interpret prints and drawings, including welding symbols used in the welding and fabrication industries. Engineering drawings are introduced as the medium by which the engineer, project manager, and/or draftsman communicates instructions to production welding personnel.

Credit Hours

Credit Hours Min:
2

Contact Hours

Contact Hours Min:
2

Billing Hours

Billing Hours Min:
2

Lecture Hours

Lecture Hours Min:
2

No Requirements

Course Learning Objectives

Course Learning Outcomes
1. Identify various American Welding Society (AWS) welding symbols.
2. Identify basic line types used in mechanical drawings.
3. Demonstrate basic sketching techniques and object representations.
4. Create alternate views from existing views.
5. Use drawing notes, specifications, title blocks, and bills of materials correctly.

TEWT1075 - Weld Inspection - 3 - Credits

Course Overview

Course Prefix
TEWT

Course Number
1075

Department
Technology, Design & Technical Ed

Course Title
Weld Inspection

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces students to the requirements, skills, and fundamental knowledge required to become welding inspectors. Critical emphasis is placed on preparing students to eventually take the Certified Welding Inspector (CWI) exam through the American Welding Society (AWS).

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes
1. Demonstrate a thorough understanding of the expectations, necessary professional qualifications, and responsibilities of a CWI.
2. Identify basic welding-specific codes, specifications, standards, and their appropriate applications within the United States, including AWS D1.1, AWS A3.0, ASME Section IX, and API 1104.
3. Develop an understanding of correct welding terminology, welding joint geometry, and welding symbols used in the industry in accordance with AWS standards.
4. Develop an understanding of common non-destructive evaluation (NDE) processes used by welding inspectors in industry, including Penetrant Testing (PT), Magnetic Particle Testing (MT), Radiographic Testing (RT), Ultrasonic Testing (UT), and Eddy Current Testing (ET).
5. Develop an understanding of common destructive testing methods used by welding inspectors in the industry, including bend testing, hardness testing,

fillet-weld break testing, tensile testing, nick-break testing, and macro-etch testing.
6. Identify common weld and base metal discontinuities and develop an understanding of effective evaluation, prevention, and repair methods.
7. Develop an understanding of common inspection tools and gages used by a welding inspector.
8. Develop an understanding of the common welding qualification documents used by an inspector, including Welding Procedure Specifications (WPS), Procedure Qualification Records (PQR), Welder Performance Qualification Records (WPQR), Mill Test Reports (MTR), and Standard 9. 9. Welding Procedure Specifications (SWPS).
10. Perform one or more weld inspections utilizing visual inspection tools and determine acceptability in accordance with the provided visual inspection acceptance criteria.
11. Perform Penetrant Testing (PT).
12. Perform Magnetic Particle Testing (MT).

TEWT1080 - Welding Metallurgy - 3 - Credits

Course Overview

Course Prefix
TEWT

Course Number
1080

Department
Technology, Design & Technical Ed

Course Title
Welding Metallurgy

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces students to ferrous metals and how welding affects metal properties and microstructure. Topics of discussion include steel manufacturing, grain structures, heat-treating processes, mechanical properties of metals, iron-carbon phase diagrams, and destructive testing.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes
1. Develop an understanding of basic ferrous and nonferrous metallurgy.
2. Develop an understanding of basic chemistry concepts as they pertain to metallurgy, including atoms, molecules, compounds, elements, grains, crystals, solutions, and alloys.
3. Identify the most commonly used hardness-testing methods for metallurgy, including Brinell, Rockwell, Vickers, Knoop, and superficial.
4. Perform Rockwell hardness testing on a variety of material microstructures.
5. Develop an understanding of commonly used steel manufacturing processes.
6. Develop an understanding of basic material properties concepts as they pertain to metallurgy including ductility, strength, hardness, malleability, toughness, and percent elongation.
7. Identify how common alloying elements affect a material's microstructure and mechanical properties.
8. Identify basic crystalline grain structures that exist in carbon steel including

body-centered cubic (BCC), face-centered cubic (FCC), hexagonal close-packed (HCP), and body-centered tetragonal (BCT).
9. Demonstrate the ability to interpret the iron-carbon phase diagram as well as the common phases and properties of phases that exist in carbon steel including ferrite, austenite, pearlite, cementite, martensite and their common combinations.
10. Develop an understanding of metallurgical sample preparation for various destructive and non- destructive testing methods.
11. Demonstrate an understanding of common heat-treatment processes, including quenching, tempering, annealing, and normalizing.
12. Identify common surface-hardening techniques, including carburizing, nitriding, cold-working, and localized heating.
13. Prepare a metallurgical sample for visual analysis utilizing a metallurgical sample polisher.
14. Observe various material microstructures utilizing a microscope.

TEWT1105 - Welding Qualifications - 3 - Credits

Course Overview

Course Prefix
TEWT

Course Number
1105

Department
Technology, Design & Technical Ed

Course Title
Welding Qualifications

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students will set up, weld, and test selected welder qualification plates. The course helps prepare students for the American Welding Society (AWS) D1.1 Structural Welding Code–Steel qualifications in the gas metal arc (GMAW) and shielded metal arc (SMAW) processes.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes
1. Set up the welder correctly for each welding process.
2. Prepare qualification plates according to code standards.
3. Weld qualification plates in various positions with Shielded Metal Arc Welding.
4. Weld qualification plates in various positions with Gas Metal Arc Welding.
5. Prepare test plates properly for face and root bends.

TEWT1111 - Shielded Metal Arc Welding (SMAW) I - 2 - Credits

Course Overview

Course Prefix
TEWT

Course Number
1111

Department
Technology, Design & Technical Ed

Course Title
Shielded Metal Arc Welding (SMAW) I

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course teaches the set-up, operation, and practical uses of Shielded Metal Arc Welding. Process advantages and limitations are discussed. Students receive hands-on instruction regarding SMAW standard procedures and best practices in accordance with current industry standards.

Credit Hours

Credit Hours Min:
2

Contact Hours

Contact Hours Min:
2

Billing Hours

Billing Hours Min:
2

Lecture Hours

Lecture Hours Min:
2

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- TEWT1000 - Introduction to Welding and Cutting

may be taken concurrently

Corequisite

Type
Corequisite

Required

Enroll in the following Courses:

- TEWT1112 - Shielded Metal Arc Welding (SMAW) II
- TEWT1140 - Shielded Metal Arc Welding (SMAW) Theory

Course Learning Objectives

Course Learning Outcomes

1. Demonstrate safety and best practices of SMAW-specific welding.
2. Set up and operate appropriate SMAW equipment.
3. Identify process advantages and limitations.
4. Perform 1F and 1G welds with SMAW.
5. Perform 2F and 2G welds with SMAW.

TEWT1112 - Shielded Metal Arc Welding (SMAW) II - 2 - Credits

Course Overview

Course Prefix
TEWT

Course Number
1112

Department
Technology, Design & Technical Ed

Course Title
Shielded Metal Arc Welding (SMAW) II

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course expands students' competency in hands-on uses and practical application of SMAW. Students learn to reason through appropriate electrode diameters, classifications, and appropriate current levels necessary to achieve proficiency in SMAW.

Credit Hours

Credit Hours Min:
2

Contact Hours

Contact Hours Min:
2

Billing Hours

Billing Hours Min:
2

Lecture Hours

Lecture Hours Min:
2

Simple Requisites

Corequisite

Type
Corequisite

Required

Enroll in the following Courses:

- TEWT1111 - Shielded Metal Arc Welding (SMAW) I
- TEWT1140 - Shielded Metal Arc Welding (SMAW) Theory

Course Learning Objectives

Course Learning Outcomes

Course Learning Outcomes:

1. Describe the advantages and limitations of SMAW.
2. Select proper electrode classifications for their appropriate applications.
3. Perform 3F and 3G welds with SMAW.
4. Perform 4F and 4G welds with SMAW.

TEWT1140 - Shielded Metal Arc Welding (SMAW) Theory - 2 - Credits

Course Overview

Course Prefix
TEWT

Course Number
1140

Department
Technology, Design & Technical Ed

Course Title
Shielded Metal Arc Welding (SMAW) Theory

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
In this course, students develop in-depth theoretical knowledge of the SMAW process, including definitions, process advantages and limitations, electrode types and classifications, SMAW power sources, causes and solutions for SMAW discontinuities, and process troubleshooting.

Credit Hours

Credit Hours Min:
2

Contact Hours

Contact Hours Min:
2

Billing Hours

Billing Hours Min:
2

Lecture Hours

Lecture Hours Min:
2

Simple Requisites

Corequisite

Type
Corequisite

Required

Enroll in the following Courses:

- TEWT1111 - Shielded Metal Arc Welding (SMAW) I
- TEWT1112 - Shielded Metal Arc Welding (SMAW) II

Course Learning Objectives

Course Learning Outcomes

1. Define the Shielded Metal Arc Welding (SMAW) process in detail.
2. Identify SMAW process fundamentals.
3. Identify SMAW process advantages and limitations.
4. Demonstrate an understanding of SMAW electrodes, including appropriate uses, types of flux coatings, how electrodes function, slag formation, and electrode classifications in accordance with the most current AWS standards.
5. Define SMAW principles of operation.
6. Demonstrate an understanding of constant-current volt-amp response curves commonly used for SMAW.

TEWT1211 - Gas Tungsten Arc Welding (GTAW) I - 2 - Credits

Course Overview

Course Prefix
TEWT

Course Number
1211

Department
Technology, Design & Technical Ed

Course Title
Gas Tungsten Arc Welding (GTAW) I

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course teaches the setup, operation, and practical application of GTAW using ferrous steel. Process advantages and limitations are discussed. Students receive hands-on instruction regarding GTAW standard procedures and best practices in accordance with current industry standards.

Credit Hours

Credit Hours Min:
2

Contact Hours

Contact Hours Min:
2

Billing Hours

Billing Hours Min:
2

Lecture Hours

Lecture Hours Min:
2

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:
- TEWT1000 - Introduction to Welding and Cutting

may be taken concurrently.

Corequisite

Type
Corequisite

Required

Enroll in the following Courses:
- TEWT1212 - Gas Tungsten Arc Welding (GTAW) II
- TEWT1240 - Gas Tungsten Arc Welding (GTAW) Theory

Course Learning Objectives

Course Learning Outcomes

1. Demonstrate safety and best practices of GTAW-specific welding.
2. Set up and operate appropriate GTAW equipment.
3. Identify process advantages and limitations.
4. Perform 1F, 1G, 2F, and 2G welds on ferrous metals using GTAW.
5. Perform 3F, 3G, 4F, and 4G welds on ferrous metals using GTAW.

TEWT1212 - Gas Tungsten Arc Welding (GTAW) II - 2 - Credits

Course Overview

Course Prefix
TEWT

Course Number
1212

Department
Technology, Design & Technical Ed

Course Title
Gas Tungsten Arc Welding (GTAW) II

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course expands student competency in hands-on uses and practical applications of GTAW using non-ferrous metals. Electrode classifications, preparation, and tip geometries are discussed. Students learn appropriate parameter selection for welding procedure requirements as necessary for GTAW proficiency.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Simple Requisites

Corequisite

Type
Corequisite

Required

Enroll in the following Courses:

- TEWT1211 - Gas Tungsten Arc Welding (GTAW) I
- TEWT1240 - Gas Tungsten Arc Welding (GTAW) Theory

Course Learning Objectives

Course Learning Outcomes

1. Describe the advantages and limitations of GTAW.
2. Select proper electrode classifications for their appropriate applications.
3. Describe electrode classifications along with the appropriate uses and tip configurations.
4. Perform 1F and 1G welds on non-ferrous metals with GTAW.
5. Perform 2F and 2G welds on non-ferrous metals with GTAW.

TEWT1240 - Gas Tungsten Arc Welding (GTAW) Theory - 2 - Credits

Course Overview

Course Prefix
TEWT

Course Number
1240

Department
Technology, Design & Technical Ed

Course Title
Gas Tungsten Arc Welding (GTAW) Theory

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
In this welding theory course, students develop in-depth theoretical knowledge of the GTAW process, including definitions, process advantages and limitations, electrode types and classifications, GTAW power sources, causes and solutions for GTAW discontinuities, and process troubleshooting.

Credit Hours

Credit Hours Min:
2

Contact Hours

Contact Hours Min:
2

Billing Hours

Billing Hours Min:
2

Lecture Hours

Lecture Hours Min:
2

Simple Requisites

Corequisite

Type
Corequisite

Required

Enroll in the following Courses:

- TEWT1211 - Gas Tungsten Arc Welding (GTAW) I
- TEWT1212 - Gas Tungsten Arc Welding (GTAW) II

Course Learning Objectives

Course Learning Outcomes

1. Define the Gas Tungsten Arc Welding (GTAW) process in detail.
2. Identify GTAW process fundamentals.
3. Become familiar with the equipment and torch components necessary for GTAW, including collets, collet bodies, gas lenses, nozzles, and electrodes.
4. Demonstrate a thorough understanding of polarity, including the ability to select the correct polarity based on welding application, the advantages and limitations of each polarity type, and how polarity affects electrode current capacity.
5. Identify GTAW process advantages and limitations.
6. Demonstrate an understanding of GTAW electrodes including appropriate uses, tip geometries, sizing based on polarity and current, how tip geometry affects the weld pool, grinding techniques, and electrode classifications in accordance with the most current AWS standards.
7. Demonstrate an understanding of constant-current volt-amp response curves commonly used for GTAW.
8. Define the various affects of current, arc length, electrode manipulation, work angle, and travel angle on a molten weld pool using GTAW.
9. Demonstrate an understanding of GTAW shielding requirements, including appropriate shielding gasses, appropriate flow rates, lamellar flow, and purging.
10. Identify weld discontinuities common to GTAW and develop strategies to minimize, eliminate, and/or repair them.

TEWT1311 - Gas Metal Arc Welding (GMAW) I - 2 - Credits

Course Overview

Course Prefix
TEWT

Course Number
1311

Department
Technology, Design & Technical Ed

Course Title
Gas Metal Arc Welding (GMAW) I

Grade Mode
Standard Letter

Repeat Status
NR

Course Description

This course teaches set-up, operation, and practical application of GMAW. Process advantages and limitations are discussed. Students receive hands-on instruction regarding GMAW standard procedures and best practices in accordance with industry standards using short-circuiting and axial spray metal transfer modes.

Credit Hours

Credit Hours Min:
2

Contact Hours

Contact Hours Min:
2

Billing Hours

Billing Hours Min:
2

Lecture Hours

Lecture Hours Min:
2

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- TEWT1000 - Introduction to Welding and Cutting

may be taken concurrently.

Corequisite

Type
Corequisite

Required

Enroll in the following Courses:

- TEWT1411 - Flux Cored Arc Welding (FCAW) I
- TEWT1340 - Gas Metal Arc Welding (GMAW) and Flux-Cored Arc Welding (FCAW) Theory

Course Learning Objectives

Course Learning Outcomes

1. Demonstrate safety and best practices of GMAW-specific welding.
2. Setup and operate appropriate GMAW equipment.
3. Identify process advantages and limitations.
4. Perform 1F, 1G, 2F, and 2G welds using GMAW-S.
5. Perform 1F, 1G, and 2F welds using GMAW axial spray transfer.

TEWT1312 - Gas Metal Arc Welding (GMAW) II - 2 - Credits

Course Overview

Course Prefix
TEWT

Course Number
1312

Department
Technology, Design & Technical Ed

Course Title
Gas Metal Arc Welding (GMAW) II

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course expands students' competency in the practical application of GMAW. Shielding gas composition, selection, and appropriate flow rates are discussed. Students learn appropriate parameter selection as necessary for GMAW proficiency. The pulsed-spray (GMAW-P) metal transfer mode is introduced.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Course Learning Objectives

Course Learning Outcomes

1. Describe the advantages and limitations of GMAW.
2. Select proper equipment and parameters given welding procedure requirements.
3. Describe shielding gas flow rates, composition, and selection.
4. Perform 3F, 3G, 4F, and 4G welds with GMAW-S.
5. Perform fillets and groove joints with GMAW-P.

TEWT1340 - Gas Metal Arc Welding (GMAW) and Flux-Cored Arc Welding (FCAW) Theory - 2 - Credits

Course Overview

Course Prefix
TEWT

Course Number
1340

Department
Technology, Design & Technical Ed

Course Title
Gas Metal Arc Welding (GMAW) and Flux-Cored Arc Welding (FCAW) Theory

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
In this theory course, students develop in-depth theoretical knowledge of the GMAW and FCAW processes, including definitions, advantages, limitations, electrode classifications, power sources, causes, and solutions for GMAW and FCAW discontinuities, and troubleshooting processes.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Simple Requisites

Corequisite

Type
Corequisite

Required

Enroll in the following Courses:

- TEWT1311 - Gas Metal Arc Welding (GMAW) I
- TEWT1411 - Flux Cored Arc Welding (FCAW) I

Course Learning Objectives

Course Learning Outcomes

1. Define the Gas Metal Arc Welding (GMAW) process in detail.
2. Define the Flux Cored Arc Welding (FCAW) process in detail.
3. Identify GMAW and FCAW process fundamentals and principles of operation.
4. Become familiar with the equipment and torch components necessary for GMAW and FCAW, including wire feeders, drive rolls, contact tips, gas diffusers, and nozzles.
5. Demonstrate an understanding of GMAW and FCAW electrodes including appropriate uses, common sizes, manufacturing standards, and electrode classification in accordance with the most current AWS standards.
6. Demonstrate an understanding of constant-voltage volt-amp response curves commonly used for GMAW and FCAW.
7. Using GMAW and FCAW, define the various effects of voltage, current, arc length, wire feed speed, electrode manipulation, work angle, and travel angle on a molten weld pool.
8. Identify and explain metal transfer modes, including short-circuiting, globular, and axial spray.
9. Become familiar with pulsed-waveform transfer modes and their appropriate uses.
10. Identify and explain the FCAW-G and FCAW-S variations of FCAW.

TEWT1411 - Flux Cored Arc Welding (FCAW) I - 2 - Credits

Course Overview

Course Prefix
TEWT

Course Number
1411

Department
Technology, Design & Technical Ed

Course Title

Flux Cored Arc Welding (FCAW) I

Grade Mode
Standard Letter

Repeat Status
NR

Course Description

This course covers the setup, operation, and practical application of FCAW. Process advantages and limitations are discussed. Students receive hands-on instruction regarding FCAW standard procedures and best practices in accordance with current industry standards.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- TEWT1000 - Introduction to Welding and Cutting

may be taken concurrently

Corequisite

Type
Corequisite

Required

Enroll in the following Courses:

- TEWT1311 - Gas Metal Arc Welding (GMAW) I
- TEWT1340 - Gas Metal Arc Welding (GMAW) and Flux-Cored Arc Welding (FCAW) Theory

Course Learning Objectives

Course Learning Outcomes

1. Demonstrate safety and best practices of FCAW-specific welding.
2. Setup and operate of appropriate FCAW equipment.
3. Identify process advantages and limitations.
4. Perform 1F and 1G welds with FCAW.
5. Perform 2F and 2G welds with FCAW.

TEWT1412 - Flux Cored Arc Welding (FCAW) II - 2 - Credits

Course Overview

Course Prefix
TEWT

Course Number
1412

Department
Technology, Design & Technical Ed

Course Title
Flux Cored Arc Welding (FCAW) II

Grade Mode
Standard Letter

Repeat Status
NR

Course Description

This course expands student competency in hands-on uses and practical application of FCAW. Shielding gas composition, selection, and appropriate flow rates are discussed. Students learn appropriate parameter selection for welding procedure requirements as necessary for FCAW proficiency.

Credit Hours

Credit Hours Min:
2

Contact Hours

Contact Hours Min:
2

Billing Hours

Billing Hours Min:
2

Lecture Hours

Lecture Hours Min:
2

Course Learning Objectives

Course Learning Outcomes

1. Describe the advantages and limitations of FCAW.
2. Select proper equipment and parameters given welding procedure requirements.
3. Describe shielding gas flow rates, composition, and selection.
4. Perform 3F and 3G welds with FCAW.
5. Perform 4F and 4G welds with FCAW.

TEWT1650 - Practical Fabrication and Layout - 5 - Credits

Course Overview

Course Prefix
TEWT

Course Number
1650

Department
Technology, Design & Technical Ed

Course Title
Practical Fabrication and Layout

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students propose, design, and fabricate their projects. Instructional emphasis also includes project planning, material procurement, and effective time management related to fabrication. Students gain experience utilizing a variety of fabrication tools and equipment.

Credit Hours

Credit Hours Min:
5

Contact Hours

Contact Hours Min:
5

Billing Hours

Billing Hours Min:
5

Lecture Hours

Lecture Hours Min:
5

Simple Requisites

Prerequisite

Type
Prerequisite

May be taken concurrently

Complete ALL of the following Courses:

- TEWT1000 - Introduction to Welding and Cutting

Course Learning Objectives

Course Learning Outcomes
1. Demonstrate essential fabrication techniques including measuring, squaring, clamping, layout, and fixturing during the process of project completion.
2. Demonstrate an ability to thoroughly brainstorm, plan, create sketches/prints, propose, and fabricate a welded project to completion.
3. Demonstrate an ability to utilize arc welding and thermal cutting equipment during fabrication.
4. Utilize a variety of common fabrication tools and equipment to complete fabricated projects including bandsaws, drill presses, angle grinders, bench grinders, ironworkers, press-brakes, and common fabrication hand tools.
5. Demonstrate effective distortion control techniques during fabrication.
6. Identify common structural shapes utilized in fabrication.
7. Become familiar with common material identification methods, including magnetism, spark testing, and others
8. Become familiar with appropriate practices for performing weld repairs on vehicles and vehicle frames.
9. Create and/or revise a professional resume and cover letter in accordance with welding industry-recommended practices.

TEWT1730 - Professional Vocational Leadership - 2 - Credits

Course Overview

Course Prefix
TEWT

Course Number
1730

Department
Technology, Design & Technical Ed

Course Title
Professional Vocational Leadership

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course facilitates student participation in SkillsUSA welding competitions. SkillsUSA goals and objectives are discussed. Students learn common strategies and skills necessary for successful participation in the SkillsUSA Welding, Welding Fabrication, and Welding Sculpture contests.

Credit Hours

Credit Hours Min:
2

Contact Hours

Contact Hours Min:
2

Billing Hours

Billing Hours Min:
2

Lecture Hours

Lecture Hours Min:
2

Course Learning Objectives

Course Learning Outcomes

1. Become familiar with the SkillsUSA vocational leadership program.
2. Become a student member of SkillsUSA.
3. Develop an understanding of the SkillsUSA philosophy beyond the scope of competitions.
4. Develop an understanding of practical welding competition practices including print reading conformity, WPS conformity, scoring criteria, judging procedures, and project order of assembly.
5. Identify competition best-practices utilizing contest scoring criteria as a guiding principle.
6. Develop an understanding of how welding contests are organized, facilitated, and administered.
7. Demonstrate the ability to use the skills learned in the class to participate in multiple mock-welding contests amongst the entire class.

TEWT1815 - Welding Sculpture - 3 - Credits

Course Overview

Course Prefix
TEWT

Course Number
1815

Department
Technology, Design & Technical Ed

Course Title
Welding Sculpture

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This project-based course is designed to introduce students to artistic and sculptural welding. Oxy-fuel cutting and plasma cutting for sculptural welding applications are taught, as well as forging. Art theory is also explored, including elements and principles of design.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes
1. Demonstrate proficiency in oxy-fuel cutting and plasma-arc cutting.
2. Develop a basic knowledge of forging.
3. Demonstrate knowledge in principles and elements of design and implement them in your projects.
4. Become familiar with the safety aspects associated with welding and general fabrication shop safety issues. Each student must complete a written safety test, at 80% or above, before being allowed to work in the shop.
5. Demonstrate ability to use equipment setup, welding technique on steel, and bending, cutting, and shaping metal using a variety of methods in order to create artistic sculptures.
6. Demonstrate competency in material preparation and finishing (grinding, sanding, oxidizing for aesthetic purposes, clear coating).
7. Demonstrate an ability to design and sketch a project, create a written plan, and weld a sculptural project to fit the requirements of a rubric.
8. Learn how to source materials for projects in a sustainable and cost-effective way.

THEA1000 - Acting I: Introduction to Acting (BCA) - 3 - Credits

Course Overview

Course Prefix
THEA

Course Number
1000

Department
Theatre Arts

Course Title
Acting I: Introduction to Acting (BCA)

General Education Attribute
BCA

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Fundamentals of acting. Identification of: objectives, actions, obstacles, and given circumstance in order to demonstrate text as the vehicle of dramatic action.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Admission to the BFA - Acting emphasis

No Requirements

THEA1010 - Acting II: Audition Preparation - 2 - Credits

Course Overview

Course Prefix
THEA

Course Number
1010

Department
Theatre Arts

Course Title
Acting II: Audition Preparation

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Fundamentals of audition monologue preparation: selection of appropriate material, editing, staging, self-direction, rehearsal and presentation.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Registration Restrictions
Admission to the BFA - Acting emphasis

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- THEA1000 - Acting I: Introduction to Acting (BCA)
- THEA1713 - Playscript Analysis (BHU)

THEA1013 - Understanding Theatre (BCA) - 3 - Credits

Course Overview

Course Prefix
THEA

Course Number
1013

Department
Theatre Arts

Course Title
Understanding Theatre (BCA)

General Education Attribute
BCA

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Survey of dramatic principles and structure, genre, and conventions for nonmajors. Functions and contributions of theatre artists and practices of the contemporary stage.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

THEA1023 - Introduction to Film (BCA) - 3 - Credits

Course Overview

Course Prefix
THEA

Course Number
1023

Department
Theatre Arts

Course Title
Introduction to Film (BCA)

General Education Attribute
BCA

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Study of elements of film narrative in fictional and nonfictional movies to provide a deeper understanding of content and film form.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

THEA1033 - Beginning Acting (BCA) - 3 - Credits

Course Overview

Course Prefix
THEA

Course Number
1033

Department
Theatre Arts

Course Title
Beginning Acting (BCA)

General Education Attribute
BCA

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Introduction and practice of basic acting skills and techniques. Performance assignments include exercises to explore concepts of action, concentration, observation, and imagination.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Admission to a Theatre Arts major or minor; some sections may be available for non-majors

No Requirements

THEA1113 - Voice for Actors I - 2 - Credits

Course Overview

Course Prefix
THEA

Course Number
1113

Department
Theatre Arts

Course Title
Voice for Actors I

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Training in basic vocal principles (Rodenburg, Linklater). Covers breath placement and support, physical alignment, projection, and resonance. Students learn basic warm-up to prepare the voice for performance.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Registration Restrictions
Admission to BFA Acting Emphasis

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:
- THEA1000 - Acting I: Introduction to Acting (BCA)
- THEA1713 - Playscript Analysis (BHU)

THEA1210 - Movement for Actors - 2 - Credits

Course Overview

Course Prefix
THEA

Course Number
1210

Department
Theatre Arts

Course Title
Movement for Actors

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Introductory, experiential course in movement with emphasis on somatic practices (body and mind) used in theatre. Improvisation will be emphasized to develop a creative and imaginative approach to character, emotion, and action through movement.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Registration Restrictions
Admission to the Theatre Arts: Acting - BFA program

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:
- THEA1000 - Acting I: Introduction to Acting (BCA)
- THEA1713 - Playscript Analysis (BHU)

THEA1310 - Theatre Education Seminar - 1 - Credits

Course Overview

Course Prefix
THEA

Course Number
1310

Department
Theatre Arts

Course Title
Theatre Education Seminar

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course reviews contemporary issues in theatre arts education and applied theatre, including evolving views on best practices and changes in educational policy at the university, local, state, and national levels. It engages students in artistic, educational, and/or service projects.

Credit Hours

Credit Hours Min:
1

Contact Hours

Contact Hours Min:
1

Billing Hours

Billing Hours Min:
1

Lecture Hours

Lecture Hours Min:
1

Registration Restrictions
Admission to the Theatre Arts: Theatre Education - BFA program

No Requirements

THEA1513 - Stagecraft (BCA) - 3 - Credits

Course Overview

Course Prefix
THEA

Course Number
1513

Department
Theatre Arts

Course Title
Stagecraft (BCA)

General Education Attribute
BCA

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Introduction to different physical theatre forms, standard stage equipment, and methods of staging plays. Basic practices in set construction, rigging, welding, props and stage crafts.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Registration Restrictions
Admission to a Theatre Arts major

THEA1713 - Playscript Analysis (BHU) - 3 - Credits

Course Overview

Course Prefix
THEA

Course Number
1713

Department
Theatre Arts

Course Title
Playscript Analysis (BHU)

General Education Attribute
BHU

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This introductory course focuses on plot, character, language, and the thematic analysis of varied historical and modern performance texts in the context of contemporary staging practice.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Admission to a Theatre Arts major

No Requirements

THEA2000 - Acting III: Scene Study-Text as Action - 3 - Credits

Course Overview

Course Prefix
THEA

Course Number
2000

Department
Theatre Arts

Course Title
Acting III: Scene Study-Text as Action

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Acting scene study using 20th century American theatrical literature, expanding principles studied in THEA 1000.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Admission to the BFA - Acting emphasis

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- THEA1010 - Acting II: Audition Preparation

THEA2010 - Acting IV: Shakespeare - 3 - Credits

Course Overview

Course Prefix
THEA

Course Number
2010

Department
Theatre Arts

Course Title
Acting IV: Shakespeare

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Acting monologue and scene study using the works of Shakespeare.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- THEA2000 - Acting III: Scene Study-Text as Action

THEA2100 - Voice for ActorsII: Speech and IPA - 3 - Credits

Course Overview

Course Prefix
THEA

Course Number
2100

Department
Theatre Arts

Course Title
Voice for ActorsII: Speech and IPA

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers speech and diction for actors, including the International Phonetic Alphabet (IPA).

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Admission to the BFA - Acting emphasis

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- THEA1113 - Voice for Actors I
- THEA1713 - Playscript Analysis (BHU)

THEA2110 - Voice for Actors III: Dialects - 2 - Credits

Course Overview

Course Prefix
THEA

Course Number
2110

Department
Theatre Arts

Course Title
Voice for Actors III: Dialects

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
IPA review, introduction to theatrical dialects of English, focusing on American regional. British regional, and other specific foreign dialects.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Registration Restrictions

Admission to the BFA - Acting emphasis

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- THEA2100 - Voice for ActorsII: Speech and IPA

THEA2200 - Ballet - 2 - Credits

Course Overview

Course Prefix
THEA

Course Number
2200

Department
Theatre Arts

Course Title
Ballet

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Fundamental principles of ballet, focusing on technique, choreography and terminology.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Registration Restrictions

Admission to the BFA - Acting emphasis

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- THEA1210 - Movement for Actors

THEA2203 - Costume Construction and Technology - 3 - Credits

Course Overview

Course Prefix
THEA

Course Number
2203

Department
Theatre Arts

Course Title
Costume Construction and Technology

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Costume craft will introduce students to the many methods and skills needed to costume a production. Basic practices in sewing, pattern drafting, fabric makeup and costume crafts will be explored while developing skills in these areas.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Admission to Theatre majors

No Requirements

THEA2210 - Jazz Dance I - 2 - Credits

Course Overview

Course Prefix
THEA

Course Number
2210

Department
Theatre Arts

Course Title
Jazz Dance I

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students learn the fundamentals of jazz dance for musical theatre application, focusing on technique, choreography, and terminology.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Registration Restrictions

Admission to the BFA - Acting emphasis

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- THEA2200 - Ballet

THEA2220 - Ballet II - 2 - Credits

Course Overview

Course Prefix
THEA

Course Number
2220

Department
Theatre Arts

Course Title
Ballet II

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Continued study of ballet to further extend students' understanding and execution of this dance form. The course will include focus on more advanced technique, choreography, partnering, terminology, history, and social implications.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Registration Restrictions
Theatre Arts BFA Acting Majors

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ANY of the following Courses:

- THEA2200 - Ballet

THEA2370 - Applied Theatre - 3 - Credits

Course Overview

Course Prefix
THEA

Course Number
2370

Department
Theatre Arts

Course Title
Applied Theatre

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers theory and practice of applied theatre, including community-embedded arts, educational drama, service-learning in the performing arts, and theatre for social change.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Admission to a Theatre major

Simple Requisites

Prerquisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- THEA1713 - Playscript Analysis (BHU)

THEA2403 - Stage Management - 3 - Credits

Course Overview

Course Prefix
THEA

Course Number
2403

Department
Theatre Arts

Course Title
Stage Management

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides a problem-solving environment for students to acquire knowledge and skills necessary for becoming a competent stage manager. It includes discussion of organization, delegation, scheduling, and personnel management.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Admission to a Theatre major

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- THEA1000 - Acting I: Introduction to Acting (BCA)
  OR THEA1033 - Beginning Acting (BCA)
- THEA1513 - Stagecraft (BCA)
- THEA1713 - Playscript Analysis (BHU)

THEA2500 - Drafting for Theatre I - 3 - Credits

Course Overview

Course Prefix
THEA

Course Number
2500

Department
Theatre Arts

Course Title
Drafting for Theatre I

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides an in-depth look at the equipment, materials, techniques and standards, necessary for communicating design and technical information in theatre production. The primary focus will be on manual drafting skills.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Admission to a Theatre major

THEA2510 - Scene Painting - 3 - Credits

Course Overview

Course Prefix
THEA

Course Number
2510

Department
Theatre Arts

Course Title
Scene Painting

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course consists of instruction in scene painting techniques for theatrical technicians and designers. Demonstration and lab work are included.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Registration Restrictions
Admission to the Theatre major

THEA2520 - Costume Design I - 3 - Credits

Course Overview

Course Prefix
THEA

Course Number
2520

Department
Theatre Arts

Course Title
Costume Design I

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers theory and practice in design and selection of costumes for non-realistic, historical, and modern plays. Students study the relationship of costume to character and production.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Registration Restrictions
Admission to a Theatre major

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- THEA1513 - Stagecraft (BCA)
- THEA1713 - Playscript Analysis (BHU)

THEA2530 - Theatre and Studio Sound - 3 - Credits

Course Overview

Course Prefix
THEA

Course Number
2530

Department
Theatre Arts

Course Title
Theatre and Studio Sound

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Sound recording, reinforcement, and control operation skills for theatrical production.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- THEA1513 - Stagecraft (BCA)

THEA2540 - Lighting Design I - 3 - Credits

Course Overview

Course Prefix
THEA

Course Number
2540

Department
Theatre Arts

Course Title
Lighting Design I

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces basic elements of lighting design and demonstrates techniques used in design creation and execution. It also provides basic understanding of light energy, angle, color, and the technology available for designing with this medium.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Admission to a Theatre major

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- THEA1513 - Stagecraft (BCA)
- THEA1713 - Playscript Analysis (BHU)

THEA2555 - Production Practicum - 1 - Credits

Course Overview

Course Prefix
THEA

Course Number
2555

Department
Theatre Arts

Course Title
Production Practicum

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
Students participate in specialized crew work in ongoing Theatre Arts Department productions. Assignments are made upon meeting with the technical director.

Credit Hours

Credit Hours Min:
1

Contact Hours

Contact Hours Min:
1

Billing Hours

Billing Hours Min:
1

Lecture Hours

Lecture Hours Min:
1

Registration Restrictions
Admission to a Theatre major

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:
- THEA1513 - Stagecraft (BCA)
  OR THEA2203 - Costume Construction and Technology

THEA2560 - Scene Design I - 3 - Credits

Course Overview

Course Prefix
THEA

Course Number
2560

Department
Theatre Arts

Course Title

Scene Design I

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers preparation for designing sets used in theatre. It includes the development of skills in drafting, rendering, model-making, research, and portfolio development.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Registration Restrictions
Admission to a Theatre major

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:
- THEA1513 - Stagecraft (BCA)
- THEA1713 - Playscript Analysis (BHU)

THEA2570 - Theatre Props & Crafts - 3 - Credits

Course Overview

Course Prefix
THEA

Course Number
2570

Department
Theatre Arts

Course Title
Theatre Props & Crafts

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides undergraduate theatre students practical experience constructing, modifying, repairing, and procuring theatre properties. The primary method of instruction is laboratory practice and demonstration.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Admission to a Theatre major

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- THEA1513 - Stagecraft (BCA)

THEA2575 - Production Projects - 1 - Credits

Course Overview

Course Prefix
THEA

Course Number
2575

Department
Theatre Arts

Course Title
Production Projects

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course provides specialized practical experience in Theatre productions. Projects are dependent on course of study and needs of the department.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Registration Restrictions
Admission to a Theatre major

No Requirements

THEA2580 - Costume Construction and Technology II - 3 - Credits

Course Overview

Course Prefix
THEA

Course Number
2580

Department
Theatre Arts

Course Title
Costume Construction and Technology II

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers advanced costume construction skills and projects and concepts and skills in standard costume industry techniques including tailoring, couture sewing, trims, and embellishments.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Admission to a Theatre major

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Earn a minimum grade (UG) of D in the following:

- THEA2203 - Costume Construction and Technology

THEA2610 - Directing I - 3 - Credits

Course Overview

Course Prefix
THEA

Course Number
2610

Department
Theatre Arts

Course Title
Directing I

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides instruction and practice in play selection, script analysis, research, blocking, leadership, communication skills, conduct of rehearsals, self-awareness, production organization and operation, and personal organization for stage direction. Principles learned apply in professional, civic, and educational settings.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Admission to a Theatre Arts major

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- THEA1000 - Acting I: Introduction to Acting (BCA)
  OR THEA1033 - Beginning Acting (BCA)
- THEA1713 - Playscript Analysis (BHU)

THEA3000 - Acting V: Acting for Musical Theatre - 3 - Credits

Course Overview

Course Prefix
THEA

Course Number
3000

Department
Theatre Arts

Course Title
Acting V: Acting for Musical Theatre

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Introduction to musical theatre performance singing and acting techniques including audition skills.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Admission to the BFA - Acting emphasis

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ANY of the following Courses:

- THEA2010 - Acting IV: Shakespeare
- THEA2490 - Intermediate Acting: Shakespeare

THEA3010 - Acting VI: Classical Comedy - 3 - Credits

Course Overview

Course Prefix
THEA

Course Number
3010

Department
Theatre Arts

Course Title
Acting VI: Classical Comedy

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Acting scene study using classic French and Restoration English dramatic literature.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Admission to the BFA Acting emphasis

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- THEA3000 - Acting V: Acting for Musical Theatre

THEA3030 - Acting VII: Contemporary Playwrights - 3 - Credits

Course Overview

Course Prefix
THEA

Course Number
3030

Department
Theatre Arts

Course Title
Acting VII: Contemporary Playwrights

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Acting scene study using dramatic literature from the past twenty years.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Admission to the BFA - Acting emphasis

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- THEA3000 - Acting V: Acting for Musical Theatre

THEA3100 - Voice for Actors IV: Vocal Challenges/Voice Over/Microphone Technique - 2 - Credits

Course Overview

Course Prefix
THEA

Course Number
3100

Department
Theatre Arts

Course Title
Voice for Actors IV: Vocal Challenges/Voice Over/Microphone Technique

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course focuses on voice and speech techniques to help actors meet vocal challenges. The course also provides an introduction to voice-over techniques.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Registration Restrictions
Admission to BFA Acting Emphasis

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- THEA2110 - Voice for Actors III: Dialects

THEA3200 - Stage Combat - 2 - Credits

Course Overview

Course Prefix
THEA

Course Number
3200

Department
Theatre Arts

Course Title
Stage Combat

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Techniques in stage combat.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Registration Restrictions
Admission to the BFA - Acting emphasis

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- THEA1210 - Movement for Actors

THEA3210 - Musical Theatre Dance I - 2 - Credits

Course Overview

Course Prefix
THEA

Course Number
3210

Department
Theatre Arts

Course Title
Musical Theatre Dance I

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Introduction of tap dance to Theatre and Performing Arts students. Techniques of tap dance, emphasizing mastery of rhythm, percussive execution and clear tap sounds provide a solid foundation for common theatrical choreography. Students dance each class period.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Registration Restrictions
Admission to the Theatre Arts: Acting - BFA.

THEA3220 - Jazz Dance II - 2 - Credits

Course Overview

Course Prefix
THEA

Course Number
3220

Department
Theatre Arts

Course Title
Jazz Dance II

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Continued study of jazz dance for musical theatre application focusing on various jazz forms; theatrical jazz, hip hop, contemporary, and lyrical. Emphasis on placement, technique, terminology, musicality. This is a physically active course dancing each class period.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Registration Restrictions
Theatre Arts: Acting - BFA

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- THEA2210 - Jazz Dance I

Course Learning Objectives

Course Learning Outcomes

1. Gain further understanding of contemporary dance forms and gain confidence in dancing these styles.
2. Extend their skills in choreography and introduce more branches of jazz.
3. Recognize the freedom of expression necessary to fully embrace this dance form.

THEA3240 - Musical Theatre Dance II - 2 - Credits

Course Overview

Course Prefix
THEA

Course Number
3240

Department
Theatre Arts

Course Title
Musical Theatre Dance II

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Compilation of Musical Theatre dance forms introduced and studied, including works by Agnes de Mille, Jerome Robbins, Bob Fosse. Versatility of style and mastery of performance skills including dance audition techniques, historical repertoire, and movement mastery.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Registration Restrictions
Admission to Theatre Arts: Acting - BFA

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- THEA3210 - Musical Theatre Dance I

Course Learning Objectives

Course Learning Outcomes
Understand and execute historic musical theatre repertory.

Attain flexibility in the varied dance styles required for a profession in Musical Theatre.

THEA3300 - Clinical Experience in Teaching I - 1 - Credits

Course Overview

Course Prefix
THEA

Course Number
3300

Department
Theatre Arts

Course Title
Clinical Experience in Teaching I

Grade Mode
Pass/Fail

Repeat Status
NR

Course Description
Clinical apprenticeship consisting of teaching theatre in local schools. This course includes 45 hours of observation, tutorial work, small group discussions, whole-class instruction, and lesson/unit planning.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Registration Restrictions
Admission to the Theatre Arts: Theatre Education - BFA program.

THEA3320 - Movement Exploration for Elementary Education Majors - 3 - Credits

Course Overview

Course Prefix
THEA

Course Number
3320

Department
Theatre Arts

Course Title
Movement Exploration for Elementary Education Majors

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Designed to understand the elements of dance, the creative process and how to combine them with arts integration activities. Through classroom explorations and presentations, students will demonstrate the ability to integrate curriculum areas through movement.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ELED3000 - Historical, Social, and Cultural Foundations of Education (CI)

THEA3330 - Drama for Classroom Teachers - 3 - Credits

Course Overview

Course Prefix
THEA

Course Number
3330

Department
Theatre Arts

Course Title
Drama for Classroom Teachers

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Theory and practice of drama pedagogy for pre-service educators, emphasizing methods for incorporating drama into their classroom teaching. Distance sites must meet minimum enrollment of three students per site.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Not open to Theatre Majors

No Requirements

THEA3340 - Methods of Teaching Drama, Grades K-6 - 3 - Credits

Course Overview

Course Prefix
THEA

Course Number
3340

Department
Theatre Arts

Course Title
Methods of Teaching Drama, Grades K-6

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Theory and practice of teaching drama to young people grades K-6. Particular emphasis on storytelling, story drama, process drama, and contemporary trends in drama pedagogy.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Admission to the Theatre Education program

Other Enrollment Recommendations
Special approval for elementary education majors and special education majors

THEA3390 - Drama in the Community - 3 - Credits

Course Overview

Course Prefix
THEA

Course Number
3390

Department
Theatre Arts

Course Title
Drama in the Community

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students engage with a range of community-based and socially engaged performance practices which take place outside of traditional theatre spaces. They develop both a critical and practical understanding of the role of a theatre facilitator in community settings.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Admission to a Theatre major; Sophomore standing or above

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- THEA1713 - Playscript Analysis (BHU)

Course Learning Objectives

Course Learning Outcomes

1. Be able to demonstrate a detailed understanding of the key theoretical and theatrical concerns within the field of community theatre.

2. Be able to demonstrate in-depth knowledge and critical understanding of the relationship between facilitator and participant and how this informs theatre practices.

3. Be able to analyze and evaluate community theatre practice both in terms of their own practice and the practice of others.

4. Be able to conceptualize and perform a collaborative group project suitable for a selected community setting.

5. Be able to demonstrate knowledge of the range of skills necessary for facilitation in the field of community theatre and an understanding of their practical application.

THEA3440 - Musical Theatre Workshop I - 3 - Credits

Course Overview

Course Prefix
THEA

Course Number
3440

Department
Theatre Arts

Course Title
Musical Theatre Workshop I

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course is designed to deepen students' artistry and professional readiness through advanced audition techniques (including self-taping), exploration of non-traditional casting ("anti-type"), and development of personal artistic identity. Emphasis is placed on self-awareness, versatility, and communication of artistic goals.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Registration Restrictions

Admission to Theatre Arts: Acting - BFA

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- THEA3000 - Acting V: Acting for Musical Theatre

Course Learning Objectives

Course Learning Outcomes

1. Articulate a clear Artist Mission Statement that defines personal artistic values and professional goals.
2. Demonstrate advanced audition skills for both singing and acting, including varied repertoire and informed stylistic choices.
3. Create professional-quality self-tapes that reflect current industry standards.
4. Explore anti-type casting by successfully preparing and presenting material outside their perceived “type.”
5. Conceptualize and perform a cabaret project that integrates personal storytelling with musical performance.

THEA3500 - Drafting for Theatre II - 3 - Credits

Course Overview

Course Prefix
THEA

Course Number
3500

Department
Theatre Arts

Course Title
Drafting for Theatre II

Grade Mode
Standard Letter

Repeat Status
NR

Course Description

Study and application of traditional and digital drafting techniques for scenic design and technical production; employing traditional drafting techniques and AutoCAD to create technical and design drawings for theatre.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Admission to a Theatre major

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- THEA1513 - Stagecraft (BCA)
- THEA2500 - Drafting for Theatre I

THEA3550 - Advanced Stage Management - 3 - Credits

Course Overview

Course Prefix
THEA

Course Number
3550

Department
Theatre Arts

Course Title
Advanced Stage Management

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides an advanced problem-solving environment, including in-depth exploration of the various unions and contracts students will encounter, to build on knowledge and skills necessary to become a competent stage manager.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Admission to Theatre Arts major

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- THEA2403 - Stage Management

THEA3560 - Period Styles/Historic Interiors (DHA) - 3 - Credits

Course Overview

Course Prefix
THEA

Course Number
3560

Department
Theatre Arts

Course Title
Period Styles/Historic Interiors (DHA)

General Education Attribute
DHA

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides intensive instruction in the architecture, furniture, and interior design of major Western European periods from Egyptian to the present. It is taught through lectures, slide presentations, and student-compiled sourcebooks with examples of major styles.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

THEA3570 - Historic Clothing (DHA) - 3 - Credits

Course Overview

Course Prefix
THEA

Course Number
3570

Department
Theatre Arts

Course Title
Historic Clothing (DHA)

General Education Attribute
DHA

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course surveys the historic development of clothing from ancient Egyptians to the present day.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

THEA3580 - Software for Theatre Production Design - 3 - Credits

Course Overview

Course Prefix
THEA

Course Number
3580

Department
Theatre Arts

Course Title
Software for Theatre Production Design

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers computer-aided design applications for theatre, including computerized rendering, for set, light, and costume design.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Admission to a Theatre major

THEA3610 - Directing I - 3 - Credits

Course Overview

Course Prefix
THEA

Course Number
3610

Department
Theatre Arts

Course Title
Directing I

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides instruction and practice in play selection, script analysis, research, blocking, leadership, communication skills, conduct of rehearsals, self-awareness, production organization and operation, and personal organization for stage direction. Principles learned apply in professional, civic, and educational settings.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Admission to a Theatre Arts major

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- THEA1713 - Playscript Analysis (BHU)
- THEA1033 - Beginning Acting (BCA)
  OR THEA1000 - Acting I: Introduction to Acting (BCA)

THEA3710 - Theatre History and Literature I (DHA)(CI) - 3 - Credits

Course Overview

Course Prefix
THEA

Course Number
3710

Department
Theatre Arts

Course Title
Theatre History and Literature I (DHA)(CI)

General Education Attribute
CI, DHA

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers the history of global performance traditions and dramatic literature from theatrical origins through the eighteenth century.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Admission to a program in Theatre - BA or Theatre Arts - BFA, and Sophomore standing or above. *Some sections may be available for non-majors.*

Simple Requisites

Prerequisite

Type
Completion Requirement

Required

Complete at least 1 course in the following course sets:

- Communications Literacy (CL2) Course

or fulfillment via equivalent exam

THEA3720 - Theatre History and Literature II (CI/DHA) - 3 - Credits

Course Overview

Course Prefix
THEA

Course Number
3720

Department
Theatre Arts

Course Title
Theatre History and Literature II (CI/DHA)

General Education Attribute
CI, DHA

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers the history of global performance traditions and dramatic literature from the turn of the nineteenth century to the present.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Admission to a program in Theatre - BA or Theatre Arts - BFA, and Sophomore standing or above. *Some sections may be available for non-majors.*

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete at least 1 course in the following course sets:

- Communications Literacy (CL2) Course

or fulfillment via equivalent exam

THEA4000 - Acting VIII: Acting for the Camera - 3 - Credits

Course Overview

Course Prefix
THEA

Course Number
4000

Department
Theatre Arts

Course Title
Acting VIII: Acting for the Camera

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Introduction to techniques for acting for the camera.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Admission to the BFA - Acting emphasis

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- THEA3010 - Acting VI: Classical Comedy
- THEA3030 - Acting VII: Contemporary Playwrights

THEA4010 - Acting IX - Modern Masters: Chekhov/Ibsen/Shaw - 3 - Credits

Course Overview

Course Prefix
THEA

Course Number
4010

Department
Theatre Arts

Course Title
Acting IX - Modern Masters: Chekhov/Ibsen/Shaw

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Acting scene study of Modern dramatic literature, using the works of Ibsen, Chechov, and Shaw.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Admission to the BFA - Acting emphasis

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- THEA3030 - Acting VII: Contemporary Playwrights

THEA4020 - Acting X-Modern American Masters: O'Neill, Williams, and Miller - 3 - Credits

Course Overview

Course Prefix
THEA

Course Number
4020

Department
Theatre Arts

Course Title
Acting X-Modern American Masters: O'Neill, Williams, and Miller

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Acting study of Modern American dramatic literature, using the works of O'Neill, Williams, and Miller.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Admission to the BFA - Acting emphasis

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- THEA4010 - Acting IX - Modern Masters: Chekhov/Ibsen/Shaw

THEA4200 - Period and Social Dance - 2 - Credits

Course Overview

Course Prefix
THEA

Course Number
4200

Department
Theatre Arts

Course Title
Period and Social Dance

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Instruction in European court dance and ballroom dance techniques.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Registration Restrictions
Admission to the BFA - Acting emphasis

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- THEA2200 - Ballet

THEA4210 - Musical Theatre Dance III - 2 - Credits

Course Overview

Course Prefix
THEA

Course Number
4210

Department
Theatre Arts

Course Title
Musical Theatre Dance III

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Compilation of Musical Theatre dance forms including works by Gillian Lynne, Michael Bennett, Susan Stroman, Andy Blankenbuehler. Versatility of style and mastery of performance including improvisation, style execution, and choreographic techniques.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Registration Restrictions
Admission to Theatre Arts: Acting - BFA

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- THEA3240 - Musical Theatre Dance II

Course Learning Objectives

Course Learning Outcomes
Continue to advance into Musical Theatre Dance repertory.

Extend abilities choreography and composition.

Learn best practices for dance audition reels in preparation for students' Musical Theatre profession.

THEA4300 - Clinical Experience in Teaching II - 1 - Credits

Course Overview

Course Prefix
THEA

Course Number
4300

Department
Theatre Arts

Course Title
Clinical Experience in Teaching II

Grade Mode
Pass/Fail

Repeat Status
NR

Course Description
Clinical apprenticeship of teaching theatre in local schools, including 45 hours of observation, tutorial work, small group discussions, whole class instruction, and lesson/unit planning.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Registration Restrictions
Admission to the Theatre Arts: Theatre Education - BFA program

Special Approval
Instructor permission

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- THEA3300 - Clinical Experience in Teaching I

THEA4340 - Methods of Teaching Theatre, Grades 7-12 - 3 - Credits

Course Overview

Course Prefix
THEA

Course Number
4340

Department
Theatre Arts

Course Title
Methods of Teaching Theatre, Grades 7-12

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students learn the theory and practice of teaching theatre to students in grades 7-12. The focus is on designing holistic, integrated theatre curricula.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Admission to the Theatre Arts: Theatre Education - BFA program

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- THEA3340 - Methods of Teaching Drama, Grades K-6

THEA4350 - Theatre for Young Audiences - 3 - Credits

Course Overview

Course Prefix
THEA

Course Number
4350

Department
Theatre Arts

Course Title
Theatre for Young Audiences

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers the theory and practice of theatre with and/or for children and adolescents. It includes the review of literature and contemporary practices in both professional and educational settings.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Admission to a Theatre major or minor

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- THEA1713 - Playscript Analysis (BHU)

THEA4360 - Play Production in Secondary Schools - 2 - Credits

Course Overview

Course Prefix
THEA

Course Number
4360

Department
Theatre Arts

Course Title
Play Production in Secondary Schools

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course surveys the theory and practice of play production in secondary schools, including season planning, play selection, auditions/casting, budgeting, productions calendaring, collaboration with creative teams and assessment of student work.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Simple Requisites

Corequisite

Type
Corequisite

Required

Enroll in the following Courses:

- THEA4340 - Methods of Teaching Theatre, Grades 7-12

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- THEA3340 - Methods of Teaching Drama, Grades K-6

THEA4440 - Musical Theatre Workshop II - 3 - Credits

Course Overview

Course Prefix
THEA

Course Number
4440

Department
Theatre Arts

Course Title
Musical Theatre Workshop II

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Through scene work, ensemble projects, professional communication practices, alongside practical career training in union/contract literacy and business practices for performers, students create an intensive career-planning portfolio and Thesis Role Study, integrating dramaturgical research, vocal analysis, and performance.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Registration Restrictions

Admission to Theatre Arts: Acting - BFA.

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- THEA3440 - Musical Theatre Workshop I

Course Learning Objectives

Course Learning Outcomes

1. • Perform musical theatre scene work with textual, vocal, and physical specificity.
2. • Demonstrate collaborative artistry in ensemble performance projects.
3. • Apply professional communication skills in auditions, rehearsals, and collaborative settings.
4. • Understand and analyze union membership, contracts, and professional business practices for performers.
5. • Create a comprehensive City Book Project, preparing a transition plan to a chosen professional city.
6. • Complete a Thesis Role Study, demonstrating advanced research, analysis, and character work.
7. • Exhibit professionalism, collaboration, and preparedness consistent with industry standards.

THEA4450 - Musical Theatre Workshop III - 3 - Credits

Course Overview

Course Prefix
THEA

Course Number
4450

Department
Theatre Arts

Course Title
Musical Theatre Workshop III

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course focuses on creating a strong digital presence and preparing professional materials essential for entering the theatre industry. Students develop dance reels, highlight reels, professional websites, and digital audition portfolios while practicing interview skills and networking strategies.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Admission to Theatre Arts: Acting - BFA

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- THEA4440 - Musical Theatre Workshop II

Course Learning Objectives

Course Learning Outcomes

1. Create and edit a professional dance reel that demonstrates versatility and technique.
2. Assemble a highlight reel showcasing strong vocal, acting, and dance material.
3. Design and launch a personal professional website with integrated media, résumé, and contact information.
4. Establish a cohesive digital presence across platforms, consistent with professional branding.
5. Demonstrate interviewing and networking skills suitable for auditions, agents, and industry professionals.
6. Present a professional portfolio package that demonstrates readiness to transition into the industry

THEA4520 - Costume Design II - 3 - Credits

Course Overview

Course Prefix
THEA

Course Number
4520

Department
Theatre Arts

Course Title
Costume Design II

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Advanced theory and practice in the design and selection of costumes for nonrealistic, historical, and modern plays. For 6520 credit, graduate students must participate in microteaching sessions with additional research or practicum assignments.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Registration Restrictions

- Admission to a Theatre major
- Junior standing or above

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- THEA2520 - Costume Design I

THEA4540 - Lighting Design II - 3 - Credits

Course Overview

Course Prefix
THEA

Course Number
4540

Department
Theatre Arts

Course Title
Lighting Design II

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Advanced training in elements of lighting design. Exploration of advanced techniques used to create and execute a lighting design. For 6540 credit, graduate students must participate in microteaching sessions with additional research or practicum assignments.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Admission to a Theatre major; Junior standing or above

Simple Requisites

Prerequisite

Type
Completion Requirement

Required

Complete ALL of the following Courses:

- THEA2540 - Lighting Design I

THEA4550 - Theatre Leadership and Management - 3 - Credits

Course Overview

Course Prefix
THEA

Course Number
4550

Department
Theatre Arts

Course Title
Theatre Leadership and Management

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course explores the internal structure and operation of professional theatre companies, including management organization and styles, personnel titles and responsibilities, season planning strategies, legal and financial responsibilities, working with professional unions, and other related topics.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

- Admission to a Theatre Arts major
- Junior standing or above

Simple Requisites

Pre-Requisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- THEA2403 - Stage Management

THEA4555 - Production Assignments - 2 - Credits

Course Overview

Course Prefix
THEA

Course Number
4555

Department
Theatre Arts

Course Title
Production Assignments

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Specialized practical project for a Department of Theatre Arts season production. Assignments made in conjunction with the head of the design/tech faculty. Students apply for an assignment the previous academic year.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Registration Restrictions

Admission to a Theatre major

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- THEA1513 - Stagecraft (BCA)
- THEA1713 - Playscript Analysis (BHU)
- THEA2203 - Costume Construction and Technology

THEA4560 - Scene Design II - 3 - Credits

Course Overview

Course Prefix
THEA

Course Number
4560

Department
Theatre Arts

Course Title
Scene Design II

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course prepares students for graduate school or a career in design. It offers advanced instruction in drafting, rendering, model-making, technical skills, research, design principles, and portfolio development.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Admission to a Theatre major

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- THEA2500 - Drafting for Theatre I
- THEA2560 - Scene Design I

THEA4710 - Contemporary Theatre (CI/DHA) - 3 - Credits

Course Overview

Course Prefix
THEA

Course Number
4710

Department
Theatre Arts

Course Title
Contemporary Theatre (CI/DHA)

General Education Attribute
CI, DHA

Grade Mode
Standard Letter

Repeat Status
RP

Course Description

This is a literature-based course with an in-depth look at performances and texts of plays and musicals as well as trends and themes in contemporary theatre from the last 20 years.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

- Admission to a Theatre Arts major
- Junior standing or above

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- THEA3710 - Theatre History and Literature I (DHA)(CI)
  OR THEA3720 - Theatre History and Literature II (CI/DHA)

THEA4720 - Musical Theatre History and Literature: Roots through the Golden Age - 3 - Credits

Course Overview

Course Prefix
THEA

Course Number
4720

Department
Theatre Arts

Course Title
Musical Theatre History and Literature: Roots through the Golden Age

Grade Mode
Standard Letter

Repeat Status
NR

Course Description

This course surveys major musical theatre forms from their origins through the 1960s. Discussions include the social and cultural events that influenced writers and composers and the developmental nature of the genre.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Sophomore standing or above

No Requirements

THEA4730 - Musical Theatre History and Literature II: New Directions - 3 - Credits

Course Overview

Course Prefix
THEA

Course Number
4730

Department
Theatre Arts

Course Title
Musical Theatre History and Literature II: New Directions

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course surveys musical theatre history and literature from the late 1960s to the present, and provides an understanding of the continuing development of the musical theatre including its exploration of new forms and directions.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- THEA4720 - Musical Theatre History and Literature: Roots through the Golden Age

THEA4760 - Playwriting - 3 - Credits

Course Overview

Course Prefix
THEA

Course Number
4760

Department
Theatre Arts

Cross-Listed Courses
ENGL4250 - Playwriting

Course Title
Playwriting

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Study of dramatic theory and sample plays, combined with practice in writing short plays. Minimum of three plays required.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Admission to a Theatre Arts major or minor

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- THEA1713 - Playscript Analysis (BHU)
- ENGL2010 - Research and Argument Across Perspectives (CL2)

THEA4820 - Company Workshop - 3 - Credits

Course Overview

Course Prefix
THEA

Course Number
4820

Department
Theatre Arts

Course Title
Company Workshop

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Company workshop of theatrical productions emphasizing process and instruction. Supervised rehearsals, technical preparation, and public performances.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Admission to a Theatre Arts major

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- THEA1000 - Acting I: Introduction to Acting (BCA)
  OR THEA1033 - Beginning Acting (BCA)
- THEA1713 - Playscript Analysis (BHU)

THEA4860 - Playwriting Workshop - 3 - Credits

Course Overview

Course Prefix
THEA

Course Number
4860

Department
Theatre Arts

Course Title
Playwriting Workshop

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Advanced study in playwriting. Course culminates in the performance of original works. Enrollment is contingent on permission of instructor.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Admission to a Theatre Arts major

THEA5390 - Student Teaching Seminar - 2 - Credits

Course Overview

Course Prefix
THEA

Course Number
5390

Department
Theatre Arts

Course Title
Student Teaching Seminar

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course focuses on problems arising during student teaching. It includes plans, procedures, adaptive classroom strategies, and evaluation.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Registration Restrictions
Admission to the Theatre Arts: Theatre Education - BFA program

THEA5550 - Rendering and Painting for Theatre Design - 3 - Credits

Course Overview

Course Prefix
THEA

Course Number
5550

Department
Theatre Arts

Course Title
Rendering and Painting for Theatre Design

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Provides students hands on experience using a variety of drawing techniques commonly used in theatrical design. For graduate credit students do additional projects.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Admission to a Theatre major

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- THEA2560 - Scene Design I
- THEA2520 - Costume Design I

THEA5590 - Design Studies for Theatre - 2 - Credits

Course Overview

Course Prefix
THEA

Course Number
5590

Department
Theatre Arts

Dual-Listed Courses
THEA6590 - Design Studies for Theatre

Course Title
Design Studies for Theatre

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Actualization of a design from conception through completion with faculty supervision. Creation of all drafting, renderings, and/or models for portfolio development.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Registration Restrictions

- Admission to a Theatre major
- Senior standing

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ANY of the following Courses:

- THEA4520 - Costume Design II
- THEA4540 - Lighting Design II
- THEA4560 - Scene Design II

THEA5610 - Directing II - 3 - Credits

Course Overview

Course Prefix
THEA

Course Number
5610

Department
Theatre Arts

Course Title
Directing II

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Provides instruction and practice in advanced techniques of script analysis, research outside the discipline, review of literature, awareness of thinking styles and values, and preparation for studio directing assignments.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Admission to a Theatre Arts major

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- THEA2610 - Directing I
- THEA3710 - Theatre History and Literature I (DHA)(CI)
- THEA3720 - Theatre History and Literature II (CI/DHA)

THEA5630 - Student Teaching in Secondary Schools - 10 - Credits

Course Overview

Course Prefix
THEA

Course Number
5630

Department
Theatre Arts

Course Title
Student Teaching in Secondary Schools

Grade Mode
Pass/Fail

Repeat Status
NR

Course Description
Thirteen-week minimum culminating teaching practicum in theatre arts and minor fields when applicable in which students assume full-time teaching responsibilities under direction of cooperating teachers and university faculty supervisors.

Credit Hours

Credit Hours
Min:
10

Contact Hours

Contact Hours
Min:
10

Billing Hours

Billing Hours
Min:
10

Lecture Hours

Lecture Hours
Min:
10

Registration Restrictions

Admission to Theatre Arts: Theatre Education - BFA program, Admission to Teacher Education and Admission to Elementary and Education or Secondary Education Student Teaching

No Requirements

THEA5631 - Student Teaching in Secondary Schools Out of State - 10 - Credits

Course Overview

Course Prefix
THEA

Course Number
5631

Department
Theatre Arts

Course Title
Student Teaching in Secondary Schools Out of State

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course is a thirteen-week-minimum culminating teaching practicum in theatre arts and applicable minor fields in which students assume full-time teaching responsibilities under the direction of cooperating teachers and university faculty supervisors.

Credit Hours

Credit Hours
Min:
10

Contact Hours

Contact Hours
Min:
10

Billing Hours

Billing Hours
Min:
10

Lecture Hours

Lecture Hours
Min:
10

Registration Restrictions

Completion of STEP Levels 1 and 2; Student teaching placement

Simple Requisites

Corequisite

Type
Corequisite

Required

Enroll in the following Courses:

- THEA5390 - Student Teaching Seminar

THEA5720 - Special Topics in Theatre History and Literature - 3 - Credits

Course Overview

Course Prefix
THEA

Course Number
5720

Department
Theatre Arts

Course Title
Special Topics in Theatre History and Literature

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course covers specialized topics in theatre history, performance, and dramatic literature. Sample topics include Classical Theatre of Greece and Rome, Golden Age Spanish Theatre, Elizabethan Theatre, Musical Theatre, Asian Theatre, and others.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Registration Restrictions
Junior standing or above

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- THEA3710 - Theatre History and Literature I (DHA)(CI)
  OR THEA3720 - Theatre History and Literature II (CI/DHA)

THEA5900 - Special Projects - 2 - 3 Credits

Course Overview

Course Prefix
THEA

Course Number
5900

Department
Theatre Arts

Course Title
Special Projects

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Directed individual research studies or creative projects in theatre.

Credit Hours

Credit Hours Min:
2

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
2

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
2

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
2

Lecture Hours Max:
3

Lecture Hours Operator:
TO

Registration Restrictions
Admission to a Theatre major

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- THEA1513 - Stagecraft (BCA)
- THEA1713 - Playscript Analysis (BHU)
- THEA2203 - Costume Construction and Technology

THEA5910 - Capstone Project - 2 - Credits

Course Overview

Course Prefix
THEA

Course Number
5910

Department
Theatre Arts

Course Title
Capstone Project

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Culminating project and/or recital in student's specified program.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

THEA5960 - Special Topics in Theatre Production - 2 - Credits

Course Overview

Course Prefix
THEA

Course Number
5960

Department
Theatre Arts

Dual-Listed Courses
THEA6960 - Special Topics in Theatre Production

Course Title
Special Topics in Theatre Production

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This is a flexible course which covers a range of production-related topics based on student need and/or visiting instructors. It is repeatable for credit with approval from the major professor. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Special Approval

Department permission

THEA5980 - Theatre Internship - 2 - 8 Credits

Course Overview

Course Prefix
THEA

Course Number
5980

Department
Theatre Arts

Dual-Listed Courses
THEA6980 - Theatre Internship

Course Title
Theatre Internship

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Advanced work experience with professional theatre companies in the individual's field of study.

Credit Hours

Credit Hours Min:
2

Credit Hours Max:
8

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
2

Contact Hours Max:
8

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
2

Billing Hours Max:
8

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
2

Lecture Hours Max:
8

Lecture Hours Operator:
TO

Special Approval
Permission of department

THEA6010 - Introduction to Graduate Study in Theatre - 1 - Credits

Course Overview

Course Prefix
THEA

Course Number
6010

Department
Theatre Arts

Course Title
Introduction to Graduate Study in Theatre

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Bibliography, research methods, and writing.

Credit Hours

Credit Hours Min:
1

Contact Hours

Contact Hours Min:
1

Billing Hours

Billing Hours Min:
1

Lecture Hours

Lecture Hours Min:
1

No Requirements

THEA6250 - Playwriting - 3 - Credits

Course Overview

Course Prefix
THEA

Course Number
6250

Department
Theatre Arts

Course Title
Playwriting

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Advanced study in playwriting. Course culminates in the performance of original works. Enrollment is contingent on permission of instructor.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Admission to Theatre Graduate Program

No Requirements

THEA6330 - Methods of Teaching Drama, Grades K-6 - 3 - Credits

Course Overview

Course Prefix
THEA

Course Number
6330

Department
Theatre Arts

Course Title
Methods of Teaching Drama, Grades K-6

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Theory and practice of teaching drama to young people grades K-6. Particular emphasis on storytelling, story drama, process drama, and contemporary trends in drama pedagogy. Graduate credit students must complete additional teaching, research and/or service.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Special Approval
Department permission

No Requirements

THEA6340 - Methods of Teaching Theatre, Grades 7-12 - 3 - Credits

Course Overview

Course Prefix
THEA

Course Number
6340

Department
Theatre Arts

Course Title
Methods of Teaching Theatre, Grades 7-12

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Theory and practice of teaching theatre to students in grades 7-12. Focus on designing holistic, integrated theatre curricula.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Special Approval
Department permission

THEA6500 - Drafting for Theatre - 2 - Credits

Course Overview

Course Prefix
THEA

Course Number
6500

Department
Theatre Arts

Course Title
Drafting for Theatre

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides an in-depth look at the equipment, materials, techniques and standards, necessary for communicating design and technical information in theatre production. The primary focus will be on manual drafting skills.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Registration Restrictions
Admission to the Theatre Arts - MFA

No Requirements

THEA6520 - Advanced Costume Design for Theatre - 2 - Credits

Course Overview

Course Prefix
THEA

Course Number
6520

Department
Theatre Arts

Course Title
Advanced Costume Design for Theatre

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Advanced theory and practice in the design and selection of costumes for nonrealistic, historical, and modern plays. For 6520 credit, graduate students must participate in microteaching sessions with additional research or practicum assignments.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Registration Restrictions

Admission to Theatre Arts - MFA

THEA6530 - Specialized Theatre Props and Crafts - 2 - Credits

Course Overview

Course Prefix
THEA

Course Number
6530

Department
Theatre Arts

Course Title
Specialized Theatre Props and Crafts

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course teaches advanced techniques and methods used to create a variety of theatre crafts such as puppets, specialized props, set pieces, etc. Content differs each time taught.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Registration Restrictions

Admission to the Theatre Arts - MFA

No Requirements

THEA6540 - Advanced Lighting for Theatre Design - 2 - Credits

Course Overview

Course Prefix
THEA

Course Number
6540

Department
Theatre Arts

Course Title
Advanced Lighting for Theatre Design

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Advanced training in elements of lighting design. Exploration of advanced techniques used to create and execute a lighting design. For 6540 credit, graduate students must participate in microteaching sessions with additional research or practicum assignments.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Registration Restrictions

Admission to Theatre Arts - MFA

THEA6550 - Rendering in Theatre Design - 2 - Credits

Course Overview

Course Prefix
THEA

Course Number
6550

Department
Theatre Arts

Course Title
Rendering in Theatre Design

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Provides students hands on experience using a variety of drawing techniques commonly used in theatrical design.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Registration Restrictions

Admission to a Theatre Arts graduate program

No Requirements

THEA6555 - Scene Painting - 2 - Credits

Course Overview

Course Prefix
THEA

Course Number
6555

Department
Theatre Arts

Course Title
Scene Painting

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides students with hands on experience in scene painting using a variety of commonly used techniques.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Registration Restrictions
Admission to the Theatre Arts - MFA

No Requirements

THEA6560 - Advanced Scene Design for Theatre - 2 - Credits

Course Overview

Course Prefix
THEA

Course Number
6560

Department
Theatre Arts

Course Title
Advanced Scene Design for Theatre

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course prepares students for graduate school or a career in design. It offers advanced instruction in drafting, rendering, model-making, technical skills, research, design principles, and portfolio development.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Registration Restrictions
Admission to Theatre Arts - MFA program

No Requirements

THEA6565 - Historic Styles: Interiors & Architecture - 2 - Credits

Course Overview

Course Prefix
THEA

Course Number
6565

Department
Theatre Arts

Course Title
Historic Styles: Interiors & Architecture

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides intensive instruction in the architecture, furniture, and interior design of major Western European periods from Egyptian to the present.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Registration Restrictions

Admission to the Theatre Arts - MFA program

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. To develop a firm understanding of decorative arts and interior design trends in Western Civilization from the ancient Egyptians through the modern era.

2. To gain factual knowledge including terminology used in classifying period architecture and furnishings.

3. To promote self-understanding by comparing and contrasting cultures' beliefs and historical periods.

4. Promote a broad understanding of architectural and decorative arts, vocabulary and historical periods.

5. Develop an understanding of character and personality as expressed by individual choices in interior design.

6. To develop research and written expression skills to understand and evaluate original source material using both electronic and traditional methods.

7. To develop skills in oral presentation by participating and leading discussions in a well-reasoned and organized manner.

THEA6570 - Historic Clothing - 2 - Credits

Course Overview

Course Prefix
THEA

Course Number
6570

Department
Theatre Arts

Course Title
Historic Clothing

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides intensive instruction in the history of clothing and fashion trends in Western Civilization from the ancient Egyptians through the modern era.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Registration Restrictions

Admission to the Theatre Arts - MFA program

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. To develop a firm understanding of clothing and fashion trends in Western Civilization from the ancient Egyptians through the modern era.

2. Express the understanding of clothing in written, drawn and spoken form.

3. To understand social, political, economic elements reflected in clothing development.

4. To identify general shifts in clothing silhouettes.

5. To further explore an aspect of historic clothing with an in-depth research paper.

THEA6580 - Computer Design in Theatre - 2 - Credits

Course Overview

Course Prefix
THEA

Course Number
6580

Department
Theatre Arts

Course Title
Computer Design in Theatre

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides students with computer techniques, design programs, drafting programs, and other advanced computer applications for use in theatre design.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Registration Restrictions

Admission to the Theatre Arts - MFA

No Requirements

THEA6590 - Design Studies for Theatre - 2 - Credits

Course Overview

Course Prefix
THEA

Course Number
6590

Department
Theatre Arts

Dual-Listed Courses
THEA5590 - Design Studies for Theatre

Course Title
Design Studies for Theatre

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Actualization of a design from conception through completion with faculty supervision. Creation of all drafting, renderings, and/or models for portfolio development.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Registration Restrictions
Admission to the Theatre Arts graduate program

THEA6710 - Contemporary Theatre Studies - 2 - Credits

Course Overview

Course Prefix
THEA

Course Number
6710

Department
Theatre Arts

Course Title
Contemporary Theatre Studies

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
History and theory of a theatre movement since the 1980s, primarily in the English-speaking world, leading to a study of the theatrical world and its practices today. For 6240 credit, graduate students must participate in microteaching sessions with additional reading or writing assignments.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Registration Restrictions
Admission to a Theatre Arts graduate program

No Requirements

THEA6720 - Specialized Theatre History and Literature Topics - 2 - Credits

Course Overview

Course Prefix
THEA

Course Number
6720

Department
Theatre Arts

Course Title
Specialized Theatre History and Literature Topics

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Specialized topics in theatre history, performance, and dramatic literature. Sample topics include Classical Theatre of Greece and Rome, Golden Age Spanish Theatre, Elizabethan Theatre, Musical Theatre, Asian Theatre, and others. For 6290 credit, graduate students must participate in microteaching sessions with additional research or writing assignments.

Credit Hours

Credit Hours Min:
2

Contact Hours

Contact Hours Min:
2

Billing Hours

Billing Hours Min:
2

Lecture Hours

Lecture Hours Min:
2

Registration Restrictions
Admission to a Theatre Arts graduate program

No Requirements

THEA6900 - Research Studies - 1 - 4 Credits

Course Overview

Course Prefix
THEA

Course Number
6900

Department
Theatre Arts

Course Title
Research Studies

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Directed individual research studies or creative projects in theatre.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
4

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
4

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
4

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
4

Lecture Hours Operator:
TO

No Requirements

THEA6910 - Graduate Studies in Theatre - 1 - 6 Credits

Course Overview

Course Prefix
THEA

Course Number
6910

Department
Theatre Arts

Course Title
Graduate Studies in Theatre

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Research and preparation for graduate practicum projects in theatre.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
6

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
6

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
6

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
6

Lecture Hours Operator:
TO

Registration Restrictions
Admission to a Theatre Arts - MFA

No Requirements

THEA6920 - Graduate Projects in Theatre - 2 - 3 Credits

Course Overview

Course Prefix
THEA

Course Number
6920

Department
Theatre Arts

Course Title
Graduate Projects in Theatre

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Individual production related project work.

Credit Hours

Credit Hours Min:
2

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
2

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
2

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
2

Lecture Hours Max:
3

Lecture Hours Operator:
TO

No Requirements

THEA6930 - Theatre Production Portfolio - 1 - Credits

Course Overview

Course Prefix
THEA

Course Number
6930

Department
Theatre Arts

Course Title
Theatre Production Portfolio

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Prepares graduate students for the workplace using portfolio presentation techniques, job applications, resumes, interview techniques, and the creation of a design portfolio.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

No Requirements

THEA6960 - Special Topics in Theatre Production - 2 - Credits

Course Overview

Course Prefix
THEA

Course Number
6960

Department
Theatre Arts

Dual-Listed Courses
THEA5960 - Special Topics in Theatre Production

Course Title
Special Topics in Theatre Production

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This is a flexible course which covers a range of production-related topics based on student need and/or visiting instructors. It is repeatable for credit with approval from the major professor. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Registration Restrictions

Admission to a Theatre Arts graduate program

No Requirements

THEA6970 - Thesis - 1 - 3 Credits

Course Overview

Course Prefix
THEA

Course Number
6970

Department
Theatre Arts

Course Title
Thesis

Grade Mode
Temporary Pass/Fail

Repeat Status
RP

Course Description
This course is designed for students preparing a master's degree thesis.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

No Requirements

THEA6980 - Theatre Internship - 2 - 8 Credits

Course Overview

Course Prefix
THEA

Course Number
6980

Department
Theatre Arts

Dual-Listed Courses
THEA5980 - Theatre Internship

Course Title
Theatre Internship

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Advanced work experience with professional theatre companies in the individual's field of study.

Credit Hours

Credit Hours Min:
2

Credit Hours Max:
8

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
2

Contact Hours Max:
8

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
2

Billing Hours Max:
8

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
2

Lecture Hours Max:
8

Lecture Hours Operator:
TO

Special Approval
Department permission

No Requirements

THEA6990 - Continuing Graduate Advisement - 1 - 2 Credits

Course Overview

Course Prefix
THEA

Course Number
6990

Department
Theatre Arts

Course Title
Continuing Graduate Advisement

Grade Mode
Temporary Pass/Fail

Repeat Status
RP

Course Description
This course provides graduate students with continued support and advisement. It is usually taken following completion of all coursework required for the degree.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
2

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
2

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
2

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
2

Lecture Hours Operator:
TO

No Requirements

UAS1010 - Unmanned Aircraft Systems - Remote Pilot - 3 - Credits

Course Overview

Course Prefix
UAS

Course Number
1010

Department
Aviation Technology

Course Title
Unmanned Aircraft Systems - Remote Pilot

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers the rapidly expanding technology of small Unmanned Aircraft Systems (sUAS) and the legalities of flying drones. Topics include aviation safety, rules and regulations, Federal Aviation Administration (FAA) commercial certification preparation, and a flight lab component.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

UAS1020 - Unmanned Aircraft Systems Part 107 Test - 1 - Credits

Course Overview

Course Prefix
UAS

Course Number
1020

Department
Aviation Technology

Course Title
Unmanned Aircraft Systems Part 107 Test

Grade Mode
Pass/Fail

Repeat Status
NR

Course Description
This course allows students to document earning their FAA Part 107 Certificate. Students need their Part 107 Certificate in order to advance in all UAS degrees.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Other Enrollment Recommendations

Can be taken concurrently with other UAS Part 107 Test Prep courses.

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Understand what "FPV" or First-Person View flight means in relation to drones/UAS.
2. Demonstrate greater knowledge in the area of FPV drone components.
3. Demonstrate skills including software configuration and successful flight of a FPV drone platform.

UAS1100 - Introduction to Unmanned Aircraft Systems - 1 - Credits

Course Overview

Course Prefix
UAS

Course Number
1100

Department
Aviation Technology

Course Title
Introduction to Unmanned Aircraft Systems

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
An introductory course exploring drone fundamentals, essential FAA regulations, safety and flight practices, emerging UAS careers, and highlights from the history of UAS. Students explore a variety of applications and pathways to enter the rapidly expanding unmanned aviation field.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

No Requirements

UAS1200 - Unmanned Aircraft Systems Introduction to Fixed-Wings - 3 - Credits

Course Overview

Course Prefix
UAS

Course Number
1200

Department
Aviation Technology

Course Title
Unmanned Aircraft Systems Introduction to Fixed-Wings

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students learn the basics of small Unmanned Aircraft Systems (sUAS) fixed-wing design and construction to include flight characteristics of new or modified builds. They build, fly, and modify their own fixed-wing drone. Course may include a flight lab component.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- UAS1500 - Introduction to Unmanned Aircraft Systems Maintenance and Components

may be taken concurrently

UAS1300 - Unmanned Aircraft Systems Introduction to Multirotor - 3 - Credits

Course Overview

Course Prefix
UAS

Course Number
1300

Department
Aviation Technology

Course Title
Unmanned Aircraft Systems Introduction to Multirotor

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students learn the basics of small Unmanned Aircraft Systems (sUAS) multirotor design and construction to include programing a flight controller. They build, fly, and tune their own multirotor drone.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- UAS1500 - Introduction to Unmanned Aircraft Systems Maintenance and Components

may be taken concurrently

UAS1350 - UAS Intro to FPV (First Person View) Essentials - 3 - Credits

Course Overview

Course Prefix
UAS

Course Number
1350

Department
Aviation Technology

Course Title
UAS Intro to FPV (First Person View) Essentials

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students learn the basics of FPV (First Person View) flight by configuring and flying a quadcopter with an FPV system onboard. Students learn about the components involved in the copter, software configuration, and flight of the copter.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Course Learning Objectives

Course Learning Outcomes

1. Students will learn about and be familiar with the tools, techniques, and terminology for Unmanned Aircraft Systems.
2. Students will apply troubleshooting skills and processes to several drone maintenance tasks.
3. Students will develop documentation habits and skills as applied to sUAS platforms and projects.

UAS1500 - Introduction to Unmanned Aircraft Systems Maintenance and Components - 3 - Credits

Course Overview

Course Prefix
UAS

Course Number
1500

Department
Aviation Technology

Course Title
Introduction to Unmanned Aircraft Systems Maintenance and Components

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students are introduced to the basic tools, checklists, and documentation practices that are used in all drone industries. They learn about troubleshooting common problems related to most drones. This is a hands-on class and may include a flight lab component.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Completion Requirement

Required

Complete ALL of the following Courses:

- UAS3360 - UAS First Person View (FPV) Fundamentals

may be taken concurrently

Course Learning Objectives

Course Learning Outcomes

1. Students will be introduced to basic design techniques for fixed-wing drones

2. Students will demonstrate proficiency in the design process using small fixed-wing drones
3. Students will utilize critiquing, testing, and revision as part of the design and construction process
4. Students will demonstrate proficiency in documentation to create instructions for building their final product.

UAS2050 - Unmanned Aircraft Systems Pilot in Command - 3 - Credits

Course Overview

Course Prefix
UAS

Course Number
2050

Department
Aviation Technology

Course Title
Unmanned Aircraft Systems Pilot in Command

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students learn about completing small Unmanned Aircraft Systems (sUAS) operations in small teams. They learn the basics of team communication and the industry soft skills needed for client interaction as a Pilot in Command (PIC). This is a project-based class.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- UAS3010 - Unmanned Aircraft System Introduction to Remote Pilot Certification
  OR UAS3020 - Part 61 Introduction to Unmanned Aircraft Systems and Flight Lab
  OR UAS1010 - Unmanned Aircraft Systems - Remote Pilot
- UAS1020 - Unmanned Aircraft Systems Part 107 Test

UAS2100 - Unmanned Aircraft Systems Flight Lab - Patterns and Maneuvers - 3 - Credits

Course Overview

Course Prefix
UAS

Course Number
2100

Department
Aviation Technology

Course Title
Unmanned Aircraft Systems Flight Lab - Patterns and Maneuvers

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This is the main flight lab for students to get logged flight time. Students are required to log 25 hours of flight time on various aircraft platforms.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

UAS2260 - Fixed-Wing Build and Components: Profile Airplane - 3 - Credits

Course Overview

Course Prefix
UAS

Course Number
2260

Department
Aviation Technology

Course Title
Fixed-Wing Build and Components: Profile Airplane

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students build a profile-style fixed-wing drone using intermediate fabrication and programming techniques, create detailed technical documentation of their process, and refine manual flight skills with a focus on complex maneuvers specific to profile aircraft.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- UAS1200 - Unmanned Aircraft Systems Introduction to Fixed-Wings

Can be taken concurrently

Course Learning Objectives

Course Learning Outcomes
Students will demonstrate basic industry tools and documentation techniques for fixed-wing profile aircraft construction and repair

Students will become proficient in precision micro components usage and installation for fixed-wing profile aircraft

Students will be introduced to advanced manual flight maneuvers specific to fixed-wing profile aircraft

UAS2300 - Unmanned Aircraft Systems Multirotor Autonomy - 3 - Credits

Course Overview

Course Prefix
UAS

Course Number
2300

Department
Aviation Technology

Course Title
Unmanned Aircraft Systems Multirotor Autonomy

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course is intended as a continuation of UAS 1300 and focuses on sensors and their abilities in industry applications. Students add additional components and sensors to multirotor aircraft to navigate autonomously.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- UAS1300 - Unmanned Aircraft Systems Introduction to Multirotor

UAS2650 - Drones for Hire - 3 - Credits

Course Overview

Course Prefix
UAS

Course Number
2650

Department
Aviation Technology

Course Title
Drones for Hire

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course focuses on soft-skills development as students prepare to work on a project for a local business. Students are required to use skills to complete a project and then conduct a professional presentation.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- UAS3010 - Unmanned Aircraft System Introduction to Remote Pilot Certification
  OR UAS3020 - Part 61 Introduction to Unmanned Aircraft Systems and Flight Lab
  OR UAS1010 - Unmanned Aircraft Systems - Remote Pilot
- UAS1020 - Unmanned Aircraft Systems Part 107 Test

UAS2700 - Unmanned Aircraft Systems Photo and Video Basics - 3 - Credits

Course Overview

Course Prefix
UAS

Course Number
2700

Department
Aviation Technology

Course Title
Unmanned Aircraft Systems Photo and Video Basics

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students learn introductory aspects of aerial photography and videography specific to drone shots. Students are then introduced to ways to apply those shots and videos into a video project. Students are briefly introduced to some editing techniques.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- UAS1020 - Unmanned Aircraft Systems Part 107 Test
- UAS1010 - Unmanned Aircraft Systems - Remote Pilot
  OR UAS3010 - Unmanned Aircraft System Introduction to Remote Pilot Certification
  OR UAS3020 - Part 61 Introduction to Unmanned Aircraft Systems and Flight Lab

UAS3010 - Unmanned Aircraft System Introduction to Remote Pilot Certification - 3 - Credits

Course Overview

Course Prefix
UAS

Course Number
3010

Department
Aviation Technology

Course Title
Unmanned Aircraft System Introduction to Remote Pilot Certification

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course focuses on how drones can integrate into students' current major of study. Students review aviation safety, rules and regulations, Federal Aviation Administration (FAA) commercial certification preparation, and complete a flight lab component.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

UAS3020 - Part 61 Introduction to Unmanned Aircraft Systems and Flight Lab - 3 - Credits

Course Overview

Course Prefix
UAS

Course Number
3020

Department
Aviation Technology

Course Title
Part 61 Introduction to Unmanned Aircraft Systems and Flight Lab

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces current manned pilots (Part 61) to small Unmanned Aircraft Systems (sUAS) and the legalities of flying drones. Topics include aviation safety, rules and regulations, Federal Aviation Administration (FAA) commercial certification preparation, and includes a flight lab component.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Special Approval
Instructor permission

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Must hold a current Part 61 Flight Review

UAS3050 - Unmanned Aircraft Systems Pilot in Command Introduction - 3 - Credits

Course Overview

Course Prefix
UAS

Course Number
3050

Department
Aviation Technology

Course Title
Unmanned Aircraft Systems Pilot in Command Introduction

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students learn about how to complete small Unmanned Aircraft Systems operations and cover basic team communication, industry soft skills, and need for client interaction as a Pilot in Command (PIC).

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ANY of the following Courses:

- UAS1010 - Unmanned Aircraft Systems - Remote Pilot
  OR UAS3010 - Unmanned Aircraft System Introduction to Remote Pilot Certification

UAS3200 - Fixed-wing Design and Construction Essentials - 3 - Credits

Course Overview

Course Prefix
UAS

Course Number
3200

Department
Aviation Technology

Course Title
Fixed-wing Design and Construction Essentials

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course focuses on small Unmanned Aircraft Systems (sUAS) fixed-wing style design and construction. Students learn techniques for designing small fixed-wing drones, moving from a 2D idea to a working 3D object. Students experience the full design and testing process.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- UAS1200 - Unmanned Aircraft Systems Introduction to Fixed-Wings

Course Learning Objectives

Course Learning Outcomes

1. Students will be introduced to UAS VTOL design, application, and construction methods.
2. Understand the firmware configuration process as it relates to VTOL UAS.
3. Practice utilizing proper tools and components to construct, configure and fly a VTOL aircraft.

UAS3250 - UAS VTOL (Vertical Take Off and Landing) - 3 - Credits

Course Overview

Course Prefix
UAS

Course Number
3250

Department
Aviation Technology

Course Title
UAS VTOL (Vertical Take Off and Landing)

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Introduces students to VTOL UAS design and construction techniques, and the components necessary to build a functional VTOL UAS. Students gain experience constructing, configuring flight testing, and repairing a VTOL UAS, and applying industry-related basic checklist and documentation skills.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Other Enrollment Recommendations

UAS1200 UAS INTRO TO FIXED-WINGS

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- UAS1300 - Unmanned Aircraft Systems Introduction to Multirotor

Course Learning Objectives

Course Learning Outcomes

1. Operate small Unmanned Aircraft Systems (sUAS) for precision agriculture applications.
2. Collect, survey, and analyze agricultural data using drone-mounted sensors.
3. Interpret and present data findings to support agricultural decision-making.
4. Apply project-based methods to integrate UAS technology in real-world agricultural contexts.

UAS3260 - - 3 - Credits

Course Overview

Course Prefix
UAS

Course Number
3260

Department
Aviation Technology

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Covers construction, configuring and flying a fixed wing unmanned aircraft via a First Person View (FPV) video system. Skills gained include fixed wing flight, open source software and aerial video link familiarity as well as required passing of a federal exam.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Other Enrollment Recommendations
Recommended to take UAS2100 UAS FLIGHT LAB MANEUVERS prior to this course.

Simple Requisites

Prerequisite

Type
Completion Requirement

Required

Complete ALL of the following Courses:
- UAS1200 - Unmanned Aircraft Systems Introduction to Fixed-Wings

Course Learning Objectives

Course Learning Outcomes
1. Understand what "FPV" or First-Person View flight means in relation to fixed wing UAS.
2. Demonstrate greater knowledge in the area of FPV-specific UAS components/software configuration.
3. Demonstrate physical skills, including soldering, wiring and assembly of UAS as well as software configuration.
4. Use learning gained in objectives #1-3 to complete your own FPV drone build and successfully pilot the aircraft using an FPV system.

UAS3360 - UAS First Person View (FPV) Fundamentals - 3 - Credits

Course Overview

Course Prefix
UAS

Course Number
3360

Department
Aviation Technology

Course Title
UAS First Person View (FPV) Fundamentals

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students build and fly their own First Person View (FPV) multirotor. They use open source software and apply knowledge of aerial video links. Course includes a flight lab component.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Other Enrollment Recommendations

UAS1350 UAS INTRO TO FPV ESSENTIALS

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- UAS1500 - Introduction to Unmanned Aircraft Systems Maintenance and Components

UAS3440 - Unmanned Aircraft Systems Precision Agriculture Introduction - 3 - Credits

Course Overview

Course Prefix
UAS

Course Number
3440

Department
Aviation Technology

Course Title
Unmanned Aircraft Systems Precision Agriculture Introduction

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course is an introduction to agriculture-specific small Unmanned Aircraft Systems. Students learn to survey, gather data, analyze data, and present their findings. Sensors, drones, and data will be discussed in this project-based course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Students will be introduced to a variety of deliverables seen in the UAS industry.
2. Students will develop a job and skills portfolio based in UAS.
3. Students will demonstrate proficiency in a deliverable-based UAS project.
4. Students will demonstration proficiency in professionalism and other soft skills through communication with and a presentation for clients.

UAS3650 - Drones for Projects - 3 - Credits

Course Overview

Course Prefix
UAS

Course Number
3650

Department
Aviation Technology

Course Title
Drones for Projects

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This Unmanned Aircraft Systems course focuses on deliverables, portfolios, and professionalism. Students complete a UAS project for a local business, school, charity, or other instructor-approved organization. Travel, progress checks, and professional presentations will be required.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Other Enrollment Recommendations
UAS2650 DRONES FOR HIRE, UAS1010 UAS - REMOTE PILOT

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- UAS1020 - Unmanned Aircraft Systems Part 107 Test
- UAS1010 - Unmanned Aircraft Systems - Remote Pilot
  OR UAS3010 - Unmanned Aircraft System Introduction to Remote Pilot Certification
  OR UAS3020 - Part 61 Introduction to Unmanned Aircraft Systems and Flight Lab

Course Learning Objectives

Course Learning Outcomes
1. Students will be introduced to a variety of deliverables seen in the UAS industry.
2. Students will develop a job and skills portfolio based in UAS.
3. Students will demonstrate proficiency in a deliverable-based UAS project.
4. Students will demonstration proficiency in professionalism and other soft skills through communication with and a presentation for clients.

UAS3700 - Unmanned Aircraft Systems Video Production - 3 - Credits

Course Overview

Course Prefix
UAS

Course Number
3700

Department
Aviation Technology

Course Title
Unmanned Aircraft Systems Video Production

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students learn the basics of drone flight maneuvers for video production and editing. Students will produce a career-field-specific video project. This is a project-based class requiring students to have their own small Unmanned Aircraft System (drone) or access to one.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Other Enrollment Recommendations

UAS2700 UAS PHOTO AND VIDEO BASICS

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- UAS1020 - Unmanned Aircraft Systems Part 107 Test
- UAS1010 - Unmanned Aircraft Systems - Remote Pilot
  OR UAS3010 - Unmanned Aircraft System Introduction to Remote Pilot Certification
  OR UAS3020 - Part 61 Introduction to Unmanned Aircraft Systems and Flight Lab

USU1010 - University Connections - 2 - Credits

Course Overview

Course Prefix
USU

Course Number
1010

Department
General University

Course Title
University Connections

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This academic first-year seminar course focuses on the purpose and value of higher education and prepares students to intentionally engage the university curriculum so that they can be successful after graduation. Every student is assigned a faculty and peer mentor. See: http://www.usu.edu/connections/

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

No Requirements

USU1020 - Personal Productivity - 1 - Credits

Course Overview

Course Prefix
USU

Course Number
1020

Department
General University

Course Title
Personal Productivity

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This Habit of Mind course focuses on research-informed practices and techniques related to personal productivity. Students immediately put these skills to practice in their current courses and learn to apply these skills in other aspects of their lives.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Registration Restrictions

Restricted to undergraduate students only. Graduate students are not permitted to take this course.

USU1030 - Resilience - 1 - Credits

Course Overview

Course Prefix
USU

Course Number
1030

Department
General University

Course Title
Resilience

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This Habit of Mind course focuses on a basic understanding of the science of resilience and the development of resilience practices. These habits and practices can be applied to enhance performance in academic, workplace, and other demanding contexts.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Registration Restrictions

Restricted to undergraduate students only. Graduate students are not permitted to take this course.

USU1040 - Learning Techniques - 1 - Credits

Course Overview

Course Prefix
USU

Course Number
1040

Department
General University

Course Title
Learning Techniques

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This Habits of Mind course focuses on developing academic skills, techniques, and behaviors including notetaking, test preparation, test-taking, and reviewing exam results. These skills and techniques will be applied to current courses and future courses and non-academic settings.

Credit Hours

Credit Hours Min:
1

Contact Hours

Contact Hours Min:
1

Billing Hours

Billing Hours Min:
1

Lecture Hours

Lecture Hours Min:
1

Registration Restrictions

Restricted to undergraduate students only. Graduate students are not permitted to take this course.

USU1045 - Habits of Mind: Variable Topics - 1 - 3 Credits

Course Overview

Course Prefix
USU

Course Number
1045

Department
General University

Course Title
Habits of Mind: Variable Topics

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This introductory course focuses on developing academic skills, beliefs, and behaviors for implementation in and out of class. Targeted skills vary depending on the section and term.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

No Requirements

USU1050 - Navigating College: Aggie First Scholars - 1 - Credits

Course Overview

Course Prefix
USU

Course Number
1050

Department
General University

Course Title
Navigating College: Aggie First Scholars

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This Habit of Mind course introduces students to the Aggie First Scholars' program at USU. It teaches students who have not had familial exposure to college important habits and skills to intentionally design and navigate their university experience.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Registration Restrictions
Students must be first-generation college students.

Restricted to undergraduate students only. Graduate students are not permitted to take this course.

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- USU1010 - University Connections

may be taken concurrently

USU1060 - Reading College Texts - 1 - Credits

Course Overview

Course Prefix
USU

Course Number
1060

Department
General University

Course Title
Reading College Texts

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This Habit of Mind course teaches students techniques for reading college-level texts. Students learn annotating, reviewing, comprehending, and recalling information found in a college-level text. Students can apply these habits and techniques to current and future college-level reading.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Registration Restrictions
Restricted to undergraduate students only. Graduate students are not permitted to take this course.

USU1070 - Growth Mindset in STEM - 1 - Credits

Course Overview

Course Prefix
USU

Course Number
1070

Department
General University

Course Title
Growth Mindset in STEM

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This Habit of Mind course focuses on assisting students to identify, develop, and apply a growth mindset regarding STEM subjects. Students practice curiosity, inquiry, and critical thinking in a variety of STEM subjects as well as in practical experiences.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Registration Restrictions

Restricted to undergraduate students only. Graduate students are not permitted to take this course.

USU1080 - Habits of Mind: Conflict and Communication - 1 - Credits

Course Overview

Course Prefix
USU

Course Number
1080

Department
General University

Course Title
Habits of Mind: Conflict and Communication

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Students are taught awareness of current communication and conflict patterns and how to manage conflict collaboratively. Students develop effective communication habits of mind, enhancing a student's ability to use communication skills to effectively manage conflict in a variety of settings.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

No Requirements

USU1120 - Habits for Academic Success - 3 - Credits

Course Overview

Course Prefix
USU

Course Number
1120

Department
General University

Course Title
Habits for Academic Success

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This Habits of Mind course introduces students to skills, techniques, and learning science related to college-level academic success. Emphasizes personal productivity, learning techniques, college-level reading, and a growth mindset applicable to current and future courses, as well as post-college activities.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

USU1140 - Habits of Mind – Life, College, and Career Readiness - 3 - Credits

Course Overview

Course Prefix
USU

Course Number
1140

Department
General University

Course Title
Habits of Mind – Life, College, and Career Readiness

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students explore career pathways and the opportunities and resources available at the post-secondary level. Students are introduced to the Habits of Mind they must develop and practice to achieve success in college, careers, and other professional environments.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

USU1150 - Leadership Development of First-generation College Students - 1 - Credits

Course Overview

Course Prefix
USU

Course Number
1150

Department
General University

Course Title
Leadership Development of First-generation College Students

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
In this course, students participate in a variety of events, initiatives, and assignments to learn theories, methods, and application of first-generation student leadership to further build their skills as leaders and mentors at USU and beyond.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- USU1050 - Navigating College: Aggie First Scholars

may be taken concurrently

Course Learning Objectives

Course Learning Outcomes

1. Identify foundational leadership and student development theories and models, then, relate these to their own experiences as first-generation college students.
2. Define the purpose of mentorship and apply purpose, foundational theories, and models to current/future on-campus jobs and leadership positions.
3. Recall and demonstrate core competencies (from AACU and Forbes):
-Teamwork and Leadership Skills
-Effective Written and Verbal Communication
-Critical-Thinking and Creative Solutions-Finding
-Proactive Behavior vs. Reactive Behavior
-Application of Knowledge and Experience (Mentorship)
-Reflection and Self-Assessment
-Intercultural Communication in a Globalized Workforce"
4.Summarize leadership, mentorship, and student development models through a written mentoring plan that can be portable to leadership positions within and outside of the AFS program.

USU1300 - U.S. Institutions (BAI) - 3 - Credits

Course Overview

Course Prefix
USU

Course Number
1300

Department
General University

Course Title
U.S. Institutions (BAI)

General Education Attribute
BAI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Provides basic understanding of the history, principles, form of government, and economic system of the United States. Emphasis on ideas and critical thinking, rather than dates, names, and places.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

USU1320 - Civilization: Humanities (BHU) - 3 - Credits

Course Overview

Course Prefix
USU

Course Number
1320

Department
General University

Course Title
Civilization: Humanities (BHU)

General Education Attribute
BHU

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Provides basic understanding of a broad range of themes, which cut across human history and continue to be important in contemporary society.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

USU1330 - Civilization: Creative Arts (BCA) - 3 - Credits

Course Overview

Course Prefix
USU

Course Number
1330

Department
General University

Course Title
Civilization: Creative Arts (BCA)

General Education Attribute
BCA

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students will explore questions such as: What is Art? How is it judged? How does artistic expression vary across cultures? Course will cover several forms of art, and students will attend concerts, visit galleries, and attend theatrical performances.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

USU1340 - Social Systems and Issues (BSS) - 3 - Credits

Course Overview

Course Prefix
USU

Course Number
1340

Department
General University

Course Title
Social Systems and Issues (BSS)

General Education Attribute
BSS

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Examines debates in the social sciences about contexts which shape human experience. Compares experiences between life stages, individuals, groups, societies, and/or historical periods. Contrasts different social science disciplines.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

USU1350 - Integrated Life Science (BLS) - 3 - Credits

Course Overview

Course Prefix
USU

Course Number
1350

Department
General University

Course Title
Integrated Life Science (BLS)

General Education Attribute
BLS

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Interdisciplinary course focusing on basic concepts of life science. Demonstrates role of modeling, prediction, and observation in the process of scientific discovery, which occurs within an historical and social context.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

USU1360 - Integrated Physical Science (BPS) - 3 - Credits

Course Overview

Course Prefix
USU

Course Number
1360

Department
General University

Course Title
Integrated Physical Science (BPS)

General Education Attribute
BPS

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Interdisciplinary course focusing on basic concepts of physical science, including structure of matter and magnitude and character of the forces of nature. Demonstrates role of modeling, prediction, and observation in the process of scientific discovery, which occurs within an historical and social context.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

USU1400 - Career Series 1: Exploring Majors & Careers - 1 - Credits

Course Overview

Course Prefix
USU

Course Number
1400

Department
General University

Course Title
Career Series 1: Exploring Majors & Careers

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students assess their interests, values, skills, and temperaments and apply them to major and career options. This course emphasizes relationships between self-knowledge and realities of educational and employment opportunities. Students create goals and action plans, and test out options.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

No Requirements

USU1750 - Comprehension Strategies for College Reading - 1 - 3 Credits

Course Overview

Course Prefix
USU

Course Number
1750

Department
General University

Course Title
Comprehension Strategies for College Reading

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Practical course emphasizing application of strategies and development of critical thinking skills needed to comprehend and distill meaning from college-level texts. Courses over one credit require in-course practice time.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

No Requirements

USU2110 - Becoming a Researcher - 1 - Credits

Course Overview

Course Prefix
USU

Course Number
2110

Department
General University

Course Title
Becoming a Researcher

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This Habit of Mind course teaches undergraduate students the foundational skills for engaging with faculty-led research, boosting their opportunities to benefit from high-impact, hands-on learning while contributing to the advancement of knowledge.

Credit Hours

Credit Hours Min:
1

Contact Hours

Contact Hours Min:
1

Billing Hours

Billing Hours Min:
1

Lecture Hours

Lecture Hours Min:
1

Registration Restrictions
Must be an undergraduate student

Course Learning Objectives

Course Learning Outcomes

Students who successfully complete this course will:

1. Develop an understanding of the research environment
2. Articulate their own identity as an emerging researcher
3. Build their research communication skills and networking skills
4. Learn principles of the responsible and ethical conduct of research
5. Investigate the connection between research and careers

USU2150 - Student Applied Leadership - 2 - Credits

Course Overview

Course Prefix
USU

Course Number
2150

Department
General University

Course Title
Student Applied Leadership

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course is designed to provide an introduction to leadership skills for students in programs sponsored by the Student Involvement & Leadership Office. Topics covered include; leadership theory and styles, managing conflict, leadership, and diversity, along with a group project.

Credit Hours

Credit Hours Min:
2

Contact Hours

Contact Hours Min:
2

Billing Hours

Billing Hours Min:
2

Lecture Hours

Lecture Hours Min:
2

Special Approval
Instructor permission

No Requirements

Course Learning Objectives

Course Learning Outcomes
1. Students will identify a functional knowledge of 3-5 prominent leadership theories/practices.
2. Students will discover their own core leadership style and know the strengths/ weaknesses associated with that style.
3. Students will have a basic understanding of the role, purpose, and mission of their individual organizations, as well as all units within the Student Involvement and Leadership department.

USU2160 - Student Applied Leadership Training - 1 - 3 Credits

Course Overview

Course Prefix
USU

Course Number
2160

Department
General University

Course Title
Student Applied Leadership Training

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Available to students involved in structured leadership training provided as part of their role and responsibility at the University. For details, contact the Office of University Advising (TSC 304).

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

No Requirements

USU2170 - Community Voices and Engagement - 1 - Credits

Course Overview

Course Prefix
USU

Course Number
2170

Department
General University

Course Title
Community Voices and Engagement

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course gives students the opportunity to hear from public officials and community leaders representing diverse community voices. Students gain a deeper understanding of what it means to be an active citizen and various ways to effectively engage with the greater community.

Credit Hours

Credit Hours Min:
1

Contact Hours

Contact Hours Min:
1

Billing Hours

Billing Hours Min:
1

Lecture Hours

Lecture Hours Min:
1

No Requirements

USU2250 - Introductory Internship - 1 - 6 Credits

Course Overview

Course Prefix
USU

Course Number
2250

Department
General University

Course Title
Introductory Internship

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This internship course allows students to combine on-the-job career learning with related academic coursework to complement the total educational experience. Students will be able to document projects completed and skills gained, thus demonstrating capabilities beyond the classroom.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
6

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
6

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
6

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
6

Lecture Hours Operator:
TO

Special Approval
Instructor permission

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Learning objectives are the very core of the internship experience. The intern, along with the work supervisor, will determine objectives/goals to be completed during the internship experience.
2. Objectives should allow the intern to learn or expand a skill, obtain new information, complete a project, solve a problem, and/or gain valuable new competencies. Once the student and work supervisor have agreed on the learning objectives, objectives will need to be reviewed with the faculty coordinator for final approval.
3. Develop clear and strategic goals that will contribute to an external organization while improving their own professional skillset.
4. Communicate with supervisors/mentors personal career goals and how it can fit within the organization.
5. Evaluate work experience and communicate how it prepares them for their future career.

USU2400 - Career Series 2: Networking and Preparing for Internships - 1 - Credits

Course Overview

Course Prefix
USU

Course Number
2400

Department
General University

Course Title

Career Series 2: Networking and Preparing for Internships

Grade Mode
Standard Letter

Repeat Status
NR

Course Description

Students learn techniques and tools necessary to gain experiential opportunities relevant to their career goals. Students build confidence in their ability to identify and participate in meaningful experiential opportunities such as internships, volunteerism, practicum, fieldwork, etc.

Credit Hours

Credit Hours Min:
1

Contact Hours

Contact Hours Min:
1

Billing Hours

Billing Hours Min:
1

Lecture Hours

Lecture Hours Min:
1

No Requirements

USU3070 - Interdisciplinary Depth (DHA/DSC/DSS) - 3 - 6 Credits

Course Overview

Course Prefix
USU

Course Number
3070

Department
General University

Cross-Listed Courses
HONR3070 - Honors Interdisciplinary Depth (DHA/DSC/DSS)

Course Title
Interdisciplinary Depth (DHA/DSC/DSS)

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Course may combine two or three depth categories (DHA, DSC, DSS) in a variable 3-6 credit course covering 1 - 2 semesters. Usually team-taught and may include service learning, fieldwork, or undergraduate research. Course fulfills one depth requirement per semester of student enrollment (up to two for a yearlong course).

Credit Hours

Credit Hours Min:
3

Credit Hours Max:
6

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
5

Contact Hours Max:
6

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
3

Billing Hours Max:
6

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
5

Lecture Hours Max:
6

Lecture Hours Operator:
TO

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete at least 1 course in the following course sets:

- Quantitative Literacy (QL) Course
- Communications Literacy (CL1) Course
- Communications Literacy (CL2) Course

Also must have met breadth graduation requirements

USU3071 - Interdisciplinary Depth Part 1 (DHA/DSC/DSS) - 3 - Credits

Course Overview

Course Prefix
USU

Course Number
3071

Department
General University

Course Title
Interdisciplinary Depth Part 1 (DHA/DSC/DSS)

General Education Attribute
DHA, DSC, DSS

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
First half of a two-semester course sequence that combines two of three depth categories (DHA, DSC, DSS). Students should check course description for specifics and must complete the second half of the course to achieve the depth designation.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete at least 1 course in the following course sets:

- Quantitative Literacy (QL) Course
- Communications Literacy (CL1) Course
- Communications Literacy (CL2) Course

must also have met breadth graduation requirements

USU3072 - Interdisciplinary Depth Part 2 (DHA/DSC/DSS) - 3 - Credits

Course Overview

Course Prefix
USU

Course Number
3072

Department
General University

Course Title
Interdisciplinary Depth Part 2 (DHA/DSC/DSS)

General Education Attribute
DHA, DSC, DSS

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Second half of a two-semester course sequence that combines two of the three depth categories (DHA, DSC, DSS). Students should check course description. This half of the course bears the depth designation. Students are expected to take both semesters.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete at least 1 course in the following course sets:

- Quantitative Literacy (QL) Course
- Communications Literacy (CL1) Course
- Communications Literacy (CL2) Course

USU3400 - Career Series 3: Launch Your Career - 1 - Credits

Course Overview

Course Prefix
USU

Course Number
3400

Department
General University

Course Title
Career Series 3: Launch Your Career

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students apply career search strategies customized for potential employers while developing and articulating competencies employers are seeking. Students prepare a career portfolio of effective documents, develop their LinkedIn profile, and network through fairs, employer information sessions, and mock interviews.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

No Requirements

USU3410 - PreMed Ready: Application Prep - 1 - Credits

Course Overview

Course Prefix
USU

Course Number
3410

Department
General University

Course Title
PreMed Ready: Application Prep

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
This course is designed to familiarize students with the logistics of the medical school application process, with assignments focused on the development of application materials, investigation of medical schools, and interview techniques/ practice.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Students will understand the application cycle and timeline for a competitive medical school application.
2. Students will understand and begin the creation of an application portfolio of undergraduate experiences and required documents, including drafts of the personal statement, experience descriptions, and secondary essays.
3. Students will understand the nuanced elements, both academic and experiential, that make a competitive applicant.
4. Students will be able to identify and research medical graduate programs to learn specific school requirements such as prerequisites, letters of evaluation, extracurricular activities, and residency requirements, in addition to the review of school culture and mission fit, for both the application and interview processes.

USU4250 - Advanced Internship - 1 - 6 Credits

Course Overview

Course Prefix
USU

Course Number
4250

Department
General University

Course Title
Advanced Internship

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This internship course allows students to combine on-the-job career learning with related academic coursework to complement the total educational experience. Students will be able to document projects completed and skills gained, thus demonstrating capabilities beyond the classroom.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
6

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
6

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
6

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
6

Lecture Hours Operator:
TO

Special Approval
Instructor permission

No Requirements

Course Learning Objectives

Course Learning Outcomes
1. Become exposed to current cutting edge research presentations in the life sciences.
2. Learn to critically evaluate and reflect on current life science and biomedical research topics.
3. Have the opportunity to personally interact with active life science researchers from across the country.

USU4900 - Writing Fellows WAC Praxis - 2 - Credits

Course Overview

Course Prefix
USU

Course Number
4900

Department
College of Arts & Sciences

Course Title
Writing Fellows WAC Praxis

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Required seminar for new Writing Fellows embedded as peer mentors in writing-intensive courses across the curriculum. WFs learn theories and practice strategies for tutoring students in writing skills and processes.

Credit Hours

Credit Hours Min:
2

Contact Hours

Contact Hours Min:
2

Billing Hours

Billing Hours Min:
2

Lecture Hours

Lecture Hours Min:
2

Special Approval
Instructor permission

No Requirements

USU4910 - Study Abroad - 1 - 25 Credits

Course Overview

Course Prefix
USU

Course Number
4910

Department
General University

Course Title
Study Abroad

Grade Mode
Temporary Standard Letter

Repeat Status
RP

Course Description
This is a study abroad program.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
25

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
25

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
25

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
25

Lecture Hours Operator:
TO

USU6910 - Study Abroad - 1 - 25 Credits

Course Overview

Course Prefix
USU

Course Number
6910

Department
General University

Course Title
Study Abroad

Grade Mode
Temporary Standard Letter

Repeat Status
RP

Course Description
This is a study abroad program.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
25

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
25

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
25

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
25

Lecture Hours Operator:
TO

USU7777 - Completion Course for Final Thesis, Dissertation, Plan B Paper or Project Changes - 3 - Credits

Course Overview

Course Prefix
USU

Course Number
7777

Department
General University

Course Title
Completion Course for Final Thesis, Dissertation, Plan B Paper or Project Changes

Grade Mode
Temporary Standard Letter

Repeat Status
NR

Course Description
This is a non-repeatable, non-graded (SC only) course. Credits cannot be used for degree requirements. There will be no tuition or fees charged. It will not appear on a student's program of study. This course will not have any implication for the order of dissertation/thesis review by the School of Graduate Studies.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Successful Record of Examination Form turned into the School of Graduate Studies Special approval for registration is required

USU7920 - Teaching Assistant Workshop - - Credits

Course Overview

Course Prefix
USU

Course Number
7920

Department
General University

Course Title
Teaching Assistant Workshop

Grade Mode
Pass/Fail

Repeat Status
NR

Course Description
This course will provide graduate students with training on FERPA, sexual harassment prevention, and working with students with disabilities as well as cover Utah State University policies and procedures relevant to teaching assistants. The course will also introduce students to university resources that may be helpful to teaching assistants.

Credit Hours

Credit Hours
Min:
0

Contact Hours

Contact Hours
Min:
0

Billing Hours

Billing Hours
Min:
0

Lecture Hours

Lecture Hours
Min:
0

Registration Restrictions

Admission to a USU graduate Program

No Requirements

VCLS5130 - Biomedical Sciences: Cell Culture - 3 - Credits

Course Overview

Course Prefix
VCLS

Course Number
5130

Department
Veterinary Clinical & Life Sciences

Dual-Listed Courses
VCLS6130 - Biomedical Sciences: Cell Culture

Course Title
Biomedical Sciences: Cell Culture

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course is designed to provide an in-depth lecture and laboratory experience in techniques, and fundamental and specialized knowledge for culturing mammalian cells. Students learn maintenance, growing, cytotoxicity testing, cloning, and select additional cell culture techniques. Extensive laboratory experience is provided. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Other Enrollment Recommendations
Students are encouraged to take CHEM3700 INTRO BIOCHEMISTRY.

Simple Requisites

Pre-Requisite

Type
Completion Requirement

GPA Requirement

Students must have a 3.0 GPA to take this course.

Course Learning Objectives

Course Learning Outcomes
Upon completion of this course students will be able to:

1. Describe the fundamental principles and core terminology associated with in vitro animal cell culture.
2. Explain the biological and technical foundations underlying primary culture establishment, cell line maintenance, and quality assurance practices.
3. Describe procedures for establishing primary cultures from tissues and organs using appropriate laboratory methods.
4. Perform standard techniques for culturing animal cells in vitro, including aseptic handling, media preparation, and routine maintenance.
5. Assess the characteristics of different cell lines by interpreting morphological, biochemical, and growth-related data.
6. Describe and explain differences between normal, transformed, primary, and continuous cell cultures.
7. Evaluate the quality, reliability, and biosafety compliance of cell culture laboratory through inspection of workflow, documentation, and experimental outcomes.
8. Determine the suitability of specific cell culture techniques for various research or industrial applications.
9. Design experimental workflows that incorporate animal cell culture techniques to address research questions or solve industry-related problems.
10. Develop optimized protocols for primary culture establishment or cell line maintenance based on experimental evidence and best practices.

VCLS5230 - Biomedical Sciences: Molecular Techniques - 3 - Credits

Course Overview

Course Prefix
VCLS

Course Number
5230

Department
Veterinary Clinical & Life Sciences

Dual-Listed Courses
VCLS6230 - Biomedical Sciences: Molecular Techniques

Course Title
Biomedical Sciences: Molecular Techniques

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Laboratory-oriented course designed to teach molecular biology techniques such as DNA cloning, genetic probes, polymerase chain reaction, and DNA sequencing, and basic bioinformatics. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- CHEM3700 - Introductory Biochemistry
- CHEM5710 - General Biochemistry II
- BIOL3060 - Principles of Genetics (QI)

Course Learning Objectives

Course Learning Outcomes
Upon completion of this course students will be able to:

1. Explain concepts behind and perform common molecular biology techniques.
2. Apply molecular biology techniques to answer research questions.
3. Analyze data from common techniques in the context of experimental questions.

VCLS5900 - Special Topics in Biomedical Sciences - 1 - 3 Credits

Course Overview

Course Prefix
VCLS

Course Number
5900

Department
Veterinary Clinical & Life Sciences

Dual-Listed Courses
VCLS6900 - Special Topics in Biomedical Sciences

Course Title
Special Topics in Biomedical Sciences

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Students learn about special topics in biomedical sciences. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

Special Approval
Instructor permission

Course Learning Objectives

Course Learning Outcomes

1. At the end of the course, students will be able to discuss relevant topics in biomedical sciences.

VCLS6000 - Ecology and Health: Case Studies of Relationships Between the Environment, Organisms, and Health - 3 - Credits

Course Overview

Course Prefix
VCLS

Course Number
6000

Department
Veterinary Clinical & Life Sciences

Course Title
Ecology and Health: Case Studies of Relationships Between the Environment, Organisms, and Health

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course encourages students to explore the complexity of relationships between changes in the environment, pathogenicity and distribution of organisms, and changing distributions of human beings and animals, within the context of global climate change, global trade, and political unrest.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

VCLS6010 - Applied Veterinary Epidemiology - 3 - Credits

Course Overview

Course Prefix
VCLS

Course Number
6010

Department
Animal, Dairy & Veterinary Sciences

Course Title
Applied Veterinary Epidemiology

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers practical applications of epidemiology for veterinary medicine and public health. Topics include a summary of epidemiologic data, outbreak investigation, questionnaire design, sample size calculations, diagnostic test evaluation, study design, and introductions to risk analysis and disease modeling.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- NDFS6540 - Introduction to Epidemiology and Biostatistics

or another introductory epidemiology course

VCLS6020 - One Health: People, Animals, and the Environment - 3 - Credits

Course Overview

Course Prefix
VCLS

Course Number
6020

Department
Veterinary Clinical & Life Sciences

Cross-Listed Courses
ADVS6020 - One Health: People, Animals, and the Environment

Course Title
One Health: People, Animals, and the Environment

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces core concepts of One Health, exploring the interconnected health of humans, animals, and the environment. It covers emerging disease dynamics, food and water security, ecological impacts, and the interdisciplinary approaches to addressing health challenges. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Other Enrollment Recommendations

BIOL3300 GENERAL MICROBIOLOGY recommended

Simple Requisites

Prerequisite

Type
Completion Requirement

Required

Complete ALL of the following Courses:

- BIOL1610 - Biology I
  OR CHEM2310 - Organic Chemistry I

OR CHEM3700 - Introductory Biochemistry

Course Learning Objectives

Course Learning Outcomes

1. Define and explain the core principles of the One Health framework, including the interconnections among human, animal, and environmental health.
2. Identify and analyze real-world examples that illustrate how human, animal, and environmental systems influence one another.
3. Apply a One Health approach to the assessment and proposed resolution of health challenges requiring multidisciplinary collaboration.
4. Describe and evaluate One Health dimensions of infectious and zoonotic diseases, food safety, antimicrobial resistance, and environmental change.
5. Discuss the human–animal bond and its relevance to physical, emotional, and societal well-being within the One Health context.
6. Strengthen professional networking and collaboration skills relevant to the One Health field.
7. Synthesize interdisciplinary scientific and policy evidence to develop more advanced One Health analyses and justify integrated solutions to complex health challenges.

VCLS6100 - Biomedical and Life Sciences Seminar Series - 1 - Credits

Course Overview

Course Prefix
VCLS

Course Number
6100

Department
Veterinary Clinical & Life Sciences

Cross-Listed Courses
VM6100 - Biomedical and Life Sciences Series

Course Title
Biomedical and Life Sciences Seminar Series

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
The Life Science Seminar Series exposes students to guest lectures and presentations given by experts and renowned researchers across a variety of life science & biomedical research topics that are relevant to life science research projects ongoing at USU.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Registration Restrictions
Must be a USU Graduate Student

Course Learning Objectives

Course Learning Outcomes
By the end of this course, you will:

1. Have learned about current biomedical and life science research first-hand by hearing from the experts.
2. Had the opportunity to interact with biomedical researchers outside your primary field of research
3. Analyzed and evaluated scientific research talks - extracted main messages and new concepts
4. Reflected on research topics that are new and not directly related to your own

primary research
5. Created concise accurate written summaries of newly learned scientific concepts

VCLS6110 - MPH Practicum - 3 - Credits

Course Overview

Course Prefix
VCLS

Course Number
6110

Department
Veterinary Clinical & Life Sciences

Course Title
MPH Practicum

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
The practicum gives MPH students the opportunity to integrate and apply classroom learning with professional, real-world work experience. Students have the option to complete their practicum course requirement at one of many local, national, or international health organizations.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Admission to the Master of Public Health: Veterinary Public Health Specialization - MPH program

Special Approval
Advisor permission

Other Enrollment Recommendations
Completion of the first year of the MPH in Veterinary Public Health program

VCLS6130 - Biomedical Sciences: Cell Culture - 3 - Credits

Course Overview

Course Prefix
VCLS

Course Number
6130

Department
Veterinary Clinical & Life Sciences

Dual-Listed Courses
VCLS5130 - Biomedical Sciences: Cell Culture

Course Title
Biomedical Sciences: Cell Culture

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course is designed to provide an in-depth lecture and laboratory experience in techniques, and fundamental and specialized knowledge for culturing mammalian cells. Students learn maintenance, growing, cytotoxicity testing, cloning, and select additional cell culture techniques. Extensive laboratory experience is provided. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Course Learning Objectives

Course Learning Outcomes

Upon completion of this course students will be able to:

1. Describe the fundamental principles and core terminology associated with in vitro animal cell culture.
2. Explain the biological and technical foundations underlying primary culture establishment, cell line maintenance, and quality assurance practices.
3. Describe procedures for establishing primary cultures from tissues and organs using appropriate laboratory methods.

4. Perform standard techniques for culturing animal cells in vitro, including aseptic handling, media preparation, and routine maintenance.
5. Assess the characteristics of different cell lines by interpreting morphological, biochemical, and growth-related data.
6. Describe and explain differences between normal, transformed, primary, and continuous cell cultures.
7. Evaluate the quality, reliability, and biosafety compliance of a cell culture laboratory through inspection of workflow, documentation, and experimental outcomes.
8. Determine the suitability of specific cell culture techniques for various research or industrial applications.
9. Design experimental workflows that incorporate animal cell culture techniques to address research questions or solve industry-related problems.
10. Develop optimized protocols for primary culture establishment or cell line maintenance based on experimental evidence and best practices.

VCLS6200 - Research Animal Anatomy and Physiology - 3 - Credits

Course Overview

Course Prefix
VCLS

Course Number
6200

Department
Veterinary Clinical & Life Sciences

Course Title
Research Animal Anatomy and Physiology

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course focuses on anatomy and physiology of select species and processes relevant to biomedical research.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Course Learning Objectives

Course Learning Outcomes

Upon completion of this course students will be able to:

1. Describe normal gross and microscopic anatomy and physiology of the musculoskeletal system, nervous system, cardiovascular system, digestive system, respiratory system, urogenital system, endocrine system, with a focus on relevance to biomedical research.
2. Compare and contrast anatomy and physiology of relevant animal models to humans.

VCLS6210 - Principles of Pharmacology and Toxicology - 3 - Credits

Course Overview

Course Prefix
VCLS

Course Number
6210

Department
Veterinary Clinical & Life Sciences

Course Title
Principles of Pharmacology and Toxicology

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides an introduction to the fundamental principles of pharmacology and toxicology. This course focuses on key concepts such as absorption, distribution, biotransformation, elimination, dose-response, broad mechanisms of action, and population pharmacology and toxicology.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Must earn a minimum grade of C-

Complete ALL of the following Courses:

- VCLS6200 - Research Animal Anatomy and Physiology

Course Learning Objectives

Course Learning Outcomes

Upon completion of this course students will be able to:

1. Understand the fundamental principles of pharmacology and toxicology, including absorption, distribution, biotransformation, elimination, and dose-response relationships.
2. Understand general mechanisms of drug action and toxicity, including how xenobiotics interact with biological systems to produce therapeutic or toxic effects.
3. Develop a broad understanding of the role of pharmacology and toxicology in drug development, risk assessment, and environmental- and ecotoxicology.

VCLS6220 - Mechanisms of Disease - 3 - Credits

Course Overview

Course Prefix
VCLS

Course Number
6220

Department
Veterinary Clinical & Life Sciences

Course Title
Mechanisms of Disease

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides the foundation for researchers using animal models to understand the body's response to injury. Vascular disturbances, inflammation, disorders of immunity, and neoplasia will be discussed.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Biomedical Sciences - MS

Special Approval
Advisor Permission

Other Enrollment Recommendations

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Must earn a minimum grade of C-

Complete ALL of the following Courses:

- VCLS6200 - Research Animal Anatomy and Physiology

Course Learning Objectives

Course Learning Outcomes

Upon completion of this course students will be able to:

1. Explain the mechanisms and morphology of cellular injury, adaptation, and death.
2. Understand general concepts of vascular disorders and thrombosis.

VCLS6230 - Biomedical Sciences: Molecular Techniques - 3 - Credits

Course Overview

Course Prefix
VCLS

Course Number
6230

Department
Veterinary Clinical & Life Sciences

Dual-Listed Courses
VCLS5230 - Biomedical Sciences: Molecular Techniques

Course Title
Biomedical Sciences: Molecular Techniques

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Laboratory-oriented course designed to teach molecular biology techniques such as DNA cloning, genetic probes, polymerase chain reaction, and DNA sequencing, and basic bioinformatics. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Other Enrollment Recommendations
Students are encouraged to take the following courses before taking this course:

CHEM3700 INTRO BIOCHEMISTRY

CHEM5710 GENERAL BIOCHEMISTRY II

BIOL3060 PRIN OF GENETICS (QI)

Course Learning Objectives

Course Learning Outcomes
Upon completion of this course students will be able to:

1. Explain the concepts behind and perform common molecular biology techniques.
2. Apply molecular biology techniques to answer research questions.
3. Analyze data from common techniques in the context of experimental questions.

VCLS6800 - Biomedical and Life Sciences Graduate Seminar - 1 - Credits

Course Overview

Course Prefix
VCLS

Course Number
6800

Department
Veterinary Clinical & Life Sciences

Course Title
Biomedical and Life Sciences Graduate Seminar

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
Graduate students prepare scientific oral presentations using their own research and data.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Registration Restrictions
Must be a USU graduate student

Course Learning Objectives

Course Learning Outcomes
1. Exercise in science communication skills.

2. Allows students to receive feedback from faculty, staff, and students on their own research.

3. This course will prepare graduate students for scholarly presentations, beginning with forming hypotheses based on individualized research interests and finishing with presenting their own results and data findings.

VCLS6830 - Communicating and Evaluating Public Health Information: Case Studies in Environmental Health - 3 - Credits

Course Overview

Course Prefix
VCLS

Course Number
6830

Department
Veterinary Clinical & Life Sciences

Course Title
Communicating and Evaluating Public Health Information: Case Studies in Environmental Health

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Students learn to frame and deliver effective, accurate public health messages, developing an understanding of topics necessary to evaluate information accuracy. Message design and communication strategy exercises are based on environmental health topics, using environmental health disasters as case studies.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Other Enrollment Recommendations
Fundamental knowledge in biology, chemistry, and organic chemistry

VCLS6840 - Epigenetics in Public Health - 3 - Credits

Course Overview

Course Prefix
VCLS

Course Number
6840

Department
Veterinary Clinical & Life Sciences

Course Title
Epigenetics in Public Health

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course enables students to understand epigenetic mechanisms and critically evaluate reports of the emerging environmental origin of epigenetic disease and developmental problems relevant to public health, including cancer, aging, metabolic syndrome, reproductive health, in utero, and transgenerational exposures.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Admission to the Master of Public Health: Veterinary Public Health Specialization - MPH

VCLS6900 - Special Topics in Biomedical Sciences - 1 - 3 Credits

Course Overview

Course Prefix
VCLS

Course Number
6900

Department
Veterinary Clinical & Life Sciences

Dual-Listed Courses
VCLS5900 - Special Topics in Biomedical Sciences

Course Title
Special Topics in Biomedical Sciences

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Students learn about special topics in biomedical sciences. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

Special Approval
Instructor permission

Course Learning Objectives

Course Learning Outcomes
1. At the end of the course, students will be able to discuss relevant topics in biomedical sciences.

VCLS6970 - Veterinary Clinical and Life Sciences Research and Thesis - 1 - 12 Credits

Course Overview

Course Prefix
VCLS

Course Number
6970

Department
Veterinary Clinical & Life Sciences

Course Title
Veterinary Clinical and Life Sciences Research and Thesis

Grade Mode
Temporary Pass/Fail

Repeat Status
RP

Course Description
The students perform supervised research for credit as part of their graduate studies toward the VCLS degree MS in Biomedical Sciences.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
12

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
12

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
12

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
12

Lecture Hours Operator:
TO

Registration Restrictions
Admission to the Biomedical Sciences - MS program.

Course Learning Objectives

Course Learning Outcomes

1. Understand and practice experimental design.

2. Data collection and analysis.

3. Data interpretation in a research setting.

VCLS7101 - Cell Biology and Metabolism - 3 - Credits

Course Overview

Course Prefix
VCLS

Course Number
7101

Department
Veterinary Clinical & Life Sciences

Cross-Listed Courses
VM7101 - Cell Biology and Metabolism

Course Title
Cell Biology and Metabolism

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides a foundation of cellular structures and their functions. Principles of cellular and molecular biology as related to veterinary medicine are discussed. In addition, clinically relevant cellular and animal metabolic processes will be taught.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Course Learning Objectives

Course Learning Outcomes
1. Recognize the various components of the cell through light microscopy and electron microscopy and be able to discuss the current fundamental concepts of cell structure and function.

2. Recognize and describe the cellular and extracellular composition of the basic tissues of the animal body and understand their functions and interrelationships.

3. Discuss how abnormlities in cell function and structure relate to malfunction of organs, tissues and disease presentation.

4. Correlate the microscopic structure with the function of the cells, tissues and organs of the animal body and logically consider the consequences of malfunction.

VCLS7132 - General Pathology - 3 - Credits

Course Overview

Course Prefix
VCLS

Course Number
7132

Department
Veterinary Clinical & Life Sciences

Cross-Listed Courses
VM7132 - General Pathology

Course Title
General Pathology

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides a foundation for the molecular and biological processes underlying animal disease. Students learn to describe common gross and microscopic lesions using medical terminology and develop an understanding of lesion development and associations between host, pathogens, and environment.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Course Learning Objectives

Course Learning Outcomes

1. Describe the molecular and biological mechanisms underlying animal diseases and their roles in disease progression.

2. Recognize and classify common gross and microscopic lesions associated with animal diseases.

3. Describe gross and microscopic lesions using appropriate medical terminology.

4. Analyze the processes of lesion development and progression in animal tissues.

5. Explain the dynamic relationships between the host, pathogens, and environmental factors that contribute to the development of animal diseases.

VCLS7142 - Agents of Infection and Immunity - 3 - Credits

Course Overview

Course Prefix
VCLS

Course Number
7142

Department
Veterinary Clinical & Life Sciences

Cross-Listed Courses
VM7142 - Agents of Infection and Immunity

Course Title
Agents of Infection and Immunity

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course focuses on the basic mechanisms of veterinary immunology with an emphasis on protective immunity against infectious diseases and the role of aberrant immune responses in disease. In this course, students acquire a functional basis in clinical immunology.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Course Learning Objectives

Course Learning Outcomes

1. Describe the basic mechanisms of veterinary immunology and the main characteristics of viruses, bacteria, protozoa and helminths.

2. Describe protective immunity against infectious diseases and the role of aberrant immune responses in disease.

3. List the components of the innate immune system and explain their functions.

4. Describe the components of the adaptive immune system, how B and T cells develop at a cellular and molecular level, how they recognize and respond to antigen.

5.Articulate how innate and adaptive immune components cooperate during immune responses and recognize the underlying molecules, cells and mechanisms involved in this response.

6.Apply the immunological concepts to explain the basis of: defense against infection, immunization, hypersensitivity, autoimmune disease, immunodeficiency and rejection of transplanted organs.

VCLS7162 - Fundamentals of Pharmacology - 1 - Credits

Course Overview

Course Prefix
VCLS

Course Number
7162

Department
Veterinary Clinical & Life Sciences

Cross-Listed Courses
VM7162 - Fundamentals of Pharmacology

Course Title
Fundamentals of Pharmacology

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course is an introduction to pharmacology. Students are introduced to principles of pharmacology such as pharmacokinetics and pharmacodynamics as well as drug dosing calculations.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Course Learning Objectives

Course Learning Outcomes
1. Describe the principles of pharmacokinetics and pharmacodynamics.

2. Instruct students to successfully perform drug dosing calculations.

VCLS7510 - Veterinary Microscopic Anatomy - 4 - Credits

Course Overview

Course Prefix
VCLS

Course Number
7510

Department
Veterinary Clinical & Life Sciences

Cross-Listed Courses
VM7510 - Veterinary Microscopic Anatomy

Course Title
Veterinary Microscopic Anatomy

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students learn essential information about the microscopic structure of cells, tissues, and organs of domestic animals.

Credit Hours

Credit Hours
Min:
4

Contact Hours

Contact Hours
Min:
4

Billing Hours

Billing Hours
Min:
4

Lecture Hours

Lecture Hours
Min:
4

Registration Restrictions
Admission to the Doctor of Veterinary Medicine (DVM) degree program, or a graduate program at USU

Special Approval
Instructor permission

No Requirements

Course Learning Objectives

Course Learning Outcomes
1. Recognize the various components of the cell through light microscopy and electron microscopy and be able to discuss the current fundamental concepts of cell structure and function.

2. Recognize and describe the cellular and extracellular composition of the basic tissues of the animal body and understand their functions and interrelationships.

3. Recognize, describe and be able to discuss the normal microscopic structure of the organs comprising the organ systems of the animal body and how the structures relate to their function(s).

4. Correlate the microscopic structure with the gross anatomy of domestic animals.

5. Correlate the microscopic structure with the function of the cells, tissues and organs of the animal body and logically consider the consequences of malfunction.

6. Recognize normal tissues and organs in comparison to tissues and organs with pathologic changes in subsequent pathology courses.

VCLS7511 - Veterinary Anatomy I - 5 - Credits

Course Overview

Course Prefix
VCLS

Course Number
7511

Department
Veterinary Clinical & Life Sciences

Cross-Listed Courses
VM7511 - Veterinary Anatomy I

Course Title
Veterinary Anatomy I

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students learn to recognize and identify anatomical structures using correct medical nomenclature, be able to describe normal function of structures, palpate structures to locate them in a live animal, identify structures on radiographic images, and predict and explain structural dysfunction.

Credit Hours

Credit Hours Min:
5

Contact Hours

Contact Hours Min:
5

Billing Hours

Billing Hours Min:
5

Lecture Hours

Lecture Hours Min:
5

Registration Restrictions
Admission to the Doctor of Veterinary Medicine (DVM) degree program, or a graduate program at USU.

Special Approval
Instructor permission

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Recognize and identify anatomical structures using correct medical nomenclature.

2. Be able to describe the normal function of these structures.

3. Palpate these structures and/or be able to indicate their location and extent in a

living

animal or on a radiographic image as appropriate

4. Predict and explain the likely consequences of structural dysfunction of these

structures.

5. Be able to make comparisons of structures between domestic species where applicable.

VCLS7519 - Veterinary Physiology I - 4 - Credits

Course Overview

Course Prefix
VCLS

Course Number
7519

Department
Veterinary Clinical & Life Sciences

Cross-Listed Courses
VM7519 - Veterinary Physiology I

Course Title
Veterinary Physiology I

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course focuses on basic mechanisms of cell physiology, especially on control of gene expression, intracellular signaling, cellular communication, the generation of ion gradients and membrane potentials, electrical signaling, and the role of enzymes, receptors, and structural components.

Credit Hours

Credit Hours
Min:
4

Contact Hours

Contact Hours
Min:
4

Billing Hours

Billing Hours
Min:
4

Lecture Hours

Lecture Hours
Min:
4

Registration Restrictions
Admission to the Doctor of Veterinary Medicine (DVM) degree program, or a graduate program at USU.

Special Approval
Instructor permission

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Describe foundational cellular structures and their functions.

2. Describe the principles of cellular and molecular biology that are related to the

veterinary medicine field.

3.Discuss clinically relevant cellular and metabolic processes.

VCLS7520 - Veterinary Physiology II - 5 - Credits

Course Overview

Course Prefix
VCLS

Course Number
7520

Department
Veterinary Clinical & Life Sciences

Course Title
Veterinary Physiology II

Grade Mode
Pass/Fail

Repeat Status
NR

Course Description
Students study functions of selected tissues and organs, how they arise from underlying cellular mechanisms, how individual organs are controlled to serve basal and changing body needs and how multiple organs interact in complementary ways to create systemic function and homeostasis.

Credit Hours

Credit Hours Min:
5

Contact Hours

Contact Hours Min:
5

Billing Hours

Billing Hours Min:
5

Lecture Hours

Lecture Hours Min:
5

No Requirements

Course Learning Objectives

Course Learning Outcomes
Course Learning Outcomes:

1. Students study functions of selected tissues and organs, how they arise from underlying cellular mechanisms, how individual organs are controlled to serve basal and changing body needs and how multiple organs interact in complementary ways to create systemic function and homeostasis.

VCLS7522 - Fundamentals of Pharmacology - 3 - Credits

Course Overview

Course Prefix
VCLS

Course Number
7522

Department
Veterinary Clinical & Life Sciences

Cross-Listed Courses
VM7522 - Fundamentals of Pharmacology

Course Title
Fundamentals of Pharmacology

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students learn the fundamentals of pharmacology, including pharmacokinetics (absorption, distribution, metabolism, excretion), receptor theory, and general mechanisms of drug action.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Registration Restrictions
Admission to the Doctor of Veterinary Medicine (DVM) degree program, or a graduate program at USU.

Special Approval
Instructor permission

No Requirements

Course Learning Objectives

Course Learning Outcomes
1. Explain the difference between targeted vs non-targeted drug mechanisms of action. Know the examples of targeted and non targeted mechanisms discussed in class and listed in the notes.

2. Be able to list the four classes of endogenous receptor proteins. Know an example of each mechanism and the relative speed by which each mechanism induces an effect.

VCLS7523 - Veterinary Toxicology - 3 - Credits

Course Overview

Course Prefix
VCLS

Course Number
7523

Department
Veterinary Clinical & Life Sciences

Course Title
Veterinary Toxicology

Grade Mode
Pass/Fail

Repeat Status
NR

Course Description
Students learn about pharmacology and toxicology of the systems of domestic animals.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Other Enrollment Recommendations
VM7522 FUNDAMENTALS OF PHARMACOLOGY

No Requirements

Course Learning Objectives

Course Learning Outcomes
Course Learning Outcomes:

1. Students learn about pharmacology and toxicology of the systems of domestic animals.

VCLS7534 - Veterinary Immunology - 3 - Credits

Course Overview

Course Prefix
VCLS

Course Number
7534

Department
Veterinary Clinical & Life Sciences

Course Title
Veterinary Immunology

Grade Mode
Pass/Fail

Repeat Status
NR

Course Description
Students learn the basic mechanisms of immunology with an emphasis on protective immunity against infectious diseases and the role of aberrant immune responses in disease. The goal of the course is for students to acquire a functional basis for medical immunology.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes
Course Learning Outcomes:

1. Students will acquire a functional basis for medical immunology.

VCLS7535 - Veterinary Virology - 3 - Credits

Course Overview

Course Prefix
VCLS

Course Number
7535

Department
Veterinary Clinical & Life Sciences

Cross-Listed Courses
VM7535 - Veterinary Virology

Course Title
Veterinary Virology

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students learn about viruses that produce diseases in animals.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Admission to the Doctor of Veterinary Medicine (DVM) degree program, or a graduate program at USU.

Special Approval
Instructor permission

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Describe concepts and perspective concerning the nature of viruses, the diseases they cause in animals (and in some cases, humans), and reservoirs that contribute to viral persistence and ongoing transmission.

2. Demonstrate the sources of viral infections and the risk of transmission from sources.

VCLS7536 - Veterinary Bacteriology - 4 - Credits

Course Overview

Course Prefix
VCLS

Course Number
7536

Department
Veterinary Clinical & Life Sciences

Cross-Listed Courses
VM7536 - Veterinary Bacteriology

Course Title
Veterinary Bacteriology

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students learn about bacteria that produce diseases in animals.

Credit Hours

Credit Hours
Min:
4

Contact Hours

Contact Hours
Min:
4

Billing Hours

Billing Hours
Min:
4

Lecture Hours

Lecture Hours
Min:
4

Registration Restrictions
Admission to the Doctor of Veterinary Medicine (DVM) degree program, or a graduate program at USU

Special Approval
Instructor permission

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Understand basic principles of the biology of bacterial and mycotic diseses.

2. Make well informed decisons about infectious disease diagnosis, treatment and prevention.

3. Make well informed decisions about microbiological dianositic tests, antibiotics, and vaccines.

VCLS7543 - Veterinary Medicine and Human Health - 2 - Credits

Course Overview

Course Prefix
VCLS

Course Number
7543

Department
Veterinary Clinical & Life Sciences

Course Title
Veterinary Medicine and Human Health

Grade Mode
Pass/Fail

Repeat Status
NR

Course Description
This course discusses the intersection between veterinary medicine and public health. An understanding of the contribution of the veterinary profession to human health enables students to play an effective role in public health.

Credit Hours

Credit Hours Min:
2

Contact Hours

Contact Hours Min:
2

Billing Hours

Billing Hours Min:
2

Lecture Hours

Lecture Hours Min:
2

No Requirements

Course Learning Objectives

Course Learning Outcomes
Course Learning Outcomes:

1. Students will develop an understanding of how the veterinary profession contributes to human health, enabling students to play an effective role in public health.

VCLS7545 - General Pathology - 3 - Credits

Course Overview

Course Prefix
VCLS

Course Number
7545

Department
Veterinary Clinical & Life Sciences

Course Title
General Pathology

Grade Mode
Pass/Fail

Repeat Status
NR

Course Description
Students learn to recognize and distinguish normal tissue findings from abnormal ones at the gross and microscopic levels, describe abnormalities using accurate oral and written descriptions, develop a working vocabulary of pathology-related terms and interpret abnormal findings based on pathogenic mechanisms.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes
Course Learning Outcomes:

1. Students will learn to recognize and distinguish normal tissue findings from abnormal ones at the gross and microscopic levels, describe abnormalities using accurate oral and written descriptions, develop a working vocabulary of pathology-related terms and interpret abnormal findings on the basis of pathogenic mechanisms.

VCLS7546 - Systemic Pathology - 6 - Credits

Course Overview

Course Prefix
VCLS

Course Number
7546

Department
Veterinary Clinical & Life Sciences

Cross-Listed Courses
VM7546 - Systemic Pathology

Course Title
Systemic Pathology

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students learn the principles of system and organ response to injury, and the effects of injury/disease on the animal host.

Credit Hours

Credit Hours
Min:
6

Contact Hours

Contact Hours
Min:
6

Billing Hours

Billing Hours
Min:
6

Lecture Hours

Lecture Hours
Min:
6

Registration Restrictions
Admission to the Doctor of Veterinary Medicine (DVM) degree program, or a graduate program at USU.

Special Approval
Instructor permission

No Requirements

Course Learning Objectives

Course Learning Outcomes
1. Students will learn the principles of system and organ response to injury, and the effects of injury/disease on the animal host.

VCLS7585 - Epidemiology - 2 - Credits

Course Overview

Course Prefix
VCLS

Course Number
7585

Department
Veterinary Clinical & Life Sciences

Course Title
Epidemiology

Grade Mode
Pass/Fail

Repeat Status
NR

Course Description
Students are expected to do a minimally quantitative survey in which health is framed as a population phenomenon.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

No Requirements

Course Learning Objectives

Course Learning Outcomes
Course Learning Outcomes:

1. Students are expected to do a minimally quantitative survey in which health is framed as a population phenomenon.

VCLS7602 - Leadership Principles for Biomedical Scientists and Veterinarians - 1 - Credits

Course Overview

Course Prefix
VCLS

Course Number
7602

Department
Veterinary Clinical & Life Sciences

Cross-Listed Courses
VM7602 - Leadership Principles for Biomedical Scientists and Veterinarians

Course Title
Leadership Principles for Biomedical Scientists and Veterinarians

Grade Mode
Pass/Fail

Repeat Status
NR

Course Description
This course aims to equip veterinary professionals and biomedical scientists with the leadership principles skills necessary to create positive change within their professional sphere of influence as well as in the broader community.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

VCLS7680 - Seminar in Veterinary Pathology and Histopathology - 3 - Credits

Course Overview

Course Prefix
VCLS

Course Number
7680

Department
Veterinary Clinical & Life Sciences

Course Title
Seminar in Veterinary Pathology and Histopathology

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
The goal of this course is to develop advanced histopathology skills as well as critical thinking skills. This course is intended for advanced graduate students and veterinary pathology residents.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Special Approval
Instructor permission

Other Enrollment Recommendations
Doctor of Veterinary Medicine (DVM) degree and advanced knowledge in pathology.

Course Learning Objectives

Course Learning Outcomes
1. The overall objective is to provide advanced training leading to proficiency in the practice of veterinary anatomic pathology, and, ultimately, to board certification by the American College of Veterinary Pathologists (ACVP).

VCLS7970 - Veterinary Clinical and Life Sciences Dissertation Research - 1 - 12 Credits

Course Overview

Course Prefix
VCLS

Course Number
7970

Department
Veterinary Clinical & Life Sciences

Course Title
Veterinary Clinical and Life Sciences Dissertation Research

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
Students perform supervised research for credit towards their graduation with a PhD in Biomedical Sciences.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
12

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
12

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
12

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
12

Lecture Hours Operator:
TO

Registration Restrictions
Admission to the Biomedical Sciences - PhD program

Course Learning Objectives

Course Learning Outcomes

1. Understand and practice experimental design.

2. Data collection and analysis.

3. Data interpretation in a research setting.

VM6100 - Biomedical and Life Sciences Series - 1 - Credits

Course Overview

Course Prefix
VM

Course Number
6100

Department
College of Veterinary Medicine

Cross-Listed Courses
VCLS6100 - Biomedical and Life Sciences Seminar Series

Course Title
Biomedical and Life Sciences Series

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
This graduate seminar course features lectures by regional and national experts in biomedical and life science research areas relevant to USU projects. The seminar fosters critical thinking and facilitates reflections on new research concepts, research study design and science communication.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Registration Restrictions
Must be admitted to the Doctor of Veterinary Medicine - DVM program.

Course Learning Objectives

Course Learning Outcomes
By the end of this course, you will:

1. Have learned about current biomedical and life science research first-hand by hearing from the experts.
2. Had the opportunity to interact with biomedical researchers outside your primary field of research.
3. Analyzed and evaluated scientific research talks - extracted main messages and new concepts.
4. Reflected on research topics that are new and not directly related to your own primary research.
5. Created concise accurate written summaries of newly learned scientific concepts

VM7001 - Clinical Skills I - 2 - Credits

Course Overview

Course Prefix
VM

Course Number
7001

Department
College of Veterinary Medicine

Course Title
Clinical Skills I

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students learn and practice foundational clinical veterinary skills and techniques such as restraint, physical examination, diagnostic procedures, surgical techniques, and therapeutic skills. Learning activities focus on basic knowledge, clinical reasoning, skills, and competencies.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Course Learning Objectives

Course Learning Outcomes

1. Recognize and demonstrate appropriate restraint, physical exams, and procedures in a variety of animal species.

2. Identify the steps of a specialized physical exam of the musculoskeletal, nervous, and cardiovascular systems.

3. Describe basic diagnostic procedures and therapeutic skills for the musculoskeletal, nervous, and cardiovascular systems.

4. Demonstrate and understand the use of basic surgical techniques and principles including asepsis, instrument handling, and suturing.

5. Recognize basic anatomical structures using radiology and ultrasound imaging of the musculoskeletal, nervous, and cardiovascular systems.

VM7002 - Clinical Skills II - 2 - Credits

Course Overview

Course Prefix
VM

Course Number
7002

Department
College of Veterinary Medicine

Course Title
Clinical Skills II

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
A continuation of Clinical Skills I, students learn and practice foundational clinical veterinary skills and techniques such as restraint, physical examination, diagnostic procedures, surgical techniques, and therapeutic skills.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Course Learning Objectives

Course Learning Outcomes

1. Recognize and demonstrate appropriate restraint, physical exams, and procedures in a variety of animal species.

2. Identify the steps of a specialized physical exam of the respiratory, urinary, gastrointestinal, endocrine, and reproductive systems.

3. Describe basic diagnostic procedures and therapeutic skills in respiratory, urinary, gastrointestinal, endocrine, and reproductive systems.

4. Integrate basic surgical techniques and principles to perform basic procedures.

5. Recognize basic anatomical structures using radiology and ultrasound imaging of the respiratory, urinary, gastrointestinal, endocrine, and reproductive systems.

6. Identify the cell type and tissue of the respiratory, urinary, gastrointestinal, endocrine, and reproductive systems on histopathology slides

7. Recognize and compare the common diagnostic assays available.

8. Morphological diagnoses, recall steps of a field necropsy.

VM7003 - Clinical Skills III - 2 - Credits

Course Overview

Course Prefix
VM

Course Number
7003

Department
Veterinary Clinical & Life Sciences

Course Title
Clinical Skills III

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Building on prior Clinical Skills, students learn and practice intermediate clinical veterinary skills and techniques such as advanced physical examinations, restraint, diagnostic procedures, surgical techniques, anesthesia, analgesia, and therapeutic skills. Previously acquired skills will be reinforced and refined.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Course Learning Objectives

Course Learning Outcomes
1. Describe and demonstrate intermediate surgical techniques.
2. Describe intermediate techniques of restraint, physical examinations, diagnostic procedures, therapeutic skills, anesthesia, analgesia.
3. Describe processes of advanced physical examinations.
4.Perform and interpret diagnostic procedures including clinical pathology, systemic pathology, bacteriology, and parasitology methods.

VM7004 - Clinical Skills IV - 2 - Credits

Course Overview

Course Prefix
VM

Course Number
7004

Department
Veterinary Clinical & Life Sciences

Course Title
Clinical Skills IV

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Building on prior Clinical Skills, students learn and practice intermediate clinical veterinary skills and techniques such as advanced physical examinations, restraint, diagnostic procedures, surgical techniques, anesthesia, analgesia, and therapeutic skills. Previously acquired skills will be reinforced and refined.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Course Learning Objectives

Course Learning Outcomes
1. Describe and demonstrate intermediate surgical techniques.
2. Describe intermediate techniques of restraint, physical examinations, diagnostic procedures, therapeutic skills, anesthesia, analgesia.
3. Describe processes of advanced physical examinations.
4. Perform and interpret diagnostic procedures including clinical pathology, systemic pathology, bacteriology, and parasitology methods.

VM7011 - Professional Skills I - 2 - Credits

Course Overview

Course Prefix
VM

Course Number
7011

Department
College of Veterinary Medicine

Course Title
Professional Skills I

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students acquire knowledge and skills in communication, clinical reasoning, evidence-based veterinary medicine, ethical decision-making, and wellness. Students communicate and collaborate in team based learning activities.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Course Learning Objectives

Course Learning Outcomes

1. Describe professional identity and the alignment of roles, responsibilities, values, ethical standards, and practices that are pertinent to the current field of veterinary medicine.

2. Identify practices proven effective and related to self-care and renewal.

3. Identify the information needed to gather a complete history and basic communication skills.

4. Outline the clinical reasoning process and develop problem lists.

5. Apply a framework for ethical decision making.

6. Use a literature search to answer questions.

VM7012 - Professional Skills II - 2 - Credits

Course Overview

Course Prefix
VM

Course Number
7012

Department
Veterinary Clinical & Life Sciences

Course Title
Professional Skills II

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Building on Professional Skills 1, this course deepens essential veterinary competencies through lectures, case studies, and discussions, covering personal wellness, clinical reasoning, communication, financial wellness, and career exploration, while examining diverse pathways like practice ownership, corporate roles, and specialties.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Course Learning Objectives

Course Learning Outcomes

1. Describe unique career pathways in Veterinary Medicine.
2. Identify strategies for Personal Financial Literacy.
3. Identify practices proven effective to promote resilience and self-care.
4. Expand knowledge of the clinical reasoning framework with integration of self-reflection.
5. Demonstrate evidence-based communication skills in collaborative learning activities.

VM7013 - Professional Skills III - 2 - Credits

Course Overview

Course Prefix
VM

Course Number
7013

Department
Veterinary Clinical & Life Sciences

Course Title
Professional Skills III

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students build on prior professional skills through small group activities and simulated client encounters, focusing on relationship-centered care, information gathering, relationship building, planning, feedback, self-reflection, and exploring our perceptions affecting our communication and case management.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Course Learning Objectives

Course Learning Outcomes

1. Apply evidence-based communication skills to obtain a thorough history and build a relationship with a client through a well-structured interview.
2. Identify resources and strategies to promote resilience .
3. Demonstrate professionalism with simulated clients, facilitator, and peers.
4. Demonstrates the ability to provide objective feedback to others.
5. Show ability to engage in reflective practice and adjust course of action.
6. Identify contextual factors which affect case management.

VM7014 - Professional Skills IV - 2 - Credits

Course Overview

Course Prefix
VM

Course Number
7014

Department
Veterinary Clinical & Life Sciences

Course Title
Professional Skills IV

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students build on Professional Skills 3 through simulated client encounters, with emphasis on explanation and planning to promote relationship centered care. We explore challenging situations while continuing to practice feedback techniques and self-reflection.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Course Learning Objectives

Course Learning Outcomes

1. Apply evidence-based communication skills with emphasis seeking client perspective, explain and plan, attending to relationships, and structure.
2. Identify resources and strategies to promote resilience.
3. Demonstrate professionalism with simulated clients, facilitator, and peers.
4. Demonstrate the ability to provide objective feedback to others and show ability to engage in reflective practice and adjust course of action.
5. Identify contextual factors which affect case management.
6. Identify skills to be used in a wide range of complex situations.

VM7021 - Thinking Like A Veterinarian I - 1 - Credits

Course Overview

Course Prefix
VM

Course Number
7021

Department
College of Veterinary Medicine

Course Title
Thinking Like A Veterinarian I

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
In this case and problem-based course, students put into practice what they have learned in other courses. By working through a series of simulated clinical cases, students become familiar with information gathering, physical examinations, basic communication skills, etc.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

VM7022 - Thinking Like a Veterinarian II - 1 - Credits

Course Overview

Course Prefix
VM

Course Number
7022

Department
College of Veterinary Medicine

Course Title
Thinking Like a Veterinarian II

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
In this case and problem-based course, students put into practice what they have learned in other courses. By working through a series of simulated clinical cases, students become familiar with information gathering, physical examinations, basic communication skills, etc.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Course Learning Objectives

Course Learning Outcomes

1. Generating a problem list based on history and physical exam findings.

2. Learning how to build a differential diagnosis list.

3. Beginning to practice clinical decision-making process/skills.

4. Beginning to demonstrate accurate, practical, and efficient case management.

5. Practicing communicating professionally with clients, colleagues, and while presenting and/or referring cases or providing feedback to peers and clients.

6. Practicing medical note writing skills.

7. Developing skills to review peer reviewed literature.

VM7023 - Thinking Like a Veterinarian III - 1 - Credits

Course Overview

Course Prefix
VM

Course Number
7023

Department
Veterinary Clinical & Life Sciences

Course Title
Thinking Like a Veterinarian III

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
In this case and problem-based course, students put into practice what they have learned in other courses. By working through a series of simulated clinical cases, students become familiar with information gathering, physical examinations, basic communication skills, etc.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Course Learning Objectives

Course Learning Outcomes

Successfully utilize the clinical reasoning approach when tackling veterinary clinical cases by:

1. Generating a problem list based on history and physical exam findings.
2. Learning how to build a differential diagnosis list.
3. Beginning to practice clinical decision-making process/skills.
4. Beginning to demonstrate accurate, practical, and efficient case management, including practicing medical note writing skills.
5. Practicing communicating professionally with clients, colleagues, and while presenting and/or referring cases or providing feedback to peers and clients.
6. Developing skills to review peer reviewed literature

VM7024 - Thinking Like a Veterinarian IV - 1 - Credits

Course Overview

Course Prefix
VM

Course Number
7024

Department
Veterinary Clinical & Life Sciences

Course Title
Thinking Like a Veterinarian IV

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
In this case and problem-based course, students put into practice what they have learned in other courses. By working through a series of simulated clinical cases, students become familiar with information gathering, physical examinations, basic communication skills, etc.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Course Learning Objectives

Course Learning Outcomes

Successfully utilize the clinical reasoning approach when tackling veterinary clinical cases by:

1. Generating a problem list based on history and physical exam findings.
2. Learning how to build a differential diagnosis list.
3. Beginning to practice clinical decision-making process/skills.
4. Beginning to demonstrate accurate, practical, and efficient case management, including practicing medical note writing skills.
5. Practicing communicating professionally with clients, colleagues, and while presenting and/or referring cases or providing feedback to peers and clients.
6. Developing skills to review peer reviewed literature.

VM7031 - Exploration of Post-DVM Career Opportunities I - 0.5 - Credits

Course Overview

Course Prefix
VM

Course Number
7031

Department
College of Veterinary Medicine

Course Title
Exploration of Post-DVM Career Opportunities I

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces veterinary students to diverse career opportunities available beyond traditional clinical practice. Through interactions with post-graduate trainees, including veterinary interns and residents, and graduate students, veterinary students gain insights into various professional pathways.

Credit Hours

Credit Hours
Min:
0.5

Contact Hours

Contact Hours
Min:
0.5

Billing Hours

Billing Hours
Min:
0.5

Lecture Hours

Lecture Hours
Min:
0.5

Course Learning Objectives

Course Learning Outcomes

1. Explore diverse career pathways available to veterinarians beyond general clinical practice.

2. Assess personal interests and align them with suitable career opportunities.

3. Build and strengthen professional networks to support career development.

4. Develop a flexible, actionable career plan that acknowledges constant change by preparing students to recognize and adapt to emerging opportunities.

VM7032 - Exploration of Post-DVM Career Opportunities II - 0.5 - Credits

Course Overview

Course Prefix
VM

Course Number
7032

Department
College of Veterinary Medicine

Course Title
Exploration of Post-DVM Career Opportunities II

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces veterinary students to diverse career opportunities available beyond traditional clinical practice. Through interactions with post-graduate trainees, including veterinary interns and residents, and graduate students, veterinary students gain insights into various professional pathways.

Credit Hours

Credit Hours
Min:
0.5

Contact Hours

Contact Hours
Min:
0.5

Billing Hours

Billing Hours
Min:
0.5

Lecture Hours

Lecture Hours
Min:
0.5

Course Learning Objectives

Course Learning Outcomes

1. Explore diverse career pathways available to veterinarians beyond general clinical practice.

2. Assess personal interests and align them with suitable career opportunities.

3. Build and strengthen professional networks to support career development.

4. Develop a flexible, actionable career plan that acknowledges constant change by preparing students to recognize and adapt to emerging opportunities.

VM7033 - Exploration of Post-DVM Career Opportunities III - 0.5 - Credits

Course Overview

Course Prefix
VM

Course Number
7033

Department
Veterinary Clinical & Life Sciences

Course Title
Exploration of Post-DVM Career Opportunities III

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces veterinary students to diverse career opportunities available beyond traditional clinical practice. Through interactions with post-graduate trainees, including veterinary interns and residents, and graduate students, veterinary students gain insights into various professional pathways.

Credit Hours

Credit Hours
Min:
0.5

Contact Hours

Contact Hours
Min:
0.5

Billing Hours

Billing Hours
Min:
0.5

Lecture Hours

Lecture Hours
Min:
0.5

Course Learning Objectives

Course Learning Outcomes

1. Explain the wide range of career pathways available to veterinarians beyond general clinical practice.
2. Reflect on personal interests and align them with suitable career opportunities.
3. Build and strengthen professional networks to support career development.
4. Develop a flexible, actionable career plan that acknowledges constant change by preparing students to recognize and adapt to emerging opportunities.

VM7034 - Exploration of Post-DVM Career Opportunities IV - 0.5 - Credits

Course Overview

Course Prefix
VM

Course Number
7034

Department
Veterinary Clinical & Life Sciences

Course Title
Exploration of Post-DVM Career Opportunities IV

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces veterinary students to diverse career opportunities available beyond traditional clinical practice. Through interactions with post-graduate trainees, including veterinary interns and residents, and graduate students, veterinary students gain insights into various professional pathways.

Credit Hours

Credit Hours
Min:
0.5

Contact Hours

Contact Hours
Min:
0.5

Billing Hours

Billing Hours
Min:
0.5

Lecture Hours

Lecture Hours
Min:
0.5

Course Learning Objectives

Course Learning Outcomes

1. Explain the wide range of career pathways available to veterinarians beyond general clinical practice.
2. Reflect on personal interests and align them with suitable career opportunities.
3. Build and strengthen professional networks to support career development.
4. Develop a flexible, actionable career plan that acknowledges constant change by preparing students to recognize and adapt to emerging opportunities.

VM7101 - Cell Biology and Metabolism - 3 - Credits

Course Overview

Course Prefix
VM

Course Number
7101

Department
College of Veterinary Medicine

Cross-Listed Courses
VCLS7101 - Cell Biology and Metabolism

Course Title
Cell Biology and Metabolism

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides a foundation of cellular structures and their functions. Principles of cellular and molecular biology as related to veterinary medicine are discussed. In addition, clinically relevant cellular and animal metabolic processes will be taught.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Course Learning Objectives

Course Learning Outcomes
1. Recognize the various components of the cell through light microscopy and electron microscopy and be able to discuss the current fundamental concepts of cell structure and function.
2. Recognize and describe the cellular and extracellular composition of the basic tissues of the animal body and understand their functions and interrelationships.
3. Discuss how abnormalities in cell function and structure relate to malfunction of organs, tissues and disease presentation.
4. Correlate the microscopic structure with the function of the cells, tissues and organs of the animal body and logically consider the consequences of malfunction.

VM7111 - Animal Systems and the Veterinary Profession - 2 - Credits

Course Overview

Course Prefix
VM

Course Number
7111

Department
College of Veterinary Medicine

Course Title
Animal Systems and the Veterinary Profession

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides veterinary students the opportunity to become familiar with different animal industries and the role that veterinarians play in promoting the success and sustainability of these industries through preventative practices and advocating for animal welfare.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Course Learning Objectives

Course Learning Outcomes
1. Describe the defining aspects and differences of the different animal industries (beef cattle, dairy cattle, sheep, equine, poultry, swine, etc.).

2. Utilize essential terminology for each animal industry.

3. Describe the role that veterinarians play in promoting the success and sustainability of these industries.

VM7121 - Form and Function- Musculoskeletal System - 5 - Credits

Course Overview

Course Prefix
VM

Course Number
7121

Department
College of Veterinary Medicine

Course Title
Form and Function- Musculoskeletal System

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides an integrated systems-based foundation in the musculoskeletal system's anatomy, histology, and physiology. This course uses a combination of lectures, active learning activities, cases, and laboratories.

Credit Hours

Credit Hours Min:
5

Contact Hours

Contact Hours Min:
5

Billing Hours

Billing Hours Min:
5

Lecture Hours

Lecture Hours Min:
5

Course Learning Objectives

Course Learning Outcomes

1. Learn the correct vocabulary to identify microscopic and gross anatomical structures as well as develop fluency with the scientific and medical terminology, and appropriate lay terminology, to begin fostering the skills necessary to communicate with educators, peers, colleagues, and clients.

2. Recognize, describe, and be able to discuss the normal microscopic and gross anatomy of organs and organ systems and how the structure relates to their functions.

3. Discuss the current fundamental concepts of cell structure and function, control, and interactions of organs and tissues, as well as the broad aspects of physiology as they relate to physiological adaptation.

4. Use light and electron microscopy along with gross dissection to recognize and identify and correlate the components of cells, tissues, and organs of the animal body.

5. Recognize and describe the cellular and extracellular composition of the basic tissues of the animal body and understand their functions and interrelationships.

6. Begin to logically predict, explain, and visualize the consequences of dysfunction of cells, tissues, organs, and physiologic processes. Provide clinical contexts to make the importance of normal anatomic structures meaningful. It is important to know the normal anatomy before you can begin to understand the consequences of abnormal anatomy (e.g. pathology).

VM7122 - Form and Function- Nervous System - 3 - Credits

Course Overview

Course Prefix
VM

Course Number
7122

Department
College of Veterinary Medicine

Course Title
Form and Function- Nervous System

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides an integrated systems-based foundation in the nervous system's anatomy, histology, and physiology. This course uses a combination of lectures, active learning activities, cases, and laboratories.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Course Learning Objectives

Course Learning Outcomes

1. Describe the development of fetal tissues, organs, and structures of the neurological system.

2. Articulate how and why anatomical, histological, and physiological disturbances affect the neurological system and lead to disorders.

3. Describe the clinically relevant structures, tissues, and physiological mechanisms of the neurological system.

VM7123 - Form and Function- Cardiovascular System - 2 - Credits

Course Overview

Course Prefix
VM

Course Number
7123

Department
College of Veterinary Medicine

Course Title
Form and Function- Cardiovascular System

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides an integrated systems-based foundation in the cardiovascular system anatomy, histology, and physiology. This course offers a combination of lectures, active learning activities, cases, and laboratories.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Course Learning Objectives

Course Learning Outcomes

1. Describe the development of fetal tissues, organs, and structures of the cardiovascular system.

2. Articulate how and why anatomical, histological, and physiological disturbances affect the cardiovascular system and lead to disorders.

3. Describe the clinically relevant structures, tissues, and physiological mechanisms of the cardiovascular system.

VM7124 - Form and Function - Respiratory - 1 - Credits

Course Overview

Course Prefix
VM

Course Number
7124

Department
College of Veterinary Medicine

Course Title
Form and Function - Respiratory

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides an integrated systems-based foundation in anatomy, histology, and physiology of the respiratory system. The development of fetal tissues, organs, and structures is discussed. Emphasis is given to clinically relevant structures, tissues, and physiological mechanisms.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Course Learning Objectives

Course Learning Outcomes

1. Describe the development of fetal tissues, organs, and structures of the respiratory system.

2. Articulate how and why anatomical, histological, and physiological disturbances affect the respiratory system and lead to disorders.

3. Describe the clinically relevant structures, tissues, and physiological mechanisms of the respiratory system.

VM7125 - Form and Function - Urinary - 2 - Credits

Course Overview

Course Prefix
VM

Course Number
7125

Department
College of Veterinary Medicine

Course Title
Form and Function - Urinary

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides an integrated systems-based foundation in anatomy, histology, and physiology of the urinary system. The development of fetal tissues, organs, and structures is discussed. Emphasis is given to clinically relevant structures, tissues, and physiological mechanisms.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Course Learning Objectives

Course Learning Outcomes

1. Describe the development of fetal tissues, organs, and structures of the urinary system.
2. Articulate how and why anatomical, histological, and physiological disturbances affect the urinary system and lead to disorders.
3. Describe the clinically relevant structures, tissues, and physiological mechanisms of the urinary system.

VM7126 - Form and Function - Gastrointestinal - 2 - Credits

Course Overview

Course Prefix
VM

Course Number
7126

Department
College of Veterinary Medicine

Course Title
Form and Function - Gastrointestinal

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides an integrated systems-based foundation in anatomy, histology, and physiology of the gastrointestinal system. The development of fetal tissues, organs, and structures is discussed. Emphasis is given to clinically relevant structures, tissues, and physiological mechanisms.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Course Learning Objectives

Course Learning Outcomes

1. Describe the development of fetal tissues, organs, and structures of the gastrointestinal system.

2. Articulate how and why anatomical, histological, and physiological disturbances affect the gastrointestinal system and lead to disorders.

3. Describe the clinically relevant structures, tissues, and physiological mechanisms of the gastrointestinal system.

VM7127 - Form and Function - Endocrine/ Reproductive - 2 - Credits

Course Overview

Course Prefix
VM

Course Number
7127

Department
College of Veterinary Medicine

Course Title
Form and Function - Endocrine/Reproductive

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides an integrated systems-based foundation in anatomy, histology, and physiology of the endocrine and reproductive systems. It discusses the development of fetal tissues, organs, and structures, emphasizing clinically relevant structures, tissues, and physiological mechanisms

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Course Learning Objectives

Course Learning Outcomes

1. Describe the development of fetal tissues, organs, and structures of the endocrine and reproductive systems.

2. Articulate how and why anatomical, histological, and physiological disturbances affect the endocrine and reproductive systems and lead to disorders.

3. Describe the clinically relevant structures, tissues, and physiological mechanisms of the endocrine and reproductive systems.

VM7128 - Form and Function - Zoological Companion Animals - 1 - Credits

Course Overview

Course Prefix
VM

Course Number
7128

Department
College of Veterinary Medicine

Course Title
Form and Function - Zoological Companion Animals

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course aims to provide foundational knowledge of the anatomical and functional differences between domestic animals and small mammalian, reptilian, “exotic”, and avian species. Emphasis is given to clinically relevant structures, tissues, and physiological mechanisms.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Course Learning Objectives

Course Learning Outcomes

1. Describe the development of important fetal tissues, organs, and structures of exotic animals.

2. Articulate how and why anatomical, histological, and physiological disturbances affect exotic animals and lead to disorders.

3. Describe the clinically relevant structures, tissues, and physiological mechanisms found in exotic animals.

VM7132 - General Pathology - 3 - Credits

Course Overview

Course Prefix
VM

Course Number
7132

Department
College of Veterinary Medicine

Cross-Listed Courses
VCLS7132 - General Pathology

Course Title
General Pathology

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides a foundation for the molecular and biological processes underlying animal disease. Students learn to describe common gross and microscopic lesions using medical terminology and develop an understanding of lesion development and associations between host, pathogens, and environment.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Course Learning Objectives

Course Learning Outcomes

1. Describe the molecular and biological mechanisms underlying animal diseases and their roles in disease progression.

2. Recognize and classify common gross and microscopic lesions associated with animal diseases.

3. Describe gross and microscopic lesions using appropriate medical terminology.

4. Analyze the processes of lesion development and progression in animal tissues.

5. Explain the dynamic relationships between the host, pathogens, and environmental factors that contribute to the development of animal diseases.

VM7142 - Agents of Infection and Immunity - 3 - Credits

Course Overview

Course Prefix
VM

Course Number
7142

Department
College of Veterinary Medicine

Cross-Listed Courses
VCLS7142 - Agents of Infection and Immunity

Course Title
Agents of Infection and Immunity

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course focuses on the basic mechanisms of veterinary immunology with an emphasis on protective immunity against infectious diseases and the role of aberrant immune responses in disease. In this course, students acquire a functional basis in clinical immunology.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Course Learning Objectives

Course Learning Outcomes
1. Describe the basic mechanisms of veterinary immunology and the main characteristics of viruses, bacteria, protozoa and helminths.
2. Describe protective immunity against infectious diseases and the role of aberrant immune responses in disease.
3. List the components of the innate immune system and explain their functions.
4. Describe the components of the adaptive immune system, how B and T cells develop at a cellular and molecular level, how they recognize and respond to antigen.
5. Articulate how innate and adaptive immune components cooperate during immune responses and recognize the underlying molecules, cells and mechanisms involved in this response.
6. Apply the immunological concepts to explain the basis of: defense against infection, immunization, hypersensitivity, autoimmune disease, immunodeficiency and rejection of transplanted organs.

VM7162 - Fundamentals of Pharmacology - 1 - Credits

Course Overview

Course Prefix
VM

Course Number
7162

Department
College of Veterinary Medicine

Cross-Listed Courses
VCLS7162 - Fundamentals of Pharmacology

Course Title
Fundamentals of Pharmacology

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course is an introduction to pharmacology. Students are introduced to principles of pharmacology such as pharmacokinetics and pharmacodynamics as well as drug dosing calculations.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Course Learning Objectives

Course Learning Outcomes
1. Describe the principles of pharmacokinetics and pharmacodynamics.
2. Instruct students to successfully perform drug dosing calculations.

VM7172 - Principles of Nutrition - 2 - Credits

Course Overview

Course Prefix
VM

Course Number
7172

Department
College of Veterinary Medicine

Course Title
Principles of Nutrition

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides a general introduction to physiological processes associated with nutrition, the chemical composition of feedstuffs, nutritive requirements of domestic/production animals, clinical applications of nutrition, and an introduction to formulating and balancing rations for relevant animal species.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Course Learning Objectives

Course Learning Outcomes

1. Acquire a basic vocabulary of terms used in the nutrition field.

2. Understand the relationship between nutrition, anatomy, and physiology of domestic animals.

3. Understand the six major nutrient classes and the role each plays in meeting the specific nutrient requirements of each animal and/or stage of production.

4. Know how to read and understand nutrient requirement tables and feeding guidelines for each of the different domestic animal species.

5. Understand nutrition principles and feeding practices as they apply to a practicing veterinarian.

VM7221 - The Body in Disease 1 - 7 - Credits

Course Overview

Course Prefix
VM

Course Number
7221

Department
Veterinary Clinical & Life Sciences

Course Title
The Body in Disease 1

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Building on the Form and Function courses, this course integrates systemic pathology, clinical pathology, toxicology, virology, bacteriology, parasitology, pharmacology, and imaging to form an extensive understanding of the hematopoietic and gastrointestinal systems in disease and the interaction of these disciplines.

Credit Hours

Credit Hours
Min:
7

Contact Hours

Contact Hours
Min:
7

Billing Hours

Billing Hours
Min:
7

Lecture Hours

Lecture Hours
Min:
7

Course Learning Objectives

Course Learning Outcomes

1. Describe the major gross, histologic, and clinical pathologic lesions of diseases of the hematopoietic and gastrointestinal systems.
2. Describe the life cycles and pathogenesis of infectious diseases of the hematopoietic and gastrointestinal systems, including pertinent viruses, bacteria, and parasites.
3. Describe the major toxins and associated pathogenesis of the hematopoietic and gastrointestinal systems.
4. List the major pharmacological drugs or drug categories used in the hematopoietic and gastrointestinal systems, being able to describe the pharmacodynamics and pharmacokinetics of each drug.
5. Identify normal structures and features using common imaging modalities, and describe common lesions and changes within the hematopoietic and gastrointestinal systems.

VM7222 - The Body in Disease 2 - 6 - Credits

Course Overview

Course Prefix
VM

Course Number
7222

Department
Veterinary Clinical & Life Sciences

Course Title
The Body in Disease 2

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course integrates systemic pathology, clinical pathology, toxicology, virology, bacteriology, parasitology, pharmacology, and imaging to form an extensive understanding of the liver and pancreas, and the urinary, respiratory, cardiovascular, and nervous systems in disease, and the interaction of these disciplines.

Credit Hours

Credit Hours
Min:
6

Contact Hours

Contact Hours
Min:
6

Billing Hours

Billing Hours
Min:
6

Lecture Hours

Lecture Hours
Min:
6

Course Learning Objectives

Course Learning Outcomes

1. Describe the major gross, histologic, and clinical pathologic lesions of diseases of the hepatopancreatic, urinary, respiratory, cardiovascular, and nervous systems.
2. Describe the life cycles and pathogenesis of infectious diseases of the hepatopancreatic, urinary, respiratory, cardiovascular, and nervous systems, including pertinent viruses, bacteria, and parasites.
3. Describe the major toxins and associated pathogenesis of the hepatopancreatic, urinary, respiratory, cardiovascular, and nervous systems.
4. List the major pharmacological drugs or drug categories used in the hepatopancreatic, urinary, respiratory, cardiovascular, and nervous systems, being able to describe the pharmacodynamics and pharmacokinetics of each drug.
5. Identify normal structures and features using common imaging modalities, and describe common lesions and changes within the hepatopancreatic, urinary, respiratory, cardiovascular, and nervous systems.

VM7223 - The Body in Disease 3 - 5 - Credits

Course Overview

Course Prefix
VM

Course Number
7223

Department
Veterinary Clinical & Life Sciences

Course Title
The Body in Disease 3

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course integrates systemic pathology, clinical pathology, toxicology, virology, bacteriology, parasitology, pharmacology, and imaging to form an extensive understanding of the musculoskeletal, endocrine, and reproductive systems in disease and the interaction of these disciplines.

Credit Hours

Credit Hours
Min:
5

Contact Hours

Contact Hours
Min:
5

Billing Hours

Billing Hours
Min:
5

Lecture Hours

Lecture Hours
Min:
5

Course Learning Objectives

Course Learning Outcomes

1. Describe the major gross, histologic, and clinical pathologic lesions of diseases of the musculoskeletal, endocrine, and reproductive systems.
2. Describe the life cycles and pathogenesis of infectious diseases of the musculoskeletal, endocrine, and reproductive systems, including pertinent viruses, bacteria, and parasites.
3. Describe the major toxins and associated pathogenesis of the musculoskeletal, endocrine, and reproductive systems.
4. List the major pharmacological drugs or drug categories used in the musculoskeletal, endocrine, and reproductive systems, being able to describe the pharmacodynamics and pharmacokinetics of each drug.
5. Identify normal structures and features using common imaging modalities, and describe common lesions and changes within the musculoskeletal, endocrine, and reproductive systems.

VM7224 - The Body in Disease 4 - 3 - Credits

Course Overview

Course Prefix
VM

Course Number
7224

Department
Veterinary Clinical & Life Sciences

Course Title
The Body in Disease 4

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course integrates systemic pathology, clinical pathology, toxicology, virology, bacteriology, parasitology, pharmacology, and imaging to form an extensive understanding of the integument system and diseases that integrate multiple systems and do not have a predominant anatomical system.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Course Learning Objectives

Course Learning Outcomes

1. Describe the major gross, histologic, and clinical pathologic lesions of multisystemic diseases.
2. Describe the life cycles and pathogenesis of infectious diseases of multisystemic diseases, including pertinent viruses, bacteria, and parasites.
3. Describe the major toxins and associated pathogenesis of multisystemic diseases.
4. List the major pharmacological drugs or drug categories used multi-systemically, being able to describe the pharmacodynamics and pharmacokinetics of each drug.
5. Identify normal structures and features using common imaging modalities, and describe common lesions and changes within multisystemic diseases.

VM7242 - Anesthesia - 2 - Credits

Course Overview

Course Prefix
VM

Course Number
7242

Department
Veterinary Clinical & Life Sciences

Course Title
Anesthesia

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course discusses anesthetic techniques, equipment, and drugs for the domestic species in veterinary medicine. Students learn principles of general anesthesia, local anesthesia, risk assessment, and pain management.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Course Learning Objectives

Course Learning Outcomes

1. Describe the risk assessment performed for a healthy patient undergoing anesthesia, and adapt those principles to patients with complications or underlying disease.
2. Describe the common anesthetic drugs used in both local and general anesthesia, including pharmacodynamics, pharmacokinetics, and side effects.
3. Describe the common principles and machines used for general anesthesia, noting differences in species and inhalants used.
4. Describe the principles of local anesthetic blocks, the common locations by species, and the common drugs used in local blocks per species.
5. Describe basic and advanced pain management in both healthy and diseased patients, including pre- and post-operative care.
6. Recognize the most common complications from sedation and anesthesia and describe the appropriate response to manage or mitigate those complications.

VM7262 - Population Health - 4 - Credits

Course Overview

Course Prefix
VM

Course Number
7262

Department
Veterinary Clinical & Life Sciences

Course Title
Population Health

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course addresses animal population health and its integration with the health of the human population. Methods for managing, preventing and controlling health risks to human and animal populations will be presented in didactic teaching, active learning, and case-based learning.

Credit Hours

Credit Hours
Min:
4

Contact Hours

Contact Hours
Min:
4

Billing Hours

Billing Hours
Min:
4

Lecture Hours

Lecture Hours
Min:
4

Course Learning Objectives

Course Learning Outcomes
1. Describe the relationship between animal and human population health.
2. Using epidemiological statistics and critical thinking, describe the impact of disease in wild and companion animal populations and within food animal industries.
3. Describe methods for preventing and controlling health risks to human and animal populations.

VM7272 - Theriogenology I - 2 - Credits

Course Overview

Course Prefix
VM

Course Number
7272

Department
Veterinary Clinical & Life Sciences

Course Title
Theriogenology I

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course discusses the basic principles of reproductive management in the major agricultural species, particularly cattle and equids. Course directly correlates the normal physiology of each species with reproductive strategies and herd management.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Course Learning Objectives

Course Learning Outcomes
1. Describe the basic reproductive physiology of each large animal species.
2. Describe methods for equine estrus cycle manipulation and bovine ovulation synchronization.
3. Describe the parameters used to evaluate reproductive efficiency in cattle and horses.
4. Describe the components of a routine reproductive examination and a breeding soundness exam in each species .
5. Describe the components of a routine obstetric exam.

VM7350 - Skeletal Preparation - 1 - Credits

Course Overview

Course Prefix
VM

Course Number
7350

Department
College of Veterinary Medicine

Course Title
Skeletal Preparation

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
Students master techniques of skeletal preparation by undertaking and completing a project. The skeleton that is prepared becomes the property of the student. Registration is restricted to veterinary medical students.

Credit Hours

Credit Hours Min:
1

Contact Hours

Contact Hours Min:
1

Billing Hours

Billing Hours Min:
1

Lecture Hours

Lecture Hours Min:
1

Registration Restrictions

Admission to the Veterinary Medicine program

No Requirements

VM7500 - Animals, Society and the Veterinarian - 1 - Credits

Course Overview

Course Prefix
VM

Course Number
7500

Department
College of Veterinary Medicine

Course Title
Animals, Society and the Veterinarian

Grade Mode
Pass/Fail

Repeat Status
NR

Course Description
This course will provide students with an opportunity to learn and practice skill sets considered integral for success in the veterinary profession. Students will be trained to portray the "Gentle Doctor", who exhibits characteristics of compassion, expertise, humaneness, judgment, care, compassion and understanding.

Credit Hours

Credit Hours Min:
1

Contact Hours

Contact Hours Min:
1

Billing Hours

Billing Hours Min:
1

Lecture Hours

Lecture Hours Min:
1

No Requirements

VM7501 - International Veterinary Medicine - 1 - Credits

Course Overview

Course Prefix
VM

Course Number
7501

Department
College of Veterinary Medicine

Course Title
International Veterinary Medicine

Grade Mode
Pass/Fail

Repeat Status
NR

Course Description
This is an elective course for veterinary medical students and is a joint offering with Washington State University, College of Veterinary Medicine (WSU-CVM). The course covers important issues and constraints facing the global health community. This course is taught using distance education technology with lectures by faculty both from WSU-CVM and USU-SVM.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Registration Restrictions

Admission to the Veterinary Medicine program

No Requirements

VM7502 - Clinical Communication Skills - 1 - Credits

Course Overview

Course Prefix
VM

Course Number
7502

Department
College of Veterinary Medicine

Course Title
Clinical Communication Skills

Grade Mode
Pass/Fail

Repeat Status
NR

Course Description
Students will participate in exercises designed to enhance communication and relational skills.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Registration Restrictions

Admission to the Veterinary Medicine program

No Requirements

VM7504 - Global Field Studies - 1 - 6 Credits

Course Overview

Course Prefix
VM

Course Number
7504

Department
College of Veterinary Medicine

Course Title
Global Field Studies

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
Preceptorship in the US or overseas, under the direct supervision of a veterinarian, agriculture or public health professional. The experience must be related to international veterinary medicine.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
6

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
6

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
6

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
6

Lecture Hours Operator:
TO

Registration Restrictions
Admission to the Veterinary Medicine program

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- VM7501 - International Veterinary Medicine

VM7508 - Research Orientation - 1 - Credits

Course Overview

Course Prefix
VM

Course Number
7508

Department
College of Veterinary Medicine

Course Title
Research Orientation

Grade Mode
Pass/Fail

Repeat Status
NR

Course Description
This is an elective course for veterinary medical students and is a joint offering with Washington State University, College of Veterinary Medicine (WSU-CVM). The course introduces students to resources and important issues for identifying and developing focused areas in biomedical research. This course is taught using distance education technology with lectures by faculty from the WSU-CVM and USU-SVM.

Credit Hours

Credit Hours Min:
1

Contact Hours

Contact Hours Min:
1

Billing Hours

Billing Hours Min:
1

Lecture Hours

Lecture Hours Min:
1

Registration Restrictions
Admission to the Veterinary Medicine program

No Requirements

VM7509 - Research Issues, Ethics, and Literacy - 1 - Credits

Course Overview

Course Prefix
VM

Course Number
7509

Department
College of Veterinary Medicine

Course Title
Research Issues, Ethics, and Literacy

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
This is an elective course for veterinary students and is a joint offering with Washington State University, College of Veterinary Medicine (WSU-CVM). Philosophy and history of methodological, ethical and political issues relevant to biomedical research using selected monographs and essays. This course is taught using distance education technology with lectures by faculty from WSU-CVM and USU-SVM.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Registration Restrictions

Admission to the Veterinary Medicine program

No Requirements

VM7510 - Veterinary Microscopic Anatomy - 4 - Credits

Course Overview

Course Prefix
VM

Course Number
7510

Department
College of Veterinary Medicine

Cross-Listed Courses
VCLS7510 - Veterinary Microscopic Anatomy

Course Title
Veterinary Microscopic Anatomy

Grade Mode
Pass/Fail

Repeat Status
NR

Course Description
Students will learn essential information about the microscopic structure of cells, tissues and organs of domestic animals.

Credit Hours

Credit Hours
Min:
4

Contact Hours

Contact Hours
Min:
4

Billing Hours

Billing Hours
Min:
4

Lecture Hours

Lecture Hours
Min:
4

Registration Restrictions

Admission to the Doctor of Veterinary Medicine (DVM) degree program, or a graduate program at USU.

No Requirements

VM7511 - Veterinary Anatomy I - 5 - Credits

Course Overview

Course Prefix
VM

Course Number
7511

Department
College of Veterinary Medicine

Cross-Listed Courses
VCLS7511 - Veterinary Anatomy I

Course Title
Veterinary Anatomy I

Grade Mode
Pass/Fail

Repeat Status
NR

Course Description
Students learn to recognize and identify anatomical structures using correct medical nomenclature, be able to describe normal function of structures, palpate structures to locate them in a live animal, identify structures on radiographic images, and to predict and explain structural dysfunction.

Credit Hours

Credit Hours Min:
5

Contact Hours

Contact Hours Min:
5

Billing Hours

Billing Hours Min:
5

Lecture Hours

Lecture Hours Min:
5

Registration Restrictions

Admission to the Doctor of Veterinary Medicine (DVM) degree program, or a graduate program at USU.

No Requirements

VM7512 - Veterinary Anatomy II - 4 - Credits

Course Overview

Course Prefix
VM

Course Number
7512

Department
College of Veterinary Medicine

Course Title
Veterinary Anatomy II

Grade Mode
Pass/Fail

Repeat Status
NR

Course Description
Students will develop a strong base of information in functional anatomy and be able to visualize the three-dimensional structural organization of any region of the animal's body. Based upon this knowledge, a student will become self-confident in physical diagnosis, interpretation of radiographs, surgery, postmortem examination, etc.

Credit Hours

Credit Hours Min:
4

Contact Hours

Contact Hours Min:
4

Billing Hours

Billing Hours Min:
4

Lecture Hours

Lecture Hours Min:
4

Registration Restrictions

Admission to the Veterinary Medicine program

No Requirements

VM7519 - Veterinary Physiology I - 4 - Credits

Course Overview

Course Prefix
VM

Course Number
7519

Department
College of Veterinary Medicine

Cross-Listed Courses
VCLS7519 - Veterinary Physiology I

Course Title
Veterinary Physiology I

Grade Mode
Pass/Fail

Repeat Status
NR

Course Description
This course focuses on basic mechanisms of cell physiology, especially on control of gene expression, intracellular signaling, cellular communication, the generation of ion gradients and membrane potentials, electrical signaling, and the role of enzymes, receptors, and structural components.

Credit Hours

Credit Hours
Min:
4

Contact Hours

Contact Hours
Min:
4

Billing Hours

Billing Hours
Min:
4

Lecture Hours

Lecture Hours
Min:
4

Registration Restrictions

Admission to the Doctor of Veterinary Medicine (DVM) degree program, or a graduate program at USU.

No Requirements

VM7520 - Veterinary Physiology II - 5 - Credits

Course Overview

Course Prefix
VM

Course Number
7520

Department
College of Veterinary Medicine

Cross-Listed Courses
VCLS7520 - Veterinary Physiology II

Course Title
Veterinary Physiology II

Grade Mode
Pass/Fail

Repeat Status
NR

Course Description
Students will study the functions of selected tissues and organs, how these functions arise from underlying cellular mechanisms, how individual organs are controlled to serve basal and changing body needs and how multiple organs interact in complementary ways to bring about systemic function and homeostasis.

Credit Hours

Credit Hours
Min:
5

Contact Hours

Contact Hours
Min:
5

Billing Hours

Billing Hours
Min:
5

Lecture Hours

Lecture Hours
Min:
5

No Requirements

VM7521 - Foundations of Veterinary Neurology - 3 - Credits

Course Overview

Course Prefix
VM

Course Number
7521

Department
College of Veterinary Medicine

Course Title
Foundations of Veterinary Neurology

Grade Mode
Pass/Fail

Repeat Status
NR

Course Description
Students will gain a solid understanding of how the nervous system is arranged and works, to prepare them for clinical experiences in neurology and neurological diagnosis.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

VM7522 - Fundamentals of Pharmacology - 3 - Credits

Course Overview

Course Prefix
VM

Course Number
7522

Department
College of Veterinary Medicine

Cross-Listed Courses
VCLS7522 - Fundamentals of Pharmacology

Course Title
Fundamentals of Pharmacology

Grade Mode
Pass/Fail

Repeat Status
NR

Course Description
Students learn the fundamentals of pharmacology, including pharmacokinetics (absorption, distribution, metabolism, excretion), receptor theory, and general mechanisms of drug action.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Admission to the Doctor of Veterinary Medicine (DVM) degree program, or a graduate program at USU.

No Requirements

VM7523 - Veterinary Toxicology - 3 - Credits

Course Overview

Course Prefix
VM

Course Number
7523

Department
College of Veterinary Medicine

Course Title
Veterinary Toxicology

Grade Mode
Pass/Fail

Repeat Status
NR

Course Description
Students learn about pharmacology and toxicology of the systems of domestic animals.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Course Requirements

PREREQUISITES
Course Number 7522, Subject Code VM, Level GR, Grade GR

VM7534 - Veterinary Immunology - 3 - Credits

Course Overview

Course Prefix
VM

Course Number
7534

Department
College of Veterinary Medicine

Cross-Listed Courses
VCLS7534 - Veterinary Immunology

Course Title
Veterinary Immunology

Grade Mode
Pass/Fail

Repeat Status
NR

Course Description
Students learn the basic mechanisms of immunology with an emphasis on protective immunity against infectious diseases and the role of aberrant immune responses in disease. The goal of the course is for students to acquire a functional basis for medical immunology.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

VM7535 - Veterinary Virology - 3 - Credits

Course Overview

Course Prefix
VM

Course Number
7535

Department
College of Veterinary Medicine

Cross-Listed Courses
VCLS7535 - Veterinary Virology

Course Title
Veterinary Virology

Grade Mode
Pass/Fail

Repeat Status
NR

Course Description
Students learn about viruses that produce diseases in animals.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Admission to the Doctor of Veterinary Medicine (DVM) degree program, or a graduate program at USU.

No Requirements

VM7536 - Veterinary Bacteriology - 4 - Credits

Course Overview

Course Prefix
VM

Course Number
7536

Department
College of Veterinary Medicine

Cross-Listed Courses
VCLS7536 - Veterinary Bacteriology

Course Title
Veterinary Bacteriology

Grade Mode
Pass/Fail

Repeat Status
NR

Course Description
Students learn about bacteria that produce diseases in animals.

Credit Hours

Credit Hours
Min:
4

Contact Hours

Contact Hours
Min:
4

Billing Hours

Billing Hours
Min:
4

Lecture Hours

Lecture Hours
Min:
4

Registration Restrictions

Admission to the Doctor of Veterinary Medicine (DVM) degree program, or a graduate program at USU.

No Requirements

VM7537 - Veterinary Parasitology - 4 - Credits

Course Overview

Course Prefix
VM

Course Number
7537

Department
College of Veterinary Medicine

Course Title
Veterinary Parasitology

Grade Mode
Pass/Fail

Repeat Status
NR

Course Description
Students will learn about arthropods, protozoa, and helminths of veterinary importance; their host-parasite relationship and control.

Credit Hours

Credit Hours Min:
4

Contact Hours

Contact Hours Min:
4

Billing Hours

Billing Hours Min:
4

Lecture Hours

Lecture Hours Min:
4

Registration Restrictions

Admission to the Veterinary Medicine program

No Requirements

VM7543 - Veterinary Medicine and Human Health - 2 - Credits

Course Overview

Course Prefix
VM

Course Number
7543

Department
College of Veterinary Medicine

Course Title
Veterinary Medicine and Human Health

Grade Mode
Pass/Fail

Repeat Status
NR

Course Description
This course discusses the intersection between veterinary medicine and public health. An understanding of the contribution of the veterinary profession to human health enables students to play an effective role in public health.

Credit Hours

Credit Hours Min:
2

Contact Hours

Contact Hours Min:
2

Billing Hours

Billing Hours Min:
2

Lecture Hours

Lecture Hours Min:
2

VM7545 - General Pathology - 3 - Credits

Course Overview

Course Prefix
VM

Course Number
7545

Department
College of Veterinary Medicine

Cross-Listed Courses
VCLS7545 - General Pathology

Course Title
General Pathology

Grade Mode
Pass/Fail

Repeat Status
NR

Course Description
Students learn to recognize and distinguish normal tissue findings from abnormal ones at the gross and microscopic levels, describe abnormalities using accurate oral and written descriptions, develop a working vocabulary of pathology-related terms and interpret abnormal findings based on pathogenic mechanisms.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

VM7546 - Systemic Pathology - 6 - Credits

Course Overview

Course Prefix
VM

Course Number
7546

Department
College of Veterinary Medicine

Cross-Listed Courses
VCLS7546 - Systemic Pathology

Course Title
Systemic Pathology

Grade Mode
Pass/Fail

Repeat Status
NR

Course Description
Students learn the principles of system and organ response to injury, and the effects of injury/disease on the animal host.

Credit Hours

Credit Hours Min:
6

Contact Hours

Contact Hours Min:
6

Billing Hours

Billing Hours Min:
6

Lecture Hours

Lecture Hours Min:
6

Registration Restrictions

Admission to the Doctor of Veterinary Medicine (DVM) degree program, or a graduate program at USU.

VM7560 - Equine Parturition and Post-Natal Care - 1 - Credits

Course Overview

Course Prefix
VM

Course Number
7560

Department
College of Veterinary Medicine

Course Title
Equine Parturition and Post-Natal Care

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
This course covers pre-, peri- and post-parturient mare care and management, parturition and routine post-natal care of the foal. Students conduct exams for pre-partum signs, foal out their mare and provide immediate care to both the mare and foal.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Registration Restrictions
Admission to the Washington-Idaho-Montana-Utah (WIMU) Regional Program in Veterinary Medicine

Special Approval
Instructor permission

No Requirements

VM7562 - Complementary and Alternative Veterinary Medicine - 1 - Credits

Course Overview

Course Prefix
VM

Course Number
7562

Department
College of Veterinary Medicine

Course Title
Complementary and Alternative Veterinary Medicine

Grade Mode
Pass/Fail

Repeat Status
NR

Course Description
The objective of this course is to increase knowledge and understanding of complementary and alternative veterinary Medical therapies.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Registration Restrictions
Admission to the Veterinary Medicine program

No Requirements

VM7567 - Applied Large Animal Theriogenology - 1 - Credits

Course Overview

Course Prefix
VM

Course Number
7567

Department
College of Veterinary Medicine

Course Title
Applied Large Animal Theriogenology

Grade Mode
Pass/Fail

Repeat Status
NR

Course Description
Integration of basic reproductive physiology with clinical aspects of reproductive management of large animals.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Registration Restrictions

Admission to the Veterinary Medicine program

No Requirements

VM7568 - Animal Handling and Agricultural Animal Orientation - 2 - Credits

Course Overview

Course Prefix
VM

Course Number
7568

Department
College of Veterinary Medicine

Course Title
Animal Handling and Agricultural Animal Orientation

Grade Mode
Pass/Fail

Repeat Status
NR

Course Description
Students will be trained in safe animal handling in the clinical environment. Basic handling and clinical skills training will include physical exams. Students will acquire a basic understanding of farm operation, livestock production cycles and breed characteristics to have a better understanding of common diseases that affect animals.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

No Requirements

VM7571 - Large Animal Theriogenology Laboratory - 1 - Credits

Course Overview

Course Prefix
VM

Course Number
7571

Department
College of Veterinary Medicine

Course Title
Large Animal Theriogenology Laboratory

Grade Mode
Pass/Fail

Repeat Status
NR

Course Description
Clinical training in diagnostic and therapeutic procedures in large animal reproduction.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Registration Restrictions

Admission to the Veterinary Medicine program

No Requirements

VM7576 - Emerging and Exotic Diseases of Animals - 1 - Credits

Course Overview

Course Prefix
VM

Course Number
7576

Department
College of Veterinary Medicine

Course Title
Emerging and Exotic Diseases of Animals

Grade Mode
Pass/Fail

Repeat Status
NR

Course Description
The objective of this course is to increase awareness of emerging and exotic diseases of animals and the appropriate response to them.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Registration Restrictions

Admission to the Veterinary Medicine program

No Requirements

VM7580 - Basic Nutrition - 1 - Credits

Course Overview

Course Prefix
VM

Course Number
7580

Department
College of Veterinary Medicine

Course Title
Basic Nutrition

Grade Mode
Pass/Fail

Repeat Status
NR

Course Description
Students will learn the fundamentals of nutrition, the importance of a balanced diet and how diet contributes to health and disease.

Credit Hours

Credit Hours Min:
1

Contact Hours

Contact Hours Min:
1

Billing Hours

Billing Hours Min:
1

Lecture Hours

Lecture Hours Min:
1

No Requirements

VM7581 - Agricultural Animal Problem Seminar - 1 - Credits

Course Overview

Course Prefix
VM

Course Number
7581

Department
College of Veterinary Medicine

Course Title
Agricultural Animal Problem Seminar

Grade Mode
Pass/Fail

Repeat Status
NR

Course Description
This is an elective course for veterinary medical students and is a joint offering with Washington State University, College of Veterinary Medicine (WSU-CVM). The course covers issues in agricultural animal medicine and surgery. This course is taught using distance education technology with lectures by clinical faculty from the WSU-CVM.

Credit Hours

Credit Hours Min:
1

Contact Hours

Contact Hours Min:
1

Billing Hours

Billing Hours Min:
1

Lecture Hours

Lecture Hours Min:
1

Registration Restrictions
Admission to the Veterinary Medicine program

No Requirements

VM7585 - Epidemiology - 2 - Credits

Course Overview

Course Prefix
VM

Course Number
7585

Department
College of Veterinary Medicine

Course Title
Epidemiology

Grade Mode
Pass/Fail

Repeat Status
NR

Course Description
Students are expected to do a minimally quantitative survey in which health is framed as a population phenomenon.

Credit Hours

Credit Hours Min:
2

Contact Hours

Contact Hours Min:
2

Billing Hours

Billing Hours Min:
2

Lecture Hours

Lecture Hours Min:
2

VM7586 - Principles of Surgery - 1 - Credits

Course Overview

Course Prefix
VM

Course Number
7586

Department
College of Veterinary Medicine

Course Title
Principles of Surgery

Grade Mode
Pass/Fail

Repeat Status
NR

Course Description
Students will learn surgical skills and knowledge that will allow them to contribute positively to a veterinary practice as a year one DVM student. By gradually increasing their exposure to surgical skills over the next two years, they will be prepared to perform their first live animal surgery in year 3 of their veterinary training.

Credit Hours

Credit Hours Min:
1

Contact Hours

Contact Hours Min:
1

Billing Hours

Billing Hours Min:
1

Lecture Hours

Lecture Hours Min:
1

No Requirements

VM7587 - Clinical Anesthesiology - 2 - Credits

Course Overview

Course Prefix
VM

Course Number
7587

Department
College of Veterinary Medicine

Course Title
Clinical Anesthesiology

Grade Mode
Pass/Fail

Repeat Status
NR

Course Description
Students will learn about clinical anesthesiology used in veterinary practice.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Registration Restrictions

Admission to the Veterinary Medicine program

No Requirements

VM7588 - Radiology - 3 - Credits

Course Overview

Course Prefix
VM

Course Number
7588

Department
College of Veterinary Medicine

Course Title
Radiology

Grade Mode
Pass/Fail

Repeat Status
NR

Course Description
Students will be introduced to radiography and diagnostic radiology.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Admission to the Veterinary Medicine program

No Requirements

VM7589 - Clinical Pathology - 3 - Credits

Course Overview

Course Prefix
VM

Course Number
7589

Department
College of Veterinary Medicine

Course Title
Clinical Pathology

Grade Mode
Pass/Fail

Repeat Status
NR

Course Description
Students will learn about laboratory diagnostic procedures and interpretation.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Admission to the Veterinary Medicine program

No Requirements

VM7594 - Core Topics in Global Health - 1 - Credits

Course Overview

Course Prefix
VM

Course Number
7594

Department
College of Veterinary Medicine

Course Title
Core Topics in Global Health

Grade Mode
Pass/Fail

Repeat Status
NR

Course Description
This is an elective course offered by the School of Veterinary Medicine for veterinary medical students and is a joint offering with Washington State University, College of Veterinary Medicine (WSU-CVM). The course covers important issues affecting global health. This course is taught using distance education technology with 10 lectures by faculty from the University of Washington and 10 local discussions. Registration is restricted to veterinary medical students.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Registration Restrictions

Admission to the Veterinary Medicine program

No Requirements

VM7596 - Veterinary Practicum - 1 - 4 Credits

Course Overview

Course Prefix
VM

Course Number
7596

Department
College of Veterinary Medicine

Course Title
Veterinary Practicum

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
Students will be involved in various human-animal bond or professional interaction-centered practica, completing all work by the end of the third year. Each practicum combines some hours spent in lecture and/or discussion, reading assignments, and a service learning component.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
4

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
4

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
4

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
4

Lecture Hours Operator:
TO

Registration Restrictions

Admission to the Veterinary Medicine - DVM program

No Requirements

VM7597 - Special Topics in Veterinary Medicine - 1 - 4 Credits

Course Overview

Course Prefix
VM

Course Number
7597

Department
College of Veterinary Medicine

Course Title
Special Topics in Veterinary Medicine

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
Students will learn about special topics in veterinary medicine.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
4

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
4

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
4

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
4

Lecture Hours Operator:
TO

Registration Restrictions

Admission to the Veterinary Medicine program

No Requirements

VM7598 - Introduction to Clinics - 1 - Credits

Course Overview

Course Prefix
VM

Course Number
7598

Department
College of Veterinary Medicine

Course Title
Introduction to Clinics

Grade Mode
Pass/Fail

Repeat Status
NR

Course Description
This course will introduce students to different types of clinical practice and begin their integration into the clinical setting. The course will minimize the awkwardness students face as they abruptly change from classroom to clinical courses. Credit will be received for this course in year 3 of the program of study.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

VM7599 - Equine Neonatal Medicine - 1 - Credits

Course Overview

Course Prefix
VM

Course Number
7599

Department
College of Veterinary Medicine

Course Title
Equine Neonatal Medicine

Grade Mode
Pass/Fail

Repeat Status
NR

Course Description
In this course, students will learn the pathophysiology, clinical signs, diagnosis, treatment and prognosis of common diseases of foals.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Registration Restrictions

Admission to the Veterinary Medicine program

No Requirements

VM7601 - One Health - 1 - Credits

Course Overview

Course Prefix
VM

Course Number
7601

Department
College of Veterinary Medicine

Course Title
One Health

Grade Mode
Pass/Fail

Repeat Status
NR

Course Description
This course explores the interconnectedness of people, animals, and ecosystems. It covers zoonotic diseases, ecosystems, and public health while considering the impact of laws and policies on the One Health paradigm. Students learn practical tools to encourage inter-professional collaboration.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Course Learning Objectives

Course Learning Outcomes

1. Analyze the interconnectedness of human, animal, and environmental health within the One Health framework, with a focus on zoonotic diseases and ecosystem dynamics.

2. Evaluate the impact of laws, policies, and regulations on public health and the One Health approach.

3. Develop practical skills and tools to foster inter-professional collaboration in addressing complex health challenges across multiple sectors.

VM7602 - Leadership Principles for Biomedical Scientists and Veterinarians - 1 - Credits

Course Overview

Course Prefix
VM

Course Number
7602

Department
College of Veterinary Medicine

Cross-Listed Courses
VCLS7602 - Leadership Principles for Biomedical Scientists and Veterinarians

Course Title
Leadership Principles for Biomedical Scientists and Veterinarians

Grade Mode
Pass/Fail

Repeat Status
NR

Course Description
This course aims to equip veterinary professionals and biomedical scientists with the leadership principles and skills necessary to create positive change within their professional sphere of influence as well as in the broader community.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

VM7604 - Special Topics in Veterinary Medicine - 1 - 4 Credits

Course Overview

Course Prefix
VM

Course Number
7604

Department
College of Veterinary Medicine

Course Title
Special Topics in Veterinary Medicine

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course examines emerging trends and challenges in veterinary medicine, emphasizing innovative practices, interdisciplinary approaches, critical thinking, and ethical decision-making to prepare students for the evolving demands of modern veterinary practice.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
4

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
4

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
4

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
4

Lecture Hours Operator:
TO

Course Learning Objectives

Course Learning Outcomes

1. Identify and explain special topics, current issues and advancements in veterinary medicine.

2. Discuss major global issues in veterinary medicine and propose practical solutions.

3. Recognize the importance of lifelong learning and staying updated with developments in the field.

4. Analyze scientific literature to support evidence-based decision-making.

VM7621 - Small Ruminant Parturition and Neonatal Care - 1 - Credits

Course Overview

Course Prefix
VM

Course Number
7621

Department
College of Veterinary Medicine

Course Title
Small Ruminant Parturition and Neonatal Care

Grade Mode
Pass/Fail

Repeat Status
NR

Course Description
This course covers pre-, peri- and post-parturient care and management, parturition, and routine post-natal care of small ruminants. Students participate in parturition observation and management of small ruminant dams and neonates.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Course Learning Objectives

Course Learning Outcomes

1. Gain factual knowledge of small ruminant parturition and post-natal care.

2. Recognize and understand the difference between a routine and a emergency parturition and between a healthy and abnormal post-natal small ruminant.

3. Perform a physical exam and evaluate the status of a periparturient small ruminant and/or neonate.

4. Administer routine post-partum and neonatal care.

5. Communicate with other veterinary professionals

VM7625 - Clinical Zoological & Wildlife Medicine - 1 - Credits

Course Overview

Course Prefix
VM

Course Number
7625

Department
Veterinary Clinical & Life Sciences

Course Title
Clinical Zoological & Wildlife Medicine

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
This elective provides hands-on experience in clinical zoo and wildlife medicine. Students collaborate with faculty at local zoological institutions and wildlife rehabilitation centers to perform preventive medicine, clinical workups, and assist in procedures with non-traditional species.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Course Learning Objectives

Course Learning Outcomes

1. Assess preventive medicine protocols for zoological and wildlife species, including vaccination strategies, parasite control, quarantine procedures, and nutritional management.
2. Explain how taxonomy, anatomy, and physiology influence the clinical presentation, diagnostic approach, and therapeutic management of zoological and wildlife species.
3. Perform systematic clinical workups of zoological and wildlife cases, including history taking, physical examination, problem list generation, and diagnostic planning.
4. Participate in and prepare for clinical procedures (e.g., restraint, anesthesia, diagnostic sampling, minor treatments) under faculty supervision with attention to animal welfare and safety.

5. Develop and practice case management skills by contributing to treatment planning, monitoring, and follow-up of clinical cases.
6. Accurately document medical information using appropriate zoological and wildlife medical record-keeping systems in compliance with institutional and legal standards.

VM7626 - Immobilization and Conservation of African Wildlife - 4 - Credits

Course Overview

Course Prefix
VM

Course Number
7626

Department
Veterinary Clinical & Life Sciences

Course Title
Immobilization and Conservation of African Wildlife

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
This study-abroad elective immerses veterinary students in South African wildlife medicine, combining lectures and hands-on training in immobilization, conservation, and clinical care, while exploring broader issues in wildlife health and experiencing Africa's unique ecosystems.

Credit Hours

Credit Hours Min:
4

Contact Hours

Contact Hours Min:
4

Billing Hours

Billing Hours Min:
4

Lecture Hours

Lecture Hours Min:
4

Special Approval
Instructor permission

Course Learning Objectives

Course Learning Outcomes

1. Describe the history of wildlife conservation in South Africa and explain how it has shaped current veterinary and conservation practices.

2. Analyze the cultural, social, and economic implications of wildlife conservation in Africa and how these influence veterinary decision-making and community engagement.

3. Demonstrate practical skills in wildlife immobilization, handling, and basic procedures under supervision, with attention to animal welfare and safety.

4. Discuss preventive medicine and clinical care principles for free-ranging and managed African wildlife species.

5. Evaluate conservation challenges facing Southern Africa, including habitat loss, poaching, human–wildlife conflict, and emerging diseases.

6. Reflect on cultural and ecological experiences gained through wildlife viewing, community interactions, and leisure activities, integrating them into a holistic understanding of conservation medicine.

VM7651 - Zoological Medicine: Aquatic Animals - 1 - Credits

Course Overview

Course Prefix
VM

Course Number
7651

Department
Veterinary Clinical & Life Sciences

Course Title
Zoological Medicine: Aquatic Animals

Grade Mode
Pass/Fail

Repeat Status
NR

Course Description
This lecture-based elective introduces students to aquatic animal medicine, covering career paths, taxonomy, anatomy, physiology, preventive medicine, common diseases, anesthesia, procedures, and conservation across invertebrates, fish, reptiles, birds, and marine mammals, emphasizing both clinical practice and conservation challenges.

Credit Hours

Credit Hours Min:
1

Contact Hours

Contact Hours Min:
1

Billing Hours

Billing Hours Min:
1

Lecture Hours

Lecture Hours Min:
1

Course Learning Objectives

Course Learning Outcomes

1. Identify career opportunities in aquatic animal medicine and outline training pathways to pursue careers in zoological, research, clinical, and conservation settings.
2. Describe preventive medicine protocols for aquatic species, including husbandry, nutrition, water quality, and parasite management.
3. Explain how taxonomy, anatomy, and physiology of aquatic animals influence their clinical care, diagnostic approaches, and therapeutic options.
4. Recognize and discuss the diagnosis and management of common diseases affecting aquatic invertebrates, fish, reptiles, birds, and marine mammals.

5. Summarize principles of anesthesia and common procedures used in aquatic animal medicine, with attention to species-specific considerations.
6. Evaluate the impacts of disease on wildlife populations and describe their broader implications for conservation and ecosystem health.

VM7652 - Zoological Medicine: General Zoo Management - 1 - Credits

Course Overview

Course Prefix
VM

Course Number
7652

Department
Veterinary Clinical & Life Sciences

Course Title
Zoological Medicine: General Zoo Management

Grade Mode
Pass/Fail

Repeat Status
NR

Course Description
This lecture-based elective introduces students to zoo animal medicine, covering career paths, taxonomy, anatomy, physiology, preventive medicine, common diseases, anesthesia, procedures, and conservation for terrestrial zoo species, with emphasis on clinical and management considerations across diverse taxa.

Credit Hours

Credit Hours Min:
1

Contact Hours

Contact Hours Min:
1

Billing Hours

Billing Hours Min:
1

Lecture Hours

Lecture Hours Min:
1

Course Learning Objectives

Course Learning Outcomes

1. Identify career pathways in zoo and conservation medicine and outline the training and professional opportunities available in traditional zoo practice.
2. Describe preventive medicine protocols for terrestrial zoo species, including nutrition, husbandry, vaccination strategies, and parasite management.
3. Explain how taxonomy, anatomy, and physiology of major terrestrial zoo taxa influence clinical presentations, diagnostic approaches, and medical management.
4. Recognize and discuss common diseases of reptiles, birds, carnivores, primates, ungulates, proboscideans, marsupials, and other zoo-housed mammals.

5. Summarize principles of anesthesia and common procedures relevant to terrestrial zoo species, emphasizing safety, welfare, and species-specific considerations.
6. Evaluate the role of zoo medicine in conservation and describe how management of individual animal health supports broader species and ecosystem preservation

WATS1200 - The Natural World and Our Place Within It (BLS) - 3 - Credits

Course Overview

Course Prefix
WATS

Course Number
1200

Department
Watershed Sciences

Course Title
The Natural World and Our Place Within It (BLS)

General Education Attribute
BLS

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Provides students an understanding of the natural world and the impact we are having on ecosystems. Covers how biodiversity arises on our planet and moves around earth's ecosystems, and how biodiversity is lost, both through natural processes and human activities.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

WATS2000 - Natural Resource Professional Orientation - 1 - Credits

Course Overview

Course Prefix
WATS

Course Number
2000

Department
Watershed Sciences

Course Title
Natural Resource Professional Orientation

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Through a combination of in- and out-of-classroom activities, students develop an understanding of curriculum requirements and career opportunities associated with the Natural Resources majors. Students will also be introduced to natural resource management issues and research involving multiple disciplines.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

WATS2050 - Data Management for Natural Resources – Cleaning and Shaping Data - 1 - Credits

Course Overview

Course Prefix
WATS

Course Number
2050

Department
Watershed Sciences

Course Title
Data Management for Natural Resources – Cleaning and Shaping Data

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This is a hands-on course in which students use Excel and R with ecological and hydrological data. It is intended to provide students data management and analysis competency that will serve as a foundation for higher-level science courses.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

WATS2060 - Data Management for Natural Resources – Data Display and Analysis - 1 - Credits

Course Overview

Course Prefix
WATS

Course Number
2060

Department
Watershed Sciences

Course Title
Data Management for Natural Resources – Data Display and Analysis

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course builds on WATS 2050 and uses Excel and R with ecological, hydrological, and geospatial data. This course is intended to provide students with the skills to start analyzing, visualizing, and communicating results from their data.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

WATS2220 - General Ecology - 3 - Credits

Course Overview

Course Prefix
WATS

Course Number
2220

Department
Watershed Sciences

Cross-Listed Courses
BIOL2220 - General Ecology

Course Title
General Ecology

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Study of the interrelationships among organisms, humans, and their environments, addressing where and how organisms live. Adaptation, population growth, species interactions, biodiversity, and ecosystem function are explored for a wide variety of organisms and ecosystems.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- BIOL1610 - Biology I
- BIOL1620 - Biology II (BLS)

BIOL1620 BIOLOGY II (BLS) may be taken concurrently

WATS2500 - Introduction to Marine Biology (BLS) - 3 - Credits

Course Overview

Course Prefix
WATS

Course Number
2500

Department
Watershed Sciences

Course Title
Introduction to Marine Biology (BLS)

General Education Attribute
BLS

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces the major marine organisms and ecosystems. The course covers the physiological and behavioral adaptations that allow survival in the oceans. The final section of the class covers how our actions impact ocean ecosystems.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Other Enrollment Recommendations
BIOL1620 BIOLOGY II (BLS) would be an advantage

No Requirements

Course Learning Objectives

Course Learning Outcomes
1. Identify the interplays between oceanography, physiology, and ecology as disciplines and how they relate to patterns of life in the oceans.
2. Articulate the fundamental concepts in marine biology, and how we obtain knowledge about the oceans.
3. Explain how our activities impact marine ecosystems and the organisms that inhabit them.
4. Develop a sound understanding of the scientific method, and how it relates to knowledge generation.

WATS2800 - Introduction to Geographic Information Sciences - 4 - Credits

Course Overview

Course Prefix
WATS

Course Number
2800

Department
Watershed Sciences

Course Title
Introduction to Geographic Information Sciences

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces students to the background and theory behind geographic information systems and spatial analysis. Students learn to integrate and analyze spatial information from different geographic sources. The course includes a weekly laboratory section.

Credit Hours

Credit Hours Min:
4

Contact Hours

Contact Hours Min:
4

Billing Hours

Billing Hours Min:
4

Lecture Hours

Lecture Hours Min:
4

No Requirements

WATS3000 - Oceanography (DSC) - 3 - Credits

Course Overview

Course Prefix
WATS

Course Number
3000

Department
Watershed Sciences

Course Title
Oceanography (DSC)

General Education Attribute
DSC

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course examines fundamental interrelationships between the physical environment of the oceans and the life forms they support. It is suitable for non-biologists. An optional Saturday field trip is part of the curriculum.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

WATS3100 - Fish Ecology, Conservation, and Management (CI/DSC) - 3 - Credits

Course Overview

Course Prefix
WATS

Course Number
3100

Department
Watershed Sciences

Course Title
Fish Ecology, Conservation, and Management (CI/DSC)

General Education Attribute
CI, DSC

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers ecology, conservation, and management of freshwater, marine, and anadromous fishes and examines behaviors, distributions, population dynamics, species interactions, and ecosystem effects, as well as the societal importance of fishes and how endangered, recreational, commercial, and subsistence fisheries are managed.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- BIOL1010 - Biology and the Citizen (BLS)
  OR BIOL1610 - Biology I
  OR BIOL1620 - Biology II (BLS)

WATS3110 - Fish Ecology, Conservation, and Management Lab - 1 - Credits

Course Overview

Course Prefix
WATS

Course Number
3110

Department
Watershed Sciences

Course Title
Fish Ecology, Conservation, and Management Lab

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students learn the context for current fisheries management practices, and how data are used to inform fisheries management decisions. Students gain experience in data collection, laboratory analyses, data analysis, and interpretation. Includes field trip(s).

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- WATS3100 - Fish Ecology, Conservation, and Management (CI/DSC)

may be taken concurrently

WATS3200 - Marine Ecology: Expedition Sea of Cortez (DSC) - 3 - Credits

Course Overview

Course Prefix
WATS

Course Number
3200

Department
Watershed Sciences

Cross-Listed Courses
WILD3200 - Marine Ecology: Expedition Sea of Cortez (DSC)

Course Title
Marine Ecology: Expedition Sea of Cortez (DSC)

General Education Attribute
DSC

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Explore marine ecology in Baja Mexico through snorkeling, remote island camping, and working with local conservationists. This immersive field course introduces seabirds, marine mammals, and diverse marine ecosystems in a hands-on learning experience within a vibrant marine protected area.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Special Approval
Study abroad

WATS3450 - Introduction to Coral Reefs-Field Course (DSC) - 3 - Credits

Course Overview

Course Prefix
WATS

Course Number
3450

Department
Watershed Sciences

Course Title
Introduction to Coral Reefs-Field Course (DSC)

General Education Attribute
DSC

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course is a 13-day field course on the biology and ecology of coral reefs and their many inhabitants. This course is taught at the Heron Island Research Station located in Australia's Great Barrier Reef.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

WATS3500 - Water and Power - 3 - Credits

Course Overview

Course Prefix
WATS

Course Number
3500

Department
Watershed Sciences

Course Title
Water and Power

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course examines how control over water resources has shaped economic and political power, and how science-based management and policy can address persistent water challenges. It focuses on the Western United States, particularly Utah's Great Salt Lake and Colorado River Basins.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Course Learning Objectives

Course Learning Outcomes
1. Demonstrate an understanding of water management and policy.

2. Demonstrate how different disciplines use alternative approaches to answer big water challenges.

3. Gain a basic understanding of relevant social and physical science methods and how they contribute to water management and policy.

4. Connect water policy to experiences.

5. Exercise capacity for critical thought.

WATS3700 - Fundamentals of Watershed Science (CI) - 3 - Credits

Course Overview

Course Prefix
WATS

Course Number
3700

Department
Watershed Sciences

Course Title
Fundamentals of Watershed Science (CI)

General Education Attribute
CI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Study of water movement, hillslope processes, and nutrient movement in catchments, and its relevance to the properties, land use, and management of watersheds as natural resource units.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

WATS4050 - Marine Global Change: Impacts and Conservation Strategies - 3 - Credits

Course Overview

Course Prefix
WATS

Course Number
4050

Department
Watershed Sciences

Course Title
Marine Global Change: Impacts and Conservation Strategies

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course explores how climate change, pollution, and human activities affect marine ecosystems. Students analyze ecological impacts, examine mitigation strategies, and discuss innovative solutions for conserving biodiversity and fostering sustainable management of global marine resources.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Fulfill ANY of the following requirements:

Option 1

Complete ALL of the following Courses:

- WATS2500 - Introduction to Marine Biology (BLS)
- WATS3000 - Oceanography (DSC)

OR

Option 2

Complete ALL of the following Courses:

- GEO3300 - Geology of the World's Oceans (DSC)

Course Learning Objectives

Course Learning Outcomes

1. Subject Mastery- Gain foundational knowledge of marine global change, including key concepts, methods, and theories related to ecological impacts and conservation strategies.
Understand the principles driving marine ecosystem dynamics under global change scenarios.
2. Global and Cultural Awareness- Develop an understanding of diverse perspectives and global interconnectivity in addressing marine environmental challenges.
Explore the socio-cultural dimensions of marine conservation and the impacts of global change on diverse communities.
3. Application of Course Material- Apply scientific methods and critical thinking to solve problems and make informed decisions about marine conservation strategies.
Evaluate real-world case studies to develop actionable solutions to marine global change challenges.
4. Professional Skills and Competencies- Cultivate skills needed for careers in marine and aquatic sciences, including policy analysis, ecosystem management, and impact assessment.
Gain experience in designing and implementing research or conservation projects.
5. Team Collaboration- Develop teamwork skills by collaborating on group projects and presentations, simulating professional fieldwork and policy development processes.
6. Creative Capacities- Enhance creative problem-solving by designing innovative solutions for mitigating marine environmental challenges.
7. Broader Appreciation- Foster an appreciation for the complexity of marine ecosystems and their role in global ecological and cultural systems.
8. Communication Skills- Strengthen oral and written communication skills through presentations, essays, and discussions on marine conservation topics.
9. Research and Resource Evaluation- Learn how to locate, evaluate, and utilize scientific and policy resources to deeply explore issues in marine global change.
10. Ethical Reasoning- Develop the ability to make ethical decisions regarding marine resource management and conservation, considering environmental, social, and economic factors.
11. Critical Analysis- Analyze and critically evaluate arguments, data, and viewpoints in the context of marine global change and conservation debates.

WATS4100 - Climate Adaptation Intern Program - 3 - Credits

Course Overview

Course Prefix
WATS

Course Number
4100

Department
Watershed Sciences

Course Title
Climate Adaptation Intern Program

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course for students in the Climate Adaptation Intern Program teaches climate change fundamentals and techniques for clear writing, then guides each student through creating a fact sheet or other product about a climate adaptation topic relevant to Utah.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Special Approval

Department permission

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Learning how to find, evaluate, and use resources to explore a topic in depth.
2. Developing skill in expressing myself orally or in writing.
3. Developing specific skills, competencies, and points of view needed by professionals in the field most closely related to this course.

WATS4250 - Advanced Internship/Co-op - 1 - 9 Credits

Course Overview

Course Prefix
WATS

Course Number
4250

Department
Watershed Sciences

Course Title
Advanced Internship/Co-op

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
Internship/cooperative education work experience; increased complexity to help student gain a more professional level of experience.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
9

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
9

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
9

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
9

Lecture Hours Operator:
TO

Special Approval

Department permission

No Requirements

WATS4300 - Principles of Ecosystem Restoration - 3 - Credits

Course Overview

Course Prefix
WATS

Course Number
4300

Department
Watershed Sciences

Course Title
Principles of Ecosystem Restoration

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces students to the motivations for and approaches to aquatic ecosystem restoration. It focuses on the principles of restoration, engaging stakeholders, goal setting, establishing references, techniques for implementation from physical and biological perspectives, and assessing success.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- WATS2220 - General Ecology
  OR BIOL2220 - General Ecology

WATS4490 - Small Watershed Hydrology (QI) - 4 - Credits

Course Overview

Course Prefix
WATS

Course Number
4490

Department
Watershed Sciences

Dual-Listed Courses
WATS6490 - Small Watershed Hydrology

Course Title
Small Watershed Hydrology (QI)

General Education Attribute
QI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Detailed exploration of concepts of hydrologic processes in small, wildland watersheds. Concentrates on recent research findings concerning key hydrological processes. Particular attention paid to study of partitioning of water in the hydrologic cycle, sources for runoff generation, snow and snowmelt, and erosion. Features process modeling and parameter estimation techniques as related to wildland systems.

Credit Hours

Credit Hours
Min:
4

Contact Hours

Contact Hours
Min:
4

Billing Hours

Billing Hours
Min:
4

Lecture Hours

Lecture Hours
Min:
4

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- MATH1100 - Calculus Techniques (QL)
  OR MATH1210 - Calculus I (QL)
- WATS3700 - Fundamentals of Watershed Science (CI)

WATS4500 - Limnology: Ecology of Inland Waters - 3 - Credits

Course Overview

Course Prefix
WATS

Course Number
4500

Department
Watershed Sciences

Dual-Listed Courses
WATS6500 - Limnology: Ecology of Inland Waters

Course Title
Limnology: Ecology of Inland Waters

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers ecosystem analysis of physical, chemical, and biological interactions in lakes and streams. It includes the application of these concepts for managing aquatic systems. Graduate students write an additional research paper and present a lecture. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- CHEM1210 - Principles of Chemistry I
- CHEM1215 - Chemical Principles Laboratory I
- CHEM1220 - Principles of Chemistry II (BPS)
- CHEM1225 - Chemical Principles Laboratory II
- WATS2220 - General Ecology
  OR WATS3700 - Fundamentals of Watershed Science (CI)

WATS4510 - Aquatic Ecology Methods - 2 - Credits

Course Overview

Course Prefix
WATS

Course Number
4510

Department
Watershed Sciences

Course Title
Aquatic Ecology Methods

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This seven-week course trains students in aquatic ecology field and lab techniques, data analysis, and research communication. Students collect and identify aquatic organisms, measure environmental variables, process samples, and analyze data to complete a group research project addressing ecological questions.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- STAT3000 - Statistics for Scientists (QI)
  AND WATS2220 - General Ecology

WATS4520 - Aquatic Ecology Practicum II: Analysis - 2 - Credits

Course Overview

Course Prefix
WATS

Course Number
4520

Department
Watershed Sciences

Course Title
Aquatic Ecology Practicum II: Analysis

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces students to techniques in collecting, analyzing, and interpreting environmental data in aquatic ecosystems. Students work on independent research topics and culminate the course with a scientific paper and a presentation of research results to local stakeholders.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

No Requirements

WATS4530 - Water Quality and Pollution - 3 - Credits

Course Overview

Course Prefix
WATS

Course Number
4530

Department
Watershed Sciences

Dual-Listed Courses
WATS6530 - Water Quality and Pollution

Course Title
Water Quality and Pollution

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers sources, transport and transformation processes, impacts, prevention, and mitigation of the major categories of water pollution. It includes policy and management approaches required by the Clean Water Act and state law. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

WATS4540 - Ichthyology - 4 - Credits

Course Overview

Course Prefix
WATS

Course Number
4540

Department
Watershed Sciences

Dual-Listed Courses
WATS6540 - Ichthyology

Course Title
Ichthyology

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Course covers systematics, evolution, taxonomy, anatomy, and physiology of fishes. Students learn fish diversity, how anatomical and physiological adaptations allow species to succeed in challenging environments, and how fishes' physiology can make them susceptible to anthropogenic changes. Includes labs/field trips. Additional coursework required for graduate-level course.

Credit Hours

Credit Hours
Min:
4

Contact Hours

Contact Hours
Min:
4

Billing Hours

Billing Hours
Min:
4

Lecture Hours

Lecture Hours
Min:
4

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- BIOL1010 - Biology and the Citizen (BLS)
  OR BIOL1610 - Biology I
  OR BIOL1620 - Biology II (BLS)

WATS4600 - Environmental Water Management - 3 - Credits

Course Overview

Course Prefix
WATS

Course Number
4600

Department
Watershed Sciences

Dual-Listed Courses
WATS6600 - Environmental Water Management

Course Title
Environmental Water Management

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers quantitative methods for analyzing large-scale water resources problems and focuses on managing water for freshwater ecosystems. It is useful for students in water resources, natural resources, fisheries, and physical sciences who work in systems with built infrastructure. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- MATH1100 - Calculus Techniques (QL)
  OR MATH1210 - Calculus I (QL)

WATS4720 - Drone Data Analysis for Environmental Restoration - 2 - Credits

Course Overview

Course Prefix
WATS

Course Number
4720

Department
Watershed Sciences

Dual-Listed Courses
WATS6720 - Drone Data Analysis for Environmental Restoration

Course Title
Drone Data Analysis for Environmental Restoration

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Drones (UAV / UAS) have revolutionized data collection for natural resources (rivers, forestry, wildlife, wetlands, agriculture, etc.) and are used to evaluate restoration success. Students learn mission planning and drone-based data collection, processing, and analysis for natural resources applications. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours Min:
2

Contact Hours

Contact Hours Min:
2

Billing Hours

Billing Hours Min:
2

Lecture Hours

Lecture Hours Min:
2

Other Enrollment Recommendations
A GIS or remote sensing course.

No Requirements

WATS4950 - Special Topics - 1 - 3 Credits

Course Overview

Course Prefix
WATS

Course Number
4950

Department
Watershed Sciences

Course Title
Special Topics

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Individual study and research upon selected watershed sciences problems.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

No Requirements

WATS4960 - Directed Readings - 1 - 3 Credits

Course Overview

Course Prefix
WATS

Course Number
4960

Department
Watershed Sciences

Course Title
Directed Readings

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Provides one-on-one interaction between student and instructor.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

Special Approval

Department permission

No Requirements

WATS4970 - Undergraduate Research - 1 - 3 Credits

Course Overview

Course Prefix
WATS

Course Number
4970

Department
Watershed Sciences

Course Title
Undergraduate Research

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Individual or team research.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

Special Approval

Department permission

No Requirements

WATS4980 - Watershed Sciences Departmental Seminar - 1 - Credits

Course Overview

Course Prefix
WATS

Course Number
4980

Department
Watershed Sciences

Dual-Listed Courses
WATS6800 - Watershed Sciences Departmental Seminar

Course Title
Watershed Sciences Departmental Seminar

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
Exposes students to new developments in research and management in the fields of watershed sciences. Features participation by students, faculty, and guest lecturers. Graduate students should register for only one semester each year, but attend all year. Undergraduate students are only required to register once. Graduate students will participate in an additional reading and discussion group for the seminars.

Credit Hours

Credit Hours Min:
1

Contact Hours

Contact Hours Min:
1

Billing Hours

Billing Hours Min:
1

Lecture Hours

Lecture Hours Min:
1

Other Enrollment Recommendations
Graduate students should register for only one semester each year, but attend all year. Undergraduate students are only required to register once.

No Requirements

WATS4990 - Senior Thesis - 2 - 3 Credits

Course Overview

Course Prefix
WATS

Course Number
4990

Department
Watershed Sciences

Course Title
Senior Thesis

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
Students prepare a written thesis under the supervision of a faculty advisor.

Credit Hours

Credit Hours Min:
2

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
2

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
2

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
2

Lecture Hours Max:
3

Lecture Hours Operator:
TO

No Requirements

Course Learning Objectives

Course Learning Outcomes
1. Gain research experience.
2. Develop professional skills working with faculty and lab groups.
3. Familiarize with grant application processes.
4. Present research findings.
5. Analysis and presentation of data.
6. Synthesis and communication of results and implications.

WATS5003 - Remote Sensing of Land Surfaces - 4 - Credits

Course Overview

Course Prefix
WATS

Course Number
5003

Department
Watershed Sciences

Dual-Listed Courses
WATS6003 - Remote Sensing of Land Surfaces

Course Title
Remote Sensing of Land Surfaces

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Basic principles of radiation and remote sensing. Techniques for ground-based measurements of reflected and emitted radiation, as well as ancillary data collection to support airborne and satellite remote sensing studies in agriculture, geography, and hydrology.

Credit Hours

Credit Hours
Min:
4

Contact Hours

Contact Hours
Min:
4

Billing Hours

Billing Hours
Min:
4

Lecture Hours

Lecture Hours
Min:
4

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- MATH1100 - Calculus Techniques (QL)
  OR MATH1210 - Calculus I (QL)
- PHYS2110 - General Physics—Life Sciences I
  OR PHYS2210 - Physics for Scientists and Engineers I (QI/BPS)

WATS5055 - American Academy of Underwater Sciences Scientific Diver Certification Course - 2 - Credits

Course Overview

Course Prefix
WATS

Course Number
5055

Department
Watershed Sciences

Course Title
American Academy of Underwater Sciences Scientific Diver Certification Course

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Provides the scientific, technical, and safety training required for American Academy of Underwater Sciences (AAUS) Scientific Diver certification. Students must complete pool and open-water skills tests held over five days during the week immediately before the fall semester.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Other Enrollment Recommendations
•Students must meet the following before enrollment or by the first week of class:

• Open Water SCUBA certification from an internationally recognized agency (PADI, NAUI, SSI, RAID, SDI, etc.)
• Completed AAUS Scientific Diving Medical Evaluation signed by a diving medical professional (form provided upon enrollment)
• Ability to pass a basic watermanship evaluation (400-yard swim in less than 12 minutes, 25-yard underwater swim, 10-minute survival float)
• The use of SCUBA gear meeting AAUS and institutional standards for the duration of the class

In addition to the above, it is recommended that students have the following before enrolling:

• 40 logged open-water dives
• Completion of a perfect buoyancy or peak performance buoyancy course
• Strong swimming skills and water comfort
• Experience with snorkeling, scientific equipment, or outdoor fieldwork
• Ability to work in small teams and maintain situational awareness underwater

Course Learning Objectives

Course Learning Outcomes

By the end of the course, students will be able to:

Knowledge-based outcomes

• Explain diving physics and physiology relevant to scientific diving
• Identify hazards, manage risk, and implement AAUS dive planning procedures
• Understand dive tables, computers, decompression theory, and emergency protocols
• Demonstrate familiarity with AAUS standards, forms, logs, and recordkeeping

Skills-based outcomes

• Maintain precise buoyancy, trim, and situational awareness
• Conduct underwater navigation using compass and natural references
• Perform scientific survey methods: transects, quadrats, fish surveys, substrate classification
• Execute emergency procedures including air-sharing, controlled ascents, and diver-rescue techniques
• Work effectively as part of a scientific dive team
• Deploy, use, and retrieve scientific equipment safely

WATS5110 - Environmental Biogeochemistry - 3 - Credits

Course Overview

Course Prefix
WATS

Course Number
5110

Department
Watershed Sciences

Dual-Listed Courses

WATS6110 - Environmental Biogeochemistry

Course Title

Environmental Biogeochemistry

Grade Mode
Standard Letter

Repeat Status
NR

Course Description

Students learn biological, hydrological, and geological controls on elemental cycling in Earth's critical zone. Application of elemental analyses to tracking environmental change and spatial/temporal variation in ecosystem processes is addressed. Human and natural controls are considered in aquatic, terrestrial, marine, and atmospheric environments. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- CHEM1210 - Principles of Chemistry I
- CHEM1215 - Chemical Principles Laboratory I
- CHEM1220 - Principles of Chemistry II (BPS)
- CHEM1225 - Chemical Principles Laboratory II
- WATS2220 - General Ecology

OR WATS3700 - Fundamentals of Watershed Science (CI)

WATS5150 - Fluvial Geomorphology - 3 - Credits

Course Overview

Course Prefix
WATS

Course Number
5150

Department
Watershed Sciences

Cross-Listed Courses
GEO5150 - Fluvial Geomorphology

Dual-Listed Courses
WATS6150 - Fluvial Geomorphology

Course Title
Fluvial Geomorphology

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Fluvial geomorphology is the study of rivers and how they shape the landscape. In this course, students will learn about river and floodplain forms and the physical and biotic processes that create them. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

WATS5200 - Fish Habitats - 2 - Credits

Course Overview

Course Prefix
WATS

Course Number
5200

Department
Watershed Sciences

Course Title
Fish Habitats

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Examines biological and social factors influencing aquatic ecosystems and fish habitats within the context of forest management. Analyzes ecological relationships of fish habitats within forest ecosystem, and how these are influenced by forest management practices. Provides examples of forest habitat issues in major regions of North America, illustrating that both biological and social factors must be considered in developing management strategies and programs.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

WATS5210 - The Secret Life of Elements on Earth - 2 - Credits

Course Overview

Course Prefix
WATS

Course Number
5210

Department
Watershed Sciences

Dual-Listed Courses
WATS6210 - The Secret Life of Elements on Earth

Course Title
The Secret Life of Elements on Earth

General Education Attribute
DSC

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Covering a broad, narrative overview of Earth systems and the influence of global change, this course will focus on a qualitative understanding of the planet and the biosphere, emphasizing systems thinking, using biogeochemical principles to understand processes in the environment. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

WATS5305 - Ecology and Restoration of Plants - 3 - Credits

Course Overview

Course Prefix
WATS

Course Number
5305

Department
Watershed Sciences

Dual-Listed Courses
WATS6305 - Ecology and Restoration of Plants

Course Title
Ecology and Restoration of Plants

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course explores plant ecology (including wetland and riparian species) in the context of ecosystem restoration. It focuses on the needs of plant propagules (e.g., seeds, rhizomes, cuttings) to inform effective revegetation to meet habitat and other restoration goals. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ANY of the following Courses:

- BIOL2220 - General Ecology
- WATS2220 - General Ecology
- WATS3700 - Fundamentals of Watershed Science (CI)
- WATS4300 - Principles of Ecosystem Restoration

WATS5311 - Field Botany: Wetland and Riparian Plants - 1 - Credits

Course Overview

Course Prefix
WATS

Course Number
5311

Department
Watershed Sciences

Dual-Listed Courses
WATS6311 - Field Botany: Wetland and Riparian Plants

Course Title
Field Botany: Wetland and Riparian Plants

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides field and laboratory experience with wetland and riparian plants as well as their surrounding habitats. It equips students with tools to professionally and independently identify species seen in these ecosystems. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Special Approval
Department approval

Other Enrollment Recommendations
Recommended to have completed one previous course in botany.

Course Learning Objectives

Course Learning Outcomes
1. Recognize major plant families found in wetland areas
2. Use dichotomous keys in technical floras
3. Be comfortable preparing research vouchers and working in a herbarium

WATS5312 - Wetland Delineation - 1 - Credits

Course Overview

Course Prefix
WATS

Course Number
5312

Department
Watershed Sciences

Dual-Listed Courses
WATS6312 - Wetland Delineation

Course Title
Wetland Delineation

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers the basics of wetland delineation including the underlying ecological, biogeochemical, and hydrological processes. Students learn how to conduct delineations in real-world wetland settings when problem-solving and decision-making in the face of uncertainty are necessary. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Special Approval
Department approval

Other Enrollment Recommendations
Recommended to have completed a previous course in botany.

Course Learning Objectives

Course Learning Outcomes
1. Gain a basic understanding of wetland delineation and the underlying ecological, biogeochemical, and hydrological processes
2. Learn to apply wetland delineation course material in the real world when problem-solving and decision-making in the face of uncertainty are necessary

3. Develop specific skills and competencies needed by wetland professionals in the field of delineation

WATS5350 - Capstone and Professional Practice - 2 - Credits

Course Overview

Course Prefix
WATS

Course Number
5350

Department
Watershed Sciences

Course Title
Capstone and Professional Practice

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Students apply the principles, theory, and skills of watershed science to watershed and riverscape professional practice, management, and restoration. Students work with professionals on requests for proposals, planning, regulatory permitting, budget management, and contracting.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- WATS4300 - Principles of Ecosystem Restoration

WATS5360 - Wetland Ecology and Management - 3 - Credits

Course Overview

Course Prefix
WATS

Course Number
5360

Department
Watershed Sciences

Dual-Listed Courses
WATS6360 - Wetland Ecology and Management

Course Title
Wetland Ecology and Management

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Explores the physical, chemical, and biological structure of wetlands. Focuses on the major types of wetlands found in North America, as well as their ecology and management; U.S. wetland policy and mitigation; and regional, national, and global impacts on restoration of wetlands.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- WATS3700 - Fundamentals of Watershed Science (CI)

WATS5490 - Small Watershed Hydrology (QI) - 4 - Credits

Course Overview

Course Prefix
WATS

Course Number
5490

Department
Watershed Sciences

Dual-Listed Courses
WATS6490 - Small Watershed Hydrology

Course Title
Small Watershed Hydrology (QI)

General Education Attribute
QI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Detailed exploration of concepts of hydrologic processes in small, wildland watersheds. Concentrates on recent research findings concerning key hydrological processes. Particular attention paid to study of partitioning of water in the hydrologic cycle, sources for runoff generation, snow and snowmelt, and erosion. Features process modeling and parameter estimation techniques as related to wildland systems.

Credit Hours

Credit Hours
Min:
4

Contact Hours

Contact Hours
Min:
4

Billing Hours

Billing Hours
Min:
4

Lecture Hours

Lecture Hours
Min:
4

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- MATH1100 - Calculus Techniques (QL)
  OR MATH1210 - Calculus I (QL)
- WATS3700 - Fundamentals of Watershed Science (CI)

WATS5500 - Limnology: Ecology of Inland Waters - 3 - Credits

Course Overview

Course Prefix
WATS

Course Number
5500

Department
Watershed Sciences

Dual-Listed Courses
WATS6500 - Limnology: Ecology of Inland Waters

Course Title
Limnology: Ecology of Inland Waters

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers ecosystem analysis of physical, chemical, and biological interactions in lakes and streams. It includes the application of these concepts for managing aquatic systems. Graduate students write an additional research paper and present a lecture. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- CHEM1210 - Principles of Chemistry I
- CHEM1215 - Chemical Principles Laboratory I
- CHEM1220 - Principles of Chemistry II (BPS)
- CHEM1225 - Chemical Principles Laboratory II
- WATS2220 - General Ecology
  OR WATS3700 - Fundamentals of Watershed Science (CI)

WATS5530 - Water Quality and Pollution - 3 - Credits

Course Overview

Course Prefix
WATS

Course Number
5530

Department
Watershed Sciences

Dual-Listed Courses
WATS6530 - Water Quality and Pollution

Course Title
Water Quality and Pollution

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers sources, transport and transformation processes, impacts, prevention, and mitigation of the major categories of water pollution. It includes policy and management approaches required by the Clean Water Act and state law. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

WATS5540 - Ichthyology - 4 - Credits

Course Overview

Course Prefix
WATS

Course Number
5540

Department
Watershed Sciences

Dual-Listed Courses
WATS6540 - Ichthyology

Course Title
Ichthyology

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Course covers systematics, evolution, taxonomy, anatomy, and physiology of fishes. Students learn fish diversity, how anatomical and physiological adaptations allow species to succeed in challenging environments, and how fishes' physiology can make them susceptible to anthropogenic changes. Includes labs/field trips. Additional coursework required for graduate-level course.

Credit Hours

Credit Hours
Min:
4

Contact Hours

Contact Hours
Min:
4

Billing Hours

Billing Hours
Min:
4

Lecture Hours

Lecture Hours
Min:
4

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- BIOL1010 - Biology and the Citizen (BLS)
  OR BIOL1610 - Biology I
  OR BIOL1620 - Biology II (BLS)

WATS5550 - Freshwater Invertebrates - 3 - Credits

Course Overview

Course Prefix
WATS

Course Number
5550

Department
Watershed Sciences

Cross-Listed Courses
BIOL5550 - Freshwater Invertebrates

Course Title
Freshwater Invertebrates

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Ecology, collection, and systematics of freshwater aquatic invertebrates. Focuses on insects, but also covers crustaceans, molluscs, and annelids. Several weekend field trips and a collection are required.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
One year of general biology or zoology

WATS5600 - Environmental Water Management - 3 - Credits

Course Overview

Course Prefix
WATS

Course Number
5600

Department
Watershed Sciences

Dual-Listed Courses
WATS6600 - Environmental Water Management

Course Title
Environmental Water Management

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Hydrologic concepts and terminology taught through collection, analysis, and interpretation of hydrologic data. Emphasizes principles and practice of several hydrologic measurements and water sampling in natural and manmade environments. Prerequisite: PSC 3000 or instructor's permission. Also taught as PSC 5600/6600.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- MATH1100 - Calculus Techniques (QL)
  OR MATH1210 - Calculus I (QL)

WATS5610 - Field Introduction to Low-Tech Process-Based Restoration of Riverscapes - 1 - Credits

Course Overview

Course Prefix
WATS

Course Number
5610

Department
Watershed Sciences

Course Title
Field Introduction to Low-Tech Process-Based Restoration of Riverscapes

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides a field-based, three-day, short-course introduction to Low-Tech Process-Based Restoration of Riverscapes. It includes daily field trips and in-class exercises.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

WATS5620 - Intro to Low-Tech Process-Based Restoration of Riverscapes - 1 - Credits

Course Overview

Course Prefix
WATS

Course Number
5620

Department
Watershed Sciences

Course Title
Intro to Low-Tech Process-Based Restoration of Riverscapes

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides an introduction to the practice of Low-Tech Process-Based Restoration of Riverscapes. Students gain exposure to the scope of riverscape degradation, low-tech restoration technique examples, and riverscape and restoration principles.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

WATS5621 - Science and Case Studies of Low-Tech Process-Based Restoration of Riverscapes - 1 - Credits

Course Overview

Course Prefix
WATS

Course Number
5621

Department
Watershed Sciences

Course Title

Science and Case Studies of Low-Tech Process-Based Restoration of Riverscapes

Grade Mode
Standard Letter

Repeat Status
NR

Course Description

Students explore the science and case studies that encouraged Low-Tech Process-Based Restoration of Riverscapes (LTPBR). Students gain exposure to key experiments and studies, and come to understand what the state of current LTPBR science is and where remaining knowledge gaps exist.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

WATS5622 - Planning Low-Tech Process-Based Restoration of Riverscapes - 1 - Credits

Course Overview

Course Prefix
WATS

Course Number
5622

Department
Watershed Sciences

Course Title

Planning Low-Tech Process-Based Restoration of Riverscapes

Grade Mode
Standard Letter

Repeat Status
NR

Course Description

This course provides an introduction to the planning process of Low-Tech Process-Based Restoration of Riverscapes (LTPBR). Students learn how to map riverscapes, assess current conditions and estimate recovery potential to support LTPBR projects.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

WATS5623 - Designing Low-Tech Process-Based Restoration of Riverscapes - 1 - Credits

Course Overview

Course Prefix
WATS

Course Number
5623

Department
Watershed Sciences

Course Title
Designing Low-Tech Process-Based Restoration of Riverscapes

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides an introduction to designing Low-Tech Process-Based Restoration of Riverscapes (LTPBR). Students design their own LTPBR restoration projects at a site of their choosing.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

WATS5624 - Implementation of Low-Tech Process-Based Restoration of Riverscapes - 1 - Credits

Course Overview

Course Prefix
WATS

Course Number
5624

Department
Watershed Sciences

Course Title
Implementation of Low-Tech Process-Based Restoration of Riverscapes

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces Low-Tech Process-Based Restoration of Riverscapes implementation. Students construct low-tech structures like PALS (post-assisted log structures) and BDAs (beaver dam analogues) on student-designed restoration projects. Students explore consultation and permitting, and become proficient in construction safety and logistics.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

WATS5625 - Adaptive Management and Monitoring of Low-Tech Process-Based Restoration of Riverscapes - 1 - Credits

Course Overview

Course Prefix
WATS

Course Number
5625

Department
Watershed Sciences

Course Title
Adaptive Management and Monitoring of Low-Tech Process-Based Restoration of Riverscapes

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides an introduction to adaptive management associated with Low-Tech Process-Based Restoration of Riverscapes. Students learn how to build an adaptive management plan and associated monitoring plans for an LTPBR project.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

WATS5630 - Beaver Translocation for Restoration - 1 - Credits

Course Overview

Course Prefix
WATS

Course Number
5630

Department
Watershed Sciences

Course Title
Beaver Translocation for Restoration

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides a field-based, three-day introduction to beaver translocation to support process-based restoration of riverscapes. Students gain experience live-trapping nuisance beaver, caring for beaver in holding facilities, and releasing beaver to riverscapes for restoration.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

WATS5640 - Riparian Ecology and Management - 3 - Credits

Course Overview

Course Prefix
WATS

Course Number
5640

Department
Watershed Sciences

Dual-Listed Courses
WATS7640 - Riparian Ecology and Management

Course Title
Riparian Ecology and Management

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Explores structure and function of riparian ecosystems and management options for maintaining sustainable ecological function.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- WATS2220 - General Ecology
  OR BIOL2220 - General Ecology
- WATS3700 - Fundamentals of Watershed Science (CI)

WATS5650 - Analysis of Fisheries Data with R - 2 - Credits

Course Overview

Course Prefix
WATS

Course Number
5650

Department
Watershed Sciences

Course Title
Analysis of Fisheries Data with R

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Designed for individuals planning to work for agencies and for individuals who cannot afford expensive statistical programs, such as SAS. Advantages of using R include greater number of statistical options than are included in Excel (or other spreadsheet software programs), ability to produce presentation-quality figures, and availability as an open-source (free) software program.

Credit Hours

Credit Hours Min:
2

Contact Hours

Contact Hours Min:
2

Billing Hours

Billing Hours Min:
2

Lecture Hours

Lecture Hours Min:
2

WATS5655 - Principles in Fishery Management - 3 - Credits

Course Overview

Course Prefix
WATS

Course Number
5655

Department
Watershed Sciences

Dual-Listed Courses
WATS6655 - Principles in Fishery Management

Course Title
Principles in Fishery Management

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Emphasizes management of fish populations within context of community and ecosystem dynamics. Stresses use of simulation models to assess effects of growth, recruitment, and mortality on age-structured populations.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

WATS5660 - Watershed and Stream Restoration - 2 - Credits

Course Overview

Course Prefix
WATS

Course Number
5660

Department
Watershed Sciences

Course Title
Watershed and Stream Restoration

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Overview of the current theory and practice of watersheds and streams. Emphasizes field visits with restoration projects and specialists.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

WATS5670 - Watersheds and Stream Restoration Practicum - 2 - Credits

Course Overview

Course Prefix
WATS

Course Number
5670

Department
Watershed Sciences

Course Title
Watersheds and Stream Restoration Practicum

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Capstone experience. Development of a restoration plan for a site, involving site planning and design.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

WATS5680 - Paleoclimatology - 3 - Credits

Course Overview

Course Prefix
WATS

Course Number
5680

Department
Watershed Sciences

Cross-Listed Courses
GEO5680 - Paleoclimatology, PSC5680 - Paleoclimatology

Dual-Listed Courses
WATS6680 - Paleoclimatology

Course Title
Paleoclimatology

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Covers climate through the past four billion years of geologic time. Explores driving forces behind climate changes. Examines data and methods used in paleoclimate research. Includes discussion of literature and stresses local paleoclimate records. Three lectures per week, along with field trips.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- GEO3600 - Geomorphology
  OR WATS3600 - Geomorphology

WATS5690 - Climate Data-Driven Resource Management - 3 - Credits

Course Overview

Course Prefix
WATS

Course Number
5690

Department
Watershed Sciences

Dual-Listed Courses
WATS6690 - Climate Data-Driven Resource Management

Course Title
Climate Data-Driven Resource Management

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
In this course, students learn to find and analyze relevant observed and future climate projection data, integrate it into real-life planning and management projects, and effectively communicate their findings. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Other Enrollment Recommendations
WATS4580 BASE R DATA MGMT MANIP

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- GEOG1000 - Physical Geography (BPS)
  OR PSC2000 - The Atmosphere and Weather (BPS)

WATS5720 - Drone Data Analysis for Environmental Restoration - 2 - Credits

Course Overview

Course Prefix
WATS

Course Number
5720

Department
Watershed Sciences

Dual-Listed Courses
WATS6720 - Drone Data Analysis for Environmental Restoration

Course Title
Drone Data Analysis for Environmental Restoration

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Drones (UAV / UAS) have revolutionized data collection for natural resources (rivers, forestry, wildlife, wetlands, agriculture, etc.) and are used to evaluate restoration success. Students learn mission planning and drone-based data collection, processing, and analysis for natural resources applications. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Other Enrollment Recommendations
A GIS or remote sensing course.

No Requirements

WATS5790 - Small Watershed Hydrology (QI) - 4 - Credits

Course Overview

Course Prefix
WATS

Course Number
5790

Department
Watershed Sciences

Dual-Listed Courses
WATS6490 - Small Watershed Hydrology

Course Title
Small Watershed Hydrology (QI)

General Education Attribute
QI

Grade Mode
Standard Letter

Repeat Status
NR

Credit Hours

Credit Hours
Min:
4

Contact Hours

Contact Hours
Min:
4

Billing Hours

Billing Hours
Min:
4

Lecture Hours

Lecture Hours
Min:
4

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- MATH1100 - Calculus Techniques (QL)
  OR MATH1210 - Calculus I (QL)
- WATS3700 - Fundamentals of Watershed Science (CI)

WATS5800 - Watershed Sciences Departmental Seminar - 1 - Credits

Course Overview

Course Prefix
WATS

Course Number
5800

Department
Watershed Sciences

Dual-Listed Courses
WATS6800 - Watershed Sciences Departmental Seminar

Course Title
Watershed Sciences Departmental Seminar

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description

Exposes students to new developments in research and management in the fields of watershed sciences. Features participation by students, faculty, and guest lecturers. Graduate students participate in an additional reading and discussion group for the seminars.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Other Enrollment Recommendations

Graduate students should register for only one semester each year, but attend all year. Undergraduate students are only required to register once.

No Requirements

WATS6003 - Remote Sensing of Land Surfaces - 4 - Credits

Course Overview

Course Prefix
WATS

Course Number
6003

Department
Watershed Sciences

Dual-Listed Courses
WATS5003 - Remote Sensing of Land Surfaces

Course Title
Remote Sensing of Land Surfaces

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Basic principles of radiation and remote sensing. Techniques for ground-based measurements of reflected and emitted radiation, as well as ancillary data collection to support airborne and satellite remote sensing studies in agriculture, geography, and hydrology.

Credit Hours

Credit Hours Min:
4

Contact Hours

Contact Hours Min:
4

Billing Hours

Billing Hours Min:
4

Lecture Hours

Lecture Hours Min:
4

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- MATH1100 - Calculus Techniques (QL)
  OR MATH1210 - Calculus I (QL)
- PHYS2110 - General Physics—Life Sciences I
  OR PHYS2210 - Physics for Scientists and Engineers I (QI/BPS)

WATS6050 - Aquatic Ecosystems and Water Resources Systems Modeling - 2 - 4 Credits

Course Overview

Course Prefix
WATS

Course Number
6050

Department
Watershed Sciences

Course Title
Aquatic Ecosystems and Water Resources Systems Modeling

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Students will learn and develop water resources systems models (simulation and optimization) of rivers and watersheds that incorporate both aquatic ecosystems and economic water uses (water supply, hydropower...). 2 units: basic course; 4 units: basic course and an additional student-led systems modeling project.

Credit Hours

Credit Hours Min:
2

Credit Hours Max:
4

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
2

Contact Hours Max:
4

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
2

Billing Hours Max:
4

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
2

Lecture Hours Max:
4

Lecture Hours Operator:
TO

No Requirements

WATS6110 - Environmental Biogeochemistry - 3 - Credits

Course Overview

Course Prefix
WATS

Course Number
6110

Department
Watershed Sciences

Dual-Listed Courses
WATS5110 - Environmental Biogeochemistry

Course Title
Environmental Biogeochemistry

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students learn biological, hydrological, and geological controls on elemental cycling in Earth's critical zone. Application of elemental analyses to tracking environmental change and spatial/temporal variation in ecosystem processes is addressed. Human and natural controls are considered in aquatic, terrestrial, marine, and atmospheric environments. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

WATS6120 - Aquatic Production Biology - 2 - Credits

Course Overview

Course Prefix
WATS

Course Number
6120

Department
Watershed Sciences

Dual-Listed Courses
WATS7120 - Aquatic Production Biology

Course Title
Aquatic Production Biology

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Review of current literature on bacterial, algal, invertebrate, and fish production in lakes, rivers, and the sea. Particular emphasis is placed on whole-ecosystem productivity studies.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

No Requirements

WATS6150 - Fluvial Geomorphology - 3 - Credits

Course Overview

Course Prefix
WATS

Course Number
6150

Department
Watershed Sciences

Cross-Listed Courses
GEO6150 - Fluvial Geomorphology

Dual-Listed Courses
WATS5150 - Fluvial Geomorphology

Course Title
Fluvial Geomorphology

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Fluvial geomorphology is the study of rivers and how they shape the landscape. In this course, students will learn about river and floodplain forms and the physical and biotic processes that create them. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

WATS6155 - Fluvial Geomorphology - Reading Riverscapes - 3 - Credits

Course Overview

Course Prefix
WATS

Course Number
6155

Department
Watershed Sciences

Course Title
Fluvial Geomorphology - Reading Riverscapes

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Introduction to fluvial geomorphology through the reading of landscapes and riverscapes. Students learn an appreciation of riverscape diversity and how fluvial processes shape landscape form and character. Self-led field trips (in riverscapes of student's choosing) are required.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Course Learning Objectives

Course Learning Outcomes
1. Confidently read any riverscape and be able to map its core characteristics.

2. Differentiate influence of external controls (e.g., climate and catchment) vs. local controls on form and process.

3. Apply principles of geomorphic analysis to a diversity of riverscapes.

4. Recognize the primary controls on riverscape diversity, in which distinctive suites of physical and biotic processes (behavior) help shape the form and character of those landscapes.

5. Understand how hydrologic processes, give rise to hydraulic processes, which in local riverscapes determine the rates, magnitudes and occurrence of fluvial geomorphic processes.

6. Appreciate that topography is a quantitative record of landforms and apply morphometric analysis can be used to map and differentiate those landforms (i.e., geomorphic units).

7. Gain an appreciation of how geomorphic processes of erosion, deposition transport and storage of sediment shape topography and create, maintain, sculpt and destroy distinctive landforms.

8. Understand human impacts on riverscapes and fluvial forces.

9. Recognize how geomorphic analysis is used in practice to help manage riverscapes.

WATS6210 - The Secret Life of Elements on Earth - 2 - Credits

Course Overview

Course Prefix
WATS

Course Number
6210

Department
Watershed Sciences

Dual-Listed Courses
WATS5210 - The Secret Life of Elements on Earth

Course Title
The Secret Life of Elements on Earth

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Covering a broad, narrative overview of Earth systems and the influence of global change, this course will focus on a qualitative understanding of the planet and the biosphere, emphasizing systems thinking, using biogeochemical principles to understand processes in the environment. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

WATS6220 - Advanced Limnology - 2 - Credits

Course Overview

Course Prefix
WATS

Course Number
6220

Department
Watershed Sciences

Course Title
Advanced Limnology

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course reviews the literature on current topics in limnology, with a particular focus on ecosystem metabolism (drivers of primary production and community respiration) and aquatic ecology across the lower trophic levels (generally excluding fish).

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

No Requirements

WATS6230 - Fish Ecology - 2 - Credits

Course Overview

Course Prefix
WATS

Course Number
6230

Department
Watershed Sciences

Dual-Listed Courses
WATS7230 - Fish Ecology

Course Title
Fish Ecology

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Reviews current literature on physiological, behavioral, population, and the community ecology of fishes. Particular emphasis placed on current literature relevant to management of sport and endangered freshwater species.

Credit Hours

Credit Hours Min:
2

Contact Hours

Contact Hours Min:
2

Billing Hours

Billing Hours Min:
2

Lecture Hours

Lecture Hours Min:
2

No Requirements

WATS6240 - Graduate Internship/Co-op - 1 - 9 Credits

Course Overview

Course Prefix
WATS

Course Number
6240

Department
Watershed Sciences

Course Title
Graduate Internship/Co-op

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
This course involves a graduate-level educational experience in an internship/ cooperative education position approved by department.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
9

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
9

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
9

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
9

Lecture Hours Operator:
TO

No Requirements

WATS6260 - Watershed Sciences Graduate Student Induction Course - 1 - Credits

Course Overview

Course Prefix
WATS

Course Number
6260

Department
Watershed Sciences

Course Title
Watershed Sciences Graduate Student Induction Course

Grade Mode
Pass/Fail

Repeat Status
NR

Course Description
This 5 day field course introduces students to the big questions in Watershed Sciences and the Department community. Students learn about nearby watersheds and the rich diversity of approaches and technologies available to address research questions.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

WATS6270 - Big Ideas in Watershed Science - 2 - Credits

Course Overview

Course Prefix
WATS

Course Number
6270

Department
Watershed Sciences

Course Title
Big Ideas in Watershed Science

Grade Mode
Pass/Fail

Repeat Status
NR

Course Description
In this introductory course, students examine big ideas in watershed science and supporting disciplines of hydrology, geomorphology, biogeochemistry, and aquatic ecology. Students examine key concepts while exploring the methods, culture, and challenges of scientific inquiry.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

No Requirements

WATS6305 - Ecology and Restoration of Plants - 3 - Credits

Course Overview

Course Prefix
WATS

Course Number
6305

Department
Watershed Sciences

Dual-Listed Courses
WATS5305 - Ecology and Restoration of Plants

Course Title
Ecology and Restoration of Plants

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course explores plant ecology (including wetland and riparian species) in the context of ecosystem restoration. It focuses on the needs of plant propagules (e.g., seeds, rhizomes, cuttings) to inform effective revegetation to meet habitat and other restoration goals. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Course Learning Objectives

Course Learning Outcomes
1. Understand the fundamental principles of wetland and riparian plant ecology, including:
2. The wetland and riparian environment: hydrology, hydric soils, and biogeochemistry
3. Plant adaptations and responses to wetland conditions
4. Wetland plant population and community dynamics
5. Regeneration ecology: sexual (seeds) and asexual (clonal) reproduction
6. Analyze and critically evaluate how wetland and riparian plants can be utilized to meet restoration goals.
7. Apply ecological principles to the restoration of wetland and riparian plants.

WATS6311 - Field Botany: Wetland and Riparian Plants - 1 - Credits

Course Overview

Course Prefix
WATS

Course Number
6311

Department
Watershed Sciences

Dual-Listed Courses
WATS5311 - Field Botany: Wetland and Riparian Plants

Course Title
Field Botany: Wetland and Riparian Plants

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides field and laboratory experience with wetland and riparian plants as well as their surrounding habitats. It equips students with tools to professionally and independently identify species seen in these ecosystems. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

No Requirements

Course Learning Objectives

Course Learning Outcomes
1. Recognize major plant families found in wetland areas.
2. Use dichotomous keys in technical floras.
3. Be comfortable preparing research vouchers and working in a herbarium.

WATS6312 - Wetland Delineation - 1 - Credits

Course Overview

Course Prefix
WATS

Course Number
6312

Department
Watershed Sciences

Dual-Listed Courses
WATS5312 - Wetland Delineation

Course Title
Wetland Delineation

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers the basics of wetland delineation including the underlying ecological, biogeochemical, and hydrological processes. Students learn how to conduct delineations in real-world wetland settings when problem-solving and decision-making in the face of uncertainty are necessary. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Gain a basic understanding of wetland delineation and the underlying ecological, biogeochemical, and hydrological processes.
2. Learn to apply wetland delineation course material in the real world when problem-solving and decision-making in the face of uncertainty are necessary.
3. Develop specific skills and competencies needed by wetland professionals in the field of delineation.

WATS6340 - Prioritizing Conservation and Management Actions With Marxan - 3 - Credits

Course Overview

Course Prefix
WATS

Course Number
6340

Department
Watershed Sciences

Course Title
Prioritizing Conservation and Management Actions With Marxan

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Resources allocated to conservation and ecosystem management are limited. In this course, students learn how to prioritize resources allocated to environmental management, and are provided with the tools necessary to conduct their own landscape analyses using Marxan.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

WATS6350 - Capstone Mentoring - 1 - Credits

Course Overview

Course Prefix
WATS

Course Number
6350

Department
Watershed Sciences

Course Title
Capstone Mentoring

Grade Mode
Pass/Fail

Repeat Status
NR

Course Description
Students teach and apply principles, theory, and skills required for aquatic ecosystem management and restoration projects. Students learn leadership and followership skills as they mentor, provide guidance, and offer feedback for students developing capstone restoration projects in WATS 5350.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

No Requirements

WATS6360 - Wetland Ecology and Management - 3 - Credits

Course Overview

Course Prefix
WATS

Course Number
6360

Department
Watershed Sciences

Dual-Listed Courses
WATS5360 - Wetland Ecology and Management

Course Title
Wetland Ecology and Management

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Explores the physical, chemical, and biological structure of wetlands. Focuses on the major types of wetlands found in North America, as well as their ecology and management; U.S. wetland policy and mitigation; and regional, national, and global impacts on restoration of wetlands.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

WATS6400 - Communicating Science: A Short Course for Graduate Students - 1 - Credits

Course Overview

Course Prefix
WATS

Course Number
6400

Department
Watershed Sciences

Course Title
Communicating Science: A Short Course for Graduate Students

Grade Mode
Pass/Fail

Repeat Status
NR

Course Description
This course will help improve student's abilities to communicate scientific ideas and results to peers and the public. The course is designed for new graduate students who have not yet prepared their theses proposals or presented their pre-project seminars.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

No Requirements

WATS6450 - Ecological Analysis with Mixed Effects Models - 3 - Credits

Course Overview

Course Prefix
WATS

Course Number
6450

Department
Watershed Sciences

Course Title
Ecological Analysis with Mixed Effects Models

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Linear, logistic, and general additive analysis of biological and/or environmental data hierarchically structured (nested) within individuals or locations or time. This course includes foundational principles, mixed effects statistics, case studies, and students analyze their own data with instructor guidance.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Other Enrollment Recommendations
General statistical knowledge and proficiency with R Cran statistical software

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- WILD6500 - Design and Analysis of Ecological Research Using R

WATS6460 - Dynamic Models for Natural Resources Management Decisions - 3 - Credits

Course Overview

Course Prefix
WATS

Course Number
6460

Department
Watershed Sciences

Dual-Listed Courses
WATS7460 - Dynamic Models for Natural Resources Management Decisions

Course Title
Dynamic Models for Natural Resources Management Decisions

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students will learn how to design and fit models describing population dynamics (e.g., abundance, age-structure, state-transition), and then use these models in simulations to compare the outcomes of alternative management options (e.g., changes to harvest, connectivity, habitat).

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Other Enrollment Recommendations
Recommended that students are familiar and comfortable with the R Statistical Computing Environment.

WATS6490 - Small Watershed Hydrology - 4 - Credits

Course Overview

Course Prefix
WATS

Course Number
6490

Department
Watershed Sciences

Dual-Listed Courses
WATS5490 - Small Watershed Hydrology (QI)

Course Title
Small Watershed Hydrology

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Detailed exploration of concepts of hydrologic processes in small, wildland watersheds. Concentrates on recent research findings concerning examining key hydrological processes. Particular attention paid to study of partitioning of water in the hydrologic cycle, sources for runoff generation, snow and snowmelt, and erosion. Features process modeling and parameter estimation techniques as related to wildland systems. Additional oral and written assignments required for graduate students.

Credit Hours

Credit Hours
Min:
4

Contact Hours

Contact Hours
Min:
4

Billing Hours

Billing Hours
Min:
4

Lecture Hours

Lecture Hours
Min:
4

No Requirements

WATS6491 - Streamflow Analysis - 1 - Credits

Course Overview

Course Prefix
WATS

Course Number
6491

Department
Watershed Sciences

Course Title
Streamflow Analysis

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course will provide theory and applications for analyzing streamflow data, focusing on the scale of small wildland watershed. We will use conceptual and mathematical models to understand hydrologic processes and quantitatively predict stocks and fluxes of water.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

No Requirements

WATS6500 - Limnology: Ecology of Inland Waters - 3 - Credits

Course Overview

Course Prefix
WATS

Course Number
6500

Department
Watershed Sciences

Dual-Listed Courses
WATS5500 - Limnology: Ecology of Inland Waters

Course Title
Limnology: Ecology of Inland Waters

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers ecosystem analysis of physical, chemical, and biological interactions in lakes and streams. It includes the application of these concepts for managing aquatic systems. Graduate students write an additional research paper and present a lecture. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- CHEM1210 - Principles of Chemistry I
- CHEM1215 - Chemical Principles Laboratory I
- CHEM1220 - Principles of Chemistry II (BPS)
- CHEM1225 - Chemical Principles Laboratory II
- WATS2220 - General Ecology
  OR WATS3700 - Fundamentals of Watershed Science (CI)

WATS6530 - Water Quality and Pollution - 3 - Credits

Course Overview

Course Prefix
WATS

Course Number
6530

Department
Watershed Sciences

Dual-Listed Courses
WATS5530 - Water Quality and Pollution

Course Title
Water Quality and Pollution

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers sources, transport and transformation processes, impacts, prevention, and mitigation of the major categories of water pollution. It includes policy and management approaches required by the Clean Water Act and state law. Additional work is required for students registered in the graduate-level course.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

WATS6540 - Ichthyology - 4 - Credits

Course Overview

Course Prefix
WATS

Course Number
6540

Department
Watershed Sciences

Dual-Listed Courses
WATS5540 - Ichthyology

Course Title
Ichthyology

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Course covers systematics, evolution, taxonomy, anatomy, and physiology of fishes. Students learn fish diversity, how anatomical and physiological adaptations allow species to succeed in challenging environments, and how fishes' physiology can make them susceptible to anthropogenic changes. Includes labs/field trips. Additional coursework required for graduate-level course.

Credit Hours

Credit Hours Min:
4

Contact Hours

Contact Hours Min:
4

Billing Hours

Billing Hours Min:
4

Lecture Hours

Lecture Hours Min:
4

No Requirements

WATS6600 - Environmental Water Management - 3 - Credits

Course Overview

Course Prefix
WATS

Course Number
6600

Department
Watershed Sciences

Dual-Listed Courses
WATS5600 - Environmental Water Management

Course Title
Environmental Water Management

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers quantitative methods for analyzing large-scale water resources problems and focuses on managing water for freshwater ecosystems. It is useful for students in water resources, natural resources, fisheries, and physical sciences who work in systems with built infrastructure. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

WATS6626 - Advanced Project Planning of Low-Tech Process-Based Restoration of Riverscapes - 1 - Credits

Course Overview

Course Prefix
WATS

Course Number
6626

Department
Watershed Sciences

Course Title
Advanced Project Planning of Low-Tech Process-Based Restoration of Riverscapes

Grade Mode
Pass/Fail

Repeat Status
NR

Course Description
Advanced course in site-scale planning of LTPBR project using Riverscapes Studio. Students assess current, historic and potential future conditions of riverscape health to prepare for design.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Other Enrollment Recommendations
Students are recommended to be proficient in GIS.

Simple Requisites

A minimum grade of 'D' in Course WATS5622

Type
Prerequisite

Earn a minimum grade (UG) of D in the following:

- WATS5622 - Planning Low-Tech Process-Based Restoration of Riverscapes

Course Learning Objectives

Course Learning Outcomes

1. Conduct a desktop analysis in Riverscapes Studio of current conditions and recovery potential prior to visiting riverscape study site.
2. Visit field site, collect field observations, map and fly UAV and assess accuracy of desktop interpretations.
3. Combine field and desktop analyses to refine an assessment of riverscape health for current conditions, a historical baseline estimate and future recovery potential.
4. Prepare a planning assessment report and publish to Zenodo and publish supporting Riverscapes Studio Project to Data Exchange.
5. Present plan to stakeholders and peers and engage with feedback.

WATS6627 - Advanced Project Design of Low-Tech Process-Based Restoration of Riverscapes - 1 - Credits

Course Overview

Course Prefix
WATS

Course Number
6627

Department
Watershed Sciences

Course Title

Advanced Project Design of Low-Tech Process-Based Restoration of Riverscapes

Grade Mode
Pass/Fail

Repeat Status
NR

Course Description

Advanced course in site-scale design of LTPBR project using Riverscapes Studio. Students will conduct desktop and field designs, prepare design report and regulatory permit application.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Other Enrollment Recommendations

Students are recommended to be proficient in GIS.

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- WATS6626 - Advanced Project Planning of Low-Tech Process-Based Restoration of Riverscapes

Course Learning Objectives

Course Learning Outcomes

1. Prepare a preliminary desktop LTPBR design prior to visiting riverscape study site.
2. Visit field site, and make revisions to design using field maps and mobile Apps.
3. Combine field and desktop designs to prepare a final design, material quantity estimates, cost estimate and regulatory permit application.
4. Prepare a design report and publish to Zenodo and publish supporting Riverscapes Studio Project to Data Exchange.
5. Present design to stakeholders and peers and engage with feedback.

WATS6628 - Intro to Action-Effectiveness Monitoring of Riverscape Restoration Projects - 1 - Credits

Course Overview

Course Prefix
WATS

Course Number
6628

Department
Watershed Sciences

Course Title

Intro to Action-Effectiveness Monitoring of Riverscape Restoration Projects

Grade Mode
Pass/Fail

Repeat Status
NR

Course Description

Students learn how to monitor and assess riverscape health through a mix of desktop and field work. They conduct assessments in Riverscapes Studio, publish their findings, and present to peers.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Other Enrollment Recommendations

Students are recommended to be proficient in GIS.

Course Learning Objectives

Course Learning Outcomes

1. Develop and implement a field monitoring campaign.
2. Become proficient at monitoring and mapping from the field and the desktop through data capture events using Riverscapes Studio.
3. Calculate metrics and indicators of riverscape health.
4. Interpret and evaluate changes in riverscape health through time.
5. Prepare monitoring report and publish on Zeondo, publish Riverscapes Studio Projects to the Data Exchange and deliver presentation on findings.

WATS6629 - Screening & Prioritization of Riverscape Restoration - 1 - Credits

Course Overview

Course Prefix
WATS

Course Number
6629

Department
Watershed Sciences

Course Title
Screening & Prioritization of Riverscape Restoration

Grade Mode
Pass/Fail

Repeat Status
NR

Course Description
This course is an advanced geospatial analysis of riverscape network models for purposes of screening, filtering, contextualizing and prioritizing conservation and restoration actions. One-week short course in Logan.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Other Enrollment Recommendations
Students are recommended to be proficient in GIS

Course Learning Objectives

Course Learning Outcomes
1. Acquire, interpret and synthesize riverscape network models for a large basin, region or state of student's choosing within the lower-48 of USADevelop screening criteria tied to riverscape conservation, restoration and management objectives
2. Learn how to use SQL queries of geopackages to filter, screen and identify possible areas to carry out work.
3. Scope feasibility and apply further SQL queries to propose a prioritization plan
4. Present findings to class and publish a small report with maps, figures and tables summarizing and supporting your findings.

WATS6655 - Principles in Fishery Management - 3 - Credits

Course Overview

Course Prefix
WATS

Course Number
6655

Department
Watershed Sciences

Dual-Listed Courses
WATS5655 - Principles in Fishery Management

Course Title
Principles in Fishery Management

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Emphasizes management of fish populations within context of community and ecosystem dynamics. Stresses use of simulation models to assess effects of growth, recruitment, and mortality on age-structured populations.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

WATS6680 - Paleoclimatology - 3 - Credits

Course Overview

Course Prefix
WATS

Course Number
6680

Department
Watershed Sciences

Cross-Listed Courses
GEO6680 - Paleoclimatology, PSC6680 - Paleoclimatology

Dual-Listed Courses
WATS5680 - Paleoclimatology

Course Title
Paleoclimatology

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Covers climate through the past four billion years of geologic time. Explores driving forces behind climate changes. Examines data and methods used in paleoclimate research. Includes discussion of literature and stresses local paleoclimate records. Three lectures per week, along with field trips.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- GEO3600 - Geomorphology
  OR WATS3600 - Geomorphology

WATS6690 - Climate Data-Driven Resource Management - 3 - Credits

Course Overview

Course Prefix
WATS

Course Number
6690

Department
Watershed Sciences

Dual-Listed Courses
WATS5690 - Climate Data-Driven Resource Management

Course Title
Climate Data-Driven Resource Management

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
In this course, students learn to find and analyze relevant observed and future climate projection data, integrate it into real-life planning and management projects, and effectively communicate their findings. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Other Enrollment Recommendations

Students should have basic knowledge of weather and climate, coding, and GIS before taking this course

WATS6700 - Restoration Ecology - 4 - Credits

Course Overview

Course Prefix
WATS

Course Number
6700

Department
Watershed Sciences

Cross-Listed Courses
WILD6700 - Restoration Ecology

Course Title
Restoration Ecology

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Provides an understanding of ecological restoration, how to determine restoration goals, how to establish targets, and how to determine what are good measures of success. Teaches restoration implementation, best practices for restoration monitoring, and how to develop and sustain community support for restoration.

Credit Hours

Credit Hours
Min:
4

Contact Hours

Contact Hours
Min:
4

Billing Hours

Billing Hours
Min:
4

Lecture Hours

Lecture Hours
Min:
4

No Requirements

WATS6720 - Drone Data Analysis for Environmental Restoration - 2 - Credits

Course Overview

Course Prefix
WATS

Course Number
6720

Department
Watershed Sciences

Dual-Listed Courses
WATS5720 - Drone Data Analysis for Environmental Restoration

Course Title
Drone Data Analysis for Environmental Restoration

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Drones (UAV / UAS) have revolutionized data collection for natural resources (rivers, forestry, wildlife, wetlands, agriculture, etc.) and are used to evaluate restoration success. Students learn mission planning and drone-based data collection, processing, and analysis for natural resources applications. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Other Enrollment Recommendations
A GIS or remote sensing course.

No Requirements

WATS6750 - Prioritizing conservation and management actions with Marxan - 3 - Credits

Course Overview

Course Prefix
WATS

Course Number
6750

Department
Watershed Sciences

Course Title
Prioritizing conservation and management actions with Marxan

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Identifying areas for protection and management remains at the heart of conservation strategies. In this course, students learn the concepts behind systematic landscape planning, and are provided with the software skills and tools necessary to conduct landscape analyses.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

WATS6800 - Watershed Sciences Departmental Seminar - 1 - Credits

Course Overview

Course Prefix
WATS

Course Number
6800

Department
Watershed Sciences

Dual-Listed Courses
WATS5800 - Watershed Sciences Departmental Seminar

Course Title
Watershed Sciences Departmental Seminar

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
Exposes students to new developments in research and management in the fields of watershed sciences. Features participation by students, faculty, and guest lecturers. Graduate students should register for only one semester each year, but attend all year. Undergraduate students are only required to register once. Graduate students will participate in an additional reading and discussion group for the seminars.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Other Enrollment Recommendations

Graduate students should register for only one semester each year, but attend all year. Undergraduate students are only required to register once.

No Requirements

WATS6840 - Ecohydraulics - 3 - Credits

Course Overview

Course Prefix
WATS

Course Number
6840

Department
Watershed Sciences

Course Title
Ecohydraulics

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces ecohydraulics through a case study of managing fish habitat across the Columbia River Basin for salmon recovery. Students are exposed to fluvial hydraulic and geomorphology models to drive ecohydraulic models, which are then used to support life-cycle modeling.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

WATS6850 - Geomorphic Change Detection: Restoration Monitoring - 1 - Credits

Course Overview

Course Prefix
WATS

Course Number
6850

Department
Watershed Sciences

Course Title
Geomorphic Change Detection: Restoration Monitoring

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Instills background theory of geomorphic change detection and sediment budgeting in rivers and surveying with repeat topographic surveying. Builds proficiency in applying principles to real datasets using GCD software. 1 credit; 3 day workshop. ArcGIS experience recommended.

Credit Hours

Credit Hours Min:
1

Contact Hours

Contact Hours Min:
1

Billing Hours

Billing Hours Min:
1

Lecture Hours

Lecture Hours Min:
1

No Requirements

WATS6860 - Partnering with Beaver in Restoration Design - 1 - Credits

Course Overview

Course Prefix
WATS

Course Number
6860

Department
Watershed Sciences

Course Title
Partnering with Beaver in Restoration Design

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Covers stream/river restoration and conservation methods that partner with beaver as ecosystem engineers. Builds appreciation of beaver ecology and complex feedbacks between beaver activity, hydrogeomorphic responses, riparian vegetation and fish ecology. 1 credit; 3 day workshop.

Credit Hours

Credit Hours Min:
1

Contact Hours

Contact Hours Min:
1

Billing Hours

Billing Hours Min:
1

Lecture Hours

Lecture Hours Min:
1

No Requirements

WATS6870 - Ecology Seminar - 1 - Credits

Course Overview

Course Prefix
WATS

Course Number
6870

Department
Watershed Sciences

Course Title
Ecology Seminar

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
The Ecology Center schedules seminars with ecological scientists from participating institutions. Ecology majors are required to attend or view a minimum of 10 such lectures. Ecologically focused seminars offered by other departments and colleges may also be eligible for credit.

Credit Hours

Credit Hours Min:
1

Contact Hours

Contact Hours Min:
1

Billing Hours

Billing Hours Min:
1

Lecture Hours

Lecture Hours Min:
1

WATS6900 - Graduate Special Topics - 1 - 6 Credits

Course Overview

Course Prefix
WATS

Course Number
6900

Department
Watershed Sciences

Course Title
Graduate Special Topics

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Offers credit for special assignments, reading, and seminars beyond regularly scheduled courses.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
6

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
6

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
6

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
6

Lecture Hours Operator:
TO

WATS6910 - Directed Study - 1 - 6 Credits

Course Overview

Course Prefix
WATS

Course Number
6910

Department
Watershed Sciences

Course Title
Directed Study

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Offers credit for special assignments, reading, and seminars beyond regularly scheduled courses.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
6

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
6

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
6

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
6

Lecture Hours Operator:
TO

No Requirements

WATS6915 - GIS Fundamentals - 1 - Credits

Course Overview

Course Prefix
WATS

Course Number
6915

Department
Watershed Sciences

Course Title
GIS Fundamentals

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This intensive four week crash course is GIS and is intended for graduate students who are new to GIS or to serve as a refresher for those who have not used GIS for awhile. Students will build proficiency in producing maps in ArcGIS and disseminating interactive maps via Google Earth/Google Maps.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

WATS6940 - Snow Hydrology - 3 - Credits

Course Overview

Course Prefix
WATS

Course Number
6940

Department
Watershed Sciences

Cross-Listed Courses
CEE6940 - Snow Hydrology

Course Title
Snow Hydrology

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Focuses on snow science, including atmospheric formation, precipitation, distribution on the landscape, metamorphosis prior to melt, and snow pack melt dynamics. Also covers related issues, such as snow melt modeling, remote sensing, water supply, and biogeochemical cycling.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- WATS3700 - Fundamentals of Watershed Science (CI)
  OR CEE3430 - Engineering Hydrology

WATS6970 - Thesis Research - 1 - 12 Credits

Course Overview

Course Prefix
WATS

Course Number
6970

Department
Watershed Sciences

Course Title
Thesis Research

Grade Mode
Temporary Pass/Fail

Repeat Status
RP

Course Description
Offers credit for field or laboratory research at master's level.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
12

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
12

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
12

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
12

Lecture Hours Operator:
TO

No Requirements

WATS6990 - Continuing Graduate Advisement - 1 - 9 Credits

Course Overview

Course Prefix
WATS

Course Number
6990

Department
Watershed Sciences

Course Title
Continuing Graduate Advisement

Grade Mode
Temporary Pass/Fail

Repeat Status
RP

Course Description
Offers credit for students currently enrolled in a master's program, who are not currently taking classes. Students may be conducting research or waiting for final approval from School of Graduate Studies.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
9

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
9

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
9

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
9

Lecture Hours Operator:
TO

No Requirements

WATS7120 - Aquatic Production Biology - 2 - Credits

Course Overview

Course Prefix
WATS

Course Number
7120

Department
Watershed Sciences

Dual-Listed Courses
WATS6120 - Aquatic Production Biology

Course Title
Aquatic Production Biology

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Review of current literature on bacterial, algal, invertebrate, and fish production in lakes, rivers, and the sea. Particular emphasis is placed on whole-ecosystem productivity studies.

Credit Hours

Credit Hours Min:
2

Contact Hours

Contact Hours Min:
2

Billing Hours

Billing Hours Min:
2

Lecture Hours

Lecture Hours Min:
2

No Requirements

WATS7230 - Fish Ecology - 2 - Credits

Course Overview

Course Prefix
WATS

Course Number
7230

Department
Watershed Sciences

Dual-Listed Courses
WATS6230 - Fish Ecology

Course Title
Fish Ecology

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Reviews current literature on physiological, behavioral, population, and the community ecology of fishes. Particular emphasis placed on current literature relevant to management of sport and endangered freshwater species.

Credit Hours

Credit Hours Min:
2

Contact Hours

Contact Hours Min:
2

Billing Hours

Billing Hours Min:
2

Lecture Hours

Lecture Hours Min:
2

No Requirements

WATS7460 - Dynamic Models for Natural Resources Management Decisions - 3 - Credits

Course Overview

Course Prefix
WATS

Course Number
7460

Department
Watershed Sciences

Dual-Listed Courses
WATS6460 - Dynamic Models for Natural Resources Management Decisions

Course Title
Dynamic Models for Natural Resources Management Decisions

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students will learn how to design and fit models describing population dynamics (e.g., abundance, age-structure, state-transition), and then use these models in simulations to compare the outcomes of alternative management options (e.g., changes to harvest, connectivity, habitat).

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Other Enrollment Recommendations
Recommended that students are familiar and comfortable with the R Statistical Computing Environment.

WATS7640 - Riparian Ecology and Management - 3 - Credits

Course Overview

Course Prefix
WATS

Course Number
7640

Department
Watershed Sciences

Dual-Listed Courses
WATS5640 - Riparian Ecology and Management

Course Title
Riparian Ecology and Management

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Explores structure and function of riparian ecosystems and management options for maintaining sustainable ecological function.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- WATS2220 - General Ecology
  OR BIOL2220 - General Ecology
- WATS3700 - Fundamentals of Watershed Science (CI)

WATS7800 - Watershed Sciences Departmental Seminar - 1 - Credits

Course Overview

Course Prefix
WATS

Course Number
7800

Department
Watershed Sciences

Course Title
Watershed Sciences Departmental Seminar

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
Exposes students to new developments in research and management in the fields of watershed sciences. Features participation by students, faculty, and guest lecturers. Graduate students should register for only one semester each year, but attend all year. Undergraduate students are only required to register once. Graduate students will participate in an additional reading and discussion group for the seminars.

Credit Hours

Credit Hours Min:
1

Contact Hours

Contact Hours Min:
1

Billing Hours

Billing Hours Min:
1

Lecture Hours

Lecture Hours Min:
1

Other Enrollment Recommendations

Graduate students should register for only one semester each year, but attend all year. Undergraduate students are only required to register once.

No Requirements

WATS7900 - Graduate Special Topics - 1 - 6 Credits

Course Overview

Course Prefix
WATS

Course Number
7900

Department
Watershed Sciences

Course Title
Graduate Special Topics

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Offers credit for special assignments, reading, and seminars beyond regularly scheduled courses.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
6

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
6

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
6

Lecture Hours Operator:
TO

No Requirements

WATS7910 - Directed Study - 1 - 6 Credits

Course Overview

Course Prefix
WATS

Course Number
7910

Department
Watershed Sciences

Course Title
Directed Study

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Offers credit for special assignments, reading, and seminars beyond regularly scheduled courses.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
6

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
6

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
6

Lecture Hours Operator:
TO

No Requirements

WATS7970 - Dissertation Research - 1 - 12 Credits

Course Overview

Course Prefix
WATS

Course Number
7970

Department
Watershed Sciences

Course Title
Dissertation Research

Grade Mode
Temporary Pass/Fail

Repeat Status
RP

Course Description
Offers credit for field or laboratory research at doctoral level.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
12

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
12

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
12

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
12

Lecture Hours Operator:
TO

No Requirements

WATS7990 - Continuing Graduate Advisement - 1 - 9 Credits

Course Overview

Course Prefix
WATS

Course Number
7990

Department
Watershed Sciences

Course Title
Continuing Graduate Advisement

Grade Mode
Temporary Pass/Fail

Repeat Status
RP

Course Description
Offers credit for students currently enrolled in a doctoral program, who are not currently taking classes. Students may be conducting research or waiting for final approval from School of Graduate Studies.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
9

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
9

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
9

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
9

Lecture Hours Operator:
TO

No Requirements

WELD1010 - Beginning Arc Welding - 3 - Credits

Course Overview

Course Prefix
WELD

Course Number
1010

Department
Technology, Design & Technical Ed

Course Title
Beginning Arc Welding

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course is intended for the general public and for related training programs such as diesel mechanics and machining. As a beginning course, it covers the basics of the most common arc welding processes such as SMAW, GMAW, and FCAW.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

WELD1100 - Shielded Metal Arc Welding (SMAW) - 5 - Credits

Course Overview

Course Prefix
WELD

Course Number
1100

Department
Technology, Design & Technical Ed

Course Title
Shielded Metal Arc Welding (SMAW)

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course focuses on shielded metal arc welding (SMAW) including classroom and shop instruction. Oxy-fuel cutting (OFC) and weld shop safety are also covered. The course is intended for students seeking a 1-year certificate or 2-year AAS degree in welding.

Credit Hours

Credit Hours
Min:
5

Contact Hours

Contact Hours
Min:
5

Billing Hours

Billing Hours
Min:
5

Lecture Hours

Lecture Hours
Min:
5

No Requirements

WELD1110 - Advanced Shielded Metal Arc Welding (SMAW) - 5 - Credits

Course Overview

Course Prefix
WELD

Course Number
1110

Department
Technology, Design & Technical Ed

Course Title
Advanced Shielded Metal Arc Welding (SMAW)

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This is an advanced course in shielded metal arc welding. It provides classroom and shop instruction. The course is intended for students seeking a 1-year certificate or a 2-year AAS degree in welding.

Credit Hours

Credit Hours
Min:
5

Contact Hours

Contact Hours
Min:
5

Billing Hours

Billing Hours
Min:
5

Lecture Hours

Lecture Hours
Min:
5

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- WELD1100 - Shielded Metal Arc Welding (SMAW)

WELD1120 - Beginning Gas Metal Arc Welding (GMAW) and Flux Cored Arc Welding (FCAW) - 5 - Credits

Course Overview

Course Prefix
WELD

Course Number
1120

Department
Technology, Design & Technical Ed

Course Title
Beginning Gas Metal Arc Welding (GMAW) and Flux Cored Arc Welding (FCAW)

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course focuses on gas metal arc welding and flux cored arc welding. It provides classroom and shop instruction. The course is intended for students seeking a 1-year certificate or a 2-year AAS degree in welding.

Credit Hours

Credit Hours
Min:
5

Contact Hours

Contact Hours
Min:
5

Billing Hours

Billing Hours
Min:
5

Lecture Hours

Lecture Hours
Min:
5

No Requirements

WELD1130 - Advanced Gas Metal Arc Welding (GMAW) and Flux Cored Arc Welding (FCAW) - 5 - Credits

Course Overview

Course Prefix
WELD

Course Number
1130

Department
Technology, Design & Technical Ed

Course Title
Advanced Gas Metal Arc Welding (GMAW) and Flux Cored Arc Welding (FCAW)

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This is an advanced course in the gas metal arc and flux core arc welding processes. It provides classroom and shop instruction. The course is intended for students seeking a 1-year certificate or a 2-year AAS degree in welding.

Credit Hours

Credit Hours
Min:
5

Contact Hours

Contact Hours
Min:
5

Billing Hours

Billing Hours
Min:
5

Lecture Hours

Lecture Hours
Min:
5

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- WELD1120 - Beginning Gas Metal Arc Welding (GMAW) and Flux Cored Arc Welding (FCAW)

WELD1140 - Related Welding Processes - 5 - Credits

Course Overview

Course Prefix
WELD

Course Number
1140

Department
Technology, Design & Technical Ed

Course Title
Related Welding Processes

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces several secondary welding processes such as submerged arc welding, resistance welding, brazing, plasma cutting and others. It includes classroom and shop components and is primarily intended for students seeking a 2-year AAS degree.

Credit Hours

Credit Hours
Min:
5

Contact Hours

Contact Hours
Min:
5

Billing Hours

Billing Hours
Min:
5

Lecture Hours

Lecture Hours
Min:
5

Simple Requisites

Corequisite

Type
Corequisite

Required

Enroll in the following Courses:

- TEWT1111 - Shielded Metal Arc Welding (SMAW) I
- TEWT1112 - Shielded Metal Arc Welding (SMAW) II

WELD1150 - Beginning Gas Tungsten Arc Welding (GTAW) - 5 - Credits

Course Overview

Course Prefix
WELD

Course Number
1150

Department
Technology, Design & Technical Ed

Course Title
Beginning Gas Tungsten Arc Welding (GTAW)

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course focuses on gas tungsten arc welding. It provides classroom and shop instruction. The course is intended for students seeking a 1-year certificate or a 2-year AAS degree in welding.

Credit Hours

Credit Hours
Min:
5

Contact Hours

Contact Hours
Min:
5

Billing Hours

Billing Hours
Min:
5

Lecture Hours

Lecture Hours
Min:
5

No Requirements

WELD1160 - Advanced Gas Tungsten Arc Welding (GTAW) - 5 - Credits

Course Overview

Course Prefix
WELD

Course Number
1160

Department
Technology, Design & Technical Ed

Course Title
Advanced Gas Tungsten Arc Welding (GTAW)

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This is an advanced course in Gas Tungsten Arc Welding. It provides classroom and shop instruction. The course is intended for students seeking a 1-year certificate or a 2-year AAS degree in welding.

Credit Hours

Credit Hours
Min:
5

Contact Hours

Contact Hours
Min:
5

Billing Hours

Billing Hours
Min:
5

Lecture Hours

Lecture Hours
Min:
5

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- WELD1160 - Advanced Gas Tungsten Arc Welding (GTAW)

WELD1170 - Advanced Pipe Welding - 7 - Credits

Course Overview

Course Prefix
WELD

Course Number
1170

Department
Technology, Design & Technical Ed

Course Title
Advanced Pipe Welding

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers advanced material for students pursuing a career in petroleum pipeline welding. Pipe layout, fitting, and welding techniques are covered extensively. Students also learn proper use of pipeline-specific welding and cutting equipment, as well as industry-specific testing methods.

Credit Hours

Credit Hours
Min:
7

Contact Hours

Contact Hours
Min:
7

Billing Hours

Billing Hours
Min:
7

Lecture Hours

Lecture Hours
Min:
7

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- WELD1110 - Advanced Shielded Metal Arc Welding (SMAW)

WELD1500 - Professional Vocational Leadership - 1 - Credits

Course Overview

Course Prefix
WELD

Course Number
1500

Department
Technology, Design & Technical Ed

Course Title
Professional Vocational Leadership

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course supports and facilitates the objectives of SkillsUSA. In addition to welding skill development, students gain workplace and interview skills and skills in personal development, service, team building, and leadership. Students may participate in regional, state, and national competitions.

Credit Hours

Credit Hours Min:
1

Contact Hours

Contact Hours Min:
1

Billing Hours

Billing Hours Min:
1

Lecture Hours

Lecture Hours Min:
1

No Requirements

WELD1550 - Weld Sculpture - 3 - Credits

Course Overview

Course Prefix
WELD

Course Number
1550

Department
Technology, Design & Technical Ed

Course Title
Weld Sculpture

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This project-based course introduces students to artistic and sculptural welding. Oxy-fuel cutting and plasma cutting for sculptural welding applications is taught, as well as forging. Students also explore art theory, including elements and principles of design.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Course Learning Objectives

Course Learning Outcomes

1. Demonstrate proficiency in oxy-fuel cutting and plasma-arc cutting.
2. Develop a basic knowledge of forging.
3. Demonstrate knowledge in principles and elements of design, and implement them in your projects.
4. Become familiar with the safety aspects associated with welding and general fabrication shop safety issues. Each student must complete a written safety test, at 80% or above, before being allowed to work in the shop.
5. Demonstrate ability to use equipment setup, welding technique on steel, and bending, cutting, and shaping metal using a variety of methods in order to create artistic sculptures.
6. Demonstrate competency in material preparation and finishing (grinding, sanding, oxidizing for aesthetic purposes, clear coating).
7. Demonstrate an ability to design and sketch a project, create a written plan, and weld a sculptural project to fit the requirements of a rubric.
8. Learn how to source materials for projects in a sustainable and cost-effective way.

WELD2400 - Print Reading for Welders - 3 - Credits

Course Overview

Course Prefix
WELD

Course Number
2400

Department
Technology, Design & Technical Ed

Course Title
Print Reading for Welders

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Designed for beginners with no blueprint experience, this course teaches view arrangement, shape analysis, pictorial sketching, line types, dimensions, tolerances, finish marks, bills of materials, and threads, emphasizing welding symbols following American Welding Society standards for accurate interpretation.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

WELD2410 - Practical Fabrication and Layout - 5 - Credits

Course Overview

Course Prefix
WELD

Course Number
2410

Department
Technology, Design & Technical Ed

Course Title
Practical Fabrication and Layout

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course is designed for welding students to simulate on-the-job work experience. Students work with plans, determine size and selection of building materials, perform cost estimation, and build projects. Students use current fabrication techniques on personal and industry related projects.

Credit Hours

Credit Hours Min:
5

Contact Hours

Contact Hours Min:
5

Billing Hours

Billing Hours Min:
5

Lecture Hours

Lecture Hours Min:
5

No Requirements

WELD2500 - Weld Inspection - 3 - Credits

Course Overview

Course Prefix
WELD

Course Number
2500

Department
Technology, Design & Technical Ed

Course Title
Weld Inspection

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Designed for students preparing for the Certified Welding Inspector exam, this course reviews welding inspector duties, familiarizes students with welding codes, procedure and welder qualifications, and covers both destructive and non-destructive inspection methods used in the industry.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

WELD2600 - Metallurgy - 3 - Credits

Course Overview

Course Prefix
WELD

Course Number
2600

Department
Technology, Design & Technical Ed

Course Title
Metallurgy

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Introductory welding course for technology majors, covering metal characteristics and effects of welding techniques. Students study heat treatment processes, internal metal structures, identification methods, mechanical properties, failure and deformation, and isothermal and iron-carbon transformation diagrams used in industry.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

WELD2977 - Internship Experience - 3 - Credits

Course Overview

Course Prefix
WELD

Course Number
2977

Department
Technology, Design & Technical Ed

Course Title
Internship Experience

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This course provides supervised on-the-job training in general business functions. Learning objectives, hours worked and credit agreements are approved by the instructor.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Complete hours at an approved internship worksite.
2. Create measurable learning objectives for personal improvement projects.
3. Communicate effectively between relevant internship stakeholders.
4. Evaluate personal performance and workplace experience.
5. Reflect on the internship experience for personal lessons learned.

WELD2988 - Special Problems - 1 - 3 Credits

Course Overview

Course Prefix
WELD

Course Number
2988

Department
Technology, Design & Technical Ed

Course Title
Special Problems

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Individual work approved by instructor. Time and credit to be arranged.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

No Requirements

WILD2000 - Natural Resource Professional Orientation - 1 - Credits

Course Overview

Course Prefix
WILD

Course Number
2000

Department
Wildland Resources

Course Title
Natural Resource Professional Orientation

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Through a combination of in- and out-of-classroom activities, students develop an understanding of curriculum requirements and career opportunities associated with the Natural Resources majors. Students will also be introduced to natural resource management issues and research involving multiple disciplines.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

WILD2200 - Ecology of Our Changing World (BLS) - 3 - Credits

Course Overview

Course Prefix
WILD

Course Number
2200

Department
Wildland Resources

Course Title
Ecology of Our Changing World (BLS)

General Education Attribute
BLS

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Foundations of ecological and evolutionary relationships of organisms with other organisms and with the physical environment, emphasizing populations, communities, and ecosystems. Integration of basic science with applications of science to understanding human interactions with the environment.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

WILD2250 - Introductory Internship/Co-op - 1 - 3 Credits

Course Overview

Course Prefix
WILD

Course Number
2250

Department
Wildland Resources

Course Title
Introductory Internship/Co-op

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Introductory-level educational experience in internship/cooperative education position approved by department.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

Special Approval
Department permission

No Requirements

WILD2400 - Wildland Resource Techniques - 3 - Credits

Course Overview

Course Prefix
WILD

Course Number
2400

Department
Wildland Resources

Course Title
Wildland Resource Techniques

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Introduction to research and management techniques for wildlife, range, and forest resources. Emphasizes field and laboratory skills for studying and managing wild plants and animals.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Registration Restrictions
Admission to a major in the QCNR

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Fulfill ALL of the following requirements:

Required

Earn a minimum grade of C- in the following:

- MATH1050 - College Algebra (QL)

or higher

AND

Required

Complete ALL of the following Courses:

- BIOL1610 - Biology I
- BIOL1620 - Biology II (BLS)

WILD2450 - Wildland Fire Operations - 2 - Credits

Course Overview

Course Prefix
WILD

Course Number
2450

Department
Wildland Resources

Course Title
Wildland Fire Operations

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course is an introduction to fire behavior, wildland firefighter training, and human factors on the fireline intended to prepare a student to be qualified as a Wildland Firefighter (FFT2) under the National Wildfire Coordinating Group.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

No Requirements

Course Learning Objectives

Course Learning Outcomes
1. This course covers an introduction to fire behavior, wildland firefighter training, and human factors on the fireline.
2. The course is a combination of on-line learning, classroom review, and field exercises.

WILD2800 - Introduction to Geographic Information Sciences - 4 - Credits

Course Overview

Course Prefix
WILD

Course Number
2800

Department
Wildland Resources

Course Title
Introduction to Geographic Information Sciences

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces students to the background and theory behind geographic information systems and spatial analysis. Students learn to integrate and analyze spatial information from different geographic sources. The course includes a weekly laboratory section.

Credit Hours

Credit Hours
Min:
4

Contact Hours

Contact Hours
Min:
4

Billing Hours

Billing Hours
Min:
4

Lecture Hours

Lecture Hours
Min:
4

No Requirements

WILD3100 - Introduction to Wildland Fire - 3 - Credits

Course Overview

Course Prefix
WILD

Course Number
3100

Department
Wildland Resources

Course Title
Introduction to Wildland Fire

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course introduces students to science and management of wildland fire. Topics include combustion and fire behavior, fire ecology, and fire management and policy.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

WILD3200 - Marine Ecology: Expedition Sea of Cortez (DSC) - 3 - Credits

Course Overview

Course Prefix
WILD

Course Number
3200

Department
Watershed Sciences

Cross-Listed Courses
WATS3200 - Marine Ecology: Expedition Sea of Cortez (DSC)

Course Title
Marine Ecology: Expedition Sea of Cortez (DSC)

General Education Attribute
DSC

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Explore marine ecology in Baja Mexico through snorkeling, remote island camping, and working with local conservationists. This immersive field course introduces seabirds, marine mammals, and diverse marine ecosystems in a hands-on learning experience within a vibrant marine protected area.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Special Approval

Study abroad

WILD3300 - Wildlife Behavior - 3 - Credits

Course Overview

Course Prefix
WILD

Course Number
3300

Department
Wildland Resources

Course Title
Wildlife Behavior

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers principles, concepts, and mechanisms of animal behavior, emphasizing behavioral ecology, development, and comparative aspects of special relevance to management of fish and wildlife.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- BIOL1610 - Biology I
- BIOL1620 - Biology II (BLS)
- BIOL2220 - General Ecology
  OR WATS2220 - General Ecology

WILD3500 - Introduction to Rangeland Management - 3 - Credits

Course Overview

Course Prefix
WILD

Course Number
3500

Department
Wildland Resources

Course Title
Introduction to Rangeland Management

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers ecological principles and calculations used in making rangeland management decisions. Students compete in the Society for Range Management (SRM) Undergraduate Range Management Exam (URME) to demonstrate critical thinking skills and synthesis range knowledge.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

WILD3600 - Advanced Plant Identification and Terminology - 3 - Credits

Course Overview

Course Prefix
WILD

Course Number
3600

Department
Wildland Resources

Course Title
Advanced Plant Identification and Terminology

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students identify 200 North American rangeland plants, including grasses, forbs, shrubs, and trees. Advanced taxonomic nomenclature is used to describe herbarium mounts; life span; origin; season of growth; inflorescence, flower, spikelet, or other reproductive parts; vegetative parts; and growth characteristics.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

WILD3800 - Wildland Plants and Ecosystems - 4 - Credits

Course Overview

Course Prefix
WILD

Course Number
3800

Department
Wildland Resources

Course Title
Wildland Plants and Ecosystems

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Autecology and identification of dominant plants in important terrestrial ecosystems of the Intermountain West, and the structure, function, and dynamics of those ecosystems as related to the environment.

Credit Hours

Credit Hours
Min:
4

Contact Hours

Contact Hours
Min:
4

Billing Hours

Billing Hours
Min:
4

Lecture Hours

Lecture Hours
Min:
4

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- BIOL1620 - Biology II (BLS)
- WATS2220 - General Ecology
  OR BIOL2220 - General Ecology

department authorization required for all nonmajors

WILD3810 - Wildlife Population Ecology - 3 - Credits

Course Overview

Course Prefix
WILD

Course Number
3810

Department
Wildland Resources

Course Title
Wildlife Population Ecology

Grade Mode
Standard Letter

Repeat Status
NR

Course Description

Basics of animal population ecology, including population regulation, life histories, single and multi-species interactions, and metapopulations. Case studies will cover topics of both management and conservation concern.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Fulfill ALL of the following requirements:

Required

Complete ALL of the following Courses:

- WATS2220 - General Ecology
  OR BIOL2220 - General Ecology

AND

Required

Earn a minimum grade of C- in the following:

- MATH1100 - Calculus Techniques (QL)

or higher MATH course

AND

Required

Earn a minimum grade of C- in the following:

- STAT2000 - Statistical Methods (QI)
  OR STAT3000 - Statistics for Scientists (QI)

WILD3820 - Forest Plants: Identification, Biology, and Function - 3 - Credits

Course Overview

Course Prefix
WILD

Course Number
3820

Department
Wildland Resources

Course Title
Forest Plants: Identification, Biology, and Function

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course explores the identification, biology, and function of forest plants of western North America with an emphasis on the woody plants of Utah?s forest ecosystems. Introduction to woody plant anatomy, forest communities, and indicator species.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Earn a minimum grade of C- in the following:

- MATH1050 - College Algebra (QL)

or higher

WILD3830 - Range Plant Taxonomy and Function - 3 - Credits

Course Overview

Course Prefix
WILD

Course Number
3830

Department
Wildland Resources

Course Title
Range Plant Taxonomy and Function

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This is a field and laboratory-based course. Students will learn how to identify dominant grass, forb, and woody plants of the Intermountain West using taxonomic keys.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Admission to a WILD department major

No Requirements

WILD3850 - Vegetation and Habitat Management - 3 - Credits

Course Overview

Course Prefix
WILD

Course Number
3850

Department
Wildland Resources

Course Title
Vegetation and Habitat Management

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Applying ecological principles and concepts to manipulate the composition, structure, and productivity of wildland vegetation for a range of objectives, including the creation and maintenance of wildlife habitat, using biological, chemical, and mechanical methods, as well as fire.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- WILD3800 - Wildland Plants and Ecosystems

WILD3880 - Genetics in Conservation and Management - 3 - Credits

Course Overview

Course Prefix
WILD

Course Number
3880

Department
Wildland Resources

Course Title
Genetics in Conservation and Management

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Introduces principles of modern genetics, with applications, examples, and assignments related to ecology and management issues. Emphasizes genetic marker systems, gene flow, genetic drift, and adaptation.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- BIOL1610 - Biology I

WILD4000 - Principles of Rangeland Management - 3 - Credits

Course Overview

Course Prefix
WILD

Course Number
4000

Department
Wildland Resources

Course Title
Principles of Rangeland Management

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Modern principles of rangeland management, including history of the profession, ecology, plant physiology, impacts of grazing on individual plants and plant communities, grazing management, range animal nutrition, rangeland watersheds, and the economics and planning of rangeland practices. Also introduces range-wildlife relations and vegetation manipulation.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

WILD4100 - Scientific Communication for Natural Resource Professionals (CI) - 3 - Credits

Course Overview

Course Prefix
WILD

Course Number
4100

Department
Wildland Resources

Course Title
Scientific Communication for Natural Resource Professionals (CI)

General Education Attribute
CI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course is designed to enhance the scientific literacy skills of natural resource professionals by teaching: 1) how to read scientific articles, and 2) how to communicate scientific information effectively in written and oral form to different audiences.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- ENGL2010 - Research and Argument Across Perspectives (CL2)

WILD4150 - Post-Fire Restoration and Management - 3 - Credits

Course Overview

Course Prefix
WILD

Course Number
4150

Department
Wildland Resources

Course Title
Post-Fire Restoration and Management

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Techniques for restoring ecological function and ecosystem services following wildfire. Students learn how science, ecological principles, and modern technology are used to inventory fire severity, plan treatments, manage long term ecosystem recovery, and monitor natural resources affected by wildfire.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Other Enrollment Recommendations

WILD3100 WILDLAND FIRE

No Requirements

Course Learning Objectives

Course Learning Outcomes

1. Synthesize and discuss published fire effects research from various wildland ecosystems.
2. Predict post-fire vegetation response based upon fire severity, soils, and ecological information.
3. Understand how post-fire recovery is influences by climate, topography and vegetation.
4. Design a post fire restoration treatment plan.

WILD4200 - Forest Health Topics - 2 - Credits

Course Overview

Course Prefix
WILD

Course Number
4200

Department
Wildland Resources

Course Title
Forest Health Topics

Grade Mode
Pass/Fail

Repeat Status
NR

Course Description
This is a seminar class focusing on various insect and fungal pathogens in forest tree species. Required field trip(s) are included.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Other Enrollment Recommendations

WILD 3820

No Requirements

Course Learning Objectives

Course Learning Outcomes

Course Learning Outcomes:

1. This course is a seminar class with discussion and two field trips.

2. Topics include various insect and fungal forest pathogens and will involve guest lectures from the professional community as well as in-house lecturers.

WILD4250 - Advanced Internship/Co-op - 1 - 9 Credits

Course Overview

Course Prefix
WILD

Course Number
4250

Department
Wildland Resources

Course Title
Advanced Internship/Co-op

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
Advanced-level educational experience in internship/cooperative education position approved by department.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
9

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
9

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
9

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
9

Lecture Hours Operator:
TO

Special Approval
Department permission

No Requirements

WILD4340 - Range Ruminant Nutrition and Management - 3 - Credits

Course Overview

Course Prefix
WILD

Course Number
4340

Department
Wildland Resources

Dual-Listed Courses
WILD6340 - Range Ruminant Nutrition and Management

Course Title
Range Ruminant Nutrition and Management

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
The purpose of this course is to explore the nutrition of ruminants grazing on rangelands under the framework of environmental variablity and animal adaptations.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

WILD4500 - Principles of Wildlife Management - 3 - Credits

Course Overview

Course Prefix
WILD

Course Number
4500

Department
Wildland Resources

Course Title
Principles of Wildlife Management

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Provides students with a working knowledge of the application of basic concepts in ecology and animal behavior to the management of wildlife resources to achieve diverse objectives of conservation, control, or cropping.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- WILD3810 - Wildlife Population Ecology

WILD4550 - Wildlife Law Enforcement - 3 - Credits

Course Overview

Course Prefix
WILD

Course Number
4550

Department
Wildland Resources

Course Title
Wildlife Law Enforcement

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Explores essential topics relating to enforcement of wildlife and other natural resource laws, including applicable state and federal laws, policy formulation, rights of the individual, search and seizure, field forensic procedures, and the judicial process.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

WILD4570 - Forest Ecology of the Sierra Nevada and White Mountains - 3 - Credits

Course Overview

Course Prefix
WILD

Course Number
4570

Department
Wildland Resources

Dual-Listed Courses
WILD6570 - Forest Ecology of the Sierra Nevada and White Mountains

Course Title
Forest Ecology of the Sierra Nevada and White Mountains

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This field experience uses an ongoing research project at the Yosemite Forest Dynamics Plot as a vehicle for learning field methods, natural history, and ecological theory. Students learn the ecology of mixed-conifer forests of the Sierra Nevada and bristlecone pine.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

WILD4600 - Conservation Biology - 3 - Credits

Course Overview

Course Prefix
WILD

Course Number
4600

Department
Wildland Resources

Course Title
Conservation Biology

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Patterns and processes creating biological diversity. Causes and consequences of diversity losses from genes to ecosystems, including habitat fragmentation and exotic invasion. Conservation laws and organizations. Approaches to conserving diversity loss, including reserve design, corridors, and species reintroductions.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- WATS2220 - General Ecology
  OR BIOL2220 - General Ecology

WILD4640 - Studies in the American West - 3 - Credits

Course Overview

Course Prefix
WILD

Course Number
4640

Department
Wildland Resources

Course Title
Studies in the American West

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This interdisciplinary course in American Studies explores the region of the West through the analysis of literary texts, historical sources, and socio-cultural materials.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

WILD4700 - Ecological Foundations of Restoration - 3 - Credits

Course Overview

Course Prefix
WILD

Course Number
4700

Department
Wildland Resources

Course Title
Ecological Foundations of Restoration

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
An advanced plant ecology course emphasizing topics especially relevant to successful establishment of plants in disturbed environments and restoration of functioning dynamic ecosystems. It covers basic ecological processes from the population the ecosystem level and applications to ecological restoration.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- BIOL1610 - Biology I
- BIOL1620 - Biology II (BLS)
- WATS2220 - General Ecology
  OR BIOL2220 - General Ecology

WILD4750 - Monitoring and Assessment in Natural Resource and Environmental Management - 4 - Credits

Course Overview

Course Prefix
WILD

Course Number
4750

Department
Wildland Resources

Course Title
Monitoring and Assessment in Natural Resource and Environmental Management

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Lectures, laboratory exercises, and field-based projects introduce students to the concepts, strategies, and analytical methods of natural resource and environmental monitoring and assessment.

Credit Hours

Credit Hours
Min:
4

Contact Hours

Contact Hours
Min:
4

Billing Hours

Billing Hours
Min:
4

Lecture Hours

Lecture Hours
Min:
4

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Fulfill ALL of the following requirements:

Required

Complete ALL of the following Courses:

- BIOL2220 - General Ecology
  OR WATS2220 - General Ecology
- WILD2400 - Wildland Resource Techniques

AND

Required

Earn a minimum grade of C- in the following:

- MATH1100 - Calculus Techniques (QL)

or higher MATH course

AND

Required

Earn a minimum grade of C- in the following:

- STAT2000 - Statistical Methods (QI)
  OR STAT3000 - Statistics for Scientists (QI)

WILD4910 - Vegetation Resource Management and Planning (CI) - 3 - Credits

Course Overview

Course Prefix
WILD

Course Number
4910

Department
Wildland Resources

Course Title
Vegetation Resource Management and Planning (CI)

General Education Attribute
CI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students conduct science-based assessments of natural resources through implementation of analytical methods and synthesis. Case studies are used to develop concepts, strategies, and problem-solving skills. Basic GIS and remote sensing skills are also developed.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- WILD2400 - Wildland Resource Techniques
- WILD3800 - Wildland Plants and Ecosystems

WILD4950 - Special Topics - 1 - 3 Credits

Course Overview

Course Prefix
WILD

Course Number
4950

Department
Wildland Resources

Course Title
Special Topics

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Individual study and research upon selected problems.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

Special Approval

Department permission

No Requirements

WILD4960 - Directed Readings - 1 - 3 Credits

Course Overview

Course Prefix
WILD

Course Number
4960

Department
Wildland Resources

Course Title
Directed Readings

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
Individual reading research on forest, range, and wildlife science readings.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

Special Approval

Departmental approval

No Requirements

WILD4970 - Undergraduate Research - 1 - 3 Credits

Course Overview

Course Prefix
WILD

Course Number
4970

Department
Wildland Resources

Course Title
Undergraduate Research

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Individual or team research.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
3

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
3

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
3

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Lecture Hours Operator:
TO

Special Approval

Department permission

No Requirements

WILD4980 - Undergraduate Seminar - 1 - Credits

Course Overview

Course Prefix
WILD

Course Number
4980

Department
Wildland Resources

Course Title
Undergraduate Seminar

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
Review of current research by graduate students and faculty. Exposes students to new developments in research and management in the fields of wildland resources. Features participation by students, faculty, and guest lecturers.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

No Requirements

WILD5100 - Forests and Fuels Measuring & Modeling - 3 - Credits

Course Overview

Course Prefix
WILD

Course Number
5100

Department
Wildland Resources

Course Title
Forests and Fuels Measuring & Modeling

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers forest and fuels measurements, sampling techniques, and data collection and calculations. In addition, students learn surface and crown fire behavior, assumptions inherent to modeling, and how models are used in planning and management.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Other Enrollment Recommendations

WILD4750 MONITOR/ASSMNT IN NR

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- WILD2400 - Wildland Resource Techniques
- WILD3100 - Introduction to Wildland Fire

Course Learning Objectives

Course Learning Outcomes

1. This course covers forest and fuels measurements, sampling techniques, and data collection and calculations.
2. Topics include field measurements of trees and stands, tree growth, and fuel loads.
3. In addition, the course covers basic wildfire behavior and introduces students to common fire behavior modeling platforms including BehavePlus, IFTDSS and FlamMap.
4. Students will learn surface and crown fire behavior, assumptions inherent to modeling, and how models are used in planning and management.

WILD5220 - Community-based Conservation Partnerships - 3 - Credits

Course Overview

Course Prefix
WILD

Course Number
5220

Department
Wildland Resources

Dual-Listed Courses

WILD7220 - Community-based Conservation Partnerships

Course Title

Community-based Conservation Partnerships

Grade Mode
Standard Letter

Repeat Status
NR

Course Description

Seeks to infuse ecology with applied conservation and management approaches. Conservation and management of natural resources requires an understanding of ecological relationships and strategies for working with diverse stakeholders. PhD-level students present their research.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

WILD5300 - Human-Wildlife Interactions - 3 - Credits

Course Overview

Course Prefix
WILD

Course Number
5300

Department
Wildland Resources

Dual-Listed Courses

WILD7300 - Human-Wildlife Interactions

Course Title

Human-Wildlife Interactions

Grade Mode
Standard Letter

Repeat Status
NR

Course Description

This course explains current legal, ethical, and biological principles for the control and/or management of problem vertebrate species.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Admission to a QCNR major

WILD5310 - Forest Stand Dynamics - 3 - Credits

Course Overview

Course Prefix
WILD

Course Number
5310

Department
Wildland Resources

Dual-Listed Courses
WILD6310 - Forest Stand Dynamics

Course Title
Forest Stand Dynamics

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides students with in-depth knowledge and exposure to important concepts and literature associated with the study of tree growth, production ecology, dendrochronology, and forest stand development. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

WILD5320 - Wildland Field Skills I - 1 - Credits

Course Overview

Course Prefix
WILD

Course Number
5320

Department
Wildland Resources

Dual-Listed Courses
WILD6320 - Wildland Field Skills I

Course Title
Wildland Field Skills I

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
This course is a set of workshops and training exercises related to core practical skills needed for fieldwork in natural resources. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- WILD2400 - Wildland Resource Techniques

may be taken concurrently

WILD5321 - Wildland Field Skills II - 1 - Credits

Course Overview

Course Prefix
WILD

Course Number
5321

Department
Wildland Resources

Dual-Listed Courses
WILD6321 - Wildland Field Skills II

Course Title
Wildland Field Skills II

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
This course is a set of workshops and training exercises related to core practical skills needed for fieldwork in natural resources. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- WILD2400 - Wildland Resource Techniques

may be taken concurrently

WILD5322 - Wildland Field Skills III - 1 - Credits

Course Overview

Course Prefix
WILD

Course Number
5322

Department
Wildland Resources

Dual-Listed Courses
WILD6322 - Wildland Field Skills III

Course Title
Wildland Field Skills III

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
This course is a set of workshops and training exercises related to core practical skills needed for fieldwork in natural resources. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- WILD2400 - Wildland Resource Techniques

may be taken concurrently

WILD5340 - Range Ruminant Nutrition and Management - 3 - Credits

Course Overview

Course Prefix
WILD

Course Number
5340

Department
Wildland Resources

Dual-Listed Courses
WILD6340 - Range Ruminant Nutrition and Management

Course Title
Range Ruminant Nutrition and Management

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
The purpose of this course is to explore the nutrition of ruminants grazing on rangelands under the framework of environmental variablity and animal adaptations.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

WILD5350 - Wildland Soils - 3 - Credits

Course Overview

Course Prefix
WILD

Course Number
5350

Department
Wildland Resources

Cross-Listed Courses
PSC5350 - Wildland Soils

Dual-Listed Courses
WILD6350 - Wildland Soils

Course Title
Wildland Soils

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Application of basic principles of soil science to wildland ecosystems. Effects of disturbance and land use on wildland soil properties. Role of soils in natural resource management.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- CHEM1110 - General Chemistry I (BPS)
- PSC3000 - Fundamentals of Soil Science

and one additional upper-division Soils course

WILD5560 - Applied Avian Ecology (CI) - 3 - Credits

Course Overview

Course Prefix
WILD

Course Number
5560

Department
Wildland Resources

Dual-Listed Courses
WILD6560 - Applied Avian Ecology

Course Title
Applied Avian Ecology (CI)

General Education Attribute
CI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Application of ecological principles to avian population, community and habitat management. Includes applied aspects of physiology, anatomy, and taxonomy of N.A. bird groups, and review of state and federal management plans and practices.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- BIOL1620 - Biology II (BLS)
- WATS2220 - General Ecology
  OR BIOL2220 - General Ecology
- ENGL2010 - Research and Argument Across Perspectives (CL2)

WILD5570 - Forest Ecology of the Sierra Nevada and White Mountains - 3 - Credits

Course Overview

Course Prefix
WILD

Course Number
5570

Department
Wildland Resources

Dual-Listed Courses
WILD6570 - Forest Ecology of the Sierra Nevada and White Mountains

Course Title
Forest Ecology of the Sierra Nevada and White Mountains

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
This field experience uses an ongoing research project at the Yosemite Forest Dynamics Plot as a vehicle for learning field methods, natural history, and ecological theory. Students learn the ecology of mixed-conifer forests of the Sierra Nevada and bristlecone pine.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

WILD5580 - Mammalogy - 3 - Credits

Course Overview

Course Prefix
WILD

Course Number
5580

Department
Wildland Resources

Cross-Listed Courses
BIOL5580 - Mammalogy

Course Title
Mammalogy

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course teaches evolution, adaptations, distribution, natural history, behavior, and identification of mammals of the world, with special emphasis on North American species. It consists of two lectures and one lab.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- BIOL1620 - Biology II (BLS)
- BIOL1625 - Biology II Laboratory

WILD5680 - Management and Manipulation of Ecological Data Using R - 1 - Credits

Course Overview

Course Prefix
WILD

Course Number
5680

Department
Wildland Resources

Dual-Listed Courses
WILD6680 - Management and Manipulation of Ecological Data Using R

Course Title
Management and Manipulation of Ecological Data Using R

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides instruction on the underpinnings of the R computing and statistical environment, as well as how to manage and manipulate data in the R environment. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

WILD5700 - Forest Assessment and Management (CI) - 3 - Credits

Course Overview

Course Prefix
WILD

Course Number
5700

Department
Wildland Resources

Course Title
Forest Assessment and Management (CI)

General Education Attribute
CI

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Detailed analysis of forest stand structure and growth. Development of silvicultural prescriptions to meet specific objectives. Analysis of costs and benefits of alternative forest management strategies. Emphasizes forest management to achieve a broad range of objectives.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Admission to a WILD major

WILD5710 - Forest Vegetation Disturbance Ecology and Management - 3 - Credits

Course Overview

Course Prefix
WILD

Course Number
5710

Department
Wildland Resources

Course Title
Forest Vegetation Disturbance Ecology and Management

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Examines causes, effects, and management options for selected biotic and abiotic agents of disturbance in wildland ecosystems.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

WILD5750 - Applied Remote Sensing - 3 - Credits

Course Overview

Course Prefix
WILD

Course Number
5750

Department
Wildland Resources

Dual-Listed Courses
WILD6750 - Applied Remote Sensing

Course Title
Applied Remote Sensing

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Covers the application of remote sensing to landcover mapping and resource monitoring at a quantitative level. Students instructed on the effects of atmosphere and surface interaction on the reflectance collected by electro-optical sensors, as well as on the proper use and interpretation of various calibration and classification algorithms.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

WILD5860 - Poisonous Range Plants Affecting Livestock - 3 - Credits

Course Overview

Course Prefix
WILD

Course Number
5860

Department
Wildland Resources

Cross-Listed Courses
ADVS5860 - Poisonous Range Plants Affecting Livestock

Course Title
Poisonous Range Plants Affecting Livestock

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Introductory course on toxic plants and plant-induced diseases affecting livestock in the western U.S., combining lectures, field trips, and labs. Covers toxin mechanisms, diagnosis, treatment, and prevention. Intended for producers, educators, scientists, veterinarians, toxicologists, and diagnosticians. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

WILD6060 - Applied Bayesian Analysis of Ecological Data - 3 - Credits

Course Overview

Course Prefix
WILD

Course Number
6060

Department
Wildland Resources

Course Title
Applied Bayesian Analysis of Ecological Data

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course focuses on Bayesian statistical methods and their application to ecological data. Concepts discussed during lectures are reinforced through lab exercises focused on implementing statistical models using modern software tools (e.g., R, JAGS, NIMBLE).

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Other Enrollment Recommendations
Students should have at least one semester of both graduate-level basic ecology and introductory statistics. (Suggestions include WILD6500 DESIGN/ANALYSIS USING R and WILD6600 GRADUATE ECOLOGY) In addition, students should be proficient with R and RStudio.

Course Learning Objectives

Course Learning Outcomes
The primary objective of this course is to give you the tools to tackle your research questions using rigorous statistical models appropriate for your data. In particular, you will leave this course with:

· A firm understanding of the foundational principles underlying common ecological models

· The ability to express mathematical/statistical models as they apply to common ecological datasets

· The ability to convert those models into working code for Bayesian data analyses

· The confidence needed to design, analyze, and report original ecological research using

WILD6100 - Scientific Communication for Natural Resource Professionals - 3 - Credits

Course Overview

Course Prefix
WILD

Course Number
6100

Department
Wildland Resources

Course Title
Scientific Communication for Natural Resource Professionals

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course is designed to enhance the scientific literacy skills of natural resource professionals by teaching: 1) how to read scientific articles, and 2) how to communicate scientific information effectively in written and oral form to different audiences.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

WILD6150 - Graduate Research Management - 2 - Credits

Course Overview

Course Prefix
WILD

Course Number
6150

Department
Wildland Resources

Dual-Listed Courses
WILD7150 - Graduate Research Management

Course Title
Graduate Research Management

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course offers an introduction to research management skills for graduate students, including proposal writing, citation management, publication peer review, reproducible data management, budget development, mentoring and supervising technicians.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

No Requirements

WILD6200 - Biogeochemistry of Terrestrial Ecosystems - 3 - Credits

Course Overview

Course Prefix
WILD

Course Number
6200

Department
Wildland Resources

Cross-Listed Courses
BIOL6200 - Biogeochemistry of Terrestrial Ecosystems

Course Title
Biogeochemistry of Terrestrial Ecosystems

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Carbon and nutrient cycles play a crucial role in shaping terrestrial ecosystem structure and function. This course offers a framework for understanding biogeochemical cycles, emphasizing their importance at both the ecosystem and global scales, and their relevance to ecosystem management.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Special Approval
Instructor permission

WILD6240 - Graduate Internship/Co-op - 1 - 9 Credits

Course Overview

Course Prefix
WILD

Course Number
6240

Department
Wildland Resources

Course Title
Graduate Internship/Co-op

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Graduate-level educational experience in internship/cooperative education position approved by department.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
9

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
9

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
9

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
9

Lecture Hours Operator:
TO

No Requirements

WILD6310 - Forest Stand Dynamics - 3 - Credits

Course Overview

Course Prefix
WILD

Course Number
6310

Department
Wildland Resources

Dual-Listed Courses
WILD5310 - Forest Stand Dynamics

Course Title
Forest Stand Dynamics

Grade Mode
Standard Letter

Repeat Status
NR

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

WILD6320 - Wildland Field Skills I - 1 - Credits

Course Overview

Course Prefix
WILD

Course Number
6320

Department
Wildland Resources

Dual-Listed Courses
WILD5320 - Wildland Field Skills I

Course Title
Wildland Field Skills I

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
This course is a set of workshops and training exercises related to core practical skills needed for fieldwork in natural resources. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

No Requirements

WILD6321 - Wildland Field Skills II - 1 - Credits

Course Overview

Course Prefix
WILD

Course Number
6321

Department
Wildland Resources

Dual-Listed Courses
WILD5321 - Wildland Field Skills II

Course Title
Wildland Field Skills II

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
This course is a set of workshops and training exercises related to core practical skills needed for fieldwork in natural resources. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

No Requirements

WILD6322 - Wildland Field Skills III - 1 - Credits

Course Overview

Course Prefix
WILD

Course Number
6322

Department
Wildland Resources

Dual-Listed Courses
WILD5322 - Wildland Field Skills III

Course Title
Wildland Field Skills III

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
This course is a set of workshops and training exercises related to core practical skills needed for fieldwork in natural resources. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

No Requirements

WILD6340 - Range Ruminant Nutrition and Management - 3 - Credits

Course Overview

Course Prefix
WILD

Course Number
6340

Department
Wildland Resources

Dual-Listed Courses
WILD5340 - Range Ruminant Nutrition and Management

Course Title
Range Ruminant Nutrition and Management

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
The purpose of this course is to explore the nutrition of ruminants grazing on rangelands under the framework of environmental variability and animal adaptations.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

WILD6350 - Wildland Soils - 3 - Credits

Course Overview

Course Prefix
WILD

Course Number
6350

Department
Wildland Resources

Cross-Listed Courses
PSC6350 - Wildland Soils

Dual-Listed Courses
WILD5350 - Wildland Soils

Course Title
Wildland Soils

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Application of basic principles of soil science to wildland ecosystems. Effects of disturbance and land use on wildland soil properties. Role of soils in natural resource management.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- CHEM1110 - General Chemistry I (BPS)
- PSC3000 - Fundamentals of Soil Science

and one additional upper-division Soils course

WILD6400 - Ecology of Animal Populations - 3 - Credits

Course Overview

Course Prefix
WILD

Course Number
6400

Department
Wildland Resources

Course Title
Ecology of Animal Populations

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Growth, fluctuation, balance, and control of animal populations.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

WILD6401 - Population State Variables - 2 - Credits

Course Overview

Course Prefix
WILD

Course Number
6401

Department
Wildland Resources

Course Title
Population State Variables

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
You will learn how to estimate and monitor population abundance using capture-mark-recapture and distance sampling methods. You will also learn how to use Occupancy models to examine metapopulation dynamics, habitat use, species occurrence, and species interactions when detection is not perfect.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- STAT5100 - Modern Regression Methods (CI/QI)
  OR WILD6500 - Design and Analysis of Ecological Research Using R

WILD6402 - Demographic Vital Rates - 1 - Credits

Course Overview

Course Prefix
WILD

Course Number
6402

Department
Wildland Resources

Course Title
Demographic Vital Rates

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Reproduction, survival and dispersal are the underlying vital rates that cause change in population abundance. The importance of variation in life history strategies will be discussed, and you will learn how to estimate vital rates using generalized linear models, capture-mark-recapture and multi-state models.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- STAT5100 - Modern Regression Methods (CI/QI)
  OR WILD6401 - Population State Variables
  OR WILD6500 - Design and Analysis of Ecological Research Using R

WILD6403 - Dynamics of Structured Populations - 2 - Credits

Course Overview

Course Prefix
WILD

Course Number
6403

Department
Wildland Resources

Course Title
Dynamics of Structured Populations

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
You will learn how to develop and analyze structured population models, including the implications of density-dependence and stochasticity on the dynamics of structured populations. You will also learn how to conduct perturbation analyses and use demographic models to study life history evolution.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

No Requirements

WILD6500 - Design and Analysis of Ecological Research Using R - 3 - Credits

Course Overview

Course Prefix
WILD

Course Number
6500

Department
Wildland Resources

Course Title
Design and Analysis of Ecological Research Using R

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course examines research design from a statistical perspective, showing how data analysis is largely determined by research design and its implementation. It reviews statistical tools for analysis of ecological data in the context of design.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions

Graduate standing

No Requirements

WILD6520 - Generalized Linear Models and Hierarchical Models for Life Scientists - 1 - Credits

Course Overview

Course Prefix
WILD

Course Number
6520

Department
Wildland Resources

Course Title
Generalized Linear Models and Hierarchical Models for Life Scientists

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course is an introduction to generalized linear models and hierarchical models for life scientists. Emphasis is placed on fundamental theoretical concepts, model fitting, and model assessment using R. Ecological and environmental examples are employed throughout the course.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

Registration Restrictions
Student must have graduate standing

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- WILD6500 - Design and Analysis of Ecological Research Using R

Course Learning Objectives

Course Learning Outcomes
1. Be familiar with generalized linear models for unbounded and bounded counts.
2. Be able to fit and assess Poisson, negative binomial, binomial, and conditional logit models in R.
3. Understand how the model of the variance enters into generalized least squares estimation, and understand how the constant variance and independence assumptions are structured in generalized least squares.
4. Differentiate among model assumptions when the covariance matrix is a) an identity matrix, b) a diagonal matrix, c) a block-diagonal matrix, d) an autoregressive structure.
5. Understand how to structure the covariance matrix to account for non-constant variance and temporal autocorrelation and be able to fit these models using the nlme package in R.
6. Understand the basics of hierarchical modeling and be able to identify key aspects of hierarchy within a study design.
7. Fit and assess hierarchical models in R.

WILD6550 - Behavioral Ecology of Wildlife - 3 - Credits

Course Overview

Course Prefix
WILD

Course Number
6550

Department
Wildland Resources

Course Title
Behavioral Ecology of Wildlife

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course explores how an animal's behavior allows it to meet the challenges of survival, which include staying safe from predators, finding food, establishing a home, navigating, communicating with others, reproducing, and helping offspring to survive.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

WILD6560 - Applied Avian Ecology - 3 - Credits

Course Overview

Course Prefix
WILD

Course Number
6560

Department
Wildland Resources

Dual-Listed Courses
WILD5560 - Applied Avian Ecology (CI)

Course Title
Applied Avian Ecology

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Application of ecological principles to avian population, community and habitat management. Includes applied aspects of physiology, anatomy, and taxonomy of N.A. bird groups, and review of state and federal management plans and practices.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Complete ALL of the following Courses:

- BIOL1620 - Biology II (BLS)
- WATS2220 - General Ecology
  OR BIOL2220 - General Ecology

WILD6570 - Forest Ecology of the Sierra Nevada and White Mountains - 3 - Credits

Course Overview

Course Prefix
WILD

Course Number
6570

Department
Wildland Resources

Dual-Listed Courses
WILD5570 - Forest Ecology of the Sierra Nevada and White Mountains

Course Title
Forest Ecology of the Sierra Nevada and White Mountains

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This field experience uses an ongoing research project at the Yosemite Forest Dynamics Plot as a vehicle for learning field methods, natural history, and ecological theory. Students learn the ecology and management issues relating to the mixed-conifer forests of the Sierra Nevada and bristlecone pine ecosystems of the White Mountains.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

WILD6580 - Management and Manipulation of Ecological Data Using R - 1 - Credits

Course Overview

Course Prefix
WILD

Course Number
6580

Department
Wildland Resources

Course Title
Management and Manipulation of Ecological Data Using R

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides instruction on the underpinnings of the R computing and statistical environment, as well as how to manage and manipulate data in the R environment.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

WILD6600 - Graduate Ecology - 3 - Credits

Course Overview

Course Prefix
WILD

Course Number
6600

Department
Wildland Resources

Course Title
Graduate Ecology

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course offers a graduate-level introduction to concepts and models surrounding population and metapopulation dynamics, consumer-resource interactions, competition, and biodiversity. Students build ecological literacy while developing mathematical modeling skills and translating theory to their own projects.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Registration Restrictions
Graduate standing

No Requirements

WILD6680 - Management and Manipulation of Ecological Data Using R - 1 - Credits

Course Overview

Course Prefix
WILD

Course Number
6680

Department
Wildland Resources

Dual-Listed Courses
WILD5680 - Management and Manipulation of Ecological Data Using R

Course Title
Management and Manipulation of Ecological Data Using R

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course provides instruction on the underpinnings of the R computing and statistical environment, as well as how to manage and manipulate data in the R environment. Additional coursework is required for those enrolled in the graduate-level course.

Credit Hours

Credit Hours
Min:
1

Contact Hours

Contact Hours
Min:
1

Billing Hours

Billing Hours
Min:
1

Lecture Hours

Lecture Hours
Min:
1

WILD6700 - Restoration Ecology - 4 - Credits

Course Overview

Course Prefix
WILD

Course Number
6700

Department
Wildland Resources

Dual-Listed Courses
WATS6700 - Restoration Ecology

Course Title
Restoration Ecology

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Provides an understanding of ecological restoration, how to determine restoration goals, how to establish targets, and how to determine what are good measures of success. Teaches restoration implementation, best practices for restoration monitoring, and how to develop and sustain community support for restoration.

Credit Hours

Credit Hours
Min:
4

Contact Hours

Contact Hours
Min:
4

Billing Hours

Billing Hours
Min:
4

Lecture Hours

Lecture Hours
Min:
4

No Requirements

WILD6710 - Landscape Ecology - 3 - Credits

Course Overview

Course Prefix
WILD

Course Number
6710

Department
Wildland Resources

Course Title
Landscape Ecology

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
The course focuses on landscape-scale patterns and processes, and ways of understanding ecological complexity. It explores underpinnings of larger-scale ecology and emphasizes gaining hands-on experience applying landscape ecology concepts with data in R.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

Other Enrollment Recommendations
Ability to demonstrate geospatial skills using R

Simple Requisites

Prerequisite

Type
Prerequisite

Required

Fulfill ANY of the following requirements:

Option 1

Complete ALL of the following Courses:

- GEOG5300 - Geospatial Analysis with R
  OR GEOG6300 - Geospatial Analysis with R

may be taken concurrently

OR

Option 2

Complete ALL of the following Courses:

- NR6950 - Geospatial Analysis for Natural Resource Management

may be taken concurrently

WILD6720 - Advanced Conservation Biology - 3 - Credits

Course Overview

Course Prefix
WILD

Course Number
6720

Department
Wildland Resources

Dual-Listed Courses

WILD7720 - Advanced Conservation Biology

Course Title

Advanced Conservation Biology

Grade Mode
Standard Letter

Repeat Status
NR

Course Description

Examines cases and consequences of population and species declines, including activities such as habitat fragmentation and introduction of exotic species, as well as natural causes due to genetics and demography.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

WILD6730 - Forest Community Ecology - 4 - Credits

Course Overview

Course Prefix
WILD

Course Number
6730

Department
Wildland Resources

Course Title

Forest Community Ecology

Grade Mode
Standard Letter

Repeat Status
NR

Course Description

Community ecology of forest ecosystems. Quantitative methods of community description. Analytic treatment of scientific literature and an emphasis on critical scientific writing. Role of limiting factors, competition, and disturbance in determining community composition, structure, and dynamics.

Credit Hours

Credit Hours
Min:
4

Contact Hours

Contact Hours
Min:
4

Billing Hours

Billing Hours
Min:
4

Lecture Hours

Lecture Hours
Min:
4

No Requirements

WILD6750 - Applied Remote Sensing - 3 - Credits

Course Overview

Course Prefix
WILD

Course Number
6750

Department
Wildland Resources

Dual-Listed Courses
WILD5750 - Applied Remote Sensing

Course Title
Applied Remote Sensing

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Covers the application of remote sensing to landcover mapping and resource monitoring at a quantitative level. Students instructed on the effects of atmosphere and surface interaction on the reflectance collected by electro-optical sensors, as well as on the proper use and interpretation of various calibration and classification algorithms.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

WILD6770 - Community Ecology - 3 - Credits

Course Overview

Course Prefix
WILD

Course Number
6770

Department
Wildland Resources

Course Title
Community Ecology

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students learn theory and concepts of plant community ecology. They explore plant community composition, distribution in space, and dynamics in time. Species environmental response models, competition theory, statistical predictive models, and concepts of multivariate analysis in plant ecology are discussed.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

WILD6800 - Wildland Resources Departmental Seminar - 1 - Credits

Course Overview

Course Prefix
WILD

Course Number
6800

Department
Wildland Resources

Dual-Listed Courses
WILD7800 - Wildland Resources Departmental Seminar

Course Title
Wildland Resources Departmental Seminar

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
Review of current research by graduate students and faculty. Exposes students to new developments in research and management in the fields of wildland resources. Features participation by students, faculty, and guest lecturers. Graduate students are required to register for one semester of seminar credit but are encouraged to attend as many seminars as possible throughout their academic experience.

Credit Hours

Credit Hours Min:
1

Contact Hours

Contact Hours Min:
1

Billing Hours

Billing Hours Min:
1

Lecture Hours

Lecture Hours Min:
1

No Requirements

WILD6870 - Ecology Seminar - 1 - Credits

Course Overview

Course Prefix
WILD

Course Number
6870

Department
Wildland Resources

Course Title
Ecology Seminar

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
The Ecology Center schedules seminars with ecological scientists from participating institutions. Ecology majors are required to attend or view a minimum of 10 such lectures. Ecologically focused seminars offered by other departments and colleges may also be eligible for credit.

Credit Hours

Credit Hours Min:
1

Contact Hours

Contact Hours Min:
1

Billing Hours

Billing Hours Min:
1

Lecture Hours

Lecture Hours Min:
1

No Requirements

WILD6880 - Space-Use Ecology - 1 - 2 Credits

Course Overview

Course Prefix
WILD

Course Number
6880

Department
Wildland Resources

Course Title
Space-Use Ecology

Grade Mode
Pass/Fail

Repeat Status
NR

Course Description
This course provides graduate students with a basic understanding of hypotheses-driven analyses of organismal positional data (telemetry, surveys, traps, cameras, etc.) in an ecological context. The course also increases capacity for analysis implementation.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
2

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
2

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
2

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
2

Lecture Hours Operator:
TO

Registration Restrictions

Graduate standing

No Requirements

WILD6900 - Graduate Special Topics - 1 - 6 Credits

Course Overview

Course Prefix
WILD

Course Number
6900

Department
Wildland Resources

Course Title
Graduate Special Topics

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Offers credit for special assignments, reading, and seminars beyond regularly scheduled courses.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
6

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
6

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
6

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
6

Lecture Hours Operator:
TO

No Requirements

WILD6910 - Directed Study - 1 - 6 Credits

Course Overview

Course Prefix
WILD

Course Number
6910

Department
Wildland Resources

Course Title
Directed Study

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Offers credit for special assignments, reading, and seminars beyond regularly scheduled courses.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
6

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
6

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
6

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
6

Lecture Hours Operator:
TO

No Requirements

WILD6920 - Python Programming For GIS - 3 - Credits

Course Overview

Course Prefix
WILD

Course Number
6920

Department
Wildland Resources

Course Title
Python Programming For GIS

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Students learn the basics of the Python programming language and how to use it with various GIS packages, including ArcGIS and GDAL. The course also introduces other Python modules that are useful for working with GIS data.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Other Enrollment Recommendations

Basic GIS knowledge

No Requirements

WILD6970 - Thesis Research - 1 - 12 Credits

Course Overview

Course Prefix
WILD

Course Number
6970

Department
Wildland Resources

Course Title
Thesis Research

Grade Mode
Temporary Pass/Fail

Repeat Status
RP

Course Description
Original research for MS degree.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
12

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
12

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
12

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
12

Lecture Hours Operator:
TO

No Requirements

WILD6990 - Continuing Graduate Advisement - 1 - 9 Credits

Course Overview

Course Prefix
WILD

Course Number
6990

Department
Wildland Resources

Course Title
Continuing Graduate Advisement

Grade Mode
Temporary Pass/Fail

Repeat Status
RP

Course Description
This course provides graduate students with continued support and advisement. It is usually taken following completion of all coursework required for the degree.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
9

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
9

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
9

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
9

Lecture Hours Operator:
TO

No Requirements

WILD7000 - Theory and Applications of Wildland Ecosystem Management - 3 - Credits

Course Overview

Course Prefix
WILD

Course Number
7000

Department
Wildland Resources

Course Title
Theory and Applications of Wildland Ecosystem Management

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course covers the application of wildland management principles, new theory, and public policy to on-the-ground decision-making in wildland ecosystems. Field trips are required.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

WILD7030 - Plant-Herbivore Interactions - 3 - Credits

Course Overview

Course Prefix
WILD

Course Number
7030

Department
Wildland Resources

Course Title
Plant-Herbivore Interactions

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Emphasizes principles of self-organization as applied to plant (tolerance and avoidance of herbivory) and herbivore (food and habitat selection) behavior. Stresses importance of history and ongoing interactions with the environment in understanding the dynamics of plant-herbivore interactions.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

WILD7150 - Graduate Research Management - 2 - Credits

Course Overview

Course Prefix
WILD

Course Number
7150

Department
Wildland Resources

Course Title
Graduate Research Management

Grade Mode
Pass/Fail

Repeat Status
NR

Course Description
This course offers an introduction to research management skills for graduate students, including proposal writing, citation management, publication peer review, reproducible data management, budget development, mentoring and supervising technicians.

Credit Hours

Credit Hours
Min:
2

Contact Hours

Contact Hours
Min:
2

Billing Hours

Billing Hours
Min:
2

Lecture Hours

Lecture Hours
Min:
2

No Requirements

WILD7220 - Community-based Conservation Partnerships - 3 - Credits

Course Overview

Course Prefix
WILD

Course Number
7220

Department
Wildland Resources

Dual-Listed Courses
WILD5220 - Community-based Conservation Partnerships

Course Title
Community-based Conservation Partnerships

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Seeks to infuse ecology with applied conservation and management approaches. Conservation and management of natural resources requires an understanding of ecological relationships and strategies for working with diverse stakeholders. PhD-level students present their research.

Credit Hours

Credit Hours
Min:
3

Contact Hours

Contact Hours
Min:
3

Billing Hours

Billing Hours
Min:
3

Lecture Hours

Lecture Hours
Min:
3

No Requirements

WILD7300 - Human-Wildlife Interactions - 3 - Credits

Course Overview

Course Prefix
WILD

Course Number
7300

Department
Wildland Resources

Dual-Listed Courses
WILD5300 - Human-Wildlife Interactions

Course Title
Human-Wildlife Interactions

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
This course explains current legal, ethical, and biological principles for the control and/or management of problem vertebrate species.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

Registration Restrictions

Admission to a QCNR major

No Requirements

WILD7400 - Plant Population Ecology - 3 - Credits

Course Overview

Course Prefix
WILD

Course Number
7400

Department
Wildland Resources

Course Title
Plant Population Ecology

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Dynamics of plant populations as influenced by interactions with their abiotic and, especially, biotic environments. Topics include dormancy and germination strategies, intra- and interspecific competition, facilitation, disturbance, herbivory, pathogenic and mutualistic fungi, pollination, seed dispersal, and vegetative reproduction.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

WILD7720 - Advanced Conservation Biology - 3 - Credits

Course Overview

Course Prefix
WILD

Course Number
7720

Department
Wildland Resources

Dual-Listed Courses
WILD6720 - Advanced Conservation Biology

Course Title
Advanced Conservation Biology

Grade Mode
Standard Letter

Repeat Status
NR

Course Description
Examines cases and consequences of population and species declines, including activities such as habitat fragmentation and introduction of exotic species, as well as natural causes due to genetics and demography.

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
3

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
3

No Requirements

WILD7800 - Wildland Resources Departmental Seminar - 1 - Credits

Course Overview

Course Prefix
WILD

Course Number
7800

Department
Wildland Resources

Course Title
Wildland Resources Departmental Seminar

Grade Mode
Pass/Fail

Repeat Status
RP

Course Description
Review of current research by graduate students and faculty. Exposes students to new developments in research and management in the fields of wildland resources. Features participation by students, faculty, and guest lecturers. Graduate students are required to register for one semester of seminar credit but are encouraged to attend as many seminars as possible throughout their academic experience.

Credit Hours

Credit Hours Min:
1

Contact Hours

Contact Hours Min:
1

Billing Hours

Billing Hours Min:
1

Lecture Hours

Lecture Hours Min:
1

No Requirements

WILD7900 - Graduate Special Topics - 1 - 6 Credits

Course Overview

Course Prefix
WILD

Course Number
7900

Department
Wildland Resources

Course Title
Graduate Special Topics

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Offers credit for special assignments, reading, and seminars beyond regularly scheduled courses.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
6

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
6

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
6

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
6

Lecture Hours Operator:
TO

No Requirements

WILD7910 - Directed Study - 1 - 6 Credits

Course Overview

Course Prefix
WILD

Course Number
7910

Department
Wildland Resources

Course Title
Directed Study

Grade Mode
Standard Letter

Repeat Status
RP

Course Description
Offers credit for special assignments, reading, and seminars beyond regularly scheduled courses.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
6

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
6

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
6

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
6

Lecture Hours Operator:
TO

No Requirements

WILD7970 - Dissertation Research - 1 - 12 Credits

Course Overview

Course Prefix
WILD

Course Number
7970

Department
Wildland Resources

Course Title
Dissertation Research

Grade Mode
Temporary Pass/Fail

Repeat Status
RP

Course Description
Original research and study for PhD degree.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
12

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
12

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
12

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
12

Lecture Hours Operator:
TO

No Requirements

WILD7990 - Continuing Graduate Advisement - 1 - 9 Credits

Course Overview

Course Prefix
WILD

Course Number
7990

Department
Wildland Resources

Course Title
Continuing Graduate Advisement

Grade Mode
Temporary Pass/Fail

Repeat Status
RP

Course Description
This course provides graduate students with continued support and advisement. It is usually taken following completion of all coursework required for the degree.

Credit Hours

Credit Hours Min:
1

Credit Hours Max:
9

Credit Hours Operator:
TO

Contact Hours

Contact Hours Min:
1

Contact Hours Max:
9

Contact Hours Operator:
TO

Billing Hours

Billing Hours Min:
1

Billing Hours Max:
9

Billing Hours Operator:
TO

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
9

Lecture Hours Operator:
TO

No Requirements

Course Sets

Communications Literacy (CL1) Course

- LANG2420 - Writing from Academic Sources (CL1)
- CIVC1110 - Navigating Human Difference (CL1)
- CIVC1100 - Flourishing and the Good Life (CL1)
- ENGL1010 - Writing as Inquiry (CL1)

Communications Literacy (CL2) Course

- ENGL2020 - Professional Communication (CL2)
- CIVC2100 - Freedom, Equality, and Justice (CL2)
- HIST2730 - Writing about Indigenous Histories and Cultures (CL2)
- ENGL2010 - Research and Argument Across Perspectives (CL2)

Breadth Humanities (BHU) Course

- THEA1713 - Playscript Analysis (BHU)
- PI2010 - Introduction to Peace Building and Transformative Conflict (BHU)
- PI1010 - Introduction to Peace Building and Transformative Conflict (BHU)
- ENGL2300 - Introduction to Shakespeare (BHU)
- RELS1680 - Horses, Humans, and Gods (BHU)
- RELS1090 - Introduction to Interfaith Leadership (BHU)
- RELS1070 - Religion, Violence, and Peace (BHU)
- RELS1010 - Introduction to Religious Studies (BHU)
- POLS2300 - Introduction to Political Theory (BHU)
- PHIL2600 - Introduction to Philosophy of Religions (BHU)
- PHIL2400 - Ethics (BHU)
- PHIL1500 - The Examined College Life: Education and Its Ends (BHU)
- PHIL1320 - The Good Life (BHU)
- PHIL1250 - Practical Logic (BHU)
- PHIL1130 - Living in a Brave New World: Philosophy and Technology (BHU)
- PHIL1120 - Social Ethics (BHU)
- PHIL1000 - Introduction to Philosophy (BHU)
- OPDD1750 - History of Outdoor Products (BHU)
- NAS1010 - Introduction to Native American Studies (BHU)
- LAEP2300 - History of Landscape Architecture (BHU)
- HONR1320 - Civilization: Humanities (H)(BHU)
- HIST2210 - Introduction to Folklore (BHU)
- HIST1510 - The Modern World (BHU)
- HIST1500 - Pre-Modern World (BHU)
- HIST1110 - European History from 1500 (BHU)
- HIST1100 - European History to 1500 (BHU)
- ENGL2640 - Race and Ethnicity in the United States (BHU)
- ENGL2630 - Introduction to American Studies (BHU)
- ENGL2350 - Indigenous Voices (BHU)
- ENGL2330 - Introduction to Children's Literature (BHU)
- ENGL2250 - Introduction to Creative Writing (BHU)
- ENGL2240 - Introduction to Poetry (BHU)
- ENGL2230 - Introduction to Film (BHU)
- ENGL2220 - Introduction to Fiction (BHU)
- ENGL2210 - Introduction to Folklore (BHU)
- ENGL2200 - Understanding Literature (BHU)
- ENGL2070 - Introduction to Digital Humanities (BHU)
- ENGL2060 - Reading Across Borders (BHU)
- ENGL2050 - Literature by Women (BHU)
- CMST2110 - Interpersonal Communication (BHU)
- CMST1020 - Public Speaking (BHU)
- CLAS1010 - Introduction to Classical Studies (BHU)
- ARTH2730 - Art of the African Diaspora (BHU)
- ARTH2720 - Survey of Western Art: Renaissance to Post-Modern (BHU)
- ARTH2710 - Survey of Western Art: Prehistoric to Medieval (BHU)
- ANTH2210 - Introduction to Folklore (BHU)
- ANTH2011 - Introduction to Peoples of the Southwest (BHU)
- ANTH1090 - Introduction to Interfaith Leadership (BHU)
- USU1320 - Civilization: Humanities (BHU)

Quantitative Intensive (QI) Course

- WATS5790 - Small Watershed Hydrology (QI)
- WATS5490 - Small Watershed Hydrology (QI)
- WATS4490 - Small Watershed Hydrology (QI)
- STAT2000 - Statistical Methods (QI)
- RAM4200 - Community-Based Program Planning, Implementation, and Evaluation
- PHIL2200 - Deductive Logic (QI)
- MATH4230 - Applied Mathematics in Biology (QI)
- MATH2280 - Ordinary Differential Equations (QI)
- MATH2270 - Linear Algebra (QI)
- MATH2020 - Euclidean Geometry & Statistics for Elementary Education School Teachers (QI)
- MATH2010 - Algebraic Thinking & Number Sense for Elementary Education School Teachers (QI)
- HEP4200 - Community-Based Program Planning, Implementation, and Evaluation
- GEO5530 - Petroleum Systems: Principles of Exploration and Development (QI) (Inactive)
- ECON5500 - Behavioral Economics and Finance (QI)
- Untitled Course
- ECON5070 - Dynamic Mathematical Methods in Economics and Finance (QI)
- ECON5000 - Econometrics (QI)
- ECON3060 - Mathematical Methods in Economics and Finance (QI)
- ECN5950 - Behavioral Economics and Finance (QI)
- ECN5320 - Dynamic Mathematical Methods in Economics and Finance (QI)
- ECN4330 - Econometrics (QI)
- ECN4310 - Mathematical Methods in Economics and Finance (QI)
- CS1420 - Accelerated Introduction to Computer Science--CS1 and CS2 (QI)
- CHEM3000 - Quantitative Analysis (QI)
- BIOL4230 - Applied Mathematics in Biology (QI)
- BIOL3220 - Field Ecology (QI)
- ASTE4100 - Agricultural Structures and Environment (QI)
- ASTE3600 - Data Management of Agricultural Systems (QI)
- ADVS4560 - Principles of Animal Genetics and Breeding (QI)
- TEE2300 - Electronic Fundamentals (QI)
- STAT3000 - Statistics for Scientists (QI)
- PUBH5330 - Industrial Hygiene Chemical Hazard Control (QI)
- NDFS5500 - Food Analysis (QI)
- NDFS4720 - Management in Dietetics (QI)
- NDFS4440 - Fundamentals of Food Engineering (QI)
- MATH2250 - Linear Algebra and Differential Equations (QI)
- MATH2210 - Multivariable Calculus (QI)
- LAEP2600 - Landscape Construction I (QI)
- KIN4200 - Biomechanics (QI)
- IAD3730 - Interior Materials and Construction (QI)
- GEO5620 - Global Geophysics (QI)
- ENVS3500 - Environmental Data Science (QI)
- BIOL4400 - Plant Physiology (QI)
- TESY3300 - Electronic Systems and Programming (QI)
- SPED5012 - Basic Behavior Management and Instructional Strategies (QI)
- SPED5010 - Applied Behavioral Analysis 1: Principles, Assessment, and Analysis (QI)
- SOC3120 - Social Statistics I (QI)
- SOC2120 - Social Statistics in Everyday Life (QI)
- RAM3200 - Evaluation of Recreation Services (QI)
- PSY3010 - Psychological Statistics (QI)
- PSC5530 - Soil Health and Fertility (QI)
- POLS5000 - Political Analysis (QI)
- POLS3000 - Introduction to Political Research (QI)
- NURS3230 - Evidence-Based Health Care (QI)
- NDFS5100 - Sensory Evaluation of Food (QI)
- MAE3440 - Heat Transfer (QI)
- KIN4400 - Measurement and Evaluation in Kinesiology (QI)
- JCOM2020 - Communication Research Methods (QI)
- HDFS3130 - Research Methods (QI)
- GEO5570 - Engineering Geology (QI)
- GEO5540 - Quantitative Methods in Geology (QI)
- GEO5510 - Groundwater Geology (QI)
- FIN3200 - Corporate Finance (QI)
- ENVS4550 - Recreation Use Monitoring and Assessment (QI)
- ENGL3470 - Approaches to Research (QI)
- DATA3300 - Introduction to Modern Data Analytics (QI)
- CS2420 - Algorithms and Data Structures--CS 3 (QI)

- CS1410 - Introduction to Computer Science--CS 2 (QI)
- CMST4810 - Quantitative Communication Studies Research Methods (QI)
- CHEM3070 - Physical Chemistry II (QI)
- CHEM3060 - Physical Chemistry I (QI)
- CCA3060 - Quantitative Methods for the Arts (QI)
- BUS3400 - Finance Fundamentals (QI)
- BIOL3060 - Principles of Genetics (QI)
- AV5500 - Airline Transport Pilot (ATP) Standards (QI)
- APEC5330 - Applied Econometrics (QI)
- APEC5015 - Applied Economics for Decision Making (QI)
- APEC5010 - Firm Marketing and Price Analysis (QI)
- APEC3310 - Analytical Methods in Applied Economics (QI)
- ANTH5250 - Problems in Bioarchaeology (QI)
- ANTH3340 - Geographic Information Science for Anthropology (QI)

Depth Social Sciences (DSS) Course

- POLS4500 - The Politics of Social Movements (DSS)
- POLS4464 - Why Nations Fight? International Security in the 21st Century (DSS)
- MGT3810 - Employment Law (DSS)
- JCOM4030 - Mass Media Law (DSS)
- ECON3540 - Economic History of the United States (DSS)
- ECON3500 - Introduction to International Business and Economics (DSS)
- ECON3010 - Intermediate Microeconomics (DSS)
- ECN5110 - Economic History of the United States (DSS)
- ECN3400 - Introduction to International Business and Economics (DSS)
- ECN3010 - Intermediate Microeconomics (DSS)
- PSY4420 - Cognitive Psychology (DSS)
- TEAL3780 - History of American Education (DSS)
- SOC4620 - Sociology of the Environment and Natural Resources (DSS)
- SOC4010 - Sociological Theory: Insights from Classical and Contemporary Perspectives (DSS)
- SOC3750 - Sociology of Aging (DSS)
- SOC3610 - Rural People and Places (DSS)
- SOC3600 - Finding Community in Today's Society (DSS)
- SOC3430 - Social Deviance (DSS)
- SOC3340 - Activism, Protest, and Social Movements (DSS)
- SOC3330 - Medical Sociology (DSS)
- SOC3320 - Work, Inequality and the American Dream (DSS)
- SOC3200 - Population and Society (DSS)
- SOC3010 - Social Inequality (DSS)
- RELS3160 - Anthropology of Religion (DSS)
- PSY4240 - Multicultural Psychology (DSS)
- PSY4210 - Personality Theory (DSS)
- PSY3510 - Social Psychology (DSS)
- PSY3400 - Analysis of Behavior: Advanced (DSS)
- PSY3120 - Abuse, Neglect, and the Psychological Dimensions of Intimate Violence (DSS)
- POLS4820 - Natural Resources and Environmental Policy: Political Economy of Environmental Quality (DSS)
- POLS4320 - History of Political Thought II (DSS)
- POLS4260 - Asian Government and Politics (DSS)
- POLS3810 - Introduction to Public Policy (DSS)
- POLS3400 - United States Foreign Policy (DSS)
- POLS3310 - American Political Thought (DSS)
- POLS3270 - Latin American Government and Politics (DSS)
- POLS3250 - Chinese Government and Politics (DSS)
- POLS3220 - Russian and East European Government and Politics (DSS)
- POLS3210 - Western European Government and Politics (DSS)
- POLS3140 - The Presidency (DSS)
- POLS3130 - United States Legislative Politics (DSS)
- POLS3120 - Law and Politics (DSS)
- POLS3110 - Parties and Elections (DSS)
- MUSC3030 - Rock and Roll-Catalyst for Social Change (DSS)
- MSLE3820 - International Business (DSS)
- LING3200 - Introduction to Linguistics (DSS)
- JCOM4020 - Mass Media and Society (DSS)
- JCOM4010 - Mass Communication Ethics (DSS)
- JCOM3410 - Film as Cultural Communication (DSS)
- JCOM3320 - Strategic Research Methods in Public Relations (DSS)
- JCOM3140 - Opinion Writing (DSS)
- HIST3780 - History of American Education (DSS)
- ENVS4000 - Human Dimensions of Natural Resource Management (DSS)
- ENVS3320 - Archaeology of Climate Change (DSS)
- ENGL4230 - Language and Culture (DSS)
- CMST3330 - Intercultural Communication (DSS)
- CJ4440 - The Origins of the United States Criminal Justice System (DSS)
- APEC3012 - Introduction to Natural Resource Economics (DSS)
- APEC3010 - Agricultural Economics (DSS)
- ANTH5650 - Developing Societies (DSS)
- ANTH5110 - Southwest Indian Cultures, Past and Present (DSS)
- ANTH4330 - Archaeology of Latin America (DSS)
- ANTH4130 - Introduction to Medical Anthropology (DSS)
- ANTH3370 - Archaeology of Prehistoric Europe (DSS)
- ANTH3360 - Utah Archaeology (DSS)
- ANTH3350 - Archaeology of Ancient Civilizations (DSS)
- ANTH3320 - Archaeology of Climate Change (DSS)
- ANTH3300 - Archaeology in North America (DSS)
- ANTH3180 - Peoples of the Middle East (DSS)
- ANTH3160 - Anthropology of Religion (DSS)
- ANTH3140 - Anthropology of Sex and Gender (DSS)
- ANTH3110 - North American Indian Cultures (DSS)
- PSY4230 - Psychology of Gender (DSS)
- MSLE3110 - Managing Organizations and People (DSS)
- HDFS3350 - Family Finance (DSS)

Depth Humanities and Creative Arts (DHA) Course

- HIST4821 - World War II in Asia (DHA)
- HIST3560 - Modern East Asia (DHA)
- HIST3510 - Africa and the World (DHA)
- FREN4630 - French and Francophone Fairy Tales (DHA)
- FREN4610 - Studies in French Literature and Culture (DHA)
- ENGL3270 - Funny Business (DHA)
- ENGL3250 - Travel the World through Literature and Writing (DHA)
- ENGL3240 - Writing Family Stories (DHA)
- ENGL3230 - Young Adult Literature (DHA)
- ENGL3220 - Romance Novels (DHA)
- ENGL3150 - Science Fiction (DHA)
- ENGL3140 - Introduction to LGBTQ+ Literature (DHA)
- HIST3700 - Regional Folklore (DHA)
- THEA3570 - Historic Clothing (DHA)
- THEA3560 - Period Styles/Historic Interiors (DHA)
- TEAL3080 - Integrating Arts into Academic Learning (DHA)
- TCR3120 - Rhetorical Theory (DHA)
- SPAN3630 - Survey of Hispanic American Literature II (DHA)
- SPAN3620 - Survey of Hispanic American Literature I (DHA)
- SPAN3600 - Survey of Spanish Literature I (DHA)
- SPAN3570 - Hispanic American Culture and Civilization (DHA)
- SPAN3550 - Spanish Culture and Civilization (DHA)
- RUSS3300 - Contemporary Russian Language and Culture (DHA)
- RELS4825 - Historical Roots of the War on Terror (DHA)
- RELS4565 - Medieval Islam (DHA)
- RELS4560 - Women in Islam (DHA)
- RELS3482 - Ancient China to 1800 (DHA)
- RELS3456 - History of South Asia (DHA)
- RELS3270 - The Crusades (DHA)

- RELS3080 - Mormonism and the American Religious Experience (DHA)
- RELS3060 - Introduction to Judaism (DHA)
- RELS3050 - Introduction to Christianity (DHA)
- RELS3030 - Introduction to Islam (DHA)
- RELS3020 - Introduction to Hinduism (DHA)
- RELS3010 - Introduction to Buddhism (DHA)
- PORT3630 - Literatures of the Portuguese-Speaking World (DHA)
- PORT3570 - Brazilian Culture and Civilization (DHA)
- POLS4370 - Modern Political Thought (DHA)
- POLS4360 - Critical Topics in Political Theory (DHA)
- PHIL5400 - Ethics and Emerging Technology (DHA)
- PHIL4500 - Virtue Ethics (DHA)
- PHIL4410 - Philosophy of Mind (DHA)
- PHIL4310 - Philosophy of Science (DHA)
- PHIL4300 - Epistemology (DHA)
- PHIL3990 - Philosophy and Pop Culture (DHA)
- PHIL3820 - Theories of Sex and Gender (DHA)
- PHIL3810 - Philosophy of Art (DHA)
- PHIL3800 - Philosophy in Literature (DHA)
- PHIL3700 - Political Philosophy (DHA)
- PHIL3600 - Philosophy of Religion (DHA)
- PHIL3580 - Ethics and Economic Life (DHA)
- PHIL3530 - Environmental Ethics (DHA)
- PHIL3520 - Business Ethics (DHA)
- PHIL3500 - Healthcare Ethics (DHA)
- MUSC4700 - Wind Orchestra (DHA)
- MUSC4650 - Chamber Singers (DHA)
- MUSC4600 - University Chorale (DHA)
- MUSC3790 - Symphonic Band (DHA)
- MUSC3785 - Marching Band (DHA)
- MUSC3500 - Symphony Orchestra (DHA)
- MUSC3040 - History of African American Music (DHA)
- MUSC3020 - History of Jazz (DHA)
- MUSC3010 - Masterpieces of Music (DHA)
- LANG3570 - Narrative Ethics in Asian Literature and Film (DHA)
- LANG3550 - Culture of East Asia (DHA)
- HIST4891 - Cold War: Vietnam and Afghanistan (DHA)
- HIST4890 - Cold War in Asia (DHA)
- HIST4825 - Historical Roots of the War on Terror (DHA)
- HIST4822 - The Vietnam War (DHA)
- HIST4815 - World War I: A Global Conflict (DHA)
- HIST4760 - America in the 1960s (DHA)
- HIST4711 - Northern Ute History (DHA)
- HIST4700 - Folk Material Culture (DHA)
- HIST4660 - Work and Migration in North American History (DHA)
- HIST4630 - History of the Southwest Borderlands (DHA)
- HIST4625 - The History of Natural Disasters (DHA)
- HIST4566 - Global Faces of Islam (DHA)
- HIST4565 - Medieval Islam (DHA)
- HIST4560 - Women in Islam (DHA)
- HIST4510 - American Metropolis: Cities and Suburbs in United States History (DHA)
- HIST4260 - Witches, Workers, & Wives: Gender and Family in Early Modern Europe and America (DHA)
- HIST4251 - The Tudors, 1485-1603 (DHA)
- HIST3910 - Health, Disease, and Medicine in North America (DHA)
- HIST3840 - The Modern American West (DHA)
- HIST3765 - Native Americans in Film (DHA)
- HIST3660 - History of Mexico (DHA)
- HIST3620 - History of Colonial Latin America (DHA)
- HIST3550 - Culture of East Asia (DHA)
- HIST3530 - African Environmental History (DHA)
- HIST3483 - Modern China 1800 to present (DHA)
- HIST3482 - Ancient China to 1800 (DHA)
- HIST3460 - Comparative Asian History (DHA)
- HIST3456 - History of South Asia (DHA)
- HIST3350 - War in the Age of Cinema: Anglo-American Film and the Two World Wars (DHA)
- HIST3340 - Holocaust History and Memory (DHA)
- HIST3270 - The Crusades (DHA)
- HIST3230 - Early Modern Europe (DHA)
- HIST3225 - Medieval Britain, 500-1500 (DHA)
- HIST3080 - Mormonism and the American Religious Experience (DHA)
- HIST3070 - Digital Folklore (DHA)
- HIST3060 - Introduction to Judaism (DHA)
- HIST3030 - Introduction to Islam (DHA)
- HIST3020 - Introduction to Hinduism (DHA)
- HIST3010 - Introduction to Buddhism (DHA)
- GERM4650 - Trends in Modern Germany (DHA)
- GERM3610 - Contemporary German Art and Literature (DHA)9
- GERM3600 - Classic German Art and Literature (DHA)
- GERM3550 - Cultural History of German Speaking Peoples (DHA)
- GERM3300 - Contemporary German Speaking Cultures (DHA)
- GERM3000 - Introduction to German Studies (DHA)
- FREN4620 - Genre Studies in French Literature (DHA)
- FREN3550 - French Civilization (DHA)
- FREN3500 - French and Francophone Authors (DHA)
- FCSE3080 - Fashion Studies and Society (DHA)
- ENGL4700 - Folk Material Culture (DHA)
- ENGL3720 - Children's Folklore (DHA)
- ENGL3640 - Nature Writing (DHA)
- ENGL3070 - Digital Folklore (DHA)
- ENGL3060 - Mind And Body: The Rhetoric Of Health And Healing (DHA)
- ENGL3050 - Masterpieces of World Literature (DHA)
- ENGL3040 - Perspectives in Writing and Rhetoric (DHA)
- ENGL3030 - Perspectives in Literature (DHA)
- ENGL3020 - Perspectives in Linguistics (DHA)
- CMST3730 - Culture and Global Intervention (DHA)
- CHIN3100 - Readings in Contemporary Chinese Culture (DHA)
- CCA3330 - Arts Symposium (DHA)
- ARTH3620 - Early Christian and Byzantine Art (DHA)
- ARBC4040 - Language and Culture of the Arab World (DHA)
- ARBC3030 - Introduction to Islam (DHA)
- ANTH3550 - Culture of East Asia (DHA)

Communications Intensive (CI) Courses

- WILD4100 - Scientific Communication for Natural Resource Professionals (CI)
- TCR3085 - Technical Communication for the Computer Science Workplace (CI)
- SW5350 - Social Policy and Social Justice (CI)
- SPED5210 - Student Teaching in Special Education: Dual Majors
- SOC3020 - Inclusive Leadership & Community Engagement (CI)
- SHS4200 - Clinical Methods (CI)
- SHS4100 - Clinical Practicum in Speech-Language Pathology (CI)
- PUBH3870 - Professional/Technical Writing in Civil and Environmental Engineering (CI)
- PSC5740 - Environmental Quality: Soil and Water (CI)
- PORT3040 - Advanced Portuguese Grammar and Composition (CI)
- PHYS4900 - Research in Physics (CI)
- NURS4010 - Leadership, Management, and Policy in Health Care (CI)
- MUSC4320 - Research in Music Therapy (CI)
- MSLE4890 - Strategic Planning for Career and Life (CI)
- MSLE3610 - Strategic Planning for Career and Life (CI)
- MSL4010 - The Army Officer
- MATH4310 - Introduction to Algebraic Structures (CI)
- MATH4200 - Foundations of Analysis (CI)
- MAE4400 - Fluids/Thermal Laboratory (CI)
- KIN3200 - Motor Control and Learning (CI)
- JCOM5300 - Case Studies in Public Relations (CI)
- IGS3010 - Inclusive Leadership & Community Engagement (CI)

- HIST4620 - Advanced Seminar in American Studies (CI)
- HEP5000 - Health Trends Across Communities (CI)
- HEP3600 - Functions of Community & Public Health (CI)
- HDFS4900 - Professional Development and Pre-Practicum (CI)
- GEOG5120 - Environment and Development in Latin America (CI)
- GEOG4120 - Environment and Development in Latin America (CI)
- GEO5440 - Vertebrate Paleontology (CI)
- FREN4090 - Advanced Written Communication (CI)
- FREN3090 - French Intermediate Written Communication (CI) (Inactive)
- FREN3060 - French Intermediate Written Communication (CI)
- ENGR3080 - Creativity and Communication in Design (CI)
- ENGL5310 - Contemporary Literature (CI)
- ENGL4620 - Advanced Seminar in American Studies (CI)
- ENGL4390 - Contemporary Literature (CI)
- ENGL3190 - Data Storytelling (CI)
- ENGL3170 - Legal Writing (CI)
- ENGL3085 - Technical Communication for the Computer Science Workplace (CI)
- ELED5030 - Teaching Language Arts (CI)
- DATA3400 - Data Visualization with Tableau (CI) (Inactive)
- COMD4200 - Clinical Methods (CI)
- COMD4100 - Clinical Practicum in Speech-Language Pathology (CI)
- COMD3600 - Language Science (CI)
- BIOL3200 - Advanced Ecology (CI)
- AV3720 - CFI Ground School (CI)
- ASL3010 - American Sign Language I
- ASL2010 - American Sign Language III
- ARTH5410 - Art of Small Scale Cultures (CI)
- ARTH5310 - Common Threads: History of Fiber Arts (CI)
- ARTH4725 - Contemporary Land, Earth, and Eco Art (CI)
- ARTH4520 - The Visual Cultures of Empire (CI)
- ARTH4410 - Art of Small Scale Cultures (CI)
- ARTH4310 - Common Threads: History of Fiber Arts (CI)
- ARTH3840 - Race and Visual Culture (CI)
- ARTH3780 - 19th Century European Art (CI)
- ARTH3760 - American Art and Visual Culture (CI)
- ARTH3755 - Contemporary Art: 1989 to the present (CI)
- ARTH3750 - High-Modernism To Post - Modernism: 1945-1989 (CI)
- ARTH3740 - Art of The Avant - Gardes: 1872 - 1945 (CI)
- ARTH3720 - Renaissance Art (CI)
- ARTH3710 - Art, Culture and Crisis in Postwar Britain (CI)
- ARTH3610 - Classical Art History: Greece and Rome (CI)
- ARTH3340 - African Art (CI)
- ARTH3320 - Pre-Columbian Art (CI)
- ARTH3270 - Native North American Art (CI)
- ADVS4200 - Physiology of Reproduction and Lactation (CI)
- SW4100 - Social Work Research (CI)
- HONR4900 - Honors Thesis/Capstone (H)(CI)
- HIST4990 - Undergraduate Research Capstone (CI)
- WILD4910 - Vegetation Resource Management and Planning (CI)
- PHYS3880 - Advanced Physics Laboratory (CI)
- PHYS3870 - Intermediate Physics Laboratory (CI)
- NDFS5110 - Food Microbiology (CI)
- MAE4800 - Capstone Design I (CI)
- BENG4890 - Biological Engineering Design III (CI)
- BENG4880 - Biological Engineering Design II (CI)
- ASTE4150 - Methods of Teaching Agriculture (CI)
- WILD5700 - Forest Assessment and Management (CI)
- WILD5560 - Applied Avian Ecology (CI)
- WATS3700 - Fundamentals of Watershed Science (CI)
- TESY3020 - Strategic Human Skills Development (CI)
- TEE5220 - Program and Course Development (CI)
- TEE4710 - Electronics/Computer Design II (CI)
- TCR4250 - Careers in Professional Communication (CI)
- TCR3220 - Technical Editing (CI)
- SPAN3060 - Advanced Spanish Conversation and Composition (CI)
- SOC5640 - Managing Community Conflict (CI)
- SOC4640 - Managing Community Conflict (CI)
- SOC4420 - Law and Society (CI)
- SOC4410 - Race and Crime (CI)
- SOC3110 - Methods of Social Research (CI)
- SCED5200 - Language, Literacy, and Learning in the Content Areas (CI)
- RUSS3510 - Business Russian (CI)
- RELS4730 - History of Black America (CI)
- RELS3820 - Hindu Sacred Texts (CI)
- RELS3710 - Topics in Folklore (CI)
- RAM4800 - Senior Seminar (CI)
- RAM4100 - History of Leisure (CI)
- PUBH5500 - Public Health Management (CI)
- PSY4960 - Capstone Seminar in Psychology (CI)
- PSY4950 - Undergraduate Apprenticeship (CI)
- PSC4890 - Senior Seminar (CI)
- POLS4990 - Senior Research Seminar (CI)
- POLS4450 - United States and Latin America (CI)
- POLS4310 - History of Political Thought I (CI)
- POLS3135 - Public Opinion and American Democracy (CI)
- PHIL5430 - History and Philosophy of Physical Activity and Sport (CI)
- PHIL3020 - Survey of Modern Philosophy (CI)
- PHIL3010 - Survey of Ancient and Medieval Philosophy (CI)
- OPDD3030 - Design Thinking, Methods, and Materials (CI)
- NURS3210 - Population Health and Prevention (CI)
- NDFS6460 - Medical Dietetics (CI)
- NDFS5920 - Food Product Development (CI)
- NDFS5410 - Nutrient Gene Interactions (CI)
- NDFS5230 - Communication of Current Topics in Nutrition (CI)
- NDFS5210 - Advanced Public Health Nutrition (CI)
- NDFS4780 - Maternal and Child Nutrition (CI)
- NDFS4560 - Medical Nutrition Therapy (CI)
- NDFS3060 - Education and Counseling Methods in Dietetics II (CI)
- NDFS3050 - Education and Counseling Methods in Dietetics I (CI)
- MUSM3310 - Introduction to Museum Studies (CI)
- MUSC4730 - Directed Project in Instrumental Pedagogy and Literature (CI)
- MUSC3620 - Vocal Repertory II (CI)
- MUSC3190 - Music History III: Romanticism through the 21st Century (CI)
- MSLE4560 - Strategic Sales (CI)
- MATH5580 - Actuarial Math II (CI)
- LAEP6060 - E Studio / Entrepreneurship in Planning and Design (CI)
- LAEP4910 - Foundations of Business in Design and Planning (CI)
- KIN5430 - History and Philosophy of Physical Activity and Sport (CI)
- KIN4900 - Methods of Physical Education (CI)
- JCOM5110 - Literary Journalism (CI)
- JCOM4220 - Newscast II (CI)
- JCOM4210 - Newscast I (CI)
- JCOM4120 - Sports Reporting (CI)
- JCOM4110 - Investigative Journalism (CI)
- JCOM3310 - Writing for Public Relations (CI)
- JCOM3120 - Editing and Design (CI)
- JCOM3110 - Feature Writing (CI)
- JCOM3100 - Reporting Public Affairs (CI)
- JCOM3050 - Technical and Professional Communication Principles (CI)
- ITLS5320 - Writing for Design (CI)
- IS5900 - Systems Design and Implementation (CI)
- IAD4740 - Business and Professional Practices in Interior Architecture and Design (CI)
- HIST5690 - American Studies Capstone Seminar (CI)
- HIST4730 - History of Black America (CI)
- HIST4640 - Studies in the American West (CI)
- HIST3920 - History of Native American Business and Entrepreneurship (CI)

- HIST3710 - Topics in Folklore (CI)
- HIST3670 - Slavery in the Atlantic World (CI)
- HIST3150 - Roman History (CI)
- HDFS3210 - Families and Cultural Diversity (CI)
- GERM3540 - Techniques in Translating German Texts (CI)
- GERM3510 - Business German (CI)
- GERM3050 - Advanced German Conversation (CI)
- GERM3040 - Advanced German Grammar & Culture (CI)
- GEOG3100 - Human-Environment Geography (CI)
- GEO5520 - Techniques of Groundwater Investigations (CI)
- GEO3900 - Geologic Field Methods (CI)
- FREN4060 - Advanced French Conversation (CI)
- FREN3700 - Francophone Music (CI)
- FREN3510 - Business French (CI)
- FILM4850 - Introduction to Film Theory (CI)
- FILM3370 - Film Genres (CI)
- FILM3350 - British Cinema of the 1960s (CI)
- FILM3330 - The Documentary (CI)
- FILM3320 - American Apocalypse: Disaster and Dystopia in Hollywood Film (CI)
- FILM3300 - The African American Cinematic Experience (CI)
- ENVS4700 - Communicating Sustainability (CI)
- ENVS4500 - Advanced Natural Resource Recreation Management (CI)
- ENGL5910 - Senior Honors Thesis (CI)
- ENGL5690 - American Studies Capstone Seminar (CI)
- ENGL5340 - Multimedia Literature (CI)
- ENGL5330 - Race and Ethnicity in Literature (CI)
- ENGL5320 - Gender and Sexuality in Literature (CI)
- ENGL5300 - Special Topics in Literature (CI)
- ENGL4640 - Studies in the American West (CI)
- ENGL4510 - Teaching Literature (CI)
- ENGL4500 - Teaching Writing (CI)
- ENGL4440 - Advanced Nonfiction Writing (CI)
- ENGL4430 - Advanced Poetry Writing (CI)
- ENGL4420 - Advanced Fiction Writing (CI)
- ENGL3710 - Topics in Folklore (CI)
- ENGL3160 - AI and Writing Across Disciplines (CI)
- ELED4040 - Reading Assessment and Intervention (CI)
- ELED3000 - Historical, Social, and Cultural Foundations of Education (CI)
- ECE4850 - Engineering Communications II (CI)
- ECE4840 - Engineering Design II (CI)
- CS3450 - Introduction to Software Engineering (CI)
- CMST5800 - Communication Studies Senior Capstone (CI)
- CMST5100 - Theories of Communication (CI)
- CMST4820 - Communication Criticism (CI)
- CMST4700 - Health Communication (CI)
- CMST4330 - Advanced Perspectives in Global Communication (CI)
- CMST3250 - Organizational Communication (CI)
- CJ4350 - Courtroom Communication (CI)
- CHIN3540 - Translating into and from Chinese (CI)
- CHEM5720 - General Biochemistry Laboratory II (CI)
- CHEM4990 - Undergraduate Seminar (CI)
- CHEM4890 - Undergraduate Biochemistry Seminar (CI)
- CHEM4800 - Research Problems (CI)
- CHEM3090 - Physical Chemistry Laboratory (CI)
- CEE4880 - Civil and Environmental Design III (CI)
- CEE4870 - Civil and Environmental Design II (CI)
- BUS3200 - Professional Communication with AI (CI)
- BIOL5630 - Endocrinology (CI)
- BIOL5390 - Genes and Behavior (CI)
- BIOL3100 - Bioethics (CI)
- BIOL3095 - Molecular, Cellular, and Developmental Biology Laboratory (CI)
- BIOL3085 - Ecology Laboratory (CI)
- BIOL3055 - Organismal Biology with Physiology Laboratory (CI)
- AV4720 - Aviation Safety and Security (CI)
- AV4710 - Crew Resource Management (CI)
- AV4660 - Aviation Senior Project (CI)
- AV4620 - Aviation Maintenance Senior Project II (CI)
- AV4610 - Aviation Maintenance Senior Project I (CI)
- AV3100 - Technical Communication for the Global Aviation Industry (CI)
- ASTE5260 - Environmental Impacts of Agricultural Systems (CI)
- ASTE3240 - Teaching in Laboratory Settings (CI)
- ASTE3050 - Technical and Professional Communication Principles (CI)
- ARTH4710 - Feminist Theory and Practice in the Visual Arts (CI)
- ARTH3215 - Art of Ancient Greece (CI)
- APEC5040 - Rural Economic Development and Agriculture (CI)
- APEC5020 - Strategic Firm Management (CI)
- ANTH5140 - Anthropology of Global Health (CI)
- ANTH4990 - Contemporary Issues in Anthropology (CI)
- ANTH3710 - Topics in Folklore (CI)
- ANTH3310 - Introduction to Museum Studies (CI)
- ANTH3130 - Peoples of Latin America (CI)
- ADVS5630 - Endocrinology (CI)
- ADVS4920 - Undergraduate Seminar (CI)

Integrated Depth Courses

Complete ANY:

- ANTH4650 - Utah's Public Lands: Past, Present, Future (DSS/HASS)
- ENGL4650 - Utah's Public Lands: Past, Present, Future (DHA/HASS)

Breadth Physical Sciences (BPS) Course

- PHYS1800 - Physics of Technology (BPS)
- PHYS1080 - Intelligent Life in the Universe (BPS)
- PHYS1020 - Energy (BPS) (Inactive)
- GEO1380 - Where Science and Society Meet (BPS)
- CIVC1410 - Earth's Critical Resources (BPS)
- CIVC1400 - Planetary Change and Human Futures (BPS)
- CHEM1110 - General Chemistry I (BPS)
- PHYS1200 - Introduction to Physics by Hands-on Exploration (BPS)
- NDFS1010 - Chocolate: Science, History, and Society (BPS)
- GEO1110 - Physical Geology (BPS)
- GEO1010 - Introduction to Geology (BPS)
- CHEM1220 - Principles of Chemistry II (BPS)
- CHEM1120 - General Chemistry II (BPS)
- TEE2200 - Aquaponic Systems (BPS)
- PSC2700 - Climate Change Impacts (BPS)
- PSC2040 - Aviation Meteorology (BPS)
- PSC2010 - Soils, Waters, and the Environment (BPS)
- PSC2000 - The Atmosphere and Weather (BPS)
- PHYS2120 - General Physics - Life Sciences II (BPS)
- PHYS1100 - Great Ideas in Physics (BPS)
- PHYS1040 - Introductory Astronomy (BPS)
- PHYS1010 - Elementary Physics (BPS)
- HONR1360 - Integrated Physical Science (H)(BPS)
- GEOG1000 - Physical Geography (BPS)
- GEO1360 - Planet Earth (BPS)
- GEO1060 - Introduction to Environmental Geoscience (BPS)
- CS1030 - Foundations of Computer Science (BPS)
- CHEM1010 - Introduction to Chemistry (BPS)
- USU1360 - Integrated Physical Science (BPS)

Breadth Social Sciences (BSS) Course

- SPED1010 - Disability and Society (BSS)
- SOC1030 - Introduction to Gender & Sexuality Studies (BSS)
- REH1010 - Disability and Society (BSS)
- POLS2430 - Contemporary Geopolitics (BSS)
- POLS2400 - Contemporary Geopolitics (BSS)
- IGS1010 - Introduction to Gender & Sexuality Studies
- IELI2475 - Cross-Cultural Explorations (BSS)
- IELI2470 - Cross-Cultural Perspectives (BSS)

- GEOG2340 - Environment, Natural Resources, and Society (BSS)
- ENVS2340 - Environment, Natural Resources, and Society (BSS)
- ECON2010 - Introduction to Microeconomics (BSS)
- ECN2010 - Introduction to Microeconomics (BSS)
- CIVC1830 - Pathways to Intercultural Understanding (BSS)
- CIVC1820 - The Social Science of Happiness (BSS)
- CIVC1810 - Lead From Where You Are (BSS)
- CIVC1800 - Disagree Better (BSS)
- PSY1010 - General Psychology (BSS)
- SW1010 - Introduction to Social Welfare (BSS)
- SOC2650 - Globalization and International Development (BSS)
- SOC2630 - Sociology of Race and Ethnicity (BSS)
- SOC2370 - Sociology of Gender (BSS)
- SOC1020 - Social Problems (BSS)
- SOC1010 - Introductory Sociology (BSS)
- POLS2500 - Introduction to International Studies (BSS)
- POLS2200 - Comparative Politics (BSS)
- POLS2100 - Introduction to International Relations (BSS)
- POLS1010 - Introduction to Political Science (BSS)
- LING2100 - Languages in Global and Historical Context (BSS)
- LANG2100 - Languages in Global and Historical Context (BSS)
- JCOM2010 - Media Literacy (BSS)
- JCOM1500 - Introduction to Mass Communication (BSS)
- HONR1340 - Social Systems and Issues (H)(BSS)
- HIST2018 - Introduction to Native American History and Culture (BSS)
- HEP1500 - Introduction to Global Health (BSS)
- HDFS2400 - Couple and Family Relationships (BSS)
- HDFS1500 - Human Development Across the Lifespan (BSS)
- GEOG1400 - Human Geography (BSS)
- GEOG1300 - World Geography: Human and Environmental Dynamics (BSS)
- FCSE1350 - Financial Literacy (BSS)
- CMST2120 - Group Collaboration and Decision Making
- CMST1330 - Introduction to Global Communication (BSS)
- CJ1010 - Introduction to Criminal Justice (BSS)
- BUSN1010 - Business Principles (BSS)
- ASTE2900 - Food Matters: Ethics, Economics, and the Environment (BSS)
- APEC2010 - Introduction to Microeconomics (BSS)
- APEC1400 - Introduction to Agriculture Policy (BSS)
- ANTH2030 - Principles of Archaeology (BSS)
- ANTH2018 - Introduction to Native American History and Culture (BSS)
- ANTH2010 - Peoples of the Contemporary World (BSS)
- ANTH1030 - World Archaeology (BSS)
- ANTH1010 - Cultural Anthropology (BSS)
- USU1340 - Social Systems and Issues (BSS)
- RAM1500 - Leisure and Human Behavior (BSS)
- HDFS2450 - Consumer and Family Economic Issues (BSS)
- HDFS2100 - Family Resource Management (BSS)
- HDFS1010 - Balancing Work and Family (BSS)

Depth Life and Physical Sciences (DSC) Course

- WILD3200 - Marine Ecology: Expedition Sea of Cortez (DSC)
- WATS3200 - Marine Ecology: Expedition Sea of Cortez (DSC)
- STAT5500 - Biostatistics Methods (DSC)
- PHYS3020 - Great Scientists (DSC) (Inactive)
- BIOL3010 - Evolution (DSC)
- ADVS3200 - Ethical Issues in Genetic Engineering and Biotechnology (DSC) (Inactive)
- GEO3000 - Epic Earth - Geoscience of National Parks (DSC)
- WATS5210 - The Secret Life of Elements on Earth
- WATS3450 - Introduction to Coral Reefs-Field Course (DSC)
- WATS3000 - Oceanography (DSC)
- TEE3440 - Science, Technology, and Modern Society (DSC)
- PSC3100 - Soils and Civilization (DSC)
- PHIL4530 - Ethics and Biotechnology (DSC)
- NDFS3110 - Food, Technology, Sustainability and Health (DSC)
- HIST3900 - Science and Technology in World History (DSC)
- GEO3300 - Geology of the World's Oceans (DSC)
- GEO3250 - Natural History of Dinosaurs (DSC)
- GEO3100 - Natural Disasters (DSC)
- ENVS3600 - Living with Wildlife (DSC)
- CHEM3650 - Environmental Chemistry (DSC)
- BIOL3500 - Plagues, Pests, and People
- BIOL3030 - Genetics and Society (DSC)
- ASTE3440 - Science, Technology, and Modern Society (DSC)
- ANTH3240 - Anthropology of Disease (DSC)
- ANTH3225 - Sex, Evolution, and Health (DSC)

Breadth Life Sciences (BLS) Course

- HEAL1500 - Anatomy and Physiology (BLS)
- CIVC1520 - Farm to Future: Sustainable Food Systems (BLS)
- CIVC1510 - Our Place in the Natural World (BLS)
- CIVC1500 - The Science of You: Health and the Human Body (BLS)
- BIOL1620 - Biology II (BLS)
- WATS2500 - Introduction to Marine Biology (BLS)
- WATS1200 - The Natural World and Our Place Within It (BLS)
- PSC1800 - Introduction to Horticulture (BLS)
- NDFS1020 - Science and Application of Human Nutrition (BLS)
- LAEP1040 - Introduction to Environmental Planning and Sustainable Development (BLS)
- ENVS1350 - Introduction to Environmental Science (BLS)
- BIOL1010 - Biology and the Citizen (BLS)
- ANTH1020 - Biological Anthropology (BLS)
- ADVS1110 - Introduction to Animal Science (BLS)
- USU1350 - Integrated Life Science (BLS)

Quantitative Literacy (QL) Course

- STAT1080 - Foundations of Data Science (QL)
- MATH1051 - Classical Algebra for Teachers (QL)
- MATH1030 - Quantitative Reasoning (QL)
- CIVC1020 - Financial Foundations for Life and Society (QL)
- CIVC1010 - Data and the Stories They Tell (QL)
- CIVC1000 - Math for Real World Problems (QL)
- STAT2300 - Business Statistics (QL)
- MATH1220 - Calculus II (QL)
- MATH1210 - Calculus I (QL)
- MATH1100 - Calculus Techniques (QL)
- MATH1050 - College Algebra (QL)

Breadth American Institutions (BAI) Course

- ECON2020 - Introduction to Macroeconomics (BAI)
- ECN1500 - Introduction to Macroeconomics
- CIVC1220 - "Promote the General Welfare": The American Economy (BAI)
- CIVC1210 - “A More Perfect Union”: American History (BAI)
- CIVC1200 - “The Blessings of Liberty”: American Government (BAI)
- POLS1100 - United States Government and Politics (BAI)
- HIST2710 - United States 1877-Present (BAI)
- HIST2700 - United States to 1877 (BAI)
- HIST1700 - American History (BAI)
- APEC1600 - Natural Resources and American Economic Institutions (BAI)
- USU1300 - U.S. Institutions (BAI)
- HONR1300 - U.S. Institutions (H) (BAI)
- GEBAI - BREADTH AMER INSTITUTION

Breadth Creative Arts (BCA) Course

- THEA1513 - Stagecraft (BCA)
- CIVC1624 - Writing and the Creative Life (BCA)

- CIVC1622 - Visual Arts and the Creative Life (BCA)
- CIVC1620 - Music and the Creative Life (BCA)
- CIVC1610 - Design Thinking (BCA)
- CIVC1600 - Thinking Through the Arts (BCA)
- THEA1033 - Beginning Acting (BCA)
- THEA1023 - Introduction to Film (BCA)
- THEA1013 - Understanding Theatre (BCA)
- THEA1000 - Acting I: Introduction to Acting (BCA)
- MUSC1195 - Global Perspectives in Performance (BCA)
- MUSC1110 - Music Theory I (BCA)
- MUSC1105 - Fundamentals for Music Majors (BCA)
- MUSC1100 - Fundamentals of Music for Non-Music Majors (BCA)
- MUSC1050 - Contemporary Pop A Cappella: Context, Arranging, and Performance (BCA)
- MUSC1010 - Introduction to Music (BCA)
- LAEP1030 - Introduction to Landscape Architecture (BCA)
- IAD1750 - Design in Everyday Living (BCA)
- HONR1330 - Civilization: Creative Arts (H)(BCA)
- DANC1010 - Dance in Culture (BCA)
- ART1020 - Drawing I (BCA)
- ART1010 - Exploring Art (BCA)
- USU1330 - Civilization: Creative Arts (BCA)

Requirement Sets

Business Acumen (46-47 credits)

Simple Requisites

Business Acumen (46-47 credits)

Type

Completion Requirement

Required

Complete ALL of the following Courses:

- ACCT2010 - Financial Accounting Principles
- ACCT2020 - Managerial Accounting Principles
- BUS3200 - Professional Communication with AI (CI)
- DATA1100 - Excel for Business Analysis
- DATA2100 - Data and Information in Business
- DATA3100 - Making Decisions with Data
- DATA3300 - Introduction to Modern Data Analytics (QI)
- ECN1500 - Introduction to Macroeconomics
- ECN2010 - Introduction to Microeconomics (BSS)
- FIN3200 - Corporate Finance (QI)
- FIN3300 - Investments
- MGT3050 - Foundations of Business: Capitalism, Markets, and Innovation
- MGT3350 - Legal and Ethical Environment of Business
- MGT3700 - Operations Management
- MSLE3500 - Fundamentals of Marketing
- MSLE3800 - Leadership
- MSLE3890 - Systems Strategy and Problem Solving

Accounting majors require a B grade or higher in ACCT2010

Finance, International Business, and Management (Wealth Management emphasis) majors require a B- grade or higher in FIN3200

International Business and Management (Operations and Supply Chain Management emphasis) majors require a B- grade or higher in MGT3700

International Business majors require a B- grade or higher; Marketing majors require a B- grade or higher in MSLE 3500